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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:

a) 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; or,

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.

If distribution of executable or 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 counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

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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>

This program 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 2 of the License, or (at your option) any later version.

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. See the GNU General Public License for more details.
You should have received a copy of the GNU General Public License along with this program; 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.

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 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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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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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.

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Open Source Used In Cisco VSM 7.14.2 130
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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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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.

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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
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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:

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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!

<!-- SECTION: Getting Started -->

<!DOCTYPE HTML>

<!-- SECTION: Getting Started -->

<HEAD>
<TITLE>Software License Agreement</TITLE>
</HEAD>

<BODY>

<H1 CLASS="title">Software License Agreement</H1>

<P ALIGN="CENTER">Copyright 2007-2012 by Apple Inc.</P>
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1.11 jansson 2.10 1.el7

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### 1.14 perl-thread-queue 3.02

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=head1 NAME

Thread::Queue - Thread-safe queues

=head1 VERSION

This document describes Thread::Queue version 3.02

=head1 SYNOPSIS

```perl
use strict;
use warnings;
use threads;
use Thread::Queue;

my $q = Thread::Queue->new();    # A new empty queue

# Worker thread
my $thr = threads->create(
    sub {  # A new empty queue
        # Thread will loop until no more work
        while (defined(my $item = $q->dequeue())) {  
            # Do work on $item
            ...
        }
    }
);
```
# Send work to the thread
$q->enqueue($item1, ...);
# Signal that there is no more work to be sent
$q->end();
# Join up with the thread when it finishes
$thr->join();

...

# Count of items in the queue
my $left = $q->pending();

# Non-blocking dequeue
if (defined(my $item = $q->dequeue_nb())) {
    # Work on $item
}

# Blocking dequeue with 5-second timeout
if (defined(my $item = $q->dequeue_timed(5))) {
    # Work on $item
}

# Get the second item in the queue without dequeuing anything
my $item = $q->peek(1);

# Insert two items into the queue just behind the head
$q->insert(1, $item1, $item2);

# Extract the last two items on the queue
my ($item1, $item2) = $q->extract(-2, 2);

=head1 DESCRIPTION

This module provides thread-safe FIFO queues that can be accessed safely by any number of threads.

Any data types supported by L<threads::shared> can be passed via queues:

=over

=item Ordinary scalars

=item Array refs

=item Hash refs

=item Scalar refs
Ordinary scalars are added to queues as they are.

If not already thread-shared, the other complex data types will be cloned (recursively, if needed, and including any C<bless>ings and read-only settings) into thread-shared structures before being placed onto a queue.

For example, the following would cause L<Thread::Queue> to create a empty, shared array reference via C<&shared([])>, copy the elements 'foo', 'bar' and 'baz' from C<@ary> into it, and then place that shared reference onto the queue:

```perl
my @ary = qw/foo bar baz/;
$q->enqueue(@ary);
```

However, for the following, the items are already shared, so their references are added directly to the queue, and no cloning takes place:

```perl
my @ary :shared = qw/foo bar baz/;
$q->enqueue(@ary);
```

```perl
my $obj = &shared({});
$&obj{foo} = 'bar';
$&obj{'qux'} = 99;
bless($obj, 'My::Class');
$q->enqueue($obj);
```

See L</"LIMITATIONS"> for caveats related to passing objects via queues.

=head1 QUEUE CREATION

=over

=item ->new()

Creates a new empty queue.

=item ->new(LIST)

Creates a new queue pre-populated with the provided list of items.

=back

=head1 BASIC METHODS
The following methods deal with queues on a FIFO basis.

=item ->enqueue(LIST)

Adds a list of items onto the end of the queue.

=item ->dequeue()

=item ->dequeue(COUNT)

Removes the requested number of items (default is 1) from the head of the queue, and returns them. If the queue contains fewer than the requested number of items, then the thread will be blocked until the requisite number of items are available (i.e., until other threads <enqueue> more items).

=item ->dequeue_nb()

=item ->dequeue_nb(COUNT)

Removes the requested number of items (default is 1) from the head of the queue, and returns them. If the queue contains fewer than the requested number of items, then it immediately (i.e., non-blocking) returns whatever items there are on the queue. If the queue is empty, then C<undef> is returned.

=item ->dequeue_timed(TIMEOUT)

=item ->dequeue_timed(TIMEOUT, COUNT)

Removes the requested number of items (default is 1) from the head of the queue, and returns them. If the queue contains fewer than the requested number of items, then the thread will be blocked until the requisite number of items are available, or until the timeout is reached. If the timeout is reached, it returns whatever items there are on the queue, or C<undef> if the queue is empty.

The timeout may be a number of seconds relative to the current time (e.g., 5 seconds from when the call is made), or may be an absolute timeout in I<epoch> seconds the same as would be used with L<cond_timedwait()> as would be used with L<cond_timedwait(VARIABLE, ABS_TIMEOUT)>. Fractional seconds (e.g., 2.5 seconds) are also supported (to the extent of the underlying implementation).

If C<TIMEOUT> is missing, C<undef>, or less than or equal to 0, then this call behaves the same as C<dequeue_nb>.
=item ->pending()

Returns the number of items still in the queue. Returns C<undef> if the queue has been ended (see below), and there are no more items in the queue.

=item ->end()

Declares that no more items will be added to the queue.

All threads blocking on C<dequeue()> calls will be unblocked with any remaining items in the queue and/or C<undef> being returned. Any subsequent calls to C<dequeue()> will behave like C<dequeue_nb()>.

Once ended, no more items may be placed in the queue.

=back

=head1 ADVANCED METHODS

The following methods can be used to manipulate items anywhere in a queue.

To prevent the contents of a queue from being modified by another thread while it is being examined and/or changed, L<lockthreads::shared/*lock VARIABLE”> the queue inside a local block:

{  
    lock($q); # Keep other threads from changing the queue's contents  
    my $item = $q->peek();  
    if ($item ...) {  
        ...  
    }  
}  
# Queue is now unlocked

=over

=item ->peek()

=item ->peek(INDEX)

Returns an item from the queue without dequeuing anything. Defaults to the head of queue (at index position 0) if no index is specified. Negative index values are supported as with L<arraysperldata/*Subscripts”> (i.e., -1 is the end of the queue, -2 is next to last, and so on).

If no items exists at the specified index (i.e., the queue is empty, or the index is beyond the number of items on the queue), then C<undef> is returned.
Remember, the returned item is not removed from the queue, so manipulating a C<peek>ed at reference affects the item on the queue.

=item ->insert(INDEX, LIST)

Adds the list of items to the queue at the specified index position (0 is the head of the list). Any existing items at and beyond that position are pushed back past the newly added items:

$q->enqueue(1, 2, 3, 4);
$q->insert(1, qw/foo bar/);
  # Queue now contains: 1, foo, bar, 2, 3, 4

Specifying an index position greater than the number of items in the queue just adds the list to the end.

Negative index positions are supported:

$q->enqueue(1, 2, 3, 4);
$q->insert(-2, qw/foo bar/);
  # Queue now contains: 1, 2, foo, bar, 3, 4

Specifying a negative index position greater than the number of items in the queue adds the list to the head of the queue.

=item ->extract()

=item ->extract(INDEX)

=item ->extract(INDEX, COUNT)

Removes and returns the specified number of items (defaults to 1) from the specified index position in the queue (0 is the head of the queue). When called with no arguments, C<extract> operates the same as C<dequeue_nb>.

This method is non-blocking, and will return only as many items as are available to fulfill the request:

$q->enqueue(1, 2, 3, 4);
my $Item  = $q->extract(2)     # Returns 3
  # Queue now contains: 1, 2, 4
my @items = $q->extract(1, 3)  # Returns (2, 4)
  # Queue now contains: 1

Specifying an index position greater than the number of items in the queue results in C<undef> or an empty list being returned.
$q->enqueue('foo');
my $nada = $q->extract(3)    # Returns undef
my @nada = $q->extract(1, 3) # Returns ()

Negative index positions are supported. Specifying a negative index position
greater than the number of items in the queue may return items from the head
of the queue (similar to C<dequeue_nb>) if the count overlaps the head of the
queue from the specified position (i.e. if queue size + index + count is
greater than zero):

$q->enqueue(qw/foo bar baz/);
my @nada = $q->extract(-6, 2);  # Returns () - (3+(-6)+2) <= 0
my @some = $q->extract(-6, 4);  # Returns (foo) - (3+(-6)+4) > 0
    # Queue now contains: bar, baz
my @rest = $q->extract(-3, 4);  # Returns (bar, baz) - (2+(-3)+4) > 0

=head1 NOTES

Queues created by L<Thread::Queue> can be used in both threaded and
non-threaded applications.

=head1 LIMITATIONS

Passing objects on queues may not work if the objects' classes do not support
sharing. See L<threads::shared/"BUGS AND LIMITATIONS"> for more.

Passing array/hash refs that contain objects may not work for Perl prior to
5.10.0.

=head1 SEE ALSO

Thread::Queue Discussion Forum on CPAN:
L<http://www.cpanforum.com/dist/Thread-Queue>
L<threads>, L<threads::shared>

Sample code in the I<examples> directory of this distribution on CPAN.

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* /opt/cola/permits/1103681973_1604395032.79/0/perl-Thread-Queue-3.02-2.el7-1.src.rpm-cosi-expand-archive-8U5YZHOL/Thread-Queue-3.02.tar.gz-cosi-expand-archive-2YTibQef/Thread-Queue-3.02/lib/Thread/Queue.pm
No license file was found, but licenses were detected in source scan.

---

abstract: 'Thread-safe queues'
author:
  - '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: Thread-Queue
no_index:
directory:
  - t
  - inc
requires:
  Scalar::Util: 1.1
  Test::More: 0.5
  Thread::Semaphore: 0
  threads::shared: 1.21
version: 3.02

Found in path(s):
* /opt/cola/permits/1103681973_1604395032.79/0/perl-Thread-Queue-3.02-2.el7-1.src.rpm-cosi-expand-archive-8U5YZHOL/Thread-Queue-3.02.tar.gz-cosi-expand-archive-2YTibQef/Thread-Queue-3.02/META.yml

1.15 activemq-console 5.15.9
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1.18 spring-framework 4.3.20

1.18.1 Available under license :
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1.19 cracklib 2.9.0-11.el7

1.19.1 Available under license:

----------
EFFECTIVE OCT 2008, LICENSE IS BEING CHANGED TO LGPL-2.1 (though not reflected in released code until Nov 2009 - slow release cycle...)
----------

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
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GPL-2 is not desirable at all ... this is why the LGPL-2.1 exists

=2Dmike

Re: [Cracklib-devel] cracklib license
From: Neulinger, Nathan <nneul@um...> - 2007-10-02 01:18
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-- Nathan

=20

------------------------------------------------------------
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 8:15 PM
> To: cracklib-devel@li...
> Subject: [Cracklib-devel] cracklib license
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> -mike

Re: [Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2007-10-02 01:33

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library to dictact to application writes what license they should be using.=20
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thus LGPL-2.1 enters to fill this void.
=20
=mike

Re: [Cracklib-devel] cracklib license
From: Neulinger, Nathan <nneul@um...> - 2007-10-02 01:46
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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.
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> [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

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> -mike

Re: [Cracklib-devel] cracklib license
From: Alec Muffett <alecm@cr...> - 2007-10-02 08:57
> Seems like the ideal thing here would be for you and the other distro
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> 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@gn...> - 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 timeframe.

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:
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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
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@...> - 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
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  
This package was debianized by Jean Pierre LeJacq
<jplejacq@quoininc.com> on Wed, 25 Feb 1998. Martin Pitt
<martin@piware.de> was the package's maintainer up to version
2.7.19-1. The current maintainer is Jan Dittberner
<jandd@debian.org>.

It was downloaded from http://sourceforge.net/projects/cracklib

Copyright (c) 1993 Alec Muffett <alecm@crypto.dircon.co.uk>,
Copyright (c) 2005-2009 Nathan Neulinger <nneul@umr.edu>,
Copyright (c) 2008-2009 Jan Dittberner <jan@dittberner.info>

Modifications: Added cronjob, configuration file, and man pages.

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Franklin St, Fifth Floor, Boston, MA 02110-1301, USA.

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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. Cracklib's license was changed from the GPL to the LGPL after consensus of all previous developers in October 2008, effective with release 2.8.15 released on 2009-11-19. See the email discussion below for both license changes.

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

-----------

EFFECTIVE OCT 2008, LICENSE IS BEING CHANGED TO LGPL-2.1 (though not reflected in released code until Nov 2009 - slow release cycle...)
-----------

Discussion thread from mailing list archive, with approval from everyone actively involved or holding original licensing rights included.

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From: Mike Frysinger <vapier@ge...> - 2007-10-02 01:16

Attachments: Message as HTML

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> 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.

> the original license (before moving to sourceforge -- aka, 2.7) was not GPL-2 ... it was a modified artistic license ... i didn't notice the license change until it was mentioned in the latest notes.

> unlike the old license, GPL-2 prevents people from using cracklib unless their applications are also GPL-2 which imo is just wrong. it isn't the place of a library to dictate to application writers what license they should be using.

> 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

> 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
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@gn...> - 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 timeframe.

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
GPG would permit applications which were released under version 3 of the
GPG 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 Fry sing er <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.
> >
> > 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.

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

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.
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

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Version 2.1, February 1999

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(For example, a function in a library to compute square roots has

table, the facility still operates, and performs whatever part of

a purpose that is entirely well-defined independent of the

its purpose remains meaningful.

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That's all there is to it!

1.20 libpcap 1.9.1
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 *
 * 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/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/transupp.c
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* jcinit.c
 *
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*
* 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/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jcinit.c
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/ *
* jsimd_x86_64.c
 *
* Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB
* Copyright 2009-2011 D. R. Commander
 *
* Based on the x86 SIMD extension for IJG JPEG library,
* Copyright (C) 1999-2006, MIYASAKA Masaru.
* For conditions of distribution and use, see copyright notice in jsimdext.inc
 *
* This file contains the interface between the "normal" portions
* of the library and the SIMD implementations when running on a
* x86_64 architecture.
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-
archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/simd/jsimd_x86_64.c
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 *
 * 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/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jdmarker.c
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 * jdinput.c
 *
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 *
 * 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 jdphuff.c.
 */

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jdinput.c
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/*
 * jpegint.h
 */
* Copyright (C) 1991-1997, Thomas G. Lane.
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*
* 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/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jpegint.h
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/*
* jsimd_arm.c
* *
* Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB
* Copyright 2009-2011 D. R. Commander
* *
* Based on the x86 SIMD extension for IJG JPEG library,
* Copyright (C) 1999-2006, MIYASAKA Masaru.
* For conditions of distribution and use, see copyright notice in jsimdext.inc
* *
* This file contains the interface between the "normal" portions
* of the library and the SIMD implementations when running on
* ARM architecture.
* *
* Based on the stubs from 'jsimd_none.c'
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/simd/jsimd_arm.c
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/*
* j dct.h
* *
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* *
* This include file contains common declarations for the forward and
* inverse DCT modules. These declarations are private to the DCT managers
* (j dctmgr.c, j dctmgr.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/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jdct.h
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; jcolsamp.inc - private declarations for color conversion & up/downsampling
;
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;
; Based on
; x86 SIMD extension for IJG JPEG library
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;
; [TAB8]

; pseudo-resisters to make ordering of RGB configurable
;
%if RGB_RED == 0
%define mmA mm0
%define mmB mm1
%define xmmA xmm0
%define xmmB xmm1
%elif RGB_GREEN == 0
%define mmA mm2
%define mmB mm3
%define xmmA xmm2
%define xmmB xmm3
%elif RGB_BLUE == 0
%define mmA mm4
%define mmB mm5
%define xmmA xmm4
%define xmmB xmm5
%else
%define mmA mm6
%define mmB mm7
%define xmmA xmm6
%define xmmB xmm7
%endif

%if RGB_RED == 1
%define mmC mm0
%define mmD mm1
%define xmmC xmm0
%define xmmD xmm1
%elif RGB_GREEN == 1
%define mmC mm2
%define mmD mm3
%define xmmC xmm2
%define xmmD xmm3
%elif RGB_BLUE == 1
%define mmC mm4
%define mmD mm5
%define xmmC xmm4
%define xmmD xmm5
%else
%define mmC mm6
%define mmD mm7
%define xmmC xmm6
%define xmmD xmm7
%endif

%if RGB_RED == 2
%define mmE mm0
%define mmF mm1
%define xmmE xmm0
%define xmmF xmm1
%elif RGB_GREEN == 2
%define mmE mm2
%define mmF mm3
%define xmmE xmm2
%define xmmF xmm3
%elif RGB_BLUE == 2
%define mmE mm4
%define mmF mm5
%define xmmE xmm4
%define xmmF xmm5
%else
%define mmE mm6
%define mmF mm7
%define xmmE xmm6
%define xmmF xmm7
%endif

%if RGB_RED == 3
%define mmG mm0
%define mmH mm1
%define xmmG xmm0
%define xmmH xmm1
%elif RGB_GREEN == 3
%define mmG mm2
%define mmH mm3
%define xmmG xmm2
%define xmmH xmm3
%elif RGB_BLUE == 3
%define mmG mm4
%define mmH mm5
%define xmmG xmm4
%define xmmH xmm5
#else
%define mmG mm6
%define mmH mm7
%define xmmG xmm6
%define xmmH xmm7
endif

; ----------------------------------------------------------------------------------------------

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-
archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-
1.2.90/simd/jcolsamp.inc
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/*
 * jdapistd.c
 *
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 *
 * 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/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-
archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jdapistd.c
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 */

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* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/java/org/libjpegturbo/turbojpeg/TJTransform.java
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jcstest.c
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jcstest.java
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jcstest.java.in
libjpeg-turbo is a JPEG image codec that uses SIMD instructions (MMX, SSE2, NEON) to accelerate baseline JPEG compression and decompression on x86, x86-64, and ARM systems. On such systems, libjpeg-turbo is generally 2-4x as fast as libjpeg, all else being equal. On other types of systems, libjpeg-turbo can still outperform libjpeg by a significant amount, by virtue of its highly-optimized Huffman coding routines. In many cases, the performance of libjpeg-turbo rivals that of proprietary high-speed JPEG codecs.

libjpeg-turbo implements both the traditional libjpeg API as well as the less powerful but more straightforward TurboJPEG API. libjpeg-turbo also features colorspace extensions that allow it to compress from/decompress to 32-bit and big-endian pixel buffers (RGBX, XBGR, etc.), as well as a full-featured Java interface.

libjpeg-turbo was originally based on libjpeg/SIMD, an MMX-accelerated derivative of libjpeg v6b developed by Miyasaka Masaru. The TigerVNC and VirtualGL projects made numerous enhancements to the codec in 2009, and in early 2010, libjpeg-turbo spun off into an independent project, with the goal of making high-speed JPEG compression/decompression technology available to a broader range of users and developers.
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*******************************************************************************
**     Using libjpeg-turbo
*******************************************************************************

libjpeg-turbo includes two APIs that can be used to compress and decompress JPEG images:

TurboJPEG API: This API provides an easy-to-use interface for compressing and decompressing JPEG images in memory. It also provides some functionality that would not be straightforward to achieve using the underlying libjpeg API, such as generating planar YUV images and performing multiple simultaneous lossless transforms on an image. The Java interface for libjpeg-turbo is written on top of the TurboJPEG API.

libjpeg API: This is the de facto industry-standard API for compressing and decompressing JPEG images. It is more difficult to use than the TurboJPEG API but also more powerful. The libjpeg API implementation in libjpeg-turbo is both API/ABI-compatible and mathematically compatible with libjpeg v6b. It can also optionally be configured to be API/ABI-compatible with libjpeg v7 and v8 (see below.)

There is no significant performance advantage to either API when both are used to perform similar operations.

------------------------------
Installation Directory
------------------------------

This document assumes that libjpeg-turbo will be installed in the default
directory /opt/libjpeg-turbo on Un*x and Mac systems and
c:\libjpeg-turbo[-gcc][64] on Windows systems. If your installation of
libjpeg-turbo resides in a different directory, then adjust the instructions
accordingly.

=================================
Replacing libjpeg at Run Time
=================================

Un*x
----

If a Un*x application is dynamically linked with libjpeg, then you can replace
libjpeg with libjpeg-turbo at run time by manipulating LD_LIBRARY_PATH.
For instance:

[Using libjpeg]
> time cjpeg <vgl_5674_0098.ppm >vgl_5674_0098.jpg
real 0m0.392s
user 0m0.074s
sys 0m0.020s

[Using libjpeg-turbo]
> export LD_LIBRARY_PATH=/opt/libjpeg-turbo/{lib}:$LD_LIBRARY_PATH
> time cjpeg <vgl_5674_0098.ppm >vgl_5674_0098.jpg
real 0m0.109s
user 0m0.029s
sys 0m0.010s

({lib} = lib32 or lib64, depending on whether you wish to use the 32-bit or the
64-bit version of libjpeg-turbo.)

System administrators can also replace the libjpeg symlinks in /usr/lib* with
links to the libjpeg-turbo dynamic library located in /opt/libjpeg-turbo/{lib}.
This will effectively accelerate every application that uses the libjpeg
dynamic library on the system.

Windows
-------

If a Windows application is dynamically linked with libjpeg, then you can
replace libjpeg with libjpeg-turbo at run time by backing up the application's
copy of jpeg62.dll, jpeg7.dll, or jpeg8.dll (assuming the application has its
own local copy of this library) and copying the corresponding DLL from
libjpeg-turbo into the application's install directory. The official
libjpeg-turbo binary packages only provide jpeg62.dll. If the application uses
jpeg7.dll or jpeg8.dll instead, then it will be necessary to build
libjpeg-turbo from source (see "libjpeg v7 and v8 API/ABI Emulation" below.)
The following information is specific to the official libjpeg-turbo binary packages for Visual C++:

-- jpeg62.dll requires the Visual C++ 2008 C run-time DLL (msvcr90.dll). msvcr90.dll ships with more recent versions of Windows, but users of older Windows releases can obtain it from the Visual C++ 2008 Redistributable Package, which is available as a free download from Microsoft's web site.

-- Features of the libjpeg API that require passing a C run-time structure, such as a file handle, from an application to the library will probably not work with jpeg62.dll, unless the application is also built to use the Visual C++ 2008 C run-time DLL. In particular, this affects jpeg_stdio_dest() and jpeg_stdio_src().

Mac
---

Mac applications typically embed their own copies of the libjpeg dylib inside the (hidden) application bundle, so it is not possible to globally replace libjpeg on OS X systems. Replacing the application's version of the libjpeg dylib would generally involve copying libjpeg.*.dylib from libjpeg-turbo into the appropriate place in the application bundle and using install_name_tool to repoint the libjpeg-turbo dylib to its new directory. This requires an advanced knowledge of OS X and would not survive an upgrade or a re-install of the application. Thus, it is not recommended for most users.

================================================================================
Using libjpeg-turbo in Your Own Programs
================================================================================

For the most part, libjpeg-turbo should work identically to libjpeg, so in most cases, an application can be built against libjpeg and then run against libjpeg-turbo. On Un*x systems and Cygwin, you can build against libjpeg-turbo instead of libjpeg by setting

CPATH=/opt/libjpeg-turbo/include
and
LIBRARY_PATH=/opt/libjpeg-turbo/{lib}

({lib} = lib32 or lib64, depending on whether you are building a 32-bit or a 64-bit application.)

If using MinGW, then set

CPATH=/c/libjpeg-turbo-gcc[64]/include
and
LIBRARY_PATH=/c/libjpeg-turbo-gcc[64]/lib
Building against libjpeg-turbo is useful, for instance, if you want to build an application that leverages the libjpeg-turbo colorspace extensions (see below.) On Un*x systems, you would still need to manipulate LD_LIBRARY_PATH or create appropriate symlinks to use libjpeg-turbo at run time. On such systems, you can pass -R /opt/libjpeg-turbo/{lib} to the linker to force the use of libjpeg-turbo at run time rather than libjpeg (also useful if you want to leverage the colorspace extensions), or you can link against the libjpeg-turbo static library.

To force a Un*x or MinGW application to link against the static version of libjpeg-turbo, you can use the following linker options:

```
-Wl,-Bstatic -ljpeg -Wl,-Bdynamic
```

On OS X, simply add /opt/libjpeg-turbo/lib/libjpeg.a to the linker command line.

To build Visual C++ applications using libjpeg-turbo, add c:\\libjpeg-turbo[64]\\include to the system or user INCLUDE environment variable and c:\\libjpeg-turbo[64]\\lib to the system or user LIB environment variable, and then link against either jpeg.lib (to use the DLL version of libjpeg-turbo) or jpeg-static.lib (to use the static version of libjpeg-turbo.)

=============
Colorspace Extensions
=============

libjpeg-turbo includes extensions that allow JPEG images to be compressed directly from (and decompressed directly to) buffers that use BGR, BGRX, RGBX, XBGR, and XRGB pixel ordering. This is implemented with ten new colorspace constants:

```
JCS_EXT_RGB   /* red/green/blue */
JCS_EXT_RGBX  /* red/green/blue/x */
JCS_EXT_BGR   /* blue/green/red */
JCS_EXT_BGRX  /* blue/green/red/x */
JCS_EXT_XBGR  /* x/blue/green/red */
JCS_EXT_XRGB  /* x/red/green/blue */
JCS_EXT_RGBA  /* red/green/blue/alpha */
JCS_EXT_BGRA  /* blue/green/red/alpha */
JCS_EXT_ABGR  /* alpha/blue/green/red */
JCS_EXT_ARGB  /* alpha/red/green/blue */
```

Setting cinfo.in_color_space (compression) or cinfo.out_color_space (decompression) to one of these values will cause libjpeg-turbo to read the red, green, and blue values from (or write them to) the appropriate position in the pixel when compressing from/decompressing to an RGB buffer.
Your application can check for the existence of these extensions at compile time with:

```c
#ifndef JCS_EXTENSIONS
```

At run time, attempting to use these extensions with a libjpeg implementation that does not support them will result in a "Bogus input colorspace" error. Applications can trap this error in order to test whether run-time support is available for the colorspace extensions.

When using the RGBA, BGRX, XBGR, and XRGB colorspaces during decompression, the X byte is undefined, and in order to ensure the best performance, libjpeg-turbo can set that byte to whatever value it wishes. If an application expects the X byte to be used as an alpha channel, then it should specify JCS_EXT_RGBA, JCS_EXT_BGRA, JCS_EXT_ABGR, or JCS_EXT_ARGB. When these colorspace constants are used, the X byte is guaranteed to be 0xFF, which is interpreted as opaque.

Your application can check for the existence of the alpha channel colorspace extensions at compile time with:

```c
#ifndef JCS_ALPHA_EXTENSIONS
```

jcstest.c, located in the libjpeg-turbo source tree, demonstrates how to check for the existence of the colorspace extensions at compile time and run time.

```
libjpeg v7 and v8 API/ABI Emulation

With libjpeg v7 and v8, new features were added that necessitated extending the compression and decompression structures. Unfortunately, due to the exposed nature of those structures, extending them also necessitated breaking backward ABI compatibility with previous libjpeg releases. Thus, programs that were built to use libjpeg v7 or v8 did not work with libjpeg-turbo, since it is based on the libjpeg v6b code base. Although libjpeg v7 and v8 are still not as widely used as v6b, enough programs (including a few Linux distros) made the switch that there was a demand to emulate the libjpeg v7 and v8 ABIs in libjpeg-turbo. It should be noted, however, that this feature was added primarily so that applications that had already been compiled to use libjpeg v7+ could take advantage of accelerated baseline JPEG encoding/decoding without recompiling. libjpeg-turbo does not claim to support all of the libjpeg v7+ features, nor to produce identical output to libjpeg v7+ in all cases (see below.)

By passing an argument of --with-jpeg7 or --with-jpeg8 to configure, or an argument of -DWITH_JPEG7=1 or -DWITH_JPEG8=1 to cmake, you can build a version of libjpeg-turbo that emulates the libjpeg v7 or v8 ABI, so that programs
that are built against libjpeg v7 or v8 can be run with libjpeg-turbo. The following section describes which libjpeg v7+ features are supported and which aren't.

Support for libjpeg v7 and v8 Features:
---------------------------------------

Fully supported:

-- libjpeg: IDCT scaling extensions in decompressor
   libjpeg-turbo supports IDCT scaling with scaling factors of 1/8, 1/4, 3/8, 1/2, 5/8, 3/4, 7/8, 9/8, 5/4, 11/8, 3/2, 13/8, 7/4, 15/8, and 2/1 (only 1/4 and 1/2 are SIMD-accelerated.)

-- libjpeg: arithmetic coding

-- libjpeg: In-memory source and destination managers
   See notes below.

-- cjpeg: Separate quality settings for luminance and chrominance
   Note that the libjpeg v7+ API was extended to accommodate this feature only for convenience purposes. It has always been possible to implement this feature with libjpeg v6b (see rdswitch.c for an example.)

-- cjpeg: 32-bit BMP support

-- cjpeg: -rgb option

-- jpegtran: lossless cropping

-- jpegtran: -perfect option

-- jpegtran: forcing width/height when performing lossless crop

-- rdjpgcom: -raw option

-- rdjpgcom: locale awareness

Not supported:

NOTE: As of this writing, extensive research has been conducted into the usefulness of DCT scaling as a means of data reduction and SmartScale as a means of quality improvement. The reader is invited to peruse the research at http://www.libjpeg-turbo.org/About/SmartScale and draw his/her own conclusions, but it is the general belief of our project that these features have not demonstrated sufficient usefulness to justify inclusion in libjpeg-turbo.
-- libjpeg: DCT scaling in compressor

cinfo.scale_num and cinfo.scale_denom are silently ignored.

There is no technical reason why DCT scaling could not be supported when
emulating the libjpeg v7+ API/ABI, but without the SmartScale extension (see
below), only scaling factors of 1/2, 8/15, 4/7, 8/13, 2/3, 8/11, 4/5, and
8/9 would be available, which is of limited usefulness.

-- libjpeg: SmartScale

cinfo.block_size is silently ignored.

SmartScale is an extension to the JPEG format that allows for DCT block
sizes other than 8x8. Providing support for this new format would be
feasible (particularly without full acceleration.) However, until/unless
the format becomes either an official industry standard or, at minimum, an
accepted solution in the community, we are hesitant to implement it, as
there is no sense of whether or how it might change in the future. It is
our belief that SmartScale has not demonstrated sufficient usefulness as a
lossless format nor as a means of quality enhancement, and thus, our primary
interest in providing this feature would be as a means of supporting
additional DCT scaling factors.

-- libjpeg: Fancy downsampling in compressor

cinfo.do_fancy_downsampling is silently ignored.

This requires the DCT scaling feature, which is not supported.

-- jpegtran: Scaling

This requires both the DCT scaling and SmartScale features, which are not
supported.

-- Lossless RGB JPEG files

This requires the SmartScale feature, which is not supported.

What About libjpeg v9?

libjpeg v9 introduced yet another field to the JPEG compression structure
(color_transform), thus making the ABI backward incompatible with that of
libjpeg v8. This new field was introduced solely for the purpose of supporting
lossless SmartScale encoding. Further, there was actually no reason to extend
the API in this manner, as the color transform could have just as easily been
activated by way of a new JPEG colorspace constant, thus preserving backward
ABI compatibility.

Our research (see link above) has shown that lossless SmartScale does not
generally accomplish anything that can’t already be accomplished better with
existing, standard lossless formats. Thus, at this time, it is our belief that
there is not sufficient technical justification for software to upgrade from
libjpeg v8 to libjpeg v9, and therefore, not sufficient technical justification
for us to emulate the libjpeg v9 ABI.
In-Memory Source/Destination Managers

By default, libjpeg-turbo 1.3 and later includes the jpeg_mem_src() and jpeg_mem_dest() functions, even when not emulating the libjpeg v8 API/ABI. Previously, it was necessary to build libjpeg-turbo from source with libjpeg v8 API/ABI emulation in order to use the in-memory source/destination managers, but several projects requested that those functions be included when emulating the libjpeg v6b API/ABI as well. This allows the use of those functions by programs that need them without breaking ABI compatibility for programs that don't, and it allows those functions to be provided in the "official" libjpeg-turbo binaries.

Those who are concerned about maintaining strict conformance with the libjpeg v6b or v7 API can pass an argument of --without-mem-srcdst to configure or an argument of -DWITH_MEM_SRCDST=0 to CMake prior to building libjpeg-turbo. This will restore the pre-1.3 behavior, in which jpeg_mem_src() and jpeg_mem_dest() are only included when emulating the libjpeg v8 API/ABI.

On Un*x systems, including the in-memory source/destination managers changes the dynamic library version from 62.0.0 to 62.1.0 if using libjpeg v6b API/ABI emulation and from 7.0.0 to 7.1.0 if using libjpeg v7 API/ABI emulation.

Note that, on most Un*x systems, the dynamic linker will not look for a function in a library until that function is actually used. Thus, if a program is built against libjpeg-turbo 1.3+ and uses jpeg_mem_src() or jpeg_mem_dest(), that program will not fail if run against an older version of libjpeg-turbo or against libjpeg v7- until the program actually tries to call jpeg_mem_src() or jpeg_mem_dest(). Such is not the case on Windows. If a program is built against the libjpeg-turbo 1.3+ DLL and uses jpeg_mem_src() or jpeg_mem_dest(), then it must use the libjpeg-turbo 1.3+ DLL at run time.

Both cjpeg and djpeg have been extended to allow testing the in-memory source/destination manager functions. See their respective man pages for more details.

*******************************************************************************
**     Mathematical Compatibility
*******************************************************************************

For the most part, libjpeg-turbo should produce identical output to libjpeg v6b. The one exception to this is when using the floating point DCT/IDCT, in which case the outputs of libjpeg v6b and libjpeg-turbo are not guaranteed to be identical (the accuracy of the floating point DCT/IDCT is constant when using libjpeg-turbo's SIMD extensions, but otherwise, it can depend heavily on...
the compiler and compiler settings.)

While libjpeg-turbo does emulate the libjpeg v8 API/ABI, under the hood, it is still using the same algorithms as libjpeg v6b, so there are several specific cases in which libjpeg-turbo cannot be expected to produce the same output as libjpeg v8:

-- When decompressing using scaling factors of 1/2 and 1/4, because libjpeg v8 implements those scaling algorithms a bit differently than libjpeg v6b does, and libjpeg-turbo's SIMD extensions are based on the libjpeg v6b behavior.

-- When using chrominance subsampling, because libjpeg v8 implements this with its DCT/IDCT scaling algorithms rather than with a separate downsampling/upsampling algorithm.

-- When using the floating point IDCT, for the reasons stated above and also because the floating point IDCT algorithm was modified in libjpeg v8a to improve accuracy.

-- When decompressing using a scaling factor > 1 and merged (AKA "non-fancy" or "non-smooth") chrominance upsampling, because libjpeg v8 does not support merged upsampling with scaling factors > 1.

*******************************************************************************
**     Performance Pitfalls
*******************************************************************************

===============
Restart Markers
===============

The optimized Huffman decoder in libjpeg-turbo does not handle restart markers in a way that makes the rest of the libjpeg infrastructure happy, so it is necessary to use the slow Huffman decoder when decompressing a JPEG image that has restart markers. This can cause the decompression performance to drop by as much as 20%, but the performance will still be much greater than that of libjpeg. Many consumer packages, such as PhotoShop, use restart markers when generating JPEG images, so images generated by those programs will experience this issue.

===============================================
Fast Integer Forward DCT at High Quality Levels
===============================================

The algorithm used by the SIMD-accelerated quantization function cannot produce correct results whenever the fast integer forward DCT is used along with a JPEG quality of 98-100. Thus, libjpeg-turbo must use the non-SIMD quantization
function in those cases. This causes performance to drop by as much as 40%.
It is therefore strongly advised that you use the slow integer forward DCT
whenever encoding images with a JPEG quality of 98 or higher.

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src-rpm-cosi-expand-
archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/README-
turbo.txt
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
 * jcsample.c for the downsampler's needs.
 */

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src-rpm-cosi-expand-
archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jcprepct.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.
 */
/*
 * 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.
 */

/*
 * djpeg.c
 *
 * This file was part of the Independent JPEG Group's software:
 * Copyright (C) 1991-1997, Thomas G. Lane.
 * Modifications:
 * Copyright (C) 2010-2011, 2013, D. R. Commander.
 * 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:
 *djpe[p [options] inputfile outputfile
 *djpe[p [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/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/djpeg.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/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jmemmgr.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/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jctrans.c
No license file was found, but licenses were detected in source scan.

; For conditions of distribution and use, see copyright notice in jsimdext.inc

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/simd/jsimdcpu.asm
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/simd/jimmmxred.asm
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/simd/jccolss2.asm
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/simd/jclrss2-64.asm
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/simd/jcgrlyss2-64.asm
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/simd/jdmerss2-64.asm
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/simd/jcsammx.asm
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/simd/jfsseflt.asm
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/simd/jfsseflt-64.asm
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/simd/jdmermmx.asm
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/simd/jdmermmx.asm
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/simd/jdmermmx.asm
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-
1.2.90/simd/jdsamss2.asm
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/simd/jcqsstte.asm
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/simd/jcgrass2.asm
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/simd/jdmrgss2.asm
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/simd/jcqnts2f64.asm
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/simd/jisseflt.asm
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/simd/jiss2red.asm
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/simd/jcclrmmx.asm
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/simd/jcqmnmxm.asm
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/simd/jcqnt3dn.asm
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/simd/jclrss2.asm
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/simd/jcgrass2-64.asm
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/simd/jdclrss2-64.asm
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/simd/jdcmnmxm.asm
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/simd/jcgrymmx.asm
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/simd/jiss2red-64.asm
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/simd/jcgrammx.asm
No license file was found, but licenses were detected in source scan.

/*
 * jdmerge.c
 * 
 * This file was part of the Independent JPEG Group's software:
 * Copyright (C) 1994-1996, Thomas G. Lane.
 * Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB
 * Modifications:
 * Copyright (C) 2009, 2011, D. R. Commander.
 * 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
 * \[R = Y + K1 \times Cr\]
 * \[G = Y + K2 \times Cb + K3 \times Cr\]
 * \[B = Y + K4 \times Cb\]
 * 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:
 * \[YCbCr \Rightarrow RGB\] 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/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jdmerge.c

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

/*
* jsimd_none.c
*
* Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB
* Copyright 2009-2011 D. R. Commander
*
* Based on the x86 SIMD extension for IJG JPEG library,
* Copyright (C) 1999-2006, MIYASAKA Masaru.
* For conditions of distribution and use, see copyright notice in jsimdx.inc
 *
* This file contains stubs for when there is no SIMD support available.
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jsimd_none.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 (cjjpeg, djjpeg, jpegtran).
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/cdjpeg.c

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

/*
* jdcoefct.c
*
* This file was part of the Independent JPEG Group's software:
* Copyright (C) 1994-1997, Thomas G. Lane.
* Modifications:
* Copyright (C) 2010, D. R. Commander.
* 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/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jdcoefct.c
No license file was found, but licenses were detected in source scan.

/*
* cjpeg.c
*
* This file was part of the Independent JPEG Group's software:
* Copyright (C) 1991-1998, Thomas G. Lane.
* Modifications:
* Copyright (C) 2010, 2013, D. R. Commander.
* 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.
*/
*/
* rdswitch.c
*
* This file was part of the Independent JPEG Group's software:
* Copyright (C) 1991-1996, Thomas G. Lane.
* Modifications:
* Copyright (C) 2010, D. R. Commander.
* 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
*/

*/
* jquant2.c
*
* This file was part of the Independent JPEG Group's software:
* Copyright (C) 1991-1996, Thomas G. Lane.
* Modifications:
* Copyright (C) 2009, D. R. Commander.
* 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/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jquant2.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/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jerror.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
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 without additional resampling:
NxN (N=1...16) 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/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jidctint.c
No license file was found, but licenses were detected in source scan.

*/
* transupp.h
*
* Copyright (C) 1997-2011, 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 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/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/transupp.h
No license file was found, but licenses were detected in source scan.

libjpeg-turbo note: This image was extracted from the 8-bit nightshot_iso_100 image. The original can be downloaded at the link below.

The New Image Compression Test Set - Jan 2008
http://www.imagecompression.info/test_images

The images historically used for compression research (lena, barbra, pepper etc...) have outlived their useful life and it's about time they become a part of history only. They are too small, come from data sources too old and are available in only 8-bit precision.

These images have been carefully selected to aid in image compression algorithm research and evaluation. These are photographic images chosen to come from a wide variety of sources and each one picked to stress different aspects of algorithms. Images are available in 8-bit, 16-bit and 16-bit linear variations, RGB and gray.

Images are available without any prohibitive copyright restrictions.

These images are (c) their respective owners. You are granted full redistribution and publication rights on these images provided:

1. The origin of the pictures must not be misrepresented; you must not claim that you took the original pictures. If you use, publish or redistribute them, an acknowledgment would be appreciated but is not required.
2. Altered versions must be plainly marked as such, and must not be misinterpreted as being the originals.
3. No payment is required for distribution this material, it must be available freely under the conditions stated here. That is, it is prohibited to sell the material.
4. This notice may not be removed or altered from any distribution.

Acknowledgments: A lot of people contributed a lot of time and effort in making this test set possible. Thanks to everyone who voiced their opinion in any of the discussions online. Thanks to Axel Becker, Thomas Richter and Niels Frhling for their extensive help in picking images, running all the various tests etc... Thanks to Pete Fraser, Tony Story, Wayne J. Cosshall, David Coffin, Bruce Lindbloom and raw.fotosite.pl for the images which make up this set.

Sachin Garg [India]
sachingarg@c10n.info
Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/testimages/nightshot_iso_100.txt

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.
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jccoefct.c

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

*/
*jversion.h
*
* This file was part of the Independent JPEG Group's software:
* Copyright (C) 1991-2012, Thomas G. Lane, Guido Vollbeding.
* Modifications:
* Copyright (C) 2010, 2012-2013, D. R. Commander.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains software version identification.
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jversion.h

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

*/
*jdmrgext.c
*
* This file was part of the Independent JPEG Group's software:
* Copyright (C) 1994-1996, Thomas G. Lane.
* Modifications:
* Copyright (C) 2011, D. R. Commander.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains code for merged upsampling/color conversion.
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jdmrgext.c
No license file was found, but licenses were detected in source scan.

/**
* jsimd_i386.c
*
* Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB
* Copyright 2009-2011 D. R. Commander
*
* Based on the x86 SIMD extension for IJG JPEG library,
* Copyright (C) 1999-2006, MIYASAKA Masaru.
* For conditions of distribution and use, see copyright notice in jsimdext.inc
*
* This file contains the interface between the "normal" portions
* of the library and the SIMD implementations when running on a
* 32-bit x86 architecture.
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/simd/jsimd_i386.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/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-
archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jfdctfst.c
No license file was found, but licenses were detected in source scan.

/*
* jcmaster.c
*
* This file was part of the Independent JPEG Group's software:
* Copyright (C) 1991-1997, Thomas G. Lane.
* Modified 2003-2010 by Guido Vollbeding.
* Modifications:
* Copyright (C) 2010, D. R. Commander.
* 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/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-
archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jcmaster.c
No license file was found, but licenses were detected in source scan.

1.2.90 (1.3 beta1)
==================
[1] Added support for additional scaling factors (3/8, 5/8, 3/4, 7/8, 9/8, 5/4,
11/8, 3/2, 13/8, 7/4, 15/8, and 2) when decompressing. Note that the IDCT will
not be SIMD-accelerated when using any of these new scaling factors.
[2] The TurboJPEG dynamic library is now versioned. It was not strictly necessary to do so, because TurboJPEG uses versioned symbols, and if a function changes in an ABI-incompatible way, that function is renamed and a legacy function is provided to maintain backward compatibility. However, certain Linux distro maintainers will blindly reject any library that is not versioned, so this was an attempt to make them happy.

[3] Extended the TurboJPEG Java API so that it can be used to compress a JPEG image from and decompress a JPEG image to an arbitrary position in a large image buffer.

[4] The tjDecompressToYUV() function now supports the TJFLAG_FASTDCT flag.

[5] The 32-bit supplementary package for amd64 Debian systems now provides symlinks in /usr/lib/i386-linux-gnu for the TurboJPEG libraries in /usr/lib32. This allows those libraries to be used on MultiArch-compatible systems (such as Ubuntu 11 and later) without setting the linker path.

[6] The TurboJPEG Java wrapper should now find the JNI library on Mac systems without having to pass -Djava.library.path=/usr/lib to java.

[7] TJBench has been ported to Java to provide a convenient way of validating the performance of the TurboJPEG Java API. It can be run with 'java -cp turbojpeg.jar TJBench'.

[8] cjpeg can now be used to generate JPEG files with the RGB colorspace (feature ported from jpeg-8d.)

[9] The width and height in the -crop argument passed to jpegtran can now be suffixed with "f" to indicate that, when the upper left corner of the cropping region is automatically moved to the nearest iMCU boundary, the bottom right corner should be moved by the same amount. In other words, this feature causes jpegtran to strictly honor the specified width/height rather than the specified bottom right corner (feature ported from jpeg-8d.)

[10] JPEG files using the RGB colorspace can now be decompressed into grayscale images (feature ported from jpeg-8d.)

[11] Fixed a regression caused by 1.2.1[7] whereby the build would fail with multiple "Mismatch in operand sizes" errors when attempting to build the x86 SIMD code with NASM 0.98.

[12] The in-memory source/destination managers (jpeg_mem_src() and jpeg_mem_dest()) are now included by default when building libjpeg-turbo with libjpeg v6b or v7 emulation, so that programs can take advantage of these functions without requiring the use of the backward-incompatible libjpeg v8 ABI. The "age number" of the libjpeg-turbo library on Un*x systems has been
incremented by 1 to reflect this. You can disable this feature with a configure/CMake switch in order to retain strict API/ABI compatibility with the libjpeg v6b or v7 API/ABI (or with previous versions of libjpeg-turbo.) See README-turbo.txt for more details.

[13] Added ARM v7s architecture to libjpeg.a and libturbojpeg.a in the official libjpeg-turbo binary package for OS X, so that those libraries can be used to build applications that leverage the faster CPUs in the iPhone 5 and iPad 4.

1.2.1
=====

[1] Creating or decoding a JPEG file that uses the RGB colorspace should now properly work when the input or output colorspace is one of the libjpeg-turbo colorspace extensions.

[2] When libjpeg-turbo was built without SIMD support and merged (non-fancy) upsampling was used along with an alpha-enabled colorspace during decompression, the unused byte of the decompressed pixels was not being set to 0xFF. This has been fixed. TJUnitTest has also been extended to test for the correct behavior of the colorspace extensions when merged upsampling is used.

[3] Fixed a bug whereby the libjpeg-turbo SSE2 SIMD code would not preserve the upper 64 bits of xmm6 and xmm7 on Win64 platforms, which violated the Win64 calling conventions.

[4] Fixed a regression caused by 1.2.0[6] whereby decompressing corrupt JPEG images (specifically, images in which the component count was erroneously set to a large value) would cause libjpeg-turbo to segfault.

[5] Worked around a severe performance issue with "Bobcat" (AMD Embedded APU) processors. The MASKMOVQ instruction, which was used by the libjpeg-turbo SSE2 SIMD code, is apparently implemented in microcode on AMD processors, and it is painfully slow on Bobcat processors in particular. Eliminating the use of this instruction improved performance by an order of magnitude on Bobcat processors and by a small amount (typically 5%) on AMD desktop processors.

[6] Added SIMD acceleration for performing 4:2:2 upsampling on NEON-capable ARM platforms. This speeds up the decompression of 4:2:2 JPEGs by 20-25% on such platforms.

[7] Fixed a regression caused by 1.2.0[2] whereby, on Linux/x86 platforms running the 32-bit SSE2 SIMD code in libjpeg-turbo, decompressing a 4:2:0 or 4:2:2 JPEG image into a 32-bit (RGBX, BGRX, etc.) buffer without using fancy upsampling would produce several incorrect columns of pixels at the right-hand side of the output image if each row in the output image was not evenly divisible by 16 bytes.
[8] Fixed an issue whereby attempting to build the SIMD extensions with Xcode 4.3 on OS X platforms would cause NASM to return numerous errors of the form "'%define' expects a macro identifier".

[9] Added flags to the TurboJPEG API that allow the caller to force the use of either the fast or the accurate DCT/IDCT algorithms in the underlying codec.

1.2.0
=====

[1] Fixed build issue with YASM on Unix systems (the libjpeg-turbo build system was not adding the current directory to the assembler include path, so YASM was not able to find jsimdconfig.inc.)

[2] Fixed out-of-bounds read in SSE2 SIMD code that occurred when decompressing a JPEG image to a bitmap buffer whose size was not a multiple of 16 bytes. This was more of an annoyance than an actual bug, since it did not cause any actual run-time problems, but the issue showed up when running libjpeg-turbo in valgrind. See http://crbug.com/72399 for more information.

[3] Added a compile-time macro (LIBJPEG_TURBO_VERSION) that can be used to check the version of libjpeg-turbo against which an application was compiled.

[4] Added new RGBA/BGRA/ABGR/ARGB colorspace extension constants (libjpeg API) and pixel formats (TurboJPEG API), which allow applications to specify that, when decompressing to a 4-component RGB buffer, the unused byte should be set to 0xFF so that it can be interpreted as an opaque alpha channel.

[5] Fixed regression issue whereby DevIL failed to build against libjpeg-turbo because libjpeg-turbo's distributed version of jconfig.h contained an INLINE macro, which conflicted with a similar macro in DevIL. This macro is used only internally when building libjpeg-turbo, so it was moved into config.h.

[6] libjpeg-turbo will now correctly decompress erroneous CMYK/YCCK JPEGs whose K component is assigned a component ID of 1 instead of 4. Although these files are in violation of the spec, other JPEG implementations handle them correctly.

[7] Added ARM v6 and ARM v7 architectures to libjpeg.a and libturbojpeg.a in the official libjpeg-turbo binary package for OS X, so that those libraries can be used to build both OS X and iOS applications.

1.1.90 (1.2 beta1)
================
[1] Added a Java wrapper for the TurboJPEG API. See java/README for more details.

[2] The TurboJPEG API can now be used to scale down images during decompression.

[3] Added SIMD routines for RGB-to-grayscale color conversion, which significantly improves the performance of grayscale JPEG compression from an RGB source image.

[4] Improved the performance of the C color conversion routines, which are used on platforms for which SIMD acceleration is not available.

[5] Added a function to the TurboJPEG API that performs lossless transforms. This function is implemented using the same back end as jpegtran, but it performs transcoding entirely in memory and allows multiple transforms and/or crop operations to be batched together, so the source coefficients only need to be read once. This is useful when generating image tiles from a single source JPEG.

[6] Added tests for the new TurboJPEG scaled decompression and lossless transform features to tjbench (the TurboJPEG benchmark, formerly called "jpgtest").

[7] Added support for 4:4:0 (transposed 4:2:2) subsampling in TurboJPEG, which was necessary in order for it to read 4:2:2 JPEG files that had been losslessly transposed or rotated 90 degrees.

[8] All legacy VirtualGL code has been re-factored, and this has allowed libjpeg-turbo, in its entirety, to be re-licensed under a BSD-style license.

[9] libjpeg-turbo can now be built with YASM.

[10] Added SIMD acceleration for ARM Linux and iOS platforms that support NEON instructions.

[11] Refactored the TurboJPEG C API and documented it using Doxygen. The TurboJPEG 1.2 API uses pixel formats to define the size and component order of the uncompressed source/destination images, and it includes a more efficient version of TJBUFSIZE() that computes a worst-case JPEG size based on the level of chrominance subsampling. The refactored implementation of the TurboJPEG API now uses the libjpeg memory source and destination managers, which allows the TurboJPEG compressor to grow the JPEG buffer as necessary.

[12] Eliminated errors in the output of jpegtran on Windows that occurred when the application was invoked using I/O redirection (jpegtran <input.jpg >output.jpg).
The inclusion of libjpeg v7 and v8 emulation as well as arithmetic coding support in libjpeg-turbo v1.1.0 introduced several new error constants in jerror.h, and these were mistakenly enabled for all emulation modes, causing the error enum in libjpeg-turbo to sometimes have different values than the same enum in libjpeg. This represents an ABI incompatibility, and it caused problems with rare applications that took specific action based on a particular error value. The fix was to include the new error constants conditionally based on whether libjpeg v7 or v8 emulation was enabled.

Fixed an issue whereby Windows applications that used libjpeg-turbo would fail to compile if the Windows system headers were included before jpeglib.h. This issue was caused by a conflict in the definition of the INT32 type.

Fixed 32-bit supplementary package for amd64 Debian systems, which was broken by enhancements to the packaging system in 1.1.

When decompressing a JPEG image using an output colorspace of JCS_EXT_RGBX, JCS_EXT_BGRX, JCS_EXT_XBGR, or JCS_EXT_XRGB, libjpeg-turbo will now set the unused byte to 0xFF, which allows applications to interpret that byte as an alpha channel (0xFF = opaque).

1.1.1
=====

Fixed a 1-pixel error in row 0, column 21 of the luminance plane generated by tjEncodeYUV().

libjpeg-turbo's accelerated Huffman decoder previously ignored unexpected markers found in the middle of the JPEG data stream during decompression. It will now hand off decoding of a particular block to the unaccelerated Huffman decoder if an unexpected marker is found, so that the unaccelerated Huffman decoder can generate an appropriate warning.

Older versions of MinGW64 prefixed symbol names with underscores by default, which differed from the behavior of 64-bit Visual C++. MinGW64 1.0 has adopted the behavior of 64-bit Visual C++ as the default, so to accommodate this, the libjpeg-turbo SIMD function names are no longer prefixed with an underscore when building with MinGW64. This means that, when building libjpeg-turbo with older versions of MinGW64, you will now have to add -fno-leading-underscore to the CFLAGS.

Fixed a regression bug in the NSIS script that caused the Windows installer build to fail when using the Visual Studio IDE.

Fixed a bug in jpeg_read_coefficients() whereby it would not initialize cinfo->image_width and cinfo->image_height if libjpeg v7 or v8 emulation was enabled. This specifically caused the jpegoptim program to fail if it was
linked against a version of libjpeg-turbo that was built with libjpeg v7 or v8 emulation.


[7] Eliminated errors in the output of cjpeg on Windows that occurred when the application was invoked using I/O redirection (cjpeg <inputfile >output.jpg).

1.1.0
=====

[1] The algorithm used by the SIMD quantization function cannot produce correct results when the JPEG quality is >= 98 and the fast integer forward DCT is used. Thus, the non-SIMD quantization function is now used for those cases, and libjpeg-turbo should now produce identical output to libjpeg v6b in all cases.

[2] Despite the above, the fast integer forward DCT still degrades somewhat for JPEG qualities greater than 95, so the TurboJPEG wrapper will now automatically use the slow integer forward DCT when generating JPEG images of quality 96 or greater. This reduces compression performance by as much as 15% for these high-quality images but is necessary to ensure that the images are perceptually lossless. It also ensures that the library can avoid the performance pitfall created by [1].

[3] Ported jpgtest.cxx to pure C to avoid the need for a C++ compiler.


[5] The Windows distribution packages now include the libjpeg run-time programs (cjpeg, etc.)

[6] All packages now include jpgtest.


[8] Added two new TurboJPEG API functions, tjEncodeYUV() and tjDecompressToYUV(), to replace the somewhat hackish TJ_YUV flag.

1.0.90 (1.1 beta1)
=================

[1] Added emulation of the libjpeg v7 and v8 APIs and ABIs. See README-turbo.txt for more details. This feature was sponsored by CamTrace SAS.

[3] Grayscale bitmaps can now be compressed from/decompressed to using the TurboJPEG API.

[4] jpgtest can now be used to test decompression performance with existing JPEG images.

[5] If the default install prefix (/opt/libjpeg-turbo) is used, then 'make install' now creates /opt/libjpeg-turbo/lib32 and /opt/libjpeg-turbo/lib64 sym links to duplicate the behavior of the binary packages.

[6] All symbols in the libjpeg-turbo dynamic library are now versioned, even when the library is built with libjpeg v6b emulation.

[7] Added arithmetic encoding and decoding support (can be disabled with configure or CMake options)

[8] Added a TJ_YUV flag to the TurboJPEG API, which causes both the compressor and decompressor to output planar YUV images.

[9] Added an extended version of tjDecompressHeader() to the TurboJPEG API, which allows the caller to determine the type of subsampling used in a JPEG image.

[10] Added further protections against invalid Huffman codes.

1.0.1
=====

[1] The Huffman decoder will now handle erroneous Huffman codes (for instance, from a corrupt JPEG image.) Previously, these would cause libjpeg-turbo to crash under certain circumstances.

[2] Fixed typo in SIMD dispatch routines that was causing 4:2:2 upsampling to be used instead of 4:2:0 when decompressing JPEG images using SSE2 code.

[3] configure script will now automatically determine whether the INCOMPLETE_TYPES_BROKEN macro should be defined.

1.0.0
=====

[1] 2983700: Further FreeBSD build tweaks (no longer necessary to specify
--host when configuring on a 64-bit system)

[2] Created symlinks in the Unix/Linux packages so that the TurboJPEG include file can always be found in /opt/libjpeg-turbo/include, the 32-bit static libraries can always be found in /opt/libjpeg-turbo/lib32, and the 64-bit static libraries can always be found in /opt/libjpeg-turbo/lib64.

[3] The Unix/Linux distribution packages now include the libjpeg run-time programs (cjpeg, etc.) and man pages.


[6] Include distribution package for Cygwin

[7] No longer necessary to specify --without-simd on non-x86 architectures, and unit tests now work on those architectures.

0.0.93
======

[1] 2982659, Fixed x86-64 build on FreeBSD systems

[2] 2988188: Added support for Windows 64-bit systems

0.0.91
======

[1] Added documentation to .deb packages

[2] 2968313: Fixed data corruption issues when decompressing large JPEG images and/or using buffered I/O with the libjpeg-turbo decompressor

0.0.90
======

Initial release

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/ChangeLog.txt
No license file was found, but licenses were detected in source scan.
# Copyright (C)2009-2011 D. R. Commander.  All Rights Reserved.
# Redistribution and use in source and binary forms, with or without
# modification, are permitted provided that the following conditions are met:
# - Redistributions of source code must retain the above copyright notice,
#   this list of conditions and the following disclaimer.
# - Redistributions in binary form must reproduce the above copyright notice,
#   this list of conditions and the following disclaimer in the documentation
# - Neither the name of the libjpeg-turbo Project nor the names of its
#   software without specific prior written permission.

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/release/uninstall.in
No license file was found, but licenses were detected in source scan.

TurboJPEG Java Wrapper
========================

The TurboJPEG shared library can optionally be built with a Java Native Interface wrapper, which allows the library to be loaded and used directly from Java applications. The Java front end for this is defined in several classes located under org/libjpegturbo/turbojpeg. The source code for these Java classes is licensed under a BSD-style license, so the files can be incorporated directly into both open source and proprietary projects without restriction. A Java archive (JAR) file containing these classes is also shipped with the "official" distribution packages of libjpeg-turbo.

TJExample.java, which should also be located in the same directory as this README file, demonstrates how to use the TurboJPEG Java API to compress and decompress JPEG images in memory.

Performance Pitfalls
----------------------

The TurboJPEG Java API defines several convenience methods that can allocate image buffers or instantiate classes to hold the result of compress, decompress, or transform operations. However, if you use these methods, then be mindful of the amount of new data you are creating on the heap. It may be necessary to manually invoke the garbage collector to prevent heap exhaustion or to prevent performance degradation. Background garbage collection can kill performance, particularly in a multi-threaded environment (Java pauses all threads when the GC runs.)

The TurboJPEG Java API always gives you the option of pre-allocating your own source and destination buffers, which allows you to re-use those buffers for compressing/decompressing multiple images. If the image sequence you are
compressing or decompressing consists of images of the same size, then
pre-allocating the buffers is recommended.

Installation Directory
------------------------

If the TurboJPEG JNI library (libturbojpeg.so, libturbojpeg.jnilib, or
turbojpeg.dll) is not installed under a system library directory or under a
directory specified in LD_LIBRARY_PATH (Unix) or PATH (Windows), then you will
need to pass an argument of -Djava.library.path={path_to_JNI_library} to java.

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-
archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/java/README
No license file was found, but licenses were detected in source scan.

/*
 * jdcolext.c
 *
 * This file was part of the Independent JPEG Group's software:
 * Copyright (C) 1991-1997, Thomas G. Lane.
 * Modifications:
 * Copyright (C) 2009, 2011, D. R. Commander.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains output colorspace conversion routines.
 */

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-
archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jdcolext.c
No license file was found, but licenses were detected in source scan.

License: BSD-style
libjpeg-turbo rivals that of proprietary high-speed JPEG codecs.

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-
archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/release/libjpeg-
turbo.spec.in
No license file was found, but licenses were detected in source scan.

Package: {__PKGNAME}
Version: {__VERSION}-{__BUILD}
Section: misc
Priority: optional
Architecture: {__ARCH}
Essential: no
Maintainer: The libjpeg-turbo Project [http://www.libjpeg-turbo.org]
Description: A SIMD-accelerated JPEG codec that provides both the libjpeg and TurboJPEG APIs
libjpeg-turbo is a JPEG image codec that uses SIMD instructions (MMX, SSE2, NEON) to accelerate baseline JPEG compression and decompression on x86, x86-64, and ARM systems. On such systems, libjpeg-turbo is generally 2-4x as fast as libjpeg, all else being equal. On other types of systems, libjpeg-turbo can still outperform libjpeg by a significant amount, by virtue of its highly-optimized Huffman coding routines. In many cases, the performance of libjpeg-turbo rivals that of proprietary high-speed JPEG codecs.

libjpeg-turbo implements both the traditional libjpeg API as well as the less powerful but more straightforward TurboJPEG API. libjpeg-turbo also features colorspace extensions that allow it to compress from/decompress to 32-bit and big-endian pixel buffers (RGBX, XBGR, etc.), as well as a full-featured Java interface.

libjpeg-turbo was originally based on libjpeg/SIMD, an MMX-accelerated derivative of libjpeg v6b developed by Miyasaka Masaru. The TigerVNC and VirtualGL projects made numerous enhancements to the codec in 2009, and in early 2010, libjpeg-turbo spun off into an independent project, with the goal of making high-speed JPEG compression/decompression technology available to a broader range of users and developers.

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/release/deb-control.tmpl
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/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jdtrans.c
No license file was found, but licenses were detected in source scan.
jsimdext.inc - common declarations

Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB
Copyright 2010 D. R. Commander

Based on
x86 SIMD extension for IJG JPEG library - version 1.02

Copyright (C) 1999-2006, MIYASAKA Masaru.

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appreciated but is not required.
2. Altered source versions must be plainly marked as such, and must not be
misrepresented as being the original software.
3. This notice may not be removed or altered from any source distribution.

[TAB8]

=================================================================
System-dependent configurations

%ifdef WIN32; ----(nasm -fwin32 -DWIN32 ...)--------
* Microsoft Visual C++
* MinGW (Minimalist GNU for Windows)
* CygWin
* LCC-Win32

-- segment definition --

%ifdef __YASM_VER__
%define SEG_TEXT .text align=16
%define SEG_CONST .rdata align=16
%else
%define SEG_TEXT .text align=16 public use32 class=CODE
%define SEG_CONST .rdata align=16 public use32 class=CONST
%endif
To make the code position-independent, append -DPIC to the commandline
;
%define GOT_SYMBOL __GLOBAL_OFFSET_TABLE__; BSD-style a.out supports PIC

%elifdef MACHO; ----(nasm -fmacho -DMACHO ...)--------
; * NeXTstep/OpenStep/Rhapsody/Darwin/MacOS X (Mach-O format)

; The generation of position-independent code (PIC) is the default on Darwin.
;
%define PIC
%define GOT_SYMBOL _MACHO_PIC__; Mach-O style code-relative addressing

%else; ----(Other case)----------------------

; -- segment definition --
;
%define SEG_TEXT .text ;align=16; nasm doesn't accept align=16. why?
%define SEG_CONST .rodata align=16

%endif; ---------------------------------------------

; ==========================================================================
; --------------------------------------------------------------------------
; Common types
;
%ifdef __x86_64__
%define POINTER                 qword           ; general pointer type
%define SIZEOF_POINTER          SIZEOF_QWORD    ; sizeof(POINTER)
%define POINTER_BIT             QWORD_BIT       ; sizeof(POINTER)*BYTE_BIT
%else
%define POINTER                 dword           ; general pointer type
%define SIZEOF_POINTER          SIZEOF_DWORD    ; sizeof(POINTER)
%define POINTER_BIT             DWORD_BIT       ; sizeof(POINTER)*BYTE_BIT
%endif

%define INT                     dword           ; signed integer type
%define SIZEOF_INT SIZEOF_DWORD ; sizeof(INT)
%define INT_BIT DWORD_BIT ; sizeof(INT)*BYTE_BIT

%define FP32 dword ; IEEE754 single
%define SIZEOF_FP32 SIZEOF_DWORD ; sizeof(FP32)
%define FP32_BIT DWORD_BIT ; sizeof(FP32)*BYTE_BIT

%define MMWORD qword ; int64 (MMX register)
%define SIZEOF_MMWORD SIZEOF_QWORD ; sizeof(MMWORD)
%define MMWORD_BIT QWORD_BIT ; sizeof(MMWORD)*BYTE_BIT

; NASM is buggy and doesn't properly handle operand sizes for SSE
; instructions, so for now we have to define XMMWORD as blank.
%define XMMWORD ; int128 (SSE register)
%define SIZEOF_XMMWORD SIZEOF_OWORD ; sizeof(XMMWORD)
%define XMMWORD_BIT OWORD_BIT ; sizeof(XMMWORD)*BYTE_BIT

; Similar hacks for when we load a dword or MMWORD into an xmm# register
%define XMM_DWORD
%define XMM_MMWORD

%define SIZEOF_BYTE 1 ; sizeof(BYTE)
%define SIZEOF_WORD 2 ; sizeof(WORD)
%define SIZEOF_DWORD 4 ; sizeof(DWORD)
%define SIZEOF_QWORD 8 ; sizeof(QWORD)
%define SIZEOF_OWORD 16 ; sizeof(OWORD)

%define BYTE_BIT 8 ; CHAR_BIT in C
%define WORD_BIT 16 ; sizeof(WORD)*BYTE_BIT
%define DWORD_BIT 32 ; sizeof(DWORD)*BYTE_BIT
%define QWORD_BIT 64 ; sizeof(QWORD)*BYTE_BIT
%define OWORD_BIT 128 ; sizeof(OWORD)*BYTE_BIT

; -----------------------------------------------------------------------------
;  External Symbol Name
;
%ifndef EXTN
%define EXTN(name) _ %+ name		; foo() -> _foo
%endif

; -----------------------------------------------------------------------------
; Macros for position-independent code (PIC) support
;
%ifndef GOT_SYMBOL
%define PIC
%endif

%ifndef PIC ; -------------------------------------------
At present, nasm doesn’t seem to support PIC generation for Mach-O. The PIC support code below is a little tricky.

SECTION SEG_CONST
const_base:

%define GOTOFF(got,sym) (got) + (sym) - const_base

%imacro get_GOT1
; NOTE: this macro destroys ecx register.
call%%geteip
add ecx, byte (%%ref - $)
jmpshort %%adjust
%%geteip:
move cx, POINTER [esp]
ret
%%%adjust:
pushebp
xore bp, bp = 0
%ifidni %1, ebx; (%1 == ebx)
; db 0x8D,0x9C + jmp near const_base =
; lea ebx, [ecx+ebp*8+(const_base-%%ref)] ; 8D,9C,E9,(offset32)
dbx8D,0x9C, 8D,9C
jmpnearth const_base; E9,(const_base-%%ref)
%%%ref:
%else ; (%1 != ebx)
; db 0x8D,0x8C + jmp near const_base =
; lea ecx, [ecx+ebp*8+(const_base-%%ref)] ; 8D,8C,E9,(offset32)
dbx8D,0x8C, 8D,8C
jmpnearth const_base; E9,(const_base-%%ref)
%%%ref:mov %1, ecx
%endif ; (%1 == ebx)
popebp
%endmacro

%else; GOT_SYMBOL != _MACHO_PIC_ -------------

%define GOTOFF(got,sym) (got) + (sym) wrt ..gotoff

%imacro get_GOT1
extern GOT_SYMBOL
call%%geteip
add %1, GOT_SYMBOL + $$ - $ wrt ..gotpc
jmpshort %%done
%geteip:
mov%1, POINTER [esp]
ret
%done:
%endmacro

%endif; GOT_SYMBOL == _MACHO_PIC_  

%imacro pushpic1.nolist
push%1
%endmacro
%imacro poppic1.nolist
pop%1
%endmacro
%imacro movpic2.nolist
mov%1,%2
%endmacro

%else; !PIC  

%define GOTOFF(got,sym) (sym)

%imacro get_GOT1.nolist
%endmacro
%imacro pushpic1.nolist
%endmacro
%imacro poppic1.nolist
%endmacro
%imacro movpic2.nolist
%endmacro

%endif; PIC  

; Align the next instruction on {2,4,8,16,...}-byte boundary.
; ".balign n,,m" in GNU as
;
%define MSKLE(x,y)  (~(((y) & 0xFFFF) - ((x) & 0xFFFF)) >> 16)
%define FILLB(b,n)  (($$-(b)) & ((n)-1))

%imacro alignx 1-2.nolist 0xFFFF
%%bs:	times MSKLE(FILLB(%%bs,%1),%2) & MSKLE(16,FILLB($,%1)) & FILLB($,%1) \
    db 0x90  
    ; nop
times MSKLE(FILLB(%%bs,%1),%2) & FILLB($,%1)/9 \
    db 0x8D,0x9C,0x23,0x00,0x00,0x00,0x00 ; lea ebx,[ebx+0x00000000]
times MSKLE(FILLB(%%bs,%1),%2) & FILLB($,%1)/7 \
    db 0x8D,0xAC,0x25,0x00,0x00,0x00,0x00 ; lea ebp,[ebp+0x00000000]
times MSKLE(FILLB(%%bs,%1),%2) & FILLB($,%1)/6 \
    db 0x8D,0xAD,0x00,0x00,0x00,0x00      ; lea ebp,[ebp+0x00000000]
times MSKLE(FILLB(%bs,%1),%2) & FILLB($,%1)/4 \n  db 0x8D,0x6C,0x25,0x00 ; lea ebp,[ebp+0x00]
times MSKLE(FILLB(%bs,%1),%2) & FILLB($,%1)/3 \n  db 0x8D,0x6D,0x00 ; lea ebp,[ebp+0x00]
times MSKLE(FILLB(%bs,%1),%2) & FILLB($,%1)/2 \n  db 0x8B,0xED ; mov ebp,ebp
  db 0x90 ; nop
%endmacro

; Align the next data on {2,4,8,16,...}-byte boundary.
;
%imacro alignz 1.nolist
align %1, db 0; filling zeros
%endmacro

%ifdef __x86_64__
%ifdef WIN64

%imacro collect_args 0
push r12
push r13
push r14
push r15
mov r10, rcx
mov r11, rdx
mov r12, r8
mov r13, r9
mov r14, [rax+48]
mov r15, [rax+56]
push rsi
push rdi
sub     rsp, SIZEOF_XMMWORD
movaps  XMMWORD [rsp], xmm6
sub     rsp, SIZEOF_XMMWORD
movaps  XMMWORD [rsp], xmm7
%endmacro

%imacro uncollect_args 0
movaps  xmm7, XMMWORD [rsp]
add     rsp, SIZEOF_XMMWORD
movaps  xmm6, XMMWORD [rsp]
add     rsp, SIZEOF_XMMWORD
pop rdi
pop rsi
pop r15
pop r14

%endif
%ifdef
%endif
found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/simd/jsimdext.inc

No license file was found, but licenses were detected in source scan.
* jccolext.c
* 
* This file was part of the Independent JPEG Group's software:
* Copyright (C) 1991-1996, Thomas G. Lane.
* Modifications:
* Copyright (C) 2009-2012, D. R. Commander.
* For conditions of distribution and use, see the accompanying README file.
* 
* This file contains input colorspace conversion routines.
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jccolext.c
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/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jidctflt.c
No license file was found, but licenses were detected in source scan.

/*
* jchuff.c
*
* This file was part of the Independent JPEG Group's software:
* Copyright (C) 1991-1997, Thomas G. Lane.
* Modifications:
* Copyright (C) 2009-2011, D. R. Commander.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains Huffman entropy encoding routines.
*
* 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.
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jchuff.c
No license file was found, but licenses were detected in source scan.

/*
* jdmaster.c
*
* This file was part of the Independent JPEG Group's software:
* Copyright (C) 1991-1997, Thomas G. Lane.
* Modified 2002-2009 by Guido Vollbeding.
* Modifications:
* Copyright (C) 2009-2011, D. R. Commander.
* 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/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jdmaster.c
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/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/rdgif.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/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jcmainct.c
No license file was found, but licenses were detected in source scan.

```
libjpeg-turbo is a JPEG image codec that uses SIMD instructions (MMX, SSE2, NEON) to accelerate baseline JPEG compression and decompression on x86, x86-64, and ARM systems. On such systems, libjpeg-turbo is generally 2-4x as fast as libjpeg, all else being equal. On other types of systems, libjpeg-turbo can still outperform libjpeg by a significant amount, by virtue of its highly-optimized Huffman coding routines. In many cases, the performance of libjpeg-turbo rivals that of proprietary high-speed JPEG codecs.

libjpeg-turbo implements both the traditional libjpeg API as well as the less powerful but more straightforward TurboJPEG API. libjpeg-turbo also features colorspace extensions that allow it to compress from/decompress to 32-bit and big-endian pixel buffers (RGBX, XBGR, etc.), as well as a full-featured Java interface.

libjpeg-turbo was originally based on libjpeg/SIMD, an MMX-accelerated derivative of libjpeg v6b developed by Miyasaka Masaru. The TigerVNC and VirtualGL projects made numerous enhancements to the codec in 2009, and in early 2010, libjpeg-turbo spun off into an independent project, with the goal of making high-speed JPEG compression/decompression technology available to a broader range of users and developers.
```

```
Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/release/ReadMe.rtf

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

/*
 * jpeglib.h
 *
 * This file was part of the Independent JPEG Group's software:
 * Copyright (C) 1991-1998, Thomas G. Lane.
 * Modified 2002-2009 by Guido Vollbeding.
 * Modifications:
 * Copyright (C) 2009-2011, 2013, D. R. Commander.
 * 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):
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/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jcomapi.c

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.
 */

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jerror.h

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 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/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/rdppm.c
No license file was found, but licenses were detected in source scan.

/*
 * jdhuff.h
 *
 * This file was part of the Independent JPEG Group's software:
 * Copyright (C) 1991-1997, Thomas G. Lane.
 * Modifications:
 * Copyright (C) 2010-2011, D. R. Commander.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains declarations for Huffman entropy decoding routines
 * that are shared between the sequential decoder (jdhuff.c) and the
 * progressive decoder (jdphuff.c). No other modules need to see these.
 */

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jdhuff.h
No license file was found, but licenses were detected in source scan.

/*
 * 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/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/cderror.h

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

/*
 * jdatadst-tj.c
 *
 * This file was part of the Independent JPEG Group's software:
 * Copyright (C) 1994-1996, Thomas G. Lane.
 * Modified 2009-2012 by Guido Vollbeding.
 * Modifications:
 * Copyright (C) 2011, D. R. Commander.
 * 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/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jdatadst-tj.c

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

/*
 * jquant1.c
 */
* This file was part of the Independent JPEG Group's software:
* Copyright (C) 1991-1996, Thomas G. Lane.
* Modifications:
* Copyright (C) 2009, D. R. Commander
* 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/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jquant1.c
No license file was found, but licenses were detected in source scan.

; For conditions of distribution and use, see copyright notice in jsimdext.inc
; for more details.

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/simd/jfmmxfst.asm
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/simd/jfss2fst.asm
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/simd/jiss2fst-64.asm
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/simd/jimmxfst.asm
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/simd/jiss2fst.asm
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/simd/jfss2fst-64.asm
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/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-
archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jcapistd.c
No license file was found, but licenses were detected in source scan.

/*
* jconfig.txt
*
* 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 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().
 */
/* #define void char */

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

/* 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.
 */
#undef CHAR_IS_UNSIGNED

/* 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>.
 */
#undef NEED_BSD_STRINGS

/* 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.
 */
#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.
 */
/* 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 int, on Windows systems. */
#endif _WIN32
#ifdef __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 /* PBMPPLUS 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 cjpe.c or djpe.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 cjpe/djpe.
*/
#undef PROGRESS_REPORT

#endif /* JPEG_CJPEG_DJPEG */

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jconfig.txt
No license file was found, but licenses were detected in source scan.

IJG JPEG LIBRARY: SYSTEM ARCHITECTURE

Copyright (C) 1991-2012, Thomas G. Lane, Guido Vollbeding.
This file was part of the Independent JPEG Group's software.
It was modified by The libjpe-g turbo Project to include only information
relevant to libjpeg-turbo.
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 downscaled 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:

\[
\text{input data} \rightarrow \text{processing step A} \rightarrow \text{buffer} \rightarrow \text{processing step B} \rightarrow \text{output data}
\]

\[
\begin{array}{c}
\text{------------------ controller ------------------} \\
\end{array}
\]

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 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
          |   |-- Postprocessing controller --|-- Colorspace conversion
          |       |   |-- Color quantization
          |       |   |-- Color precision reduction
```

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 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.

* Color space 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:

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" (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_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
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-large-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/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/structure.txt
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
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/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jidctfst.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
* cjpeg and djpeg. It is NOT used by the core JPEG library.
*/

Found in path(s):
*/opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/cdjpeg.h
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 djepg'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 PBPLUS 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/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/rdocolmap.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/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZn8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jmemsys.h
No license file was found, but licenses were detected in source scan.

*/
* jccolor.c
*
* This file was part of the Independent JPEG Group's software:
* Copyright (C) 1991-1996, Thomas G. Lane.
* Modifications:
* Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB
* Copyright (C) 2009-2012, D. R. Commander.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains input colorspace conversion routines.
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZn8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jccolor.c
No license file was found, but licenses were detected in source scan.

*/
* rdtarga.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 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/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-
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.
 */

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jfdctint.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/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jfdctint.c
archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jutils.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/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/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/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/wrtarga.c
No license file was found, but licenses were detected in source scan.

/*
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.

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 jcpamr.c for
parameter-setup helper routines, jcomapi.c for routines shared by
compression and decompression, and jctrans.c for the transcoding case.
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/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jcarith.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 jpeg/doc/cstyle.ms.tbl.Z, or cstyle.txt.Z for those without nroff/tbl).

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 JMETHDEF, defined as

```
#ifdef HAVE_PROTOTYPES
#define JMETHDEF(type,methodname,arglist)  type (*methodname) arglist
#else
#define JMETHDEF(type,methodname,arglist)  type (*methodname) ()
#endif
```

which is used like this:

```
struct function_pointers {
  JMETHDEF(void, init_entropy_encoder, (int somearg, jparms *jp));
  JMETHDEF(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/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/coderules.txt
No license file was found, but licenses were detected in source scan.

/* All rights reserved. */
* Permission is granted to anyone to use this software for any purpose,
* 1. The origin of this software must not be misrepresented; you must not
* 2. Altered source versions must be plainly marked as such, and must not be
* 3. This notice may not be removed or altered from any source distribution.

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/simd/jsimd_arm_neon.S

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

/*
 * jsimddct.h
 *
 * Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB
 * Based on the x86 SIMD extension for IJG JPEG library,
 * Copyright (C) 1999-2006, MIYASAKA Masaru.
 * For conditions of distribution and use, see copyright notice in jsimdext.inc
 *
 */

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jsimddct.h

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

/*
 * jdhuff.c
 *
 * This file was part of the Independent JPEG Group's software:
 * Copyright (C) 1991-1997, Thomas G. Lane.
 * Modifications:
 * Copyright (C) 2009-2011, D. R. Commander.
 * For conditions of distribution and use, see the accompanying README file.
 *
 */

/*
 * This file contains Huffman entropy decoding routines.
 *
 * 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/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jd1huf.c
No license file was found, but licenses were detected in source scan.

/*
 * jsimd.h
 *
 * Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB
 * Copyright 2011 D. R. Commander
 *
 * Based on the x86 SIMD extension for IJG JPEG library,
 * Copyright (C) 1999-2006, MIYASAKA Masaru.
 * For conditions of distribution and use, see copyright notice in jsimdext.inc
 *
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jsimd.h
No license file was found, but licenses were detected in source scan.

; For conditions of distribution and use, see copyright notice in jsimdext.inc
; more details.

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/simd/fmmxint.asm
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/simd/jfmmxint.asm
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/simd/jiss2int-64.asm
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/simd/jiss2int.asm
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/simd/jfss2int-64.asm
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/simd/jfss2int.asm
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/simd/jimmxint.asm
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/simd/jfss2int.asm
No license file was found, but licenses were detected in source scan.

/*
 * jcdctmgr.c
* 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/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jcdctmgr.c
No license file was found, but licenses were detected in source scan.

/*
 * 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/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jaricom.c
No license file was found, but licenses were detected in source scan.

/*
 * jchuff.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 declarations for Huffman entropy encoding routines
* that are shared between the sequential encoder (jchuff.c) and the
* progressive encoder (jcphuff.c). No other modules need to see these.
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-
archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jchuff.h
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Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-
archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/doc/html/search/search.js
No license file was found, but licenses were detected in source scan.

/*
* rdbmp.c
*
* This file was part of the Independent JPEG Group's software:
* Copyright (C) 1994-1996, Thomas G. Lane.
* Modified 2009-2010 by Guido Vollbeding.
* Modifications:
* Modified 2011 by Siarhei Siamashka.
* 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.
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-
archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/rdbmp.c
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Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/release/License.rtf

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

* 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/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt88/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbddd/libjpeg-turbo-1.2.90/jdpostct.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/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt88/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbddd/libjpeg-turbo-1.2.90/jinclude.h
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/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt88/libjpeg-turbo.spec
No license file was found, but licenses were detected in source scan.

/*
* jdcolor.c
*
* This file was part of the Independent JPEG Group's software:
* Copyright (C) 1991-1997, Thomas G. Lane.
* Modified 2011 by Guido Vollbeding.
* Modifications:
* Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB
* Copyright (C) 2009, 2011-2012, D. R. Commander.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains output colorspace conversion routines.
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jdcolor.c
No license file was found, but licenses were detected in source scan.

/*
 * jmemnobs.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/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jmemnobs.c
No license file was found, but licenses were detected in source scan.

/*
 * jcsample.c
 *
* Copyright (C) 1991-1996, Thomas G. Lane.
* Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB
* 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/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jcsample.c
No license file was found, but licenses were detected in source scan.

/*
* simd/jsimd.h
*
* Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB
* Copyright 2011 D. R. Commander
* Based on the x86 SIMD extension for IJG JPEG library,
* Copyright (C) 1999-2006, MIYASAKA Masaru.
* For conditions of distribution and use, see copyright notice in jsimdext.inc
*
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLznt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/simd/jsimd.h
No license file was found, but licenses were detected in source scan.

/ *
* jdmainct.c
 *
* This file was part of the Independent JPEG Group's software:
* Copyright (C) 1994-1996, Thomas G. Lane.
* Modifications:
* Copyright (C) 2010, D. R. Commander.
* 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/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLznt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/simd/jdmainct.c
No license file was found, but licenses were detected in source scan.

/ *
* jcparam.c
 *
* This file was part of the Independent JPEG Group's software:
* Copyright (C) 1991-1998, Thomas G. Lane.
* Modifications:
* Copyright (C) 2009-2011, D. R. Commander.
* 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/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jcparam.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/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jdari.c
No license file was found, but licenses were detected in source scan.

/*
 * jdatasrc.c
 *
 * This file was part of the Independent JPEG Group's software:
 * Copyright (C) 1994-1996, Thomas G. Lane.
 * Modifications:
 * Copyright (C) 2013, D. R. Commander.
 * 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
 * JOCETEs 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/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jdatasrc.c
No license file was found, but licenses were detected in source scan.

/*
 * jpegtran.c
 *
 * This file was part of the Independent JPEG Group's software:
 * Copyright (C) 1995-2010, Thomas G. Lane, Guido Vollbeding.
 * Modifications:
 * Copyright (C) 2010, D. R. Commander.
 * 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/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jpegtran.c

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

From c51b66dbac3d2adeccfcb42d25c8418e0d0c2a2 Mon Sep 17 00:00:00 2001
From: DRC <information@libjpeg-turbo.org>
Date: Fri, 20 Jul 2018 17:21:36 -0500
Subject: [PATCH] cjpeg: Fix OOB read caused by malformed 8-bit BMP

... in which one or more of the color indices is out of range for the number of palette entries.

Fix partly borrowed from jpeg-9c. This commit also adopts Guido's JERR_PPM_OUTOF RANGE enum value in lieu of our project-specific JERR_PPM_TOOLARGE enum value.

Fixes #258
---
cerror.h | 5 ++++-
rdbmp.c  | 7 ++++++-
rddpm.c  | 4 ++--
3 files changed, 11 insertions(+), 5 deletions(-)

diff --git a/cerror.h b/cerror.h
index d69b501..46b0f49 100644
--- a/cerror.h
+++ b/cerror.h
@@ -2,7 +2,7 @@
 * cerror.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.
* 
* @@ -48,6 +48,7 @@ JMESSAGE(JERR_BMP_COLORSPACE, "BMP output must be grayscale or RGB")
 JMESSAGE(JERR_BMP_COMPRESSED, "Sorry, compressed BMPs not yet supported")
 JMESSAGE(JERR_BMP_EMPTY, "Empty BMP image")
 JMESSAGE(JERR_BMP_NOT, "Not a BMP file - does not start with BM")
+JMESSAGE(JERR_BMP_OUTOFRANGE, "Numeric value out of range in BMP file")
 JMESSAGE(JTRC_BMP, "%ux%u 24-bit BMP image")
 JMESSAGE(JTRC_BMP_MAPPED, "%ux%u 8-bit colormapped BMP image")
 JMESSAGE(JTRC_BMP_OS2, "%ux%u 24-bit OS2 BMP image")
@@ -74,8 +75,8 @@ JMESSAGE(JWRN_GIF_NOMOREDATA, "Ran out of GIF bits")
 #ifdef PPM_SUPPORTED
 JMESSAGE(JERR_PPM_COLORSPACE, "PPM output must be grayscale or RGB")
 JMESSAGE(JERR_PPM_NONNUMERIC, "Nonnumeric data in PPM file")
- JMESSAGE(JERR_PPM_TOOLARGE, "Integer value too large in PPM file")
 JMESSAGE(JERR_PPM_NOT, "Not a PPM/PGM file")
+JMESSAGE(JERR_PPM_OUTOFRANGE, "Numeric value out of range in PPM file")
 JMESSAGE(JTRC_PGM, "%ux%u PGM image")
 JMESSAGE(JTRC_PGM_TEXT, "%ux%u text PGM image")
 JMESSAGE(JTRC_PPM, "%ux%u PPM image")
diff --git a/rdbmp.c b/rdbmp.c
index c053074..7a27cab 100644
--- a/rdbmp.c
+++ b/rdbmp.c
@@ -3,7 +3,7 @@
 *
 * This file was part of the Independent JPEG Group's software:
 * Copyright (C) 1994-1996, Thomas G. Lane.
 * Modifications:
 * Modified 2011 by Siarhei Siamashka.
 * For conditions of distribution and use, see the accompanying README file.
@@ -64,6 +64,7 @@ typedef struct _bmp_source_struct {
     JDIMENSION row_width;/* Physical width of scanlines in file */
     int bits_per_pixel;/* remembers 8- or 24-bit format */
     + int cmap_length; /* colormap length */
 } bmp_source_struct;

@@ -124,6 +125,7 @@ get_8bit_row (j_compress_ptr cinfo, cjpeg_source_ptr sinfo)
 {
     bmp_source_ptr source = (bmp_source_ptr) sinfo;

Open Source Used In Cisco VSM 7.14.2 380
register JSAMPARRAY colormap = source->colormap;
+ int cmaplen = source->cmap_length;
JSAMPARRAY image_ptr;
register int t;
register JSAMPROW inptr, outptr;
@@ -140,6 +142,8 @@ get_8bit_row (j_compress_ptr cinfo, cjpeg_source_ptr sinfo)
    outptr = source->pub.buffer[0];
  for (col = cinfo->image_width; col > 0; col--) {
    t = GETJSAMPLE(*inptr++);
+    if (t >= cmaplen)
+        ERREXIT(cinfo, JERR_BMP_OUTOF RANGE);
    *outptr++ = colormap[0][t]; /* can omit GETSAMPLE() safely */
    *outptr++ = colormap[1][t];
    *outptr++ = colormap[2][t];
@@ -399,6 +403,7 @@ start_input_bmp (j_compress_ptr cinfo, cjpeg_source_ptr sinfo)
          source->colormap = (*cinfo->mem->alloc_sarray)
            ((j_common_ptr) cinfo, JPOOL_IMAGE,
             (JDIMENSION) biClrUsed, (JDIMENSION) 3);
+    source->cmap_length = (int)biClrUsed;
    /* and read it from the file */
    read_colormap(source, (int) biClrUsed, mapentsize);
    /* account for size of colormap */
diff --git a/rdppm.c b/rdppm.c
index 5da1646..59da2bb 100644
--- a/rdppm.c
+++ b/rdppm.c
@@ -76,7 +76,7 @@ typedef struct {
    JSAMPROW pixrow;/* FAR pointer to same */
    size_t buffer_width;/* width of I/O buffer */
    JSAMPLE *rescale;/* => maxval-remapping array, or NULL */
- int maxval;
+ unsigned int maxval;
} ppm_source_struct;

typedef ppm_source_struct * ppm_source_ptr;
@@ -126,7 +126,7 @@ read_pbm_integer (j_compress_ptr cinfo, FILE * infile, int maxval)
}

if (val > maxval)
-  ERREXIT(cinfo, JERR_PPM_TOOLARGE);
+  ERREXIT(cinfo, JERR_PPM_OUTOF RANGE);

    return val;
}
--
2.17.2

Found in path(s):
/*
 * 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 its
 * 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):
No license file was found, but licenses were detected in source scan.
; jdct.inc - private declarations for forward & reverse DCT subsystems
;
; Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB
;
; Based on
; x86 SIMD extension for IJG JPEG library
; Copyright (C) 1999-2006, MIYASAKA Masaru.
; For conditions of distribution and use, see copyright notice in jsimdext.inc
;
; [TAB8]

; Each IDCT routine is responsible for range-limiting its results and
; converting them to unsigned form (0..MAXJSAMPLE). The raw outputs could
; be quite far out of range if the input data is corrupt, so a bulletproof
; range-limiting step is required. We use a mask-and-table-lookup method
; to do the combined operations quickly.
;
%define RANGE_MASK  (MAXJSAMPLE * 4 + 3)  ; 2 bits wider than legal samples

%define ROW(n,b,s)((b)+(n)*(s))
%define COL(n,b,s)((b)+(n)*(s)*DCTSIZE)

%define DWBLOCK(m,n,b,s)((b)+(m)*DCTSIZE*(s)+(n)*SIZEOF_DWORD)
%define MMBLOCK(m,n,b,s)((b)+(m)*DCTSIZE*(s)+(n)*SIZEOF_MMWORD)
%define XMMBLOCK(m,n,b,s)((b)+(m)*DCTSIZE*(s)+(n)*SIZEOF_XMMWORD)

; --------------------------------------------------------------------------

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-
archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/simd/jdct.inc
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/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-
archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/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/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jdapimin.c
No license file was found, but licenses were detected in source scan.

/*
 * jcphuff.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 Huffman entropy encoding routines for progressive JPEG.
 *
 * We do not support output suspension in this module, since the library
 * currently does not allow multiple-scan files to be written with output
 * suspension.
 */

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jcphuff.c
No license file was found, but licenses were detected in source scan.

/*
 * jdatadst.c
 */
* Redistribution and use in source and binary forms, with or without
  modification, are permitted provided that the following conditions are met:
*
* - Redistributions of source code must retain the above copyright notice,
  this list of conditions and the following disclaimer.
* - Redistributions in binary form must reproduce the above copyright notice,
  this list of conditions and the following disclaimer in the documentation
  and/or other materials provided with the distribution.
* - Neither the name of the libjpeg-turbo Project nor the names of its
  contributors may be used to endorse or promote products derived from this
  software without specific prior written permission.
*
* THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS",
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* SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
* INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
* CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
* ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
* POSSIBILITY OF SUCH DAMAGE.
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/tjbench.c
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/tjunittest.c
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/turbojpeg.c
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/turbojpeg.h
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/java/TJBench.java

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.

This file was part of the Independent JPEG Group's software:
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Modifications:
Copyright (C) 2010, D. R. Commander.
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

========
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 (e.g., 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 (e.g., 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
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Data formats
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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
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
(i.e., 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

```c
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

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:

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:

```c
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;
   ...

---

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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

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
- 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_colorspace() 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)
[libjpeg v7+ API/ABI emulation only]
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:
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.

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
don't 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".

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.

```c
int q_scale_factor[NUM_QUANT_TBLS]
LIBJPEG v7+ API/ABI emulation only
Linear quantization scaling factors (0-100, default 100)
for use with jpeg_default_qtables().
See rdswitch.c and cjpef.c for an example of usage.
Note that the q_scale_factor[] values use "linear" scales, so JPEG quality levels chosen by the user must be converted to these scales using jpeg_quality_scaling(). Here is an example that 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: Setting separate quality levels for chrominance and luminance is mainly only useful if chrominance subsampling is disabled. 2x2 chrominance subsampling (AKA "4:2:0") is the default, but you can explicitly disable subsampling as follows:

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.

LIBJPEG v7+ API/ABI emulation only
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
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: 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
- 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 colorspace. 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. Default is 1/1, or no scaling. Currently, the only supported scaling ratios are M/8 with all M from 1 to 16, or any reduced fraction thereof (such as 1/2, 3/4, etc.) (The library design allows for arbitrary
scaling ratios but this is not likely to be implemented any time soon.) 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, do careful upsampling of chroma components. If FALSE, a faster but sloppier method is used. Default is TRUE. The visual impact of the sloppier method is often very small.

**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_colors(). 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_colorsapce(), 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 => RGB
YCbCr => 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 uninvet 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 cerror.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
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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

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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
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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

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
while (! jpeg_input_complete(&cinfo))
and the start-output call should read
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_quant: Fixed color cube colormap
- enable_external_quant: Externally-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
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"):

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
datasyncram. 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, 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*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
- 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, downsampled_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 rescaling or 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*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 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, 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.
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 colors 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
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 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 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.

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* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/libjpeg.txt
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 * rdjpgcom.c
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 * 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.
 */

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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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 * jidctred.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 inverse-DCT routines that produce reduced-size output:
 * either 4x4, 2x2, or 1x1 pixels from an 8x8 DCT block.
 *
 * The implementation is based on the Loeffler, Ligtenberg and Moschytz (LL&M)
 * algorithm used in jidctint.c. We simply replace each 8-to-8 1-D IDCT step
 * with an 8-to-4 step that produces the four averages of two adjacent outputs
 * (or an 8-to-2 step producing two averages of four outputs, for 2x2 output).
 * These steps were derived by computing the corresponding values at the end
 * of the normal LL&M code, then simplifying as much as possible.
 *
 * 1x1 is trivial: just take the DC coefficient divided by 8.
 *
 * See jidctint.c for additional comments.
 */

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* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jidctred.c
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 *
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 *
 * 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 ordinarystdio 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.
 */
/*
 * jpegcomp.h
 *
 * Copyright (C) 2010, D. R. Commander
 * For conditions of distribution and use, see the accompanying README file.
 *
 * JPEG compatibility macros
 * These declarations are considered internal to the JPEG library; most
 * applications using the library shouldn't need to include this file.
 */

/*
 * jdphuff.c
 *
 * Copyright (C) 1995-1997, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
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 *
 * This file contains Huffman entropy decoding routines for progressive JPEG.
 *
 * 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.
 */
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 * For conditions of distribution and use, see the accompanying README file.
 * This file contains routines to write JPEG datastream markers.
 */

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 * jdsample.c
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 * Modifications:
 * Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB
 * Copyright (C) 2010, D. R. Commander.
 * 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_scaled_size / min_DCT_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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* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/java/org/libjpegturbo/turbojpeg/TJDecompressor.java
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/java/TJExample.java
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/java/TJUnitTest.java
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/java/TJUnitTest.java
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-
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```
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```

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1.26 procps 3.3.10 26.el7

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1.30 libogg 1.3.0 5.el7_1

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1.31 logback-classic 1.2.3

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1.32 jetty-alpn-client 9.2.26.v20180806

1.33 activemq-log4j-appender 5.15.9

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1.36 expression 3.1.1

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1.44 spdy-server 9.2.26.v20180806

1.45 jackson-core 2.10.0

1.45.1 Available under license:

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1.46 libsepol 2.5-8.el7

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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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distribute the source code, even though third parties are not
compelled to copy the source along with the object code.
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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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.

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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Why Software Should Be Free

by Richard Stallman

(Version of April 24, 1992)

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Introduction
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The existence of software inevitably raises the question of how decisions about its use should be made. For example, suppose one individual who has a copy of a program meets another who would like a copy. It is possible for them to copy the program; who should decide whether this is done? The individuals involved? Or another party, called the "owner"?

Software developers typically consider these questions on the assumption that the criterion for the answer is to maximize developers' profits. The political power of business has led to the government adoption of both this criterion and the answer proposed by the developers: that the program has an owner, typically a corporation associated with its development.

I would like to consider the same question using a different criterion: the prosperity and freedom of the public in general.

This answer cannot be decided by current law--the law should conform to ethics, not the other way around. Nor does current practice decide this question, although it may suggest possible answers. The only way to judge is to see who is helped and who is hurt by recognizing owners of software, why, and how much. In other words, we should perform a cost-benefit analysis on behalf of society as a whole, taking account of individual freedom as well as production of material goods.
In this essay, I will describe the effects of having owners, and show that the results are detrimental. My conclusion is that programmers have the duty to encourage others to share, redistribute, study and improve the software we write: in other words, to write "free" software.(1)

How Owners Justify Their Power

Those who benefit from the current system where programs are property offer two arguments in support of their claims to own programs: the emotional argument and the economic argument.

The emotional argument goes like this: "I put my sweat, my heart, my soul into this program. It comes from *me*, it's *mine*!"

This argument does not require serious refutation. The feeling of attachment is one that programmers can cultivate when it suits them; it is not inevitable. Consider, for example, how willingly the same programmers usually sign over all rights to a large corporation for a salary; the emotional attachment mysteriously vanishes. By contrast, consider the great artists and artisans of medieval times, who didn't even sign their names to their work. To them, the name of the artist was not important. What mattered was that the work was done--and the purpose it would serve. This view prevailed for hundreds of years.

The economic argument goes like this: "I want to get rich (usually described inaccurately as `making a living'), and if you don't allow me to get rich by programming, then I won't program. Everyone else is like me, so nobody will ever program. And then you'll be stuck with no programs at all!" This threat is usually veiled as friendly advice from the wise.

I'll explain later why this threat is a bluff. First I want to address an implicit assumption that is more visible in another formulation of the argument.

This formulation starts by comparing the social utility of a proprietary program with that of no program, and then concludes that proprietary software development is, on the whole, beneficial, and should be encouraged. The fallacy here is in comparing only two outcomes--proprietary software vs. no software--and assuming there are no other possibilities.

Given a system of intellectual property, software development is usually linked with the existence of an owner who controls the software's use. As long as this linkage exists, we are often faced with the choice of proprietary software or none. However, this linkage
is not inherent or inevitable; it is a consequence of the specific social/legal policy decision that we are questioning: the decision to have owners. To formulate the choice as between proprietary software vs. no software is begging the question.

The Argument against Having Owners
****************************************

The question at hand is, "Should development of software be linked with having owners to restrict the use of it?"

In order to decide this, we have to judge the effect on society of each of those two activities *independently*: the effect of developing the software (regardless of its terms of distribution), and the effect of restricting its use (assuming the software has been developed). If one of these activities is helpful and the other is harmful, we would be better off dropping the linkage and doing only the helpful one.

To put it another way, if restricting the distribution of a program already developed is harmful to society overall, then an ethical software developer will reject the option of doing so.

To determine the effect of restricting sharing, we need to compare the value to society of a restricted (i.e., proprietary) program with that of the same program, available to everyone. This means comparing two possible worlds.

This analysis also addresses the simple counterargument sometimes made that "the benefit to the neighbor of giving him or her a copy of a program is cancelled by the harm done to the owner." This counterargument assumes that the harm and the benefit are equal in magnitude. The analysis involves comparing these magnitudes, and shows that the benefit is much greater.

To elucidate this argument, let's apply it in another area: road construction.

It would be possible to fund the construction of all roads with tolls. This would entail having toll booths at all street corners. Such a system would provide a great incentive to improve roads. It would also have the virtue of causing the users of any given road to pay for that road. However, a toll booth is an artificial obstruction to smooth driving--artificial, because it is not a consequence of how roads or cars work.

Comparing free roads and toll roads by their usefulness, we find that (all else being equal) roads without toll booths are cheaper to construct, cheaper to run, safer, and more efficient to use.(2) In a
poor country, tolls may make the roads unavailable to many citizens. The roads without toll booths thus offer more benefit to society at less cost; they are preferable for society. Therefore, society should choose to fund roads in another way, not by means of toll booths. Use of roads, once built, should be free.

When the advocates of toll booths propose them as *merely* a way of raising funds, they distort the choice that is available. Toll booths do raise funds, but they do something else as well: in effect, they degrade the road. The toll road is not as good as the free road; giving us more or technically superior roads may not be an improvement if this means substituting toll roads for free roads.

Of course, the construction of a free road does cost money, which the public must somehow pay. However, this does not imply the inevitability of toll booths. We who must in either case pay will get more value for our money by buying a free road.

I am not saying that a toll road is worse than no road at all. That would be true if the toll were so great that hardly anyone used the road--but this is an unlikely policy for a toll collector. However, as long as the toll booths cause significant waste and inconvenience, it is better to raise the funds in a less obstructive fashion.

To apply the same argument to software development, I will now show that having "toll booths" for useful software programs costs society dearly: it makes the programs more expensive to construct, more expensive to distribute, and less satisfying and efficient to use. It will follow that program construction should be encouraged in some other way. Then I will go on to explain other methods of encouraging and (to the extent actually necessary) funding software development.

The Harm Done by Obstructing Software
=====================================  

Consider for a moment that a program has been developed, and any necessary payments for its development have been made; now society must choose either to make it proprietary or allow free sharing and use. Assume that the existence of the program and its availability is a desirable thing.(3)

Restrictions on the distribution and modification of the program cannot facilitate its use. They can only interfere. So the effect can only be negative. But how much? And what kind?

Three different levels of material harm come from such obstruction:

* Fewer people use the program.
* None of the users can adapt or fix the program.

* Other developers cannot learn from the program, or base new work on it.

Each level of material harm has a concomitant form of psychosocial harm. This refers to the effect that people's decisions have on their subsequent feelings, attitudes and predispositions. These changes in people's ways of thinking will then have a further effect on their relationships with their fellow citizens, and can have material consequences.

The three levels of material harm waste part of the value that the program could contribute, but they cannot reduce it to zero. If they waste nearly all the value of the program, then writing the program harms society by at most the effort that went into writing the program. Arguably a program that is profitable to sell must provide some net direct material benefit.

However, taking account of the concomitant psychosocial harm, there is no limit to the harm that proprietary software development can do.

Obstructing Use of Programs
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The first level of harm impedes the simple use of a program. A copy of a program has nearly zero marginal cost (and you can pay this cost by doing the work yourself), so in a free market, it would have nearly zero price. A license fee is a significant disincentive to use the program. If a widely-useful program is proprietary, far fewer people will use it.

It is easy to show that the total contribution of a program to society is reduced by assigning an owner to it. Each potential user of the program, faced with the need to pay to use it, may choose to pay, or may forego use of the program. When a user chooses to pay, this is a zero-sum transfer of wealth between two parties. But each time someone chooses to forego use of the program, this harms that person without benefiting anyone. The sum of negative numbers and zeros must be negative.

But this does not reduce the amount of work it takes to *develop* the program. As a result, the efficiency of the whole process, in delivered user satisfaction per hour of work, is reduced.

This reflects a crucial difference between copies of programs and cars, chairs, or sandwiches. There is no copying machine for material objects outside of science fiction. But programs are easy to copy;
anyone can produce as many copies as are wanted, with very little effort. This isn't true for material objects because matter is conserved: each new copy has to be built from raw materials in the same way that the first copy was built.

With material objects, a disincentive to use them makes sense, because fewer objects bought means less raw materials and work needed to make them. It's true that there is usually also a startup cost, a development cost, which is spread over the production run. But as long as the marginal cost of production is significant, adding a share of the development cost does not make a qualitative difference. And it does not require restrictions on the freedom of ordinary users.

However, imposing a price on something that would otherwise be free is a qualitative change. A centrally-imposed fee for software distribution becomes a powerful disincentive.

What's more, central production as now practiced is inefficient even as a means of delivering copies of software. This system involves enclosing physical disks or tapes in superfluous packaging, shipping large numbers of them around the world, and storing them for sale. This cost is presented as an expense of doing business; in truth, it is part of the waste caused by having owners.

Damaging Social Cohesion
========================

Suppose that both you and your neighbor would find it useful to run a certain program. In ethical concern for your neighbor, you should feel that proper handling of the situation will enable both of you to use it. A proposal to permit only one of you to use the program, while restraining the other, is divisive; neither you nor your neighbor should find it acceptable.

Signing a typical software license agreement means betraying your neighbor: "I promise to deprive my neighbor of this program so that I can have a copy for myself." People who make such choices feel internal psychological pressure to justify them, by downgrading the importance of helping one's neighbors--thus public spirit suffers. This is psychosocial harm associated with the material harm of discouraging use of the program.

Many users unconsciously recognize the wrong of refusing to share, so they decide to ignore the licenses and laws, and share programs anyway. But they often feel guilty about doing so. They know that they must break the laws in order to be good neighbors, but they still consider the laws authoritative, and they conclude that being a good neighbor (which they are) is naughty or shameful. That is also a kind of
psychosocial harm, but one can escape it by deciding that these licenses and laws have no moral force.

Programmers also suffer psychosocial harm knowing that many users will not be allowed to use their work. This leads to an attitude of cynicism or denial. A programmer may describe enthusiastically the work that he finds technically exciting; then when asked, “Will I be permitted to use it?”, his face falls, and he admits the answer is no. To avoid feeling discouraged, he either ignores this fact most of the time or adopts a cynical stance designed to minimize the importance of it.

Since the age of Reagan, the greatest scarcity in the United States is not technical innovation, but rather the willingness to work together for the public good. It makes no sense to encourage the former at the expense of the latter.

Obstructing Custom Adaptation of Programs
===========================================

The second level of material harm is the inability to adapt programs. The ease of modification of software is one of its great advantages over older technology. But most commercially available software isn't available for modification, even after you buy it. It's available for you to take it or leave it, as a black box--that is all.

A program that you can run consists of a series of numbers whose meaning is obscure. No one, not even a good programmer, can easily change the numbers to make the program do something different.

Programmers normally work with the "source code" for a program, which is written in a programming language such as Fortran or C. It uses names to designate the data being used and the parts of the program, and it represents operations with symbols such as `+' for addition and `-` for subtraction. It is designed to help programmers read and change programs. Here is an example; a program to calculate the distance between two points in a plane:

```c
float
distance (p0, p1)
    struct point p0, p1;
{
    float xdist = p1.x - p0.x;
    float ydist = p1.y - p0.y;
    return sqrt (xdist * xdist + ydist * ydist);
}
```

Here is the same program in executable form, on the computer I
Source code is useful (at least potentially) to every user of a program. But most users are not allowed to have copies of the source code. Usually the source code for a proprietary program is kept secret by the owner, lest anybody else learn something from it. Users receive only the files of incomprehensible numbers that the computer will execute. This means that only the program's owner can change the program.

A friend once told me of working as a programmer in a bank for about six months, writing a program similar to something that was commercially available. She believed that if she could have gotten source code for that commercially available program, it could easily have been adapted to their needs. The bank was willing to pay for this, but was not permitted to--the source code was a secret. So she had to do six months of make-work, work that counts in the GNP but was actually waste.

The MIT Artificial Intelligence lab (AI lab) received a graphics printer as a gift from Xerox around 1977. It was run by free software to which we added many convenient features. For example, the software would notify a user immediately on completion of a print job. Whenever the printer had trouble, such as a paper jam or running out of paper, the software would immediately notify all users who had print jobs queued. These features facilitated smooth operation.

Later Xerox gave the AI lab a newer, faster printer, one of the first laser printers. It was driven by proprietary software that ran in a separate dedicated computer, so we couldn't add any of our favorite features. We could arrange to send a notification when a print job was sent to the dedicated computer, but not when the job was actually printed (and the delay was usually considerable). There was no way to find out when the job was actually printed; you could only guess. And no one was informed when there was a paper jam, so the printer often went for an hour without being fixed.

The system programmers at the AI lab were capable of fixing such problems, probably as capable as the original authors of the program. Xerox was uninterested in fixing them, and chose to prevent us, so we were forced to accept the problems. They were never fixed.

Most good programmers have experienced this frustration. The bank
could afford to solve the problem by writing a new program from scratch, but a typical user, no matter how skilled, can only give up.

Giving up causes psychosocial harm—to the spirit of self-reliance. It is demoralizing to live in a house that you cannot rearrange to suit your needs. It leads to resignation and discouragement, which can spread to affect other aspects of one's life. People who feel this way are unhappy and do not do good work.

Imagine what it would be like if recipes were hoarded in the same fashion as software. You might say, "How do I change this recipe to take out the salt?", and the great chef would respond, "How dare you insult my recipe, the child of my brain and my palate, by trying to tamper with it? You don't have the judgment to change my recipe and make it work right!"

"But my doctor says I'm not supposed to eat salt! What can I do? Will you take out the salt for me?"

"I would be glad to do that; my fee is only $50,000." Since the owner has a monopoly on changes, the fee tends to be large. "However, right now I don't have time. I am busy with a commission to design a new recipe for ship's biscuit for the Navy Department. I might get around to you in about two years."

Obstructing Software Development
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The third level of material harm affects software development. Software development used to be an evolutionary process, where a person would take an existing program and rewrite parts of it for one new feature, and then another person would rewrite parts to add another feature; in some cases, this continued over a period of twenty years. Meanwhile, parts of the program would be "cannibalized" to form the beginnings of other programs.

The existence of owners prevents this kind of evolution, making it necessary to start from scratch when developing a program. It also prevents new practitioners from studying existing programs to learn useful techniques or even how large programs can be structured.

Owners also obstruct education. I have met bright students in computer science who have never seen the source code of a large program. They may be good at writing small programs, but they can't begin to learn the different skills of writing large ones if they can't see how others have done it.

In any intellectual field, one can reach greater heights by standing
on the shoulders of others. But that is no longer generally allowed in
the software field--you can only stand on the shoulders of the other
people *in your own company*.

The associated psychosocial harm affects the spirit of scientific
cooperation, which used to be so strong that scientists would cooperate
even when their countries were at war. In this spirit, Japanese
oceanographers abandoning their lab on an island in the Pacific
carefully preserved their work for the invading U.S. Marines, and left a
note asking them to take good care of it.

Conflict for profit has destroyed what international conflict spared.
Nowadays scientists in many fields don't publish enough in their papers
to enable others to replicate the experiment. They publish only enough
to let readers marvel at how much they were able to do. This is
certainly true in computer science, where the source code for the
programs reported on is usually secret.

It Does Not Matter How Sharing Is Restricted
============================================

I have been discussing the effects of preventing people from copying,
changing and building on a program. I have not specified how this
obstruction is carried out, because that doesn't affect the conclusion.
Whether it is done by copy protection, or copyright, or licenses, or
encryption, or ROM cards, or hardware serial numbers, if it *succeeds*
in preventing use, it does harm.

Users do consider some of these methods more obnoxious than others.
I suggest that the methods most hated are those that accomplish their
objective.

Software Should be Free
=======================

I have shown how ownership of a program--the power to restrict
changing or copying it--is obstructive. Its negative effects are
widespread and important. It follows that society shouldn't have
owners for programs.

Another way to understand this is that what society needs is free
software, and proprietary software is a poor substitute. Encouraging
the substitute is not a rational way to get what we need.

Vaclav Havel has advised us to "Work for something because it is
good, not just because it stands a chance to succeed." A business
making proprietary software stands a chance of success in its own narrow
terms, but it is not what is good for society.
Why People Will Develop Software
********************************

If we eliminate intellectual property as a means of encouraging people to develop software, at first less software will be developed, but that software will be more useful. It is not clear whether the overall delivered user satisfaction will be less; but if it is, or if we wish to increase it anyway, there are other ways to encourage development, just as there are ways besides toll booths to raise money for streets. Before I talk about how that can be done, first I want to question how much artificial encouragement is truly necessary.

Programming is Fun
==================

There are some lines of work that few will enter except for money; road construction, for example. There are other fields of study and art in which there is little chance to become rich, which people enter for their fascination or their perceived value to society. Examples include mathematical logic, classical music, and archaeology; and political organizing among working people. People compete, more sadly than bitterly, for the few funded positions available, none of which is funded very well. They may even pay for the chance to work in the field, if they can afford to.

Such a field can transform itself overnight if it begins to offer the possibility of getting rich. When one worker gets rich, others demand the same opportunity. Soon all may demand large sums of money for doing what they used to do for pleasure. When another couple of years go by, everyone connected with the field will deride the idea that work would be done in the field without large financial returns. They will advise social planners to ensure that these returns are possible, prescribing special privileges, powers and monopolies as necessary to do so.

This change happened in the field of computer programming in the past decade. Fifteen years ago, there were articles on "computer addiction": users were "onlining" and had hundred-dollar-a-week habits. It was generally understood that people frequently loved programming enough to break up their marriages. Today, it is generally understood that no one would program except for a high rate of pay. People have forgotten what they knew fifteen years ago.

When it is true at a given time that most people will work in a certain field only for high pay, it need not remain true. The dynamic of change can run in reverse, if society provides an impetus. If we take away the possibility of great wealth, then after a while, when the people have readjusted their attitudes, they will once again be eager
to work in the field for the joy of accomplishment.

The question, "How can we pay programmers?", becomes an easier question when we realize that it's not a matter of paying them a fortune. A mere living is easier to raise.

Funding Free Software
======================

Institutions that pay programmers do not have to be software houses. Many other institutions already exist which can do this.

Hardware manufacturers find it essential to support software development even if they cannot control the use of the software. In 1970, much of their software was free because they did not consider restricting it. Today, their increasing willingness to join consortia shows their realization that owning the software is not what is really important for them.

Universities conduct many programming projects. Today, they often sell the results, but in the 1970s, they did not. Is there any doubt that universities would develop free software if they were not allowed to sell software? These projects could be supported by the same government contracts and grants which now support proprietary software development.

It is common today for university researchers to get grants to develop a system, develop it nearly to the point of completion and call that "finished", and then start companies where they really finish the project and make it usable. Sometimes they declare the unfinished version "free"; if they are thoroughly corrupt, they instead get an exclusive license from the university. This is not a secret; it is openly admitted by everyone concerned. Yet if the researchers were not exposed to the temptation to do these things, they would still do their research.

Programmers writing free software can make their living by selling services related to the software. I have been hired to port the GNU C compiler to new hardware, and to make user-interface extensions to GNU Emacs. (I offer these improvements to the public once they are done.) I also teach classes for which I am paid.

I am not alone in working this way; there is now a successful, growing corporation which does no other kind of work. Several other companies also provide commercial support for the free software of the GNU system. This is the beginning of the independent software support industry-an industry that could become quite large if free software becomes prevalent. It provides users with an option generally
unavailable for proprietary software, except to the very wealthy.

New institutions such as the Free Software Foundation can also fund programmers. Most of the foundation's funds come from users buying tapes through the mail. The software on the tapes is free, which means that every user has the freedom to copy it and change it, but many nonetheless pay to get copies. (Recall that "free software" refers to freedom, not to price.) Some users order tapes who already have a copy, as a way of making a contribution they feel we deserve. The Foundation also receives sizable donations from computer manufacturers.

The Free Software Foundation is a charity, and its income is spent on hiring as many programmers as possible. If it had been set up as a business, distributing the same free software to the public for the same fee, it would now provide a very good living for its founder.

Because the Foundation is a charity, programmers often work for the Foundation for half of what they could make elsewhere. They do this because we are free of bureaucracy, and because they feel satisfaction in knowing that their work will not be obstructed from use. Most of all, they do it because programming is fun. In addition, volunteers have written many useful programs for us. (Recently even technical writers have begun to volunteer.)

This confirms that programming is among the most fascinating of all fields, along with music and art. We don't have to fear that no one will want to program.

What Do Users Owe to Developers?
================================

There is a good reason for users of software to feel a moral obligation to contribute to its support. Developers of free software are contributing to the users' activities, and it is both fair and in the long term interest of the users to give them funds to continue.

However, this does not apply to proprietary software developers, since obstructionism deserves a punishment rather than a reward.

We thus have a paradox: the developer of useful software is entitled to the support of the users, but any attempt to turn this moral obligation into a requirement destroys the basis for the obligation. A developer can either deserve a reward or demand it, but not both.

I believe that an ethical developer faced with this paradox must act so as to deserve the reward, but should also entreat the users for voluntary donations. Eventually the users will learn to support developers without coercion, just as they have learned to support
radio and television stations.

What Is Software Productivity?

If software were free, there would still be programmers, but perhaps fewer of them. Would this be bad for society?

Not necessarily. Today the advanced nations have fewer farmers than in 1900, but we do not think this is bad for society, because the few deliver more food to the consumers than the many used to do. We call this improved productivity. Free software would require far fewer programmers to satisfy the demand, because of increased software productivity at all levels:

* Wider use of each program that is developed.

* The ability to adapt existing programs for customization instead of starting from scratch.

* Better education of programmers.

* The elimination of duplicate development effort.

Those who object to cooperation because it would result in the employment of fewer programmers, are actually objecting to increased productivity. Yet these people usually accept the widely-held belief that the software industry needs increased productivity. How is this?

"Software productivity" can mean two different things: the overall productivity of all software development, or the productivity of individual projects. Overall productivity is what society would like to improve, and the most straightforward way to do this is to eliminate the artificial obstacles to cooperation which reduce it. But researchers who study the field of "software productivity" focus only on the second, limited, sense of the term, where improvement requires difficult technological advances.

Is Competition Inevitable?

Is it inevitable that people will try to compete, to surpass their rivals in society? Perhaps it is. But competition itself is not harmful; the harmful thing is *combat*.

There are many ways to compete. Competition can consist of trying to achieve ever more, to outdo what others have done. For example, in the old days, there was competition among programming wizards--competition
for who could make the computer do the most amazing thing, or for who could make the shortest or fastest program for a given task. This kind of competition can benefit everyone, *as long as* the spirit of good sportsmanship is maintained.

Constructive competition is enough competition to motivate people to great efforts. A number of people are competing to be the first to have visited all the countries on Earth; some even spend fortunes trying to do this. But they do not bribe ship captains to strand their rivals on desert islands. They are content to let the best person win.

Competition becomes combat when the competitors begin trying to impede each other instead of advancing themselves--when "Let the best person win" gives way to "Let me win, best or not." Proprietary software is harmful, not because it is a form of competition, but because it is a form of combat among the citizens of our society.

Competition in business is not necessarily combat. For example, when two grocery stores compete, their entire effort is to improve their own operations, not to sabotage the rival. But this does not demonstrate a special commitment to business ethics; rather, there is little scope for combat in this line of business short of physical violence. Not all areas of business share this characteristic. Withholding information that could help everyone advance is a form of combat.

Business ideology does not prepare people to resist the temptation to combat the competition. Some forms of combat have been made banned with anti-trust laws, truth in advertising laws, and so on, but rather than generalizing this to a principled rejection of combat in general, executives invent other forms of combat which are not specifically prohibited. Society's resources are squandered on the economic equivalent of factional civil war.

"Why Don't You Move to Russia?"
***********************

In the United States, any advocate of other than the most extreme form of laissez-faire selfishness has often heard this accusation. For example, it is leveled against the supporters of a national health care system, such as is found in all the other industrialized nations of the free world. It is leveled against the advocates of public support for the arts, also universal in advanced nations. The idea that citizens have any obligation to the public good is identified in America with Communism. But how similar are these ideas?

Communism as was practiced in the Soviet Union was a system of central control where all activity was regimented, supposedly for the common good, but actually for the sake of the members of the Communist
party. And where copying equipment was closely guarded to prevent illegal copying.

The American system of intellectual property exercises central control over distribution of a program, and guards copying equipment with automatic copying protection schemes to prevent illegal copying.

By contrast, I am working to build a system where people are free to decide their own actions; in particular, free to help their neighbors, and free to alter and improve the tools which they use in their daily lives. A system based on voluntary cooperation, and decentralization.

Thus, if we are to judge views by their resemblance to Russian Communism, it is the software owners who are the Communists.

The Question of Premises
************************

I make the assumption in this paper that a user of software is no less important than an author, or even an author's employer. In other words, their interests and needs have equal weight, when we decide which course of action is best.

This premise is not universally accepted. Many maintain that an author's employer is fundamentally more important than anyone else. They say, for example, that the purpose of having owners of software is to give the author's employer the advantage he deserves--regardless of how this may affect the public.

It is no use trying to prove or disprove these premises. Proof requires shared premises. So most of what I have to say is addressed only to those who share the premises I use, or at least are interested in what their consequences are. For those who believe that the owners are more important than everyone else, this paper is simply irrelevant.

But why would a large number of Americans accept a premise which elevates certain people in importance above everyone else? Partly because of the belief that this premise is part of the legal traditions of American society. Some people feel that doubting the premise means challenging the basis of society.

It is important for these people to know that this premise is not part of our legal tradition. It never has been.

Thus, the Constitution says that the purpose of copyright is to "promote the progress of science and the useful arts." The Supreme Court has elaborated on this, stating in 'Fox Film vs. Doyal' that "The sole interest of the United States and the primary object in conferring
the [copyright] monopoly lie in the general benefits derived by the public from the labors of authors.”

We are not required to agree with the Constitution or the Supreme Court. (At one time, they both condoned slavery.) So their positions do not disprove the owner supremacy premise. But I hope that the awareness that this is a radical right-wing assumption rather than a traditionally recognized one will weaken its appeal.

Conclusion
**********

We like to think that our society encourages helping your neighbor; but each time we reward someone for obstructionism, or admire them for the wealth they have gained in this way, we are sending the opposite message.

Software hoarding is one form of our general willingness to disregard the welfare of society for personal gain. We can trace this disregard from Ronald Reagan to Jim Bakker, from Ivan Boesky to Exxon, from failing banks to failing schools. We can measure it with the size of the homeless population and the prison population. The antisocial spirit feeds on itself, because the more we see that other people will not help us, the more it seems futile to help them. Thus society decays into a jungle.

If we don't want to live in a jungle, we must change our attitudes. We must start sending the message that a good citizen is one who cooperates when appropriate, not one who is successful at taking from others. I hope that the free software movement will contribute to this: at least in one area, we will replace the jungle with a more efficient system which encourages and runs on voluntary cooperation.

---------- Footnotes ----------

(1) The word "free" in "free software" refers to freedom, not to price; the price paid for a copy of a free program may be zero, or small, or (rarely) quite large.

(2) The issues of pollution and traffic congestion do not alter this conclusion. If we wish to make driving more expensive to discourage driving in general, it is disadvantageous to do this using toll booths, which contribute to both pollution and congestion. A tax on gasoline is much better. Likewise, a desire to enhance safety by limiting maximum speed is not relevant; a free access road enhances the average speed by avoiding stops and delays, for any given speed limit.

(3) One might regard a particular computer program as a harmful
thing that should not be available at all, like the Lotus Marketplace
database of personal information, which was withdrawn from sale due to
public disapproval. Most of what I say does not apply to this case,
but it makes little sense to argue for having an owner on the grounds
that the owner will make the program less available. The owner will
not make it *completely* unavailable, as one would wish in the case of
a program whose use is considered destructive.

;; copyright.el --- update the copyright notice in current buffer

;; Copyright (C) 1991-1995, 1998, 2001-2013 Free Software Foundation,
;; Inc.

;; Author: Daniel Pfeiffer <occitan@esperanto.org>
;; Keywords: maint, tools

;; This file is part of GNU Emacs.

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;; the Free Software Foundation, either version 3 of the License, or
;; (at your option) any later version.

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;; along with GNU Emacs. If not, see <http://www.gnu.org/licenses/>.

;; Commentary:

;; Allows updating the copyright year and above mentioned GPL version manually
;; or when saving a file.
;; Do (add-hook 'before-save-hook 'copyright-update), or use
;; M-x customize-variable RET before-save-hook RET.

;; Code:

(defvar copyright-limit 2000
  "Don't try to update copyright beyond this position unless interactive.
  A value of nil means to search whole buffer."
  :group 'copyright
  :type '(choice (integer :tag "Limit")
  :unbind)
(const :tag "No limit"))

(defvar copyright-at-end-flag nil
  "Non-nil means to search backwards from the end of the buffer for copyright.
  This is useful for ChangeLogs."
  :group 'copyright
  :type 'boolean
  :version "23.1")
;;;;;autoload(put 'copyright-at-end-flag 'safe-local-variable 'booleanp)

(defvar copyright-regexp
  "\(\|@copyright{}\|\[Cc\]opyright\s *:?\s *\(?:(C)\)?\|"
  \([Cc]opyright\s *:?\s *\)\s *\(?:[^0-9\n]*\s *\)?\|
  \([1-9]\([\-0-9, ';/*%#\n\t\]<\|\s>[\-0-9]+\)"
  "What your copyright notice looks like.
  The second \( \) construct must match the years."
  :group 'copyright
  :type 'regexp)

(defvar copyright-names-regexp ""
  "Regexp matching the names which correspond to the user.
  Only copyright lines where the name matches this regexp will be updated.
  This allows you to avoid adding years to a copyright notice belonging to
  someone else or to a group for which you do not work."
  :group 'copyright
  :type 'regexp)

;; The worst that can happen is a malicious regexp that overflows in
;; the regexp matcher, a minor nuisance. It's a pain to be always
;; prompted if you want to put this in a dir-locals.el.
;;;;;autoload(put 'copyright-names-regexp 'safe-local-variable 'stringp)

(defvar copyright-years-regexp
  "\([[:space:]]\*)\([1-9]\([\-0-9, ';/*%#\n\t\]<\|\s>[\-0-9]+\)"
  "Match additional copyright notice years.
  The second \( \) construct must match the years."
  :group 'copyright
  :type 'regexp)

;; See "Copyright Notices" in maintain.info.
;; TODO? 'end only for ranges at the end, other for all ranges.
;; Minimum limit on the size of a range?
(defvar copyright-year-ranges nil
  "Non-nil if individual consecutive years should be replaced with a range.
  If you use ranges, you should add an explanatory note in a README file.
The function `copyright-fix-years' respects this variable."
(defcustom copyright-query 'function
"If non-nil, ask user before changing copyright. When this is `function', only ask when called non-interactively."

:group 'copyright
:type '(choice (const :tag "Do not ask")
(const :tag "Ask unless interactive" function)
(other :tag "Ask" t)))

;; when modifying this, also modify the comment generated by autoinsert.el
(defconst copyright-current-gpl-version "3"
"String representing the current version of the GPL or nil.")

(defvar copyright-update t
"The function `copyright-update' sets this to nil after updating a buffer."

;; This is a defvar rather than a defconst, because the year can
;; change during the Emacs session.
(defvar copyright-current-year (format-time-string "%Y")
"String representing the current year.")

(defsubst copyright-limit () ; re-search-forward BOUND
(and copyright-limit
  (if copyright-at-end-flag
    (- (point) copyright-limit)
    (+ (point) copyright-limit))))

(defun copyright-re-search (regexp &optional bound noerror count)
"Re-search forward or backward depending on `copyright-at-end-flag'."
(if copyright-at-end-flag
    (re-search-backward regexp bound noerror count)
  (re-search-forward regexp bound noerror count)))

(defun copyright-start-point ()
"Return point-min or point-max, depending on `copyright-at-end-flag'."
(if copyright-at-end-flag
    (point-max)
  (point-min)))

(defun copyright-offset-too-large-p ()
"Return non-nil if point is too far from the edge of the buffer."
(when copyright-limit
  ;;...
(if copyright-at-end-flag
  (< (point) (- (point-max) copyright-limit))
  (> (point) (+ (point-min) copyright-limit))))

(defun copyright-find-copyright ()
  "Return non-nil if a copyright header suitable for updating is found.
  The header must match `copyright-regexp' and `copyright-names-regexp', if set.
  This function sets the match-data that `copyright-update-year' uses."
  (widen)
  (goto-char (copyright-start-point))
  (condition-case err
    ;; (1) Need the extra \( \) around copyright-regexp because we
    ;; goto (match-end 1) below. See note (2) below.
    (copyright-re-search (concat "\(\(? \)
     .*/\(?:@\(.*\)"
      copyright-names-regexp ")\)"
    )
    (copyright-limit)
    t)
    ;; In case the regexp is rejected. This is useful because
    ;; copyright-update is typically called from before-save-hook where
    ;; such an error is very inconvenient for the user.
    (error (message "Can't update copyright: %s" err) nil)))

(defun copyright-find-end ()
  "Possibly adjust the search performed by `copyright-find-copyright'.
  If the years continue onto multiple lines that are marked as comments,
  skips to the end of all the years."
  (while (save-excursion
    (and (eq (following-char) ?),)
    (progn (forward-char 1) t)
    (progn (skip-chars-forward " \") (eolp))
    (saving-match-data
      (forward-line 1)
      (and (looking-at comment-start-skip)
        (goto-char (match-end 0))))
    (looking-at-p copyright-years-regexp)))
  (forward-line 1)
  (re-search-forward comment-start-skip
    ;; (2) Need the extra \( \) so that the years are subexp 3, as
    ;; they are at note (1) above.
    (re-search-forward (format "\(\%s\)" copyright-years-regexp))))

(defun copyright-update-year (replace noquery)
  ;; This uses the match-data from copyright-find-copyright/end.
  (goto-char (match-end 1))
  (copyright-find-end)
  (setq copyright-current-year (format-time-string "%Y"))
Open Source Used In Cisco VSM 7.14.2
(when (or copyright-update interactivep)
  (let ((noquery (or (not copyright-query)
        (and (eq copyright-query 'function) interactivep))))
    (save-excursion
      (save-restriction
        ;; If names-regexp doesn't match, we should not mess with
        ;; the years _or_ the GPL version.
        ;; TODO there may be multiple copyrights we should update.
        (when (copyright-find-copyright)
          (copyright-update-year arg noquery)
          (goto-char (copyright-start-point))
          (and copyright-current-gpl-version
               ;; Match the GPL version comment in .el files.
               ;; This is sensitive to line-breaks. :( 
               (copyright-re-search
                "the Free Software Foundation\,[;\n\(\[0-9]+\)\(?: of the License\)\?, or\[;\n\(.*either version \(\[0-9]+\)\(?: of the License\)\?, or\[;\n\(.* \(\[0-9]+\)\?\)
\(.*any later version" (copyright-limit) t)
          ;; Don't update if the file is already using a more recent
          ;; version than the "current" one.
          (< (string-to-number (match-string 1))
               (string-to-number copyright-current-gpl-version))
          (or noquery
               (save-match-data
                (goto-char (match-end 1))
                (save-window-excursion
                 (switch-to-buffer (current-buffer))
                 (y-or-n-p (format "Replace GPL version %s with version %s? 
         (match-string-no-properties 1)
         copyright-current-gpl-version))))))
          (replace-match copyright-current-gpl-version t t nil 1))))
      (set (make-local-variable 'copyright-update) nil)))

;; If a write-file-hook returns non-nil, the file is presumed to be written.

;; FIXME heuristic should be within 50 years of present (cf calendar).
;;;###autoload
(defun copyright-fix-years ()
  "Convert 2 digit years to 4 digit years.
Uses heuristic: year >= 50 means 19xx, < 50 means 20xx.
If \`copyright-year-ranges\' (which see) is non-nil, also
independently replaces consecutive years with a range."
(interactive)
;; TODO there may be multiple copyrights we should fix.
(if (copyright-find-copyright)
    (let ((s (match-beginning 3))
      ;; Fix the copyright. 
      ;; (fix-year-string s) will modify the string s.
      ;; Set copyright-update to nil to prevent recopying.
      (if copyright-update
          (setq copyright-update nil)
          ;; If copyright-update is nil, we don't want to update
          ;; the years. 
          (setq copyright-update t))
        ;; If copyright-update is a non-vector, we don't want to update
        ;; the GPL version.
        (unless (vectorp copyright-update)
          ;; Copyright update is on.
          (setq copyright-update t)
          ;; Update the GPL version.
          (copyright-update-year arg noquery)
          (goto-char (copyright-start-point))
          (and copyright-current-gpl-version
               ;; Match the GPL version comment in .el files.
               ;; This is sensitive to line-breaks. :( 
               (copyright-re-search
                "the Free Software Foundation\,[;\n\(\[0-9]+\)\(?: of the License\)\?, or\[;\n\(.*either version \(\[0-9]+\)\(?: of the License\)\?, or\[;\n\(.*any later version" (copyright-limit) t)
          ;; Don't update if the file is already using a more recent
          ;; version than the "current" one.
          (< (string-to-number (match-string 1))
               (string-to-number copyright-current-gpl-version))
          (or noquery
               (save-match-data
                (goto-char (match-end 1))
                (save-window-excursion
                 (switch-to-buffer (current-buffer))
                 (y-or-n-p (format "Replace GPL version %s with version %s? 
         (match-string-no-properties 1)
         copyright-current-gpl-version))))))
          (replace-match copyright-current-gpl-version t t nil 1))))
      (set (make-local-variable 'copyright-update) nil))))

;; Freshly generated code
;; Generated by emacs-lisp-mode (v20230302.2231)
Open Source Used In Cisco VSM 7.14.2  732

;; Don't mess up whitespace after the years.
(skip-chars-backward " \t")

(save-restriction
  (narrow-to-region copystart (point))
  ;; This is clearly wrong, eg what about comment markers?
  ;; (let ((fill-prefix "   "))
  ;;   (fill-region (point-min) (point-max))))

(set-marker e nil)
(set-marker p nil))

;; Simply reformating the years is not copyrightable, so it does
;; not seem right to call this. Also it messes with ranges.
;;:(copyright-update nil t))
  (message "No copyright message"))

;;;###autoload
define-skeleton copyright
  "Insert a copyright by $ORGANIZATION notice at cursor."
  "Company: "
  comment-start
  "Copyright (C) " `(format-time-string "%Y") " by "
  (or (getenv "ORGANIZATION")
    str)
  ' (if (copyright-offset-too-large-p)
    (message "Copyright extends beyond `copyright-limit' and won't be updated automatically."))
  comment-end 
)

;;; TODO: recurse, exclude COPYRIGHT etc.
;;;###autoload
defun copyright-update-directory (directory match &optional fix)
  "Update copyright notice for all files in DIRECTORY matching MATCH. If FIX is non-nil, run `copyright-fix-years' instead."
  (interactive "DDirectory: 
MFile(s) matching (regexp): ")
  (dolist (file (directory-files directory t match nil))
    (unless (file-directory-p file)
      (message "Updating file `%s'" file)
    ;; FIXME we should not use find-file+save+kill.
      (let ((enable-local-variables :safe)
        (enable-local-eval nil))
        (find-file file))
      (let ((inhibit-read-only t))
        (if fix
          (copyright-fix-years)
          (copyright-update)))
        (save-buffer)
        (kill-buffer (current-buffer))))

  (provide 'copyright)
NOTES ON COPYRIGHTS AND LICENSES

Some terminology:

A "copyright notice" consists of one or a few lines of this format: "Copyright (C) 2006, 2007 Free Software Foundation, Inc."

A "license notice" is a statement of permissions, and is usually much longer, eg the text "GNU Emacs is free software...".

Summary for the impatient:

1. Don't add code to Emacs written by someone other than yourself without thinking about the legal aspect. Even if the changes are trivial, consider if they combine with previous changes by the same author to make a non-trivial total. If so, make sure they have an assignment. If adding a whole file adjust the copyright statements in the file.

2. When installing code written by someone else, the ChangeLog entry should be in the name of the author of the code, not the person who installs it. Also use bzr commit's "--author" option. Do not install any of your own changes in the same commit.

3. With images, add the legal info to a README file in the directory containing the image.

4. If you add a lot of text to a previously trivial file that had no legal notices, consider if you should add a copyright statement.

5. Please don't just add an FSF copyright without checking that is the right thing to do.

Every non-trivial file distributed through the Emacs repository should be self-explanatory in terms of copyright and license. This includes
files that are not distributed in Emacs releases (for example, the admin/ directory), because the whole Emacs repository is publicly available.

The definition of triviality is a little vague, but a rule of thumb is that any file with less than 15 lines of actual content is trivial. If a file is auto-generated (eg ldefs-boot.el) from another one in the repository, then it does not really matter about adding a copyright statement to the generated file.

Legal advice says that we could, if we wished, put a license notice even in trivial files, because copyright law in general looks at the overall work as a whole. It is not _necessary_ to do so, and rms prefers that we do not. This means one needs to take care that trivial files do not grow and become non-trivial without having a license added. NB consequently, if you add a lot of text to a small file, consider whether your changes have made the file worthy of a copyright notice, and if so, please add one.

It can be helpful to put a reminder comment at the start of a trivial file, eg: "add a license notice if this grows to > 10 lines of code".

The years in the copyright notice should be updated every year (see file "years" in this directory). The PDF versions of refcards etc should display copyright notices (an exception to the rule about "generated" files), but these can just display the latest year. The full list of years should be kept in comments in the source file. If these are distributed in the repository, check in a regenerated version when the tex files are updated.

Copyright changes should be propagated to any associated repositories (eg Gnus, MH-E), but I think in every case this happens automatically (?).

All README (and other such text files) that are non-trivial should contain copyright statements and GPL license notices, exactly as .el files do (see e.g. README in the top-level directory). Before 2007, we used a simple, short statement permitting copying and modification provided legal notices were retained. In Feb 2007 we switched to the standard GPL text, on legal advice. Some older text files in etc/ should, however, keep their current licenses (see below for list).

For image files, the copyright and license details should be recorded in a README file in each directory with images. (Legal advice says that we need not add notices to each image file individually, if they allow for that.). It is recommended to use the word "convert" to describe the automatic process of changing an image from one format to another (http://lists.gnu.org/archive/html/emacs-devel/2007-02/msg00618.html).
When installing a file with an "unusual" license (after checking first it is ok), put a copy of the copyright and license in the file (if possible. It's ok if this makes the file incompatible with its original format, if it can still be used by Emacs), or in a README file in the relevant directory.

The vast majority of files are copyright FSF and distributed under the GPL. A few files (mainly related to language and charset support) are copyright AIST alone, or both AIST and FSF. (Contact Kenichi Handa with questions about legal issues in such files.) In all these cases, the copyright years in each file should be updated each year.

There are some exceptions to the points in the previous paragraph, and these are listed below for reference, together with any files where the copyright needs to be updated in "unusual" ways.

If you find any other such cases, please consult to check they are ok, and note them in this file. This includes missing copyright notices, and "odd" copyright holders. In most cases, individual authors should not appear in copyright statements. Either the copyright has been assigned (check copyright.list) to the FSF (in which case the original author should be removed and the year(s) transferred to the FSF); or else it is possible the file should not be in Emacs at all (please report!).

Note that it seems painfully clear that one cannot rely on commit logs, or even ChangeLogs, for older changes. People often installed changes from others, without recording the true authorship.

[For reference, most of these points were established via email with rms, 2007/1, "Copyright years".

In March 2011, information on some files no longer included was removed. Consult older versions of this document if interested.]

lisp/version.el # emacs-copyright
lib-src/ebrowse.c # version
lib-src/etags.c # print_version
lib-src/rcs2log # Copyright
Cocoa/Emacs.base/Contents/Info.plist
Cocoa/Emacs.base/Contents/Resources/English.lproj/InfoPlist.strings
GNUstep/Emacs.base/Resources/Info-gnustep.plist
`set-copyright' in admin.el will do all the above.

aclocal.m4
configure
m4/*.m4
- copyright FSF, with unlimited permission to copy, distribute and modify

lib/Makefile.in
- copyright FSF, with MIT-like license

build-aux/install-sh
- this file is copyright MIT, which is OK. Leave the copyright alone.

/etc/refcards/*.tex
also update the \def\year macro for the latest year.

/etc/future-bug
- doesn't need a humorless disclaimer, because Karl Fogel says we
can consider it part of Emacs, and he has a blanker disclaimer for
Emacs changes. (email to rgm "[Emacs-commit] emacs/etc future-bug",
2007028)

/etc/letter.pbm,letter.xpm
- trivial, no notice needed.

/etc/FTP, ORDERS
- trivial (at time of writing), no license needed

/etc/GNU, INTERVIEW, LINUX-GNU, MOTIVATION, SERVICE, THE-GNU-PROJECT,
WHY-FREE
rms: "These are statements of opinion or testimony. Their licenses
should permit verbatim copying only. Please don't change the
licenses that they have. They are distributed with Emacs but they
are not part of Emacs."

/etc/HELLO
standard notices. Just a note that although the file itself is not
really copyrightable, in the wider context of it being part of
Emacs (and written by those with assignments), a standard notice is
fine.

/etc/MAILINGLISTS
rms: simple license is fine for this file

leim/CXTERM-DIC/4Corner.tit, ARRAY30.tit, CCDOSPY.tit, ECDICT.tit,
ETZY.tit, PY-b5.tit, Punct-b5.tit, Punct.tit, QJ-b5.tit, QJ.tit,
SW.tit, TONEPY.tit, ZOZY.tit
- leave the copyrights alone.

leim/MISC-DIC/CTLau-b5.html, CTLau.html, cangjie-table.b5, cangjie-table.cns,
pinyin.map, ziranma.cin
- leave the copyright alone.

Note that pinyin.map, ziranma.cin (and hence the generated
leim/quail/PY.el, ZIRANMA.el) are under GPLv1 or later.

leim/.SKK-DIC/SKK-JISYO.L
ja-dic/ja-dic.el
(the latter is auto-generated from the former). Leave the copyright alone.

lib-src/etags.c
Copyright information is duplicated in etc/ETAGS.README. Update that
file too.

Until 2007 etags.c was described as being copyright FSF and Ken Arnold.
After some investigation in Feb 2007, to the best of our
knowledge we believe that the original 1984 Emacs version was based
on the version in BSD4.2. See for example this 1985 post from Ken Arnold:
<http://groups.google.com/group/mod.sources/browse_thread/thread/ffe5ce55845a6d409a9>
I have received enough requests for the current source to ctags
to post it. Here is the latest version (what will go out with
4.3, modulo any bugs fixed during the beta period). It is the
4.2 ctags with recognition of yacc and lex tags added.

See also a 1984 version of ctags (no copyright) posted to net.sources:
<http://groups.google.com/group/net.sources/msg/a216c21be12a9b9d>
Version of etags.c in emacs-16.56 duplicates comment typos.

Accordingly, in Feb 2007 we added a 1984 copyright for the
University of California and a revised BSD license. The terms of
this require that the full license details be available in binary
distributions - hence the file etc/ETAGS.README. The fact that the
--version output just says "Copyright <year> FSF" is apparently OK
from a legal point of view.

lisp/cedet/semantic/imenu.el
  in which Eric Ludlam established that the remaining contributions
  from authors other than himself were negligible.

lisp/play/tetris.el
- no special rules about the copyright. We note here that we believe
  (2007/1) there is no problem with our use of the name "tetris" or
  the concept.
  rms: "My understanding is that game rules as such are not copyrightable."
rms: Legal advice is that we are ok and need not worry about this.
lisp/net/tramp.el
- there are also copyrights in the body of the file. Update these too.

lwlib/

rms (2007/02/17): "lwlib is not assigned to the FSF; we don't consider it part of Emacs. [...] Therefore non-FSF copyrights are ok in lwlib."

NB don't change the GPL version used for lwlib .c and .h files (see below).

FSF copyrights should only appear in files which have undergone non-trivial cumulative changes from the original versions in the Lucid Widget Library. NB this means that if you make non-trivial changes to a file with no FSF copyright, you should add one. Also, if changes are reverted to the extent that a file becomes basically the same as the original version, the FSF copyright should be removed.

In my (rgm) opinion, as of Feb 2007, all the non-trivial files differ significantly from the original versions, with the exception of lwlib-Xm.h. Most of the changes that were made to this file have subsequently been reverted. Therefore I removed the FSF copyright from this file (which is arguably too trivial to merit a notice anyway). I added FSF copyright to the following files which did not have them already: Makefile.in, lwlib-Xaw.c, lwlib-int.h (borderline), lwlib-utils.c (borderline), lwlib.c, lwlib.h.

Copyright years before the advent of public CVS in 2001 were those when I judged (from the CVS logs) that non-trivial amounts of change had taken place. I also adjusted the existing FSF years in xlwmenu.c, xlwmenu.h, and xlwmenuP.h on the same basis.

Note that until Feb 2007, the following files in lwlib were lacking notices: lwlib-int.h, lwlib.h, lwlib-Xaw.h, lwlib-Xlw.h, lwlib-utils.h.

The following files did not list a Lucid copyright: xlwmenu.h, xlwmenuP.h.

To the best of our knowledge, all the code files in lwlib were originally part of the Lucid Widget Library, even if they did not say so explicitly. For example, they were all present in Lucid Emacs 19.1 in 1992. The exceptions are the two Xaw files, which did not appear till Lucid Emacs 19.9 in 1994. The file lwlib-Xaw.h is too trivial to merit a copyright notice, but would presumably have the same one as lwlib-Xaw.c. We have been unable to find a true standalone version of LWL, if there was such a thing, to check definitively.

To clarify the situation, in Feb 2007 we added Lucid copyrights and
GPL notices to those files lacking either that were non-trivial, namely: lwlib-int.h, lwlib.h, xlwmenu.h, xlwmenuP.h. This represents our best understanding of the legal status of these files. We also clarified the notices in Makefile.in, which was originally the Makefile auto-generated from Lucid's Imakefile.

As of Feb 2007, the following files are considered too trivial for notices: lwlib-Xaw.h, lwlib-Xlw.h, lwlib-utils.h.

The version of lwlib/ first installed in Emacs seems to be the same as that used in Lucid Emacs 19.8 (released 6-sep-93); except the two Xaw files, which did not appear till Athena support was added in Lucid Emacs 19.9. In Lucid Emacs 19.1, all files were under GPLv1 or later, but by Lucid Emacs 19.8, lwlib.c and xlwmenu.c had been switched to v2 or later. These are the versions that were first installed in Emacs. So in GNU Emacs, these two files have been under v2 or later since 1994.

It seems that it was the intention of Lucid to use v1 or later (excepting the two files mentioned previously); so this is the license we have used when adding notices to code that did not have notices originally. Although we have the legal right to switch to v2 or later, rms prefers that we do not do so.

doc/*/doclicense.texi
- leave the copyright alone in this imported file.

doc/*/*.texi - All manuals should be under GFDL (but see below), and should include a copy of it, so that they can be distributed separately. faq.texi has a different license, for some reason no-one can remember.

doc/misc/mh-e.texi is dual-licensed (GPL and GFDL) per agreement with FSF (reconfirmed by rms Aug 25 2008). Discussion with licensing@fsf.org starting on Thu, 07 Aug 2003 with subject: "[gnu.org #58812] Changing license of MH-E manual"

msdos/is_exec.c, sigaction.c - these files are copyright DJ Delorie. Leave the copyrights alone. Leave the Eli Zaretskii copyright in is_exec.c alone. See the msdos/README file for the legal history of these files.

msdos/sed*.inp - These files are copyright FSF and distributed under an MIT-like license.
oldXMenu/
Keep the "copyright.h" method used by X11, rather than moving the licenses into the files. Note that the original X10.h did not use copyright.h, but had an explicit notice, which we retain.

If you make non-trivial changes to a file which does not have an FSF notice, add one and a GPL notice (as per Activate.c). If changes to a file are reverted such that it becomes essentially the same as the original X11 version, remove the FSF notice and GPL.

Only the files which differ significantly from the original X11 versions should have FSF copyright and GPL notices. At time of writing (Feb 2007), this is: Activate.c, Create.c, Internal.c. I (rgm) established this by diff'ing the current files against those in X11R1, and when I found significant differences looking in the ChangeLog for the years they originated (the CVS logs are truncated before 1999). I therefore removed the FSF notices (added in 200x) from the other files. There are some borderline cases IMO: AddSel.c, InsSel.c, XMakeAssoc.c, XMenu.h. For these I erred on the side of NOT adding FSF notices.

With regards to whether the files we have changed should have GPL added or not, rms says (2007-02-25, "oldXmenu issues"):

It does not make much difference, because oldXmenu is obsolete except for use in Emacs (and it is not normally used in Emacs any more either).

So, to make things simple, please put our changes under the GPL.

insque.c had no copyright notice until 2005. The version of insque.c added to Emacs 1992-01-27 is essentially the same as insremque.c added to glic three days later by Roland McGrath, with an FSF copyright and GPL, but no ChangeLog entry: <http://sources.redhat.com/cgi-bin/cvsweb.cgi/~checkout~/libc/misc/insremque.c?rev=1.1&cvsroot=glibc>
To the best of his recollection, McGrath (who has a copyright assignment) was the author of this file (email from roland at frob.com to rms, 2007-02-23, "Where did insque.c come from?"). The FSF copyright and GPL in this file are therefore correct as far as we understand it.

Imakefile had no legal info in Feb 2007, but was obviously based on the X11 version (which also had no explicit legal info). As it was unused, I removed it. It would have the same MIT copyright as Makefile.in does now.
src/gmalloc.c
- contains numerous copyrights from the GNU C library. Leave them alone.

src/ndir.h
- see comments below. This file is OK to be released with Emacs 22, but we may want to revisit it afterwards.

** Some notes on resolved issues, for historical information only

e/etc/TERMS
rms: "surely written either by me or by ESR. (If you can figure out which year, I can probably tell you which.) Either way, we have papers for it." It was present in Emacs-16.56 (15-jul-85). rms: "Then I conclude it was written by me."

lisp/term/README
- had no copyright notice till Feb 2007. ChangeLog.3 suggests it was written by Eric Raymond. When asked by rms on 14 Feb 2007 he said:

  I don't remember writing it, but it reads like my prose and I believe I wrote the feature(s) it's describing. So I would have been the likeliest person to write it.

  Odds are that I did, but I'm not certain.

  Accordingly, FSF copyright was added.

src/unexhp9k800.c
- briefly removed due to legal uncertainly Jan-Mar 2007. The relevant assignment is under "hp9k800" in copyright.list. File was written by John V. Morris at HP, and disclaimed by the author and HP. So this file is public domain.

lisp/progmodes/python.el
Dave Love alerted us to a potential legal problem:

On consultation with a lawyer, we found there was no problem:

** Issues that are "fixed" for the release of Emacs 22, but we may wish to revisit later in more detail
Open Source Used In Cisco VSM 7.14.2

admin/check-doc-strings
File says it's in the public domain, but that might not make it so.

/etc/eterm-color.ti

src/ndir.h
On legal advice from Matt Norwood, the following comment was added to these files in Feb/Mar 2007:

The code here is forced by the interface, and is not subject to copyright, constituting the only possible expression of the algorithm in this format.

With the addition of this notice, these files are OK for the upcoming Emacs-22 release. Post-release, we can revisit this issue and possibly add a list of all authors who have changed these files. (details in email from Matt Norwood to rms, 2007/02/03).

src/s/aix3-2.h, hpux8.h, hpux9.h, irix5-0.h, netbsd.h, usg5-4-2.h
[note some of these have since been merged into other files]
- all these (not obviously trivial) files were missing copyrights till Feb 2007, when FSF copyright was added. Matt Norwood advised:

For now, I think the best policy is to assume that we do have assignments from the authors (I recall many of these header files as having been originally written by rms), and to attach an FSF copyright with GPL notice. We can amend this if and when we complete the code audit. Any additions to these files by non-assigned authors are arguably "de minimis" contributions to Emacs: small changes or suggestions to a work that are subsumed in the main authors' copyright in the entire work.

Here is my (rgm) take on the details of the above files:

? irix5-0.h
I would say started non-trivial (1993, jimb, heavily based on irix4-0.h). A few borderline non-tiny changes since.

usg5-4-2.h
started non-trivial, but was heavily based on usg5-4.h, which was and is copyright FSF; only tiny changes since installed.

aix3-2.h, hpux8.h, hpux9.h, netbsd.h
started trivial, grown in tiny changes.

netbsd.h:
Roland McGrath said to rms (2007/02/17): "I don't really remember
anything about it. If I put it in without other comment, then probably 
I wrote it myself."

Someone might want to tweak the copyright years (for dates before 
2001) that I used in all these files.

Note: erring on the side of caution, I also added notices to some 
files I thought might be considered non-trivial (if one includes 
comment) in s/
  aix4-1.h hpux10.h irix6-5.h 
sol2.h

(everything with > 30 non-blank lines, which at least is _some_ kind of 
system)

*** These are copyright issues that need not be fixed until after 
  Emacs 22 is released (though if they can be fixed before, that is 
obviously good):

Is it OK to just `bzr remove' a file for legal reasons, or is 
something more drastic needed? A removed file is still available from 
the repository, if suitable options are applied. (This issue obviously 
does not affect a release).
  rms: will ask lawyer

Make sure that all files with non-standard copyrights or licenses are 
noted in this file.

REMOVED etc/gnu.xpm, nt/icons/emacs21.ico, nt/icons/sink.ico 
  - Restore if find legal info. emacs21.ico is not due to Davenport. 
    Geoff Voelker checked but could not find a record of where it came 
    from.

  etc/images 
    Image files from GTK, Gnome are under GPLv2 (no "or later"?). RMS will 
    contact image authors in regards to future switch to v3.

  etc/TUTORIAL* (translations) 
    switch to GPL (see english TUTORIAL)
    rms: "We can leave the TUTORIAL translations alone until their 
    maintainers update them."
Can adapt short license text from end of GPL translations at:
http://www.gnu.org/licenses/translations.html
Only a few sentences around the license notice need changing from
previous version.
Done: TUTORIAL.eo

*** These are copyright issues still to be addressed:

None known.

** NOTES ON RELICENSING TO GPL3

The EMACS_22_BASE branch was changed to GPLv3 (or later) 2007/07/25.

Some notes:

1. There are some files in the Emacs tree which are not part of Emacs (eg
those included from Gnulib). These are all copyright FSF and (at time
of writing) GPL >= 2. rms says may as well leave the licenses of these
alone (may import them from Gnulib again). These are:

   Gnulib:
   build-aux/compile
   build-aux/config.guess
   build-aux/config.sub
   build-aux/depcomp
   build-aux/missing
   build-aux/move-if-change
   build-aux/snippet/_Noreturn.h
   build-aux/snippet/argnonnull.h
   build-aux/snippet/c++defs.h
   build-aux/snippet/warn-on-use.h
   doc/man/texinfo.tex
   lib/*.c
   lib/gnulib.mk
   src/gmalloc.c
   src/termcap.c
   src/tparam.c

   Note _not_ included in the above are src/regex.{c,h} (rms: "That
forked version is only in Emacs, so definitely relicense that."), and
oldXMenu/insque.c (rms: "We wrote that specifically for Emacs, so
definitely relicense that.").

2. The files that are copyright FSF and AIST, or AIST alone, should be
and were updated, ditto the oldXMenu files with FSF copyright, and msdos/is_exec.c and sigaction.c.

3. lwlib/

Files originally in Lucid Widget Library were left alone (excludes ChangeLog, etc), ie remain under GPL v1 or later, or v2 or later. (rms: "We may as well leave this alone, since we are never going to change it much.")

4. There are some files where the FSF holds no copyright. These were left alone:

   leim/MISC-DIC/CTLau-b5.html >= v2
   leim/MISC-DIC/CTLau.html   >= v2
   (above included in lisp/international/titdic-cnv.el)
   leim/MISC-DIC/pinyin.map   >= v1
   leim/MISC-DIC/ziranma.cin  >= v1
   leim/SKK-DIC/SKK-JISYO.L   >= v2
   leim/SKK-DIC/README        >= v2
   leim/ja-dic/ja-dic.el      >= v2

5. At time of writing, some non-Emacs icons included from Gnome remain under GPLv2 (no "or later"). See:

   etc/images/gnus/README
   etc/images/mail/README
   etc/images/README
   nt/icons/README

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Version 3, 29 June 2007
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This file contains utf-8 non-ASCII characters, and so cannot be loaded into Emacs 22 or earlier.

```
(and (boundp 'emacs-version)
  (< (aref emacs-version (1- (length emacs-version))) ?A)
  (string-lessp emacs-version "23")
  (error "%% was compiled for Emacs 23 or later" #$))
```

```
(byte-code
 "\x300\x301\x302\x303\x304\x305%\x210\x306\x307\x310\x311\x304\x301\x312\x313\x210\x306\x314\x302\x315\x304\x301\x312\x316\x317\x320&
 \x210\x306\x321\x322\x323\x304\x301\x312\x324&\x210\x306\x325\x210\x306\x326\x327\x304\x301\x312\x324&\x210\x306\x330\x331\x332\x304\x301\x312\x324&\x210\x306\x333\x332\x334\x304\x301\x312\x316\x317\x335&\x210\x306\x336\x337\x340\x304\x301\x312\x341&\x207"
 [custom-declare-group copyright nil "Update the copyright notice in current buffer." :group tools custom-declare-variable copyright-limit 2000 "Don't try to update copyright beyond this position unless interactive.\n A value of nil means to search whole buffer. timestep (choice (integer :tag "Limit") (const :tag "No limit"))) copyright-at-end-flag "Non-nil means to search backwards from the end of the buffer for copyright.\n This is useful for ChangeLogs." boolean
 :version "23.1" copyright-regexp \("\|@copyright{}\|\[Cc\]opyright\s *:?\s *\(?:(C)\)?\|\[Cc\]opyright\s *:\s *\)\s *\:"\(\s *\)\(\[1-9\]\(\[-0-9, ';/*%#\s<|>\)*\[0-9]+\)\)" "What your copyright notice looks like.\n The second \( \) construct must match the years." regexp copyright-names-regexp "" "Regexp matching the names which correspond to the user.\n If copyright上限 reaches a value of 2000, Emacs will stop trying to update the notice any further.\n This is useful for ChangeLogs." boolean
 :version "23.1" copyright-year-ranges "Non-nil if individual consecutive years should be replaced with a range.\n For example: 2005, 2006, 2007, 2008 might be replaced with 2005-2008.\n If you use ranges, you should add an explanatory note in a README file.\n The function 'copyright-fix-years' respects this variable." "24.1" copyright-query 'function "If non-nil, ask user before changing copyright.\n When this is 'function', only ask when called non-interactively." (choice (const :tag "Do not ask") (const :tag "Ask unless interactive") (other :tag "Ask") t) (t) 10)
 #@60 String representing the current version of the GPL or nil.
 (defconst copyright-current-gpl-version "3" (#$ . 2656))
 #@75 The function 'copyright-update' sets this to nil after updating a buffer.
 (defvar copyright-update t (#$ . 2778))
 #@39 String representing the current year.
 (defvar copyright-current-year (format-time-string "%Y") (#$ . 2898))
 (defalias 'copyright-limit #\[nil "\x0205\x203\x207\x207\x207\x207\" [copyright-limit copyright-at-end-flag] 2])
 (put 'copyright-limit 'byte-optimizer 'byte-compile-inline-expand)
 #@69 Re-search forward or backward depending on 'copyright-at-end-flag'.
 (defalias 'copyright-re-search #\((regexp &optional bound noerror count) "$\x203\x305\x05\x07\x07\x07\x07\" [copyright-at-end-flag regexp bound noerror count re-search-backward re-search-forward] 5 (#$ . 3189)])
Return point-min or point-max, depending on 'copyright-at-end-flag'.

Return non-nil if point is too far from the edge of the buffer.

Return non-nil if a copyright header suitable for updating is found.

The header must match 'copyright-regexp' and 'copyright-names-regexp', if set.

This function sets the match-data that 'copyright-update-year' uses.

Possibly adjust the search performed by 'copyright-find-copyright'.

If the years continue onto multiple lines that are marked as comments, skips to the end of all the years.

Update copyright notice to indicate the current year.

With prefix ARG, replace the years in the notice rather than adding the current year after them. If necessary, and 'copyright-current-gpl-version' is set, any copying permissions following the copyright are updated as well.

If non-nil, INTERACTIVEP tells the function to behave as when it's called interactively.

Update copyright notice to indicate the current year.

With prefix ARG, replace the years in the notice rather than adding the current year after them. If necessary, and 'copyright-current-gpl-version' is set, any copying permissions following the copyright are updated as well.

If non-nil, INTERACTIVEP tells the function to behave as when it's called interactively.
Convert 2 digit years to 4 digit years.

Uses heuristic: year >= 50 means 19xx, < 50 means 20xx.

If `copyright-year-ranges' (which see) is non-nil, also
independently replaces consecutive years with a range.

A prefix argument ARG says to wrap the skeleton around the next ARG words.
A prefix argument of -1 says to wrap around region, even if not highlighted.
A prefix argument of zero says to wrap around zero words---that is, nothing.
This is a way of overriding the use of a highlighted region.

A prefix argument ARG says to wrap the skeleton around the next ARG words.
A prefix argument of -1 says to wrap around region, even if not highlighted.
A prefix argument of zero says to wrap around zero words---that is, nothing.
This is a way of overriding the use of a highlighted region.

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@enumerate a
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  used for software interchange.

  @item Convey the object code in, or embodied in, a physical product
  (including a physical distribution medium), accompanied by a written
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  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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  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.
@item
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@item
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@end enumerate

@end enumerate

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@end smallexample

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This is free software, and you are welcome to redistribute it
under certain conditions; type @samp{show c} for details.
@end smallexample

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1.57 libnl3 3.2.28-4.el7
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Version 2.1, February 1999
Preamble

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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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1.58 make 3.82 23.el7

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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
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(if any) on which the executable work runs, or a compiler used to
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1.67 wicket-spring 1.4.12

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1.70 faac 1.29.9.2

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  * Detect unordered_map in stl_hash.m4.

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* Fixed warnings about generated constructors not explicitly initializing
  all fields (only present with certain compiler settings).
  * Added generation of field number constants.

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* Small patch improving performance of in Python serialization.

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* Emacs mode for Protocol Buffers (editors/protobuf-mode.el).

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* Added Swap(), SwapElements(), and RemoveLast() to Reflection interface.

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* HPUX support.

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* Detect whether zlib is new enough in configure script.
  * Fixes for Solaris 10 32/64-bit confusion.

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* Optimize Java serialization code when writing a small message to a stream.
  * Optimize Java serialization of strings so that UTF-8 encoding happens only
    once per string per serialization call.
    * Clean up some Java warnings.
  * Fix bug with permanent callbacks that delete themselves when run.

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* Added CodedInputStream.getTotalBytesRead().

Kacper Kowalik <xarthisius.kk@gmail.com>
* Fixed m4/acx_pthread.m4 problem for some Linux distributions.

William Orr <will@worrbase.com>
* Fixed detection of sched_yield on Solaris.
  * Added atomicops for Solaris

Andrew Paprocki <andrew@ishiboo.com>
* Fixed minor IBM xIC compiler build issues
MySQL 8.0

Introduction

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   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_dup_name.c
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   lib/gssapi/mechglue/g_export_name.c
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   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
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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
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Version 3.1, 31 March 2009

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Markus Kuhn -- 2007-05-26 (Unicode 5.0)

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MySQL Router 8.0

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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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1.79 rdma-core 17.2

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### 1.82 tevent 0.9.36

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Blenheim spaniel
Blessed Sacrament
Blessed Virgin
Blida
Bligh
Blindheim
Bliss
Bloch
Bloemfontein
Blois
Blok
Bloody Mary
Bloomfield
Bloomington
Bloomsbury
Blue Mountains
Blue Nile
Bluebeard
Blum
Bn.
Boabdil
Boadicea
Boanerges
Board of Trade unit
Boaz
Bobo-Dioulasso
Boccherini
Boccioni
Boche
Bochum
Bodhisattva
Bodleian
Bodoni
Body of Christ
Boehmenism
Boehmenist
Boehmite
Boeotia
Boeotian
Boer
Boer War
Boethius
Bofors gun
Bogart
Bogor
Bohemia
Bohemian
Bohemian Brethren
Bohemian Forest
Boudicca
Bougainville
Boulanger
Boulder Dam
Boulogne
Boult
Bourbon
Bourbonism
Bourgeois
Bourges
Bourgogne
Bourguiba
Bournemouth
Bourse
Bouvier des Flandres
Bowery
Bowie
Boxer
Boxing Day
Boyd
Boyle
Boyle's law
Boyne
Boz
Bozcaada
Bozen
Br
Br.
Brabant
Bracknell
Bradford
Bradley
Braga
Bragg
Bragg's law
Bragi
Brahe
Brahma
Brahman
Brahmana
Brahmani
Brahmanism
Brahmaputra
Brahmi
Brahmin
Brahms
Brahui
Braille
Briggs
Bright
Bright's disease
Brighton
Brigid
Brigit
Brillat-Savarin
Brindisi
Brinell number
Brisbane
Bristol
Bristol Channel
Bristol board
Bristol fashion
Brit
Brit.
Britain
Britannia
Britannia metal
Britannic
Briticism
British
British Antarctic Territory
British Columbia
British Commonwealth of Nations
British East Africa
British Empire
British Guiana
British Honduras
British India
British Isles
British Legion
British Museum
British North America
British Somaliland
British Virgin Islands
British West Africa
British West Indies
British gum
British thermal unit
Britisher
Britishism
Briton
Brittany
Brittany spaniel
Britten
Brix scale
Brno
Broad
Broad Church
Broads
Broadway
Brobdingnagian
Broca
Brocken
Broglie
Broken Hill
Bromberg
Bromley
Bronx
Bronx cheer
Bronze Age
Brook Farm
Brooke
Brooklyn
Brooklynese
Brooks Range
Brother Jonathan
Brown
Brown Shirt
Brown Swiss
Browne
Brownian movement
Browning
Browning automatic rifle
Broz
Brubeck
Bruce
Bruch
Bruckner
Brueghel
Bruges
Brumaire
Brumell
Brundisium
Brunei
Brunel
Brunelleschi
Brunhild
Bruno
Brunswick
Brusa
Brussels
Brussels carpet
Brussels griffon
Brussels lace
Brussels sprout
Brutus
Bruxelles
Bryansk
Brynhild
Brython
Brythonic
Bs/L
Bt.
Buber
Bucaramanga
Bucephalus
Buchan
Buchanan
Bucharest
Buchenwald
Buchmanism
Buchner
Buck
Buckingham
Buckingham Palace
Buckinghamshire
Bucovina
Budapest
Buddh Gaya
Buddha
Buddhism
Buddhology
Budge
Budget
Budweis
Buena Vista
Buenaventura
Buenos Aires
Buffalo
Buffalo Bill
Buffet
Buffon
Bug
Buitenzorg
Bujumbura
Bukavu
Bukhara
Bukharin
Bukovina
Bul
Bulawayo
Bulg.
Burton
Burundi
Burushaski
Bury St. Edmunds
Buryat
Bushido
Bushire
Bushman
Busoni
Busra
Bute
Butler
Buxtehude
Bydgoszcz
Byelorussian
Byelostok
Byng
Byrd
Byron
Bytom
Byz.
Byzantine
Byzantine Church
Byzantine Empire
Byzantium
C
C battery
C clef
C horizon
C.
C. of S.
C.A.
C.A.F.
C.B.
C.B.D.
C.B.E.
C.C.
C.D.
C.E.
C.F.
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C.P.
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C.T.
C.V.O.
C/A
C/N
CAA
CAB
CAP
CARE
CAT
CB
CENTO
CIA
CNS
CO
COBOL
CORE
CP
CQ
CR
CRT
CW
Ca
Caaba
Cabanatuan
Cabernet
Cabinda
Cabot
Cabral
Cacus
Caddoan
Cade
Cadmean victory
Cadmus
Caelian
Caelum
Caen
Caerleon
Caernarvonshire
Caerphilly
Caesar
Caesarea
Caesarean
Caesarean section
Caesarism
Cage
Cagliari
Cagliostro
Caiaphas
Caicos Islands
Cain
Cainozoic
Caird
Caird Coast
Cairns
Cairo
Caithness
Caius
Cajun
Cal.
Calabar
Calabar bean
Calabria
Calais
Calchas
Calcutta
Calder
Caldwell
Caledonia
Caledonian
Caledonian Canal
Calgary
Cali
Caliban
Calicut
Calif.
California
California poppy
Caligula
Callaghan
Callao
Callas
Callicrates
Callimachus
Calliope
Callisto
Calpe
Caltanissetta
Calvados
Calvary
Calvary cross
Calvert
Calvin
Calvinism
Calypso
Cam
Camb.
Cambodia
Cambrai
Cambria
Cambrian
Cambridge
Cambridgeshire
Cambyses
Camden
Camelopardalis
Camelopardus
Camelot
Camembert
Camenae
Cameroon
Cameroun
Camorra
Campagna
Campania
Campbell
Campbell-Bannerman
Campbellite
Campeche
Campaña Grande
Campinas
Campion
Campo Formio
Campo Grande
Campobello
Campos
Camus
Can.
Cana
Canaan
Canaanite
Canad.
Canada
Canada balsam
Canada goose
Canada thistle
Canadian
Canadian French
Canadian River
Canadian bacon
Canadian football
Canadian whiskey
Canadianism
Canal Zone
Canaletto
Canara
Canarese
Canary Islands
Canaveral
Canberra
Cancer
Candia
Candiot
Candemas
Canea
Canes Venatici
Canicula
Canis Major
Canis Minor
Cannae
Cannes
Canning
Canopic jar
Canopus
Canossa
Canova
Canso
Cant.
Cantabrigian
Cantal
Canterbury
Canterbury bell
Canticle of Canticles
Canton
Canton River
Canton crepe
Canton flannel
Cantonese
Canuck
Canute
Cap-Haitien
Capablanca
Cape Cod
Cape Colony
Cape Dutch
Cape Horn
Cape Town
Cape buffalo
Capella
Capernaum
Capet
Capetian
Caspian Sea
Cassandra
Cassatt
Cassegrainian telescope
Cassel
Cassel yellow
Cassino
Cassiodorus
Cassiopeia
Cassirer
Cassius Longinus
Castalia
Castelo Branco
Castiglione
Castile
Castilian
Castilla la Vieja
Castle walk
Castlereagh
Castor
Castor and Pollux
Castro
Castrop-Rauxel
Catalan
Catalina Island
Catalonia
Catania
Catanzaro
Catawba
Cath.
Cathar
Cathay
Catherine
Catherine I
Catherine II
Catherine of Aragon
Catherine of Siena
Catherine wheel
Catholic
Catholic Church
Catholic Epistles
Catholicism
Catholicity
Catiline
Cato
Catskill Mountains
Cattegat
Catullus
Cauca
Caucasia
Caucasian
Caucasoid
Caucasus
Cauchy
Caudine Forks
Cauvery
Cav.
Cavafy
Cavalier poets
Cavan
Cavell
Cavendish
Cavite
Cavour
Cawnpore
Caxton
Cayenne
Cayes
Cayman Islands
Cayuga
Cb
Cd
Cdr.
Ce
Cecil
Cecilia
Cecropia moth
Cecrops
Cedar Rapids
Celaeno
Celanese
Celebes
Celestial City
Celestial Empire
Cellini
Celluloid
Celsius
Celsius scale
Celt
Celt.
Celtic
Celtic cross
Cenis
Cenozoic
Centaurus
Central African Empire
Central African Federation
Central America
Central Intelligence Agency
Central Powers
Central Treaty Organization
Central time
Centralia
Cephalonia
Cepheid variable
Cepheus
Ceram
Cerberus
Cerenkov
Cerenkov radiation
Ceres
Cerro Gordo
Cerro de Pasco
Cervantes
Cervin
Cesarean
Cesena
Cetinje
Ceto
Cetus
Ceuta
Ceylon
Ceylon moss
Ceyx
Cf
Ch.B.
Ch.E.
Chablis
Chaco
Chad
Chadwick
Chaeronea
Chagall
Chagas' disease
Chagres
Chain
Chalcidice
Chalcis
Chaldea
Chaldean
Chaliapin
Cham
Chamaeleon
Chamberlain
Chambertin
Chamonix
Chamorro
Champagne
Champlain
Champollion
Chancellor of the Exchequer
Chancellorsville
Chandigarh
Chandler
Chandragupta
Chanel
Changchun
Changsha
Changteh
Channel Islands
Chantilly
Chantilly lace
Chanukah
Chao Phraya
Chaoan
Chaplin
Chapman
Charcot
Chardin
Charente
Charente-Maritime
Chari
Char-Nile
Charing Cross
Charlemagne
Charleroi
Charles
Charles I
Charles II
Charles IV
Charles IX
Charles Martel
Charles V
Charles VI
Charles VII
Charles X
Charles the Great
Charles' law
Charles's Wain
Charleston
Charlotte
Charlotte Amalie
Charlottenburg
Charlottetown
Charlton
Charon
Charpentier
Charterhouse
Chartism
Chartres
Charybdis
Chatham
Chatham Islands
Chattanooga
Chatterton
Chaucer
Chaucerian
Chaumont
Chavannes
Cheboksary
Cheddar
Chefoo
Cheiron
Cheju
Cheka
Chekhov
Chekiang
Chellean
Chelsea
Cheltenham
Chelyabinsk
Chelyuskin
Chemnitz
Chemulpo
Chenab
Chengteh
Chengtu
Cheops
Cher
Cherbourg
Chelemis
Chelemkhovo
Cherenkov
Cherokee
Cherokee rose
Cherubini
Chesapeake Bay
Chesapeake Bay retriever
Cheshire
Cheshvan
Chester
Chester White
Chesterfield
Chesterfieldian
Chesterton
Chetnik
Chevalier
Cheviot
Cheviot Hills
Cheyenne
Chian
Chiang Kai-shek
Chianti
Chiapas
Chiba
Chibcha
Chibchan
Chicago
Chichihara
Chickamauga
Chickasaw
Chiclayo
Chief of Staff
Chifley
Chihli
Chihuahua
Chile
Chile saltpeter
Chilkoot Pass
Chillon
Chilon
Chilpancingo
Chiltern Hundreds
Chilung
Chimborazo
Chimkent
Chin.
China
China Sea
China aster
China rose
China silk
China tree
Chinaman
Chinatown
Chindwin
Chinese
Chinese Chippendale
Chinese Empire
Chinese Revolution
Chinese Turkestan
Chinese Wall
Chinese cabbage
Chinese calendar
Chinese checkers
Chinese ink
Chinese lantern
Chinese puzzle
Chinese red
Chinese wax
Chinese white
Chinese windlass
Chinese wood oil
Chinghai
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Chinkiang
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Chinook
Chinook Jargon
Chinook salmon
Chinookan
Chios
Chippewa
Chirico
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Chittagong
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Chlodwig
Chloe
Chloromycetin
Choctaw
Choiseul
Cholon
Cholula
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Chou En-lai
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Christ
Christ Jesus
Christ's-thorn
Christadelphian
Christchurch
Christendom
Christhood
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Christian Era
Christian Science
Christian Scientist
Christian X
Christian name
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Christmas
Christmas Eve
Christmas Island
Christmas cactus
Christmas card
Christmas disease
Christmas pudding
Christmas rose
Christmas stocking
Christmas tree
Christmastide
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Christogram
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Christopher
Christy
Chron.
Chronicles
Chrysostom
Chu Teh
Chubb
Chudskoye Ozero
Chukchi
Chukchi Sea
Chumash
Chungking
Chur
Church of Christ
Church of England
Church of Rome
Churchill
Chuvash
Ci
Cibber
Cicero
Ciceronian
Cid
Cienfuegos
Ciliata
Cilicia
Cilician Gates
Cimabue
Cimbri
Cimmerian
Cimon
Cincinnati
Cincinnatus
Cinderella
Cinemascope
Cinerama
Cinque Ports
Cipango
Circassia
Circassian
Circe
Circinus
Circus Maximus
Cirenaica
Cisalpine Gaul
Ciscaucasia
Cistercian
City of God
Ciudad Trujillo
Ciudad Victoria
Cl
Clackmannan
Clactonian
Clare
Clarenceux
Clarendon
Clark
Claudel
Claudius II
Clausewitz
Clausius
Clavius
Clay
Cleanthes
Cleisthenes
Clemenceau
Clemens
Clement I
Clement V
Clement VII
Clement of Alexandria
Cleobulus
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Cochise
Cockaigne
Cockayne
Cockcroft
Cocos Islands
Cocteau
Cocytus
Cod
Codex Juris Canonici
Cody
Coeur de Lion
Cognac
Cohen
Coimbatore
Coimbra
Cointreau
Coke
Col.
Colbert
Colchester
Colchis
Coldstream Guards
Coleridge
Colet
Colette
Coligny
Colima
College of Cardinals
Collins
Colmar
Colo.
Cologne
Cologne brown
Colombes
Colombia
Colombo
Colonel Blimp
Colorado
Colorado Desert
Colorado Springs
Colorado beetle
Colorado potato beetle
Colossae
Colosseum
Colossian
Colossians
Colt
Colum
Conestoga wagon
Coney Island
Confiteor
Confucian
Confucianism
Confucius
Cong.
Congo
Congo Free State
Congo red
Congregationalism
Congregationalist
Congress
Congress of Vienna
Congressional Medal of Honor
Congressional Record
Congressional district
Congreve
Conn.
Connacht
Connaught
Connecticut
Conrad
Cons.
Conservatism
Conservative Jew
Conservative Judaism
Conservative Party
Constable
Constance
Constant
Constantia
Constantine
Constantine I
Constantine II
Constantinople
Continental Congress
Conway
Cooch Behar
Cook
Cook Inlet
Cook Islands
Cook Strait
Cook's tour
Coolidge
Cooper
Cooper's hawk
Coorg
Crane
Cranmer
Cranwell
Crashaw
Crassus
Crater
Credo
Cree
Creek
Cremona
Creole
Creon
Cressy
Cretaceous
Cretan
Crete
Creuse
Crichton
Crick
Crimea
Crimean War
Cripple Creek
Cripps
Criseyde
Crispi
Crispin
Cro-Magnon
Cro-Magnon man
Croat
Croatia
Croatian
Croce
Crockett
Crocodile River
Croesus
Croix de Guerre
Crompton
Cromwell
Cronus
Crookes
Crookes tube
Crosby
Cross
Croton bug
Crow
Croydon
Cruikshank
Crutched Friar
Crux
Cs
Ctesiphon
Cu
Cub
Cuba
Cuba libre
Cuban heel
Cuenca
Cufic
Culbertson
Culebra Cut
Culver's root
Cumae
Cumaean sibyl
Cuman
Cumberland
Cummings
Cunaxa
Cuneo
Cupid
Cupid's bow
Curia Regis
Curie
Curie point
Curie's law
Curie-Weiss law
Curitiba
Curry
Curtin
Curzon
Cusco
Cush
Cushing
Cushing's disease
Cushitic
Custer
Cutch
Cuthbert
Cuxhaven
Cuyp
Cuzco
Cwmbran
Cybele
Cyclades
Cyclopean
Cyclops
Cydnus
Dali
Dallapiccola
Dallas
Dalmatia
Dalmatian
Dalton
Dalton's law
Dam
Daman
Damaraland
Damascene
Damascus
Damascus steel
Damien
Damietta
Damocles
Damon and Pythias
Dampier
Dan
Dan.
Danaides
Danaus
Dandie Dinmont
Dane
Danegeld
Danelaw
Daniel
Daniell cell
Danish
Danish West Indies
Danish blue
Danish pastry
Dano-Norwegian
Dante
Danton
Danu
Danube
Danzig
Daphne
Daphnis
Daphnis and Chloe
Dapsang
Dar es Salaam
Darby and Joan
Dardan
Dardanelles
Dardanus
Darfur
Darien
Darius I
Darius III
Darjeeling
Dark Ages
Darlan
Darling
Darling Range
Darling River
Darlington
Darmstadt
Darnley
Dartmoor
Dartmouth
Darvon
Darwin
Darwinian
Darwinism
Dasht-i-Kavir
Dasht-i-Lut
Daubigny
Daudet
Daugava
Daugavpils
Daumier
Dauphin
Davao
David
David I
Davies
Davis
Davis Strait
Davy
Davy Jones
Davy lamp
Dawes
Dawson
Dawson Creek
Day of Atonement
Day of Judgment
Dayak
Dayan
Dayton
Daytona Beach
De Forest
De La Warr
De Mille
De Quincey
Delphic
Delphic oracle
Delphinus
Delta
Dem.
Demavend
Demerol
Demeter
Democrat
Democratic Party
Democratic-Republican Party
Democritus
Demogorgon
Demosthenes
Dempsey
Den.
Denbighshire
Deneb
Denmark
Denmark Strait
Denton
Denver
Denys
Deo gratias
Deo volente
Department of Agriculture
Department of Commerce
Department of Defense
Department of Justice
Department of Labor
Derain
Derbent
Derby
Derbyshire
Derry
Derwent
Des Moines
Descartes
Desmoulins
Dessalines
Dessau
Detroit
Deucalion
Deus
Deut.
Deuteronomy
Deutschland
Devanagari
Deventer
Devereux
Devi
Devil's Island
Devon
Devonian
Devonshire cream
Dewar
Dewey
Dexamyl
Dexedrine
Dexter
Dezhnev
Dhahran
Dhammapada
Dhaulagiri
Di
Diaghilev
Diana
Dias
Diaspora
Diaz
Dick
Dick test
Dickens
Dickinson
Dictaphone
Dictograph
Didache
Diderot
Dido
Diefenbaker
Diels-Alder reaction
Dieppe
Dies Irae
Diesel
Dietrich
Dijon
Dike
Dilantin
Dimitrovo
Din.
Dinah
Dinaric Alps
Dinesen
Dinka
Diocletian
Diodorus Siculus
Diogenes
Diomede Islands
Diomedes
Dione
Dionysia
Dionysiac
Dionysian
Dionysus
Dionysius Exiguus
Dionysius of Halicarnassus
Dionysus
Diophantus
Dior
Dioscuri
Dirac
Directoire
Dirichlet
Dis
Disciples of Christ
Dismal Swamp
Disney
Disraeli
Distinguished Conduct Medal
Distinguished Flying Cross
Distinguished Service Cross
Distinguished Service Medal
Distinguished Service Order
District of Columbia
Distrito Federal
Diu
Dives
Divine Mind
Dixie
Dixieland
Djakarta
Djambi
Djerba
Djokjakarta
Dneprodzerzhinsk
Dnepropetrovsk
Dnieper
Dniester
Dobell's solution
Doberman pinscher
Dobruja
Doctor of Philosophy
Dodecanese
Dodge City
Dodgem
Dodgson
Dodona
Doe
Doenitz
Dog Star
Dogberry
Dogger Bank
Doha
Dollfuss
Dolly Varden
Dolomites
Dom
Dom.
Domesday Book
Domett
Dominic
Dominica
Dominican
Dominican Republic
Dominion Day
Dominus
Domitian
Don
Don Juan
Don Quixote
Donar
Donatello
Donatist
Donatus
Donau
Doncaster
Donegal
Donets
Donetsk
Dongola
Donna
Donne
Doolittle
Doomsday Book
Doorn
Doppler effect
Doppler radar
Dorado
Dorado
Dorcas society
Dorchester
Dordogne
Dordrecht
Dorian
Dorian mode
Doric
Doris
Dorking
Dorpat
Dorset
Dorset Horn
Dort
Dortmund
Dos Passos
Dou
Douai
Douala
Douay Bible
Doubs
Doughty
Douglas
Douglas fir
Douglas-Home
Doukhobor
Douro
Dove
Dover
Dover's powder
Dow
Dow-Jones average
Dowland
Down
Down's syndrome
Downing Street
Dowson
Doyle
Dr
Dr.
Draco
Draconian
Dracula
Drake
Drake Passage
Drakensberg
Dramamine
Drambuie
Draper
Drava
Dravidian
Drayton
Dreibund
Dreiser
Drenthe
Dresden
Dresden china
Dreyfus
Drin
Drinkwater
Drogheda
Druid
Drury Lane
Druse
Dry Ice
Dry Tortugas
Dryden
Du Barry
Du Gard
Du Guesclin
Du Maurier
Du.
DuPont
Dual Alliance
Dual Monarchy
Duala
Dubai
Dublin
Dubonnet
Dubrovnik
Dubuffet
Duccio di Buoninsegna
Duchamp
Dudley
Duero
Dufy
Duhamel
Duisburg
Dukas
Dulles
Duluth
Dumas
Dumbarton
Dumbarton Oaks
Dumfries
Dumuzi
Dumyat
Dun Laoghaire
Duna
Dunaj
Dutch treat
Dutch uncle
Dutchman
Dutchman's-breeches
Dutchman's-pipe
Duvalier
Dvina
Dvina Bay
Dvinsk
Dy
Dyak
Dyaus
Dylan
Dynel
Dzerzhinsk
Dzungaria
E
E layer
E region
E-boat
E.
E.E.
E.E. & M.P.
E.I.
E.R.
E.T.A.
E.T.D.
E.V.
EAM
ECG
EDP
EEC
EEG
EFTA
EHF
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S. Dak.
S. of Sol.
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Sacra Romana Rota
Sacramentarian
Sacred College
Sacred Heart
Sadducee
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Safid Rud
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San Bernardino
San Blas
San Fernando
San Francisco
San Francisco Bay
San Ildefonso
San Jose scale
San Juan
San Juan Islands
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San Marino
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San Remo
San Salvador
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Sanctus
Sanctus bell
Sand
Sandakan
Sandalwood Island
Sandhurst
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Santa Ana
Santa Anna
Santa Catalina
Santa Clara
Santa Claus
Santa Cruz
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Santa Gertrudis
Santa Isabel
Santa Maria
Santa Marta
Santayana
Santee
Santiago
Santiago de Cuba
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Santos-Dumont
Saorstat Eireann
Sapir
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Scaramouch
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Schaerbeek
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Scot.
Scotch
Scotch broth
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Scottish Gaelic
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Scotus
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Seebeck effect
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Seltzer
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Simon Magus
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Simple Simon
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Sind
Sindhi
Sing Sing
Singapore
Singer
Singhalese
Singspiel
Sinhalese
Sining
Sinn Fein
Sino-
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Siqueiros
Sir Roger de Coverley
Siracusa
Siraj-ud-daula
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Skinner box
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Stara Zagora
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Terry
Tersanctus
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Timon of Athens
Timor Sea
Timoshenko
Timothy
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Tindal
Tintoretto
Tipperary
Tiresias
Tirich Mir
Tirol
Tiros
Tirpitz
Tirso de Molina
Tiruchirapalli
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Tlingit
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Toledo
Toluca
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Tom Collins
Tom Thumb
Tom and Jerry
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Tommy
Tommy gun
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Tonle Sap
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Topeka
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Tshombe
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Tswana
Tu.
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Tucana
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Tucson
Tudor
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Tula
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Tunisia
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Tupi-Guarani
Tupungato
Turanian
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Turenne
Turgot
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Turk's-cap lily
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Turk.
Turkestan
Turkey
Turkey red
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Turkic
Turkish
Turkish Empire
Turkish bath
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Turkish tobacco
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Tyumen
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U Thant
U bolt
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U.A.R.
U.C.
U.K.
U.S.
U.S.A.
U.S.S.
U.V.
UAM
UFO
UHF
UN
UNESCO
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UPI
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USIA
USM
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Ubangi
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Ubiquitarian
Ucayali
Udall
Udine
Ufa
Uganda
Ugaritic
Ugrian
Ugric
Uhland
Uigur
Uinta Mountains
Ujiji
Ukr.
Ukrainian
Ulbricht
Ulm
Ulpian
Ulster
Ulyanovsk
Ulysses
Umayyad
Umbria
Umbrian
Unamuno
Uncle Sam
Unfederated Malay States
Ungava
Uniat
Union
Unit.
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United Arab Republic
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United Kingdom
United Nations
United Press International
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United States
United States Navy
United States of America
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Unterwalden
Upanishad
Upolu
Upper Austria
Upper Egypt
Upper Silesia
Upper Tunguska
Upper Volta
Uppsala
Ur
Ural-Altaic
Uralian
Uralic
Urania
Uranian
Uranus
Urban II
Urda
Urdu
Urey
Urfa
Urga
Uriah
Uriel
Urim and Thummim
Urmia
Urquhart
Ursa Major
Ursa Minor
Ursula
Ursuline
Uru.
Uruguay
Urumchi
Ushant
Ushas
Usk
Uspallata Pass
Ust-Kamenogorsk
Utah
Utgard-Loki
Uther
Utica
Uto-Aztecan
Utopia
Utrecht
Utrillo
Uttar Pradesh
Utu
Uxmal
Uzbek
V
V neck
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V-Day
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V-mail
V-shaped
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V.
V. Rev.
V.A.
V.C.
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VAR
VAT
VC
VD
VHF
VIP
VISTA
VLF
VTOL
Va.
Vaal
Vaasa
Vaduz
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Vaisya
Valais
Valdai Hills
Valdemar I
Valence
Valencia
Valenciennes
Valentine
Valentinian I
Valentino
Valera
Valkyrie
Valladolid
Valletta
Valley Forge
Vallombrosa
Valois
Valona
Valparaiso
Van
Van Allen belt
Van Buren
Van Diemen's Land
Van Dyck
Van Gogh
Vance
Vancouver
Vandal
Vanderbilt
Vandyke
Vandyke beard
Vandyke brown
Vandyke collar
Vane
Vanir
Vanity Fair
Vanua Levu
Var
Varanasi
Vardar
Vardhamana
Varese
Vargas
Varityper
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Vasco da Gama
Vaseline
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Vat.
Vatican
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Vauban
Vaucluse
Vaud
Vaudois
Vaughan
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Veda
Vedanta
Vedda
Vedic
Vega
Veii
Vela
Ven.
Venetia
Venetian
Venetian blind
Venetian glass
Venetian red
Venetic
Venezia Giulia
Venezia Tridentina
Venezuela
Venice
Venite
Venlo
Venn diagram
Ventris
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Venus's looking-glass
Venus's-flytrap
Venus's-hair
Venusberg
Venusian
Veracruz
Vercelli
Vercingetorix
Verde
Verdun
Vereeniging
Verein
Vergil
Vermeer
Vermont
Verner's law
Vernoleninsk
Verona
Veronese
Verrazano
Verrazzano
Verrocchio
Vertumnus
Verulamium
Verwoerd
Vespasian
Vesper
Vespucci
Vesta
Vesuvius
Veterans Administration
Veterans Day
Viborg
Vic.
Vicar of Christ
Vichy
Vicksburg
Vicky
Vico
Victor Emmanuel III
Victoria
Victoria Cross
Victoria Island
Victoria Land
Victorian
Vidar
Vienna
Vienna sausage
Vienne
Vientiane
Viet cong
Vietnam
Vietnam War
Vietnamese
Vignola
Viipuri
Viking
Villa
Villanovan
Villeneuve
Villon
Viminal
Vincennes
Vincent de Paul
Vincent's angina
Vindhya Pradesh
Vineland
Vinnitsa
Virchow
Virgil
Virgin Mary
Virginia
Virginia Beach
Virginia creeper
Virginia deer
Virginia reel
Virginia stock
Virgo
Visakhapatnam
Visayan
Visayan Islands
Visby
Vyborg
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W.C.T.U.
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Wagga Wagga
Wagner
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Wahhabi
Waikiki
Wakashan
Wakayama
Wake Island
Wakefield
Waksman
Wal.
Walachia
Waldemar I
Waldenburg
Waldenses
Waldheim
Waldorf salad
Waler
Wales
Walfish Bay
Walthalla
Walkyrie
Wall Street
Wallace
Wallachia
Wallasey
Wallenstein
Waller
Wallis
Walloon
Wallsend
Walpurgis Night
Walsingham
Walter
Walvis Bay
Wandering Jew
Wanderjahr
Wanhsien
Wanne-Eickel
War Between the States
War of 1812
War of Secession
War of the Austrian Succession
War of the Spanish Succession
Warbeck
Ward
Warhol
Warren
Warrington
Wars of the Roses
Warsaw Pact
Warta
Wartburg
Warwick
Warwickshire
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Washington
Washington palm
Waterford
Waterloo
Watling Island
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Wb
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Weddell Sea
Wedekind
Wedgwood
Wedgewood blue
Wednesday
Wehrmacht
Weichsel
Weimar Republic
Weimaraner
Weismannism
Weisshorn
Weizmann
Welch
Welles
Wellesley
Wellesz
Wellington boots
Wells
Welsh
Welsh corgi
Welsh dresser
Welsh rabbit
Welsh rarebit
Welsh springer spaniel
Welsh terrier
Weltanschauung
Weltpolitik
Weltschmerz
Wembley
Wenceslaus
Wend
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
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Western Australia
Western Church
Western Hemisphere
Western Ocean
Western Roman Empire
Western Samoa
Westfalen
Westminster
Westminster Abbey
Westmorland
Westphalia
Wetterhorn
Wexford
Weymouth
Wheatstone bridge
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Whistler
Whit
Whitaker
White House
White Mountains
White Nile
White Russia
White Russian
White Sea
White Volta
Whitechapel
Whitehall
Whitehead
Whitehorse
Whitney
Whitsun
Whitsunday
Whitsuntide
Whittington
Whittle
Whyalla
Wichita
Wick
Wickliffe
Wicklow
Wieland
Wien
Wiesbaden
Wigan
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
Wis.
Wisconsin
Wyo.
Wyoming
X
X chromosome
XL
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Xanthippe
Xanthus
Xavier
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Y
Y chromosome
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Y.M.C.A.
Y.M.H.A.
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Y.W.C.A.
Y.W.H.A.
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Yahweh
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aborigine
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abortifacient
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abortive
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about ship
about-face
about-ship
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aboveground
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abrade
abranchiate
abrasion
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accommodation bill
accommodation ladder
accommodation train
accommodative
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account receivable
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acetone
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achondrite
achondroplasia
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acid-head
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aconite
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acorn squash
acorn worm
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acoustic nerve
acoustic phonetics
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acropetal
acrophobia
acropolis
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acrotome
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acrylic resin
acrylonitrile
acrylyl
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act curtain
act of God
act of faith
act of war
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actinopod
actinotherapy
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active list
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activist
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acupuncture
acutance
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ad litem
ad nauseam
ad rem
ad val.
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adapter
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adder's-mouth
adder's-tongue
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addressee
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adjutant general
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admass
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aerial ladder
aerial mine
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aerial photograph
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aeronautics
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aerophobia
aerophone
aerophyte
aeroplane
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aerospace
aerosphere
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aerostation
aerotherapeutics
aerothermodynamics
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affectation
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air station
air turbine
air valve
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air-dry
air-minded
air-raid shelter
air-raid warden
air-sea rescue
air-to-air
air-traffic control
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aircraftman
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aliquant
aliquote
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alkali flat
alkali metal
alkali soil
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alkaline
alkaline earth
alkalinity
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alkaloid
alkalosis
alkane
alkanet
alkene
alkyd
alkyd resin
alkyl
alkylation
alkyne
all
all clear
all fours
all hail
all in
all right
all-
all-American
all-around
all-embracing
all-fired
all-important
all-inclusive
all-night
all-out
all-powerful
all-purpose
all-round
all-star
all-time
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alla prima
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allantoid
allantois
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alongside
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aloud
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alpenglow
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alpenstock
alpestrine
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alpha decay
alpha iron
alpha particle
alpha ray
alpha test
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alphosis
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alpinist
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altar bread
altar cloth
altar rail
altar stone
altar wine
altarpiece
altazimuth
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alter ego
alterable
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aluminum oxide
alumna
alumnus
alumroot
alunite
alveolar
alveolar ridge
alveolate
alveolus
alvine
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alyssum
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automatic transmission
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autoxidation
autumn
autumn crocus
autumnal
autumnal equinox
autunite
aux.
auxesis
auxiliaries
auxiliary
auxiliary language
auxiliary verb
auxin
auxochrome
av.
avadavat
avail
availability
available
avalanche
avant-garde
avarice
avaricious
avast
avatar
avaunt
avdp.
ave
avenge
avens
aventurine
avenue
aver
average
averment
averse
aversion
avert
avg.
avian
aviary
aviate
aviation
aviation badge
aviation cadet
aviation medicine
aviator
aviatrix
aviculure
avid
avidin
avidity
avifauna
avigation
avion
avionics
avirulent
avitaminosis
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avocation
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avoid
avoidance
avoir.
avoidupois
avouch
avow
avowal
avowed
avulsion
avuncular
avunculate
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await
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awakening
award
aware
awash
away
awe
awe-inspiring
aweather
awed
aweigh
aweless
awesome
awestricken
awful
awfully
awhile
awhirl
awkward
awkward age
awl
awlwort
awn
awning
awoke
awry
azure
azurite
azygous
b
b.f.
b.o.
b.p.
b.s.
baa
baal kore
baba
baba au rhum
babassu
babbitt
babble
babblement
babbler
babbling
babe
babiche
babies'-breath
babirusa
baboon
babu
babul
babushka
baby
baby bond
baby carriage
baby grand
baby spot
baby talk
baby tooth
baby's-breath
baby-blue-eyes
baby-sit
baby-sitter
baccalaureate
baccarat
baccate
bacchanal
bacchanalia
bacchant
bacchius
bacciferous
bacciform
baccivorous
baccy
bach
bachelor
bachelor girl
bachelor's degree
bachelorism
bacillary
bacillus
bacitracin
back
back country
back door
back down
back formation
back matter
back number
back out
back rest
back road
back scratching
back seat
back stairs
back talk
back to back
back up
back-and-forth
back-pedal
back-seat driver
backache
backbencher
backbend
backbite
backblocks
backboard
backbone
backbreaker
backbreaking
backchat
backcourt
backcross
backdate
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backfield
backfill
backfire
backflow
backgammon
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bacterium
bacteroid
baculiform
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bad blood
bad check
bad debt
bad time
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bad-tempered
badderlocks
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bade
badge
badger
badinage
badlands
badly
badman
badminton
bael
baffle
bag
bagasse
bagatelle
bagel
baggage
baggage car
bagging
baggy
baggywrinkle
bagman
bagnio
bagpipe
bagpipes
bags
baguette
baguio
bagwig
bagworm
bah
bahadur
baht
bahuvihi
bail
bail bond
baldachin
balderdash
baldhead
baldheaded
baldpate
baldric
bale
baleen
baleen whale
balefire
baleful
baler
balk
balky
ball
ball and chain
ball bearing
ball boy
ball cock
ball game
ball lightning
ball mill
ball of fire
ball valve
ball-and-socket joint
ball-peen hammer
ballad
ballad opera
ballad stanza
ballade
balladeer
balladist
balladmonger
balladry
ballast
ballat
ballata
ballerina
ballet
ballflower
ballista
ballistic
ballistic galvanometer
ballistic missile
ballistics
ballocks
ballon
ballon d'essai
ballonet
balloon
balloon jib
balloon sail
balloon tire
balloon vine
ballot
ballot box
ballottement
ballplayer
ballroom
ballroom dancing
balls
bally
ballyhoo
ballyrag
balm
balm of Gilead
balmacaan
balmy
balneal
balneology
baloney
balsa
balsam
balsam apple
balsam fir
balsam poplar
balsam spruce
balsamic
balsamiferous
balsaminaceous
baluster
balustrade
bambino
bamboo
bamboo curtain
bamboozle
ban
banal
banana
banana oil
banana republic
banana split
bananas
bananasic
banc
band
band saw
band shell
band spectrum
band-pass filter
bandage
bandanna
bandbox
bandeau
banded
banderilla
banderillero
banderole
bandicoot
bandit
bandity
bandmaster
bandog
bandoleer
bandolier
bandoline
bandore
bandsman
bandstand
bandurria
bandwagon
bandwidth
bandy
bandy-legged
bane
banean
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
bannerol
bannock
banns
banquet
banquette
bans
banshee
bant
bantam
bantamweight
banter
bantering
bantling
banyan
banzai
banzai attack
baobab
baptism
baptism of fire
baptismal regeneration
baptistery
baptistry
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
barretter
barricade
barrier
barrier reef
barring
barrio
barrister
barroom
barrow
bartender
barter
bartizan
barton
barye
baryon
baryta
barytes
baryton
barytone
bas bleu
bas mitzvah
bas-relief
basal
basal metabolic rate
basal metabolism
basalt
basaltware
basanite
bascinet
bascule
base
base hospital
base level
base metal
base on balls
base pay
base period
base rate
baseball
baseball glove
baseboard
baseborn
baseburner
baseless
baseline
baseman
basement
bases
bash
bashaw
bashful
bashibazouk
basic
basic anhydride
basic slag
basically
basicity
basidiomycete
basidiospore
basidium
basifixed
basil
basilar
basilic vein
basilica
basilisk
basin
basinet
basion
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
bay lynx
bay oil
bay rum
bay tree
bay window
bayadere
bayard
bayberry
bayonet
bayou
baywood
bazaar
bazooka
bbl.
bd.
bd. ft.
bdollium
bdl.
be
be-
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
beadledom
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
bedrabbles
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
befeater
beefsteak
beefwood
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beehive
beekeeper
beekeeping
beeline
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beep
beer
beer and skittles
beer garden
beer pump
beery
beestings
beeswax
beeswing
beet
beet sugar
beetle
beetle-browed
beetroot
beeves
beezer
befall
befit
befitting
befog
befool
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
benison
benjamin
benne
bennet
benny
bent
bent grass
benthos
bentonite
bentwood
benumb
benzaldehyde
benzene
benzene hexachloride
benzene ring
benzidine
benzine
benzo-
benzoate
benzoate of soda
benzocaine
benzofuran
benzoic
benzoic acid
benzoin
benzol
benzophenone
benzoyl
benzoyl peroxide
benzyl
bequeath
bequest
berate
berberidaceous
berberine
berceuse
bereave
bereft
beret
berg
berg wind
bergamot
bergschrund
beriberi
berkelium
berley
berlin
berm
berretta
berry
bersagliere
berseem
berserk
berserker
berth
bertha
beryl
berylium
beseech
beseeem
beset
besetting
beshrew
beside
besides
besiege
beslobber
besmear
besmirch
besom
besot
besotted
besought
bespangle
bespatter
bespeak
bid up
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bidden
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bidding prayer
biddy
bide
bidentate
bidet
bield
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bier
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bifarious
biff
hiffin
bifid
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bifoliate
bifoliolate
biforate
biforked
biform
bifurcate
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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
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
billon
billow
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
binate
binaural
bind
bind over
binder
bindery
binding
binding energy
bindle
bindweed
bine
binge
binghi
bingle
bingo
binnacle
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
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biogenesis
biogeochimistry
biogeography
biographer
biographical
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biological clock
biological warfare
biologist
biology
bioluminescence
biolysis
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biomedicine
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bionomics
biophysics
bioplasm
biopsy
bioscope
bioscopy
biosphere
biostatics
biosynthesis
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biotechnology
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biotin
biotite
biotope
biotype
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biparietal
biparous
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bipartite
biparty
biped
bipetalous
biphenyl
bipinnate
biplane
hipod
bipolar
bipropellant
biquadrate
biquadratic
biquarterly
biracial
biradial
biramous
birch
birch beer
bird
bird call
bird cherry
bird dog
bird of paradise
bird of passage
bird of prey
bird pepper
bird shot
bird's-eye
bird's-foot
bird's-foot trefoil
bird's-nest fungus
bird-dog
bird-watcher
birdbath
birdcage
birdhouse
birdie
birdlike
birdlime
birdman
birdseed
birefringence
bireme
biretta
birl
brr
birth
birth certificate
birth control
birth rate
birthday
birthday suit
birthmark
birthplace
birthright
birthroot
birthstone
birthwort
bis
biscuit
bise
bisect
bisector
bisectrix
biserrate
bisexual
bishop
bishop's-cap
bishopric
bisk
bismuth
bismuthic
bismuthinite
bismuthous
bison
bisque
bissextile
bister
bistort
bistoury
bistre
bistro
bisulcate
bisulfate
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
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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 belt
black bile
black bindweed
black body
black book
black bottom
black box
black bread
black buck
black diamond
black eye
black flag
black fly
black fox
black frost
black gang
black grouse
black guillemot
black hole
black horehound
black knot
black lead
black letter
black light
black magic
black mark
black market
black marketeer
black measles
black mustard
black nightshade
black opal
black pepper
black powder
black power
black pudding
black quarter
black rat
black rot
black rust
black sea bass
black sheep
black spot
black spruce
black tea
black tie
black velvet
black vomit
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
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blackcock
blackdamp
blacken
blackface
blackfellow
blackfish
blackguard
blackguardly
blackhead
blackheart
blackening
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blackness  
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blacksmith  
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blackthorn  
blacktop  
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bladder ketmia  
bladder worm  
bladdernose  
bladdernut  
bladderwort  
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blandishment  
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blank check  
blank endorsement  
blank verse  
blank wall  
blankbook  
blanket  
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blanketing
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blankly
blare
blarney
blaspheme
blasphemous
blasphemy
blast
blast furnace
blast lamp
blast off
blast-off
blasted
blastema
blasting
blasto-
blastocoel
blastocyst
blastoderm
blastogenesis
blastomere
blastopore
blastosphere
blastula
blat
blatant
blate
blather
blatherskite
blaebok
blaze
blazer
blazing star
blazon
blazonry
bldg.
bleach
bleacher
bleachers
bleaching powder
bleak
blear
blear-eyed
bleary
bleary-eyed
bleat
bleb
bleed
bleeder
bleeder's disease
bleeding
bleeding heart
blemish
blench
blend
blende
blended whiskey
blender
blennioid
blenny
blent
blepharitis
blesbok
bless
blessed
blessing
blest
blether
blew
blight
blighter
blimey
blimp
blind
blind alley
blind date
blind gut
blind pig
blind snake
blind spot
blind staggers
blind tiger
blindage
blinders
blindfish
blindfold
blinding
blindly
blindman's buff
blindstory
blindworm
blink
blinker
blinkers
blinking
blintz
blintze
blip
bliss
blissful
blister
blister beetle
blister copper
blister rust
blistery
blithe
blither
blithering
blithesome
blitz
blitzkrieg
blizzard
blk.
bloat
bloated
bloater
blob
bloc
block
block and tackle
block diagram
block lava
block letter
block out
block plane
block print
block tin
blockade
blockage
blockbuster
blockbusting
blocked
blockhead
blockhouse
blocking
blockish
blocky
bloke
blond
blood
blood and thunder
blood bank
blood bath
blood brother
blood cell
blood count
blood donor
blood feud
blood fluke
blood group
blood grouping
blood heat
blood money
blood orange
blood plasma
blood platelet
blood poisoning
blood pressure
blood pudding
blood relation
blood sausage
blood serum
blood sport
blood test
blood transfusion
blood type
blood vessel
blood-and-thunder
blood-red
bloodcurdling
blooded
bloodfin
bloodhound
bloodless
bloodletting
bloodline
bloodmobile
bloodroot
bloodshed
bloodshot
bloodstain
bloodstained
bloodstock
bloodstone
bloodstream
bloodsucker
bloodthirsty
bloody
bloody flux
bloody shirt
bloody-minded
bloom
blue book
blue cheese
blue chip
blue crab
blue devils
blue fox
blue grouse
blue gum
blue jay
blue jeans
blue laws
blue mold
blue note
blue ointment
blue peter
blue point
blue racer
blue ribbon
blue shark
blue spruce
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
boader
boarding
boarding school
boardinghouse
boardwalk
boarfish
boarhound
boarish
boart
boast
boaster
boastful
boat
boat deck
boat hook
boat neck
boat race
boat train
body stocking
bodycheck
bodyguard
bodywork
boffin
bog
bog asphodel
bog down
bog oak
bogbean
bogey
bogeyman
boggart
boggle
bogie
bogle
bogtrotter
bogus
bogy
bohunk
boil
boil down
boiled
boiled dinner
boiled shirt
boiled sweet
boiler
boiler room
boilermaker
boiling
boiling point
boisterous
bola
bold
bold-faced
boldface
bole
bolection
bolero
boletus
bolide
bolivar
boliviano
boll
boll weevil
bollard
bollix
bollworm
booster
booster shot
boot
boot tree
boothblack
booted
bootee
bootery
booth
bootie
bootjack
bootslace
bootleg
bootless
bootlick
boots
boots and saddles
bootstrap
booty
booze
boozed
boozy
bop
bor.
bora
boracic
boracite
borage
boralin
boralinaceous
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
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bosom
bosomed
bosomy
boson
bosquet
boss
bossa nova
bossism
bossy
bosun
bot
bot.
botanical
botanical garden
botanist
botanize
botanomancy
botany
botch
botchy
boycott
boyfriend
boyhood
boyish
boyla
boysenberry
bozo
bp.
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bra
brabble
brace
brace and bit
bracelet
bracer
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brachial
brachiate
brachio-
brachiopod
brachium
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brachylogy
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bracketing
brackish
bract
bracteate
bracteole
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brae
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braggart
braid
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braiding
brail
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brain coral
brain drain
brain fever
brain stem
brain wave
brainchild
brainless
brainpan
brainsick
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brainstorming
brainwash
brainwashing
brainwork
brainy
braise
brake
brake band
brake drum
brake horsepower
brake lining
brake parachute
brake shoe
brakeman
brakesman
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brambling
brambly
bran
branch
branch line
branch out
branched chain
branchia
branching
branchiopod
brand
brand-new
brandish
brandling
brandy
branks
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branny
brant
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brashy
brasier
brasilein
brasilin
brass
brass band
brass hat
brass knuckles
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brasserie
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bravado
brave
bravery
bravissimo
bravo
bravura
braw
brawl
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brawny
braxy
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brazen-faced
brazier
brazil
brazilin
brazilin
breach
breach of promise
breach of trust
bread
bread and butter
bread knife
bread mold
bread-and-butter pickle
breadbasket
breadboard
breadfruit
breadnut
breadfruit
breadstuff
breadth
breadthways
breadwinner
break
break and entry
break down
break in
break into
break of day
break out
break through
break up
breakable
breakage
breakaway
breakbone fever
breakdown
breaker
breakfast
breakfast food
breakfront
breaking
breaking and entering
breakneck
breakout
breakthrough
breakup
breakwater
bream
breast
breast drill
breast-beating
breast-feed
breastbone
breastpin
breastplate
breaststroke
breastsummer
breastwork
breath
briar
briarroot
briarwood
bribe
bribery
bric-a-brac
brick
brick cheese
brick red
brickbat
brickkiln
bricklayer
bricklaying
brickle
brickwork
bricky
brickyard
bricole
bridal
bridal wreath
bride
bride price
bridegroom
bridesmaid
bridewell
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bridge deck
bridge lamp
bridgeboard
bridgehead
bridgework
bridging
bridle
bridle path
bridlewise
bridoon
brief
briefcase
briefing
briefless
briefs
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brierroot
brierwood
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brigade
brigadier
brigadier general
brigand
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brigandine
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brighten
brightness
brightwork
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brilliance
brilliancy
brilliant
brilliantine
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brimful
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brindled
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bring about
bring down
bring forward
bring in
bring off
bring on
bring out
bring over
bring round
bring to
bring up
bringing-up
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brinkmanship
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brio
brioche
briolette
briony
briquet
briquette
brisance
brise-soleil
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brisket
brisling
bristle
bristletail
bristling
brit
britches
britska
brittle
britzka
broach
broad
broad arrow
broad bean
broad gauge
broad jump
broad jumper
broad seal
broad-faced
broad-leaved
broad-minded
broad-spectrum
broadax
broadbill
broadbrim
broadcast
broadcaster
broadcasting
broadeloth
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
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bromide
bromide paper
bromidic
brominate
bromine
bromism
bromo-
bromoform
bronchi
bronchia
bronchial
bronchial pneumonia
bronchial tube
bronchiectasis
bronchiole
bronchitis
broncho-ronchopneumonia
bronchoscope
bronchus
bronco
broncobuster
bronze
brooch
brood
brooder
broody
brook
brook trout
brookite
brooklet
brooklime
brookweed
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broomcorn
broomrape
brunch coat
brunet
brunette
brunt
brush
brush aside
brush discharge
brush off
brush turkey
brush up
brush-off
brushwood
brushwork
brusque
brusquerie
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brutality
brutalize
brute
brutify
brutish
bryology
bryony
bryophyte
bryozoan
btl.
btry.
bu.
bub
bubal
bubaline
bubble
bubble and squeak
bubble bath
bubble chamber
bubble dance
bubble gum
bubbler
bubbly
bubo
bubonic plague
bubonocele
buccal
buccaneer
buccinator
buentaur
buck
buffalo grass
buffalo robe
buffer
buffer state
buffet
buffet car
buffing wheel
bufflehead
buffo
buffoon
bug
bugaboo
bugbane
bugbear
bugeye
bugger
buggery
buggy
bughouse
bugle
bugleweed
bugloss
bugs
buhl
buhr
buhrstone
build
build up
builder
builder's knot
building
building line
built
built-in
built-up
bul.
bulb
bulbar
bulbiferous
bulbil
bulbous
bulbul
bulge
bulimia
bulk
bulk modulus
bulkhead
bulky
bull
bull fiddle
bull mastiff
bull nose
bull session
bull snake
bull terrier
bull tongue
bull's-eye
bull-necked
bull-roarer
bull.
bulla
bullace
bullate
bullbat
bulldog
bulldoze
bulldozer
bullet
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
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
burg
burgage
burgee
burgeon
burger
burgess
burgh
burgher
burglar
burglar alarm
burglarious
burglarize
burglary
burgle
burgomaster
burgonet
burgoo
burgrave
burial
burial ground
burial mound
burier
burin
burka
burke
burl
burlap
burlesque
burletta
burley
burly
burn
burn in
burn off
burn out
burned
burned out
burned-out
burner
burnet
burning
burning bush
burning glass
burnish
burnisher
burnoose
burnout
burnsides
burnt
burnt almond
burnt offering
burnt sienna
burnt umber
burp
burp gun
burr
burro
burrow
burrstone
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
bushtit
bushwa
bushwhack
bushwhacker
bushy
busily
business
business English
business agent
business college
business cycle
business end
business suit
businesslike
businessman
businesswoman
busk
buskin
buskined
busload
busman
busman's holiday
buss
bust
bust-up
bustard
bustee
buster
bustle
busty
busy
busybody
busyness
busywork
but
butacaine
butadiene
butane
butanol
butanone
butch
butcher
butcher knife
butcher paper
butcher shop
butcher's saw
butcher's-broom
butcherbird
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
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button
button quail
button tree
button up
buttonball
buttonhole
buttonhole stitch
buttonhook
buttons
buttonwood
buttress
butyl
butyl alcohol
butylene
butyraseous
butyraldehyde
butyrate
butyric acid
butyrin
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
bypath
bye
byrne
byroad
byssinosis
byssus
bystander
bystreet
byte
byway
byword
c
c'est la vie
c.
c.d.
c.g.
c.h.
c.m.
c.p.
c.w.o.
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cabana
cabaret
cabasset
cabbage
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cabbage palmetto
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cabbageworm
cabbala
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cabdriver
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cabezón
cabin
cabin boy
cabin class
cabin cruiser
cabinet
cabinet pudding
cabinetmaker
cabinetwork
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cable car
cable railway
cable release
cable ship
cable stitch
cablegram
cablet
cableway
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cabob
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caboodle
caboosé
cabotage
cabretta
cabrilla
cabriole
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cache
cachepot
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cadaverous
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caddy
cade
cadelle
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cadency mark
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cadenza
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cadmium
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cadmium yellow
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caducity
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caesium
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cagey
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caiman
cain
caird
cairn
cairngorm
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caisson disease
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cajolery
cajuput
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cakes and ale
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calaboose
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calamander
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calamity
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calathus
calaverite
calathus
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calcaneus
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calcium chloride
calcium cyanamide
calcium cyclamate
calcium hydroxide
calcium light
calcium oxide
calcium phosphate
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caldron
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calefaction
calefactory
calendar
calendar clock
calendar day
calendar month
calendar watch
calendar year
calender
calends
calendar
calenture
calf
calf love
calf's-foot jelly
calfskin
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calibrate
calibre
calices
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calico bush
calico cat
ceil
callate
californium
caliginous
calipash
calipee
caliper
caliph
caliphate
calisaya
calisthenics
calix
calk
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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
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calliopsis
callipash
calliper
callipygian
callisthenics
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calorie
calorific

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calumniation
calumnious
calumni

calutron
calvaria
calve
calves
calvities

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calyptrogen
calyx
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cambric
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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
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camp bed
camp chair
camp follower
camp meeting
camp stove
campaign
campaign fund
campaign hat
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campanulate
camper
campestral
campfire
campground
camphene
camphor
camphor ball
camphor ice
camphor tree
camphorate
camphorated oil
campion
campo
campo santo
camporee
campstool
campus
campy
camshaft
can
can buoy
can opener
can't
can.
canaigre
canaillé
canakin
canal
canal boat
canal ray
canaliculus
canalize
canard
canary
canary grass
canary seed
canary yellow
canasta
canaster
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cancan
cancel
cancellate
cancellation
cancer
cancer stick
cancroid
candela
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candescent
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candidacy
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candlenut
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candlestick
candlewick
candlewood
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candy store
candy-striped
candytuft
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cane sugar
canebrake
canella
canescent
canfield
cangue
canicular
canikin
canine
caning
canister
canker
canker sore
cankerred
cankerous
cantaloupe
cantankerous
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canter
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canthus
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cantilena
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cantillate
cantilena
cantilena

cantina
canting arms
cantile
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canton
cantonment
cantor
cantoris
cantrip
cantus
cantus firmus
canty
canula
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canvasback
canvass
canyon
canzona
canzone
canzonet
caoutchouc
cap
cap and bells
cap and gown
cap cloud
cap of estate
cap of maintenance
cap rock
cap screw
cap-a-pie
cap.
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capable
capacious
capacitance
capacitate
capacitive reactance
capacitor
capacity
caparison
cape
cape gooseberry
capelin
caper
capercaillie
capeskin
capful
capias
capillaceous
capillarity
capillary
capillary tube
capita
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capital account
capital expenditure
capital gain
capital gains tax
capital goods
capital levy
capital punishment
capital ship
capital stock
capital surplus
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capitalization
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capitulum
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capriole
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capsaicin
capsicum
capsize
capstan
capstan bar
capstan lathe
capstone
capsular
capsulate
capsule
capsulize
captain
captain of industry
captain's chair
captainship
caption
captious
captivate
captive
captive balloon
captivity
captor
capture
capuche
capuchin
caput
capybara
car
car coat
car park
carabao
carabin
carabineer
carabiniere
caracal
caracara
caracole
caracul
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caramelize
carangid
carapace
carat
caravan
caravansary
caravel
caraway
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carbamidine
carbarn
carbazole
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carbo- 
carbohydrate
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carbolic acid
carbolize
carbon
carbon 14
carbon black
carbon copy
carbon cycle
carbon dating
carbon dioxide
carbon disulfide
carbon microphone
carbon monoxide
carbon paper
carbon process
carbon steel
carbon tetrachloride
carbon tissue
carbon-14 dating
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carbonado
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cardiograph
cardioid
cardiology
cardiomegaly
cardiovascular
carditis
cardoon
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cardsharp
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careless
caress
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caret
caretaker
careworn
carfare
cargo
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caribou
caricature
caries
carillon
carillonneur
carina
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carioca
cariole
carious
caritas
cark
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carine
carling
carload
carmagnole
carman
carminative
carmine
carnage
carpogonium
carpology
carpometacarpus
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carpophore
carport
carpospore
carpus
carrack
carrageen
carrefour
carrel
carriage
carriage dog
carriage horse
carriage house
carriage trade
carrick bend
carrick bitt
carrier
carrier pigeon
carriole
carrion
carrion crow
carrion flower
carron oil
carronade
carrot
carrotty
carrousel
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carry away
carry back
carry off
carry on
carry out
carry over
carry through
carryall
carrying charge
carrying-on
carse
carsick
cart
cart horse
cartage
carte
carte blanche
caseation
casebook
casebound
casefy
casein
caseinogen
casemaker
casemate
casement
caseose
caseous
casern
casework
caseworm
cash
cash crop
cash discount
cash in
cash on delivery
cash register
cash-and-carry
cashbook
cashbox
cashew
cashier
cashier's check
cashmere
casing
casino
cask
casket
casque
cassaba
cassareep
cassation
cassava
casserole
cassette
cassia
cassimere
cassino
cassis
cassiterite
cassock
cassoulet
cassowary
cast
cast about
cast down
cast iron
cast steel
cast-iron
cast-off
castanets
castaway
caste
caste mark
castellan
castellany
castellated
castellatus
caster
castigate
casting
casting vote
castle
castle in the air
castled
castoff
castor
castor bean
castor oil
castor-oil plant
castrate
castration complex
castrato
casual
casuality
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
cat.
cata-
catabasis
catabolism
catabolite
catacaustic
catachresis
cataclinal
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cataclysmic
catacomb
catadromous
catafalque
catalase
catalectic
catalepsy
catalo
catalog
catalogue
catalpa
catalysis
catalyst
catalyze
catamaran
catamenia
catamite
catamnesis
catamount
cataphoresis
cataphyll
cataplasia
cataplasm
cataplexy
catapult
cataract
catarrh
catarrhine
catastrophe
catastrophism
catatonia
catbird
catboat
catcall
catch
catch basin
catch crop
catch on
catch out
catch phrase
catch up
catch-as-catch-can
catchall
catcher
catchfly
catching
catchment
catchpenny
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celibacy
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certified mail
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certified public accountant
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change of venue
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changeover
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channel iron
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chanteuse
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checkpoint
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cheery
cheese
cheeseburger
cheesecake
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cheesewood
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chef de cuisine
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chemical engineering
chemical potential
chemical warfare
chemiluminescence
chemin de fer
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chemosphere
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chemotaxis
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chessman
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chest of drawers
chest of viols
chest voice
chest-on-chest
chesterfield
chestnut
chesty
cheetah
cheval glass
cheval-de-frise
chevalier
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cheviot
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chevron
chevrotain
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chicken hawk
chicken out
chicken pox
chicken wire
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chief justice
chief mate
chief of state
chief petty officer
chief warrant officer
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child
child psychology
child's play
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childbed
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childbirth
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chili pepper
chili sauce
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chinch bug
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chip shot
chipboard
chipmunk
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chlorine dioxide
chlorite
chloro-
chloroacetic acid
chlorobenzene
chloroform
chlorohydrin
chlorophyll
chloropicrin
chloroplast
chloroprene
chlorosis
chlorothiazide
chlorous
chlorous acid
chlorpromazine
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chock-a-block
chock-full
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choice
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choir loft
choir school
choirboy
choirmaster
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choke coil
choke up
choke-full
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chokebore
chokecherry
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choo-choo
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choosey
choosy
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chop chop
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chopfallen
chophouse
chopine
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choppy
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chopstick
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choral
chorale
chorale prelude
chord
chordate
chordophone
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chore boy
chorea
choreodrama
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chorizo
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choroiditis
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chromatism
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chromatogram
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chromatology
chromatolysis
chromatophore
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chrome alum
chrome green
chrome red
chrome steel
chrome yellow
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chromic acid
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chromite
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chronic alcoholism
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chronicle play
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chronological
chronologist
circuit breaker
circuit judge
circuit rider
circuitous
circuitry
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circular function
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circular triangle
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circulating decimal
circulating library
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circumbendibus
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city council
city desk
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city father
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civil day
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civil engineer
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civil law
civil liberty
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civil rights
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classical economics
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clean hands
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clean-shaven
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cleaning woman
cleanly
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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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clearheaded
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clearing house
clearly
clearness
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clearway
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cleavable
cleavage
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cleaver
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clew line
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clientage
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cloak-and-dagger
cloakroom
clobber
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clock golf
clock watcher
clockmaker
clockwise
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clonic spasm
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close down
close harmony
close in
close juncture
close out
close quarters
close shave
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close-grained
close-hauled
close-knit
close-lipped
close-stool
close-up
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closed circuit
closed corporation
closed primary
closed shop
closed-circuit television
closed-end investment company
closefisted
closemouthed
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closet
closet drama
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clostridium
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clothes tree
clothesbasket
clotheshorse
clothesline
clothespin
clothespress
clothier
clothing
clotted cream
cloture
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cloud chamber
cloud cover
cloud rack
cloud-capped
cloudberry
cloudburst
clouded
cloudland
cloudless
cloudlet
cloudscape
cloudy
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clove hitch
clove pink
cloven
cloven hoof
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costal plain
coaster
costguardsman
coastland
costline
costward
costwise
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ccoat ee
ccoati
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ccoaxial
ccoaxial cable
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ccobalt
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ccobalt blue
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comedy of manners
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comeuppance
comfit
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comfort station
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comfrey
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comic relief
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comma fault
comma splice
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command guidance
command module
command paper
command performance
command post
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commercial credit
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commercial law
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compass course
compass plant
compass rose
compass saw
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control room
control stick
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copy editor
copy paper
copy-edit
copybook
copyboy
copycat
copyhold
copyholder
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copyread
copyreader
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corps diplomatique
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corpus juris
corpus luteum
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cost ledger
cost of living
cost sheet
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cotton grass
cotton mill
cotton picker
cotton stainer
cotton wool
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cottonmouth
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countertype
countervail
counterweigh
counterweight
counterword
counterwork
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countless
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country cousin
country dance
country gentleman
country house
country music
country rock
country seat
country store
country-and-western
country-bred
country-dance
country-wide
countryfried
countryman
countrysidet
countrywoman
county
county commissioner
county court
county palatine
county seat
coup
coup d'œil
coup de main
coup de plume
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couple
coupler
couplet
coupling
coupon
coupon bond
courage
courteous
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
court of wards
court plaster
court tennis
court-martial
courteous
courtesan
courtesy
courtesy title
courthouse
courtier
courtly
courtly love
courtroom
courtship
courtyard
couscous
cousin
cousin-german
couteau
couthie
couture
couturier
couvade
covalence
covariance
cove
coven
covenant
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cowlick
cowling
cowman
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cowpoke
cowpox
cowpuncher
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cowslip
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coxswain
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coyotillo
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cozenage
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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
crackeware
crackling
cracknel
crackpot
cracksman
cradle
cradesong
cradling
craft
craft union
craftsman
craftwork
crafty
crag
craggy
craggsman
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
cranio-
craniology
craniometer
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

creatine

creatinine

creation

creationism

creative

creative imagination

creativity

creator

creatural

creature

creature comforts

creaturely

credence

credendum

credent

credential

credenza

credibility gap

credible

credit

credit account

credit card

credit insurance

credit life insurance

credit line

credit man

credit rating

credit slip
credit standing
credit union
creditable
creditor
credits
credo
credulity
credulous
creed
creek
creel
creep
creeper
creepie
creeping Jennie
creeping bent grass
creeps
creepy
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crepe hair
crepe paper
crepe rubber
crepitate
crept
crepuscular
crepuscular light
crepuscule
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crescent
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cricket
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dessertspoon
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destitute
destitution
destrier
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destructible
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destructive distillation
Destructor
Desuetude
Desulphurize
Desultory
Detach
Detached
Detachment
Detail
Detail drawing
Detail man
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Detain
Detainer
Detect
Detection
Detective
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Detent
Detention
Detention home
Deter
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detoxify
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detumescence
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deus ex machina
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deuterogamy

deuteron
deutoplasm
deutzia
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devaluate
deviation

deviate
deviation

deviationism

device
devil
devil's advocate
devil's darning needle

devil's food cake

devil's grip
devil's tattoo
devil-may-care
deviled
devilfish
devilish
devilkin
devilment
devilry
deviltry
devious
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deviscal
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devisee
devisor
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devoirs
devolution
devolve
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devotee
devotion
devotional
devour
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- dextrogyrate
- dextrorotation
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- dextrous
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- dg
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- dharna
- dhobi
- dhole
- dhoti
- dhow
- dhyana
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- diabolism
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- diadromous
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dial telephone
dial tone
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dialect geography
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dialecticism
dialectics
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diamond drill
diamond jubilee
diamond point
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diamondback rattlesnake
diamondback terrapin
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dianthus
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diapause
diapedesis
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diaper rash
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diatrope
diatropism
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diazole
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dibulcaine
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dicentra
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dichagei
dichlamydeous
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dichogamy
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differential equation
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differential operator
differential psychology
differential windlass
differentiate
differentiation
difficile
difficult
difficulty
difidence
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diffuser
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digastric
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digester
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diggings
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dildo
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dilettantism
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dillydally
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diminution
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dining hall
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dinner dress
dinner jacket
dinner plate
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dioptrics
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diorite
dioxide
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diplococcus
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diplomate
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diplomatic immunity
diplomatic pouch
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dipsomaniac
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direct action
direct current
direct distance dialing
direct evidence
direct lighting
direct mail
direct object
direct primary
direct tax
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direction finder
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directive
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directorate
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dirham
dirigible
dirk
dirndl
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dirt-cheap
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disability
disability clause
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disable-disabled
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disbelieve
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disburden
disburse
disbursement
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disc jockey
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discernment
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disciple
disciplinant
disciplinarian
disciplinary
discipline
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disclaimer
disclamation
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disclose
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discobolus
discography
discoid
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discomfiture
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discompose
discomposure
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discontinuation
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discontinuity
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discordance
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disfeature
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disfigurement
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disharmony
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disjoined
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disjunction
disjunctive
disjuncture
disk
disk harrow
disk-seal tube
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dislimn
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dislocation
dislodge
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disloyalty
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disruption
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distillery
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dithyrambic
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ditty box
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diuretic
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diurnal parallax
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diva
divagate
divalent
divan
divaricate
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dive bomber
dive-bomb
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diversion
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diverticulosis
diverticulum
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divertissement
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divestiture
divi-divi
divide
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divider
dividers
divination
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divine healing
divine office
divine service
diviner
diving beetle
diving bell
diving board
diving boat
diving suit
diving rod
divinity
divinity school
divinize
divisibility
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division algebra
division sign
divisionism
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divisor
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divorcement
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divulge
divulgence
divulsion
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dizen
dizzy
djebel
dk.
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dlr.
dlvy.
dm
do
do away with
do by
do for
do in
do over
do up
do with
do without
do-all
do-gooder
do-goodism
do-it-yourself
do-nothing
do-nothingism
do-or-die
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doable
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dobby
dobla
dobsonfly
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doch-an-dorrach
docile
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dockage
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dockhand
dockyard
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doctorate
doctrinaire
doctrinal
doctrinal theology
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doer
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doeskin
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dog Latin
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
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dog-eared
dog-eat-dog
dog-tired
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dogberry
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doomsday
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doyenne
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dragster
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drapery
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draughty
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draw in
draw off
draw on
draw out
draw poker
draw up
drawback
drawbar
drawbridge
drawee
drawer
drawers
drawing
drawing account
drawing board
drawing card
drawing pin
drawing room
drawknife
drawl
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drawn work
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drawshave
drawstring
drawtube
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drayage
drayman
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dreadnought
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dream analysis
dream up
dream vision
dreamer
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dreamworld
dreamy
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dredge
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dredger
dredging machine
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dregs
drench
dress
dress circle
dress coat
dress down
dress parade
dress rehearsal
dress shield
dress shirt
dress suit
dress uniform
dress up
dressage
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dressing gown
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dressing sack
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dressy
drew
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driblet
dribs and drabs
dried
dried-up
drier
driest
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drift angle
drift ice
drift net
drift netter
drift tube
driftage
driftter
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drillmaster
drillstock
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drinking fountain
drinking song
drinking water
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drippy
dripstone
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drive at
drive-in
drivel
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driver
driver ant
driver's seat
driveway
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driving wheel
drizzle
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droit
droit des gens
droit du seigneur
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drollery
dromedary
dromond
drone
drongo
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drop black
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drop forge
drop hammer
drop kick
drop leaf
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drop off
drop scene
drop shipment
drop shot
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drugget
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drugstore
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drum majorette
drum out
drumbeat
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drumfish
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drumhead court-martial
drumlin
drummer
drumstick
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drunkard
drunken
drunkometer
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drupelet
druze
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dry battery
dry cell
dry cleaner
dry cleaning
dry distillation
dry dock
dry farming
dry fly
dry goods
dry kiln
dry law
dry martini
dry measure
dry mop
dry nurse
dry offset
dry plate
dry rot
dry run
dry up
dry-bone ore
dry-bulb thermometer
dry-clean
dry-nurse
dry-salt
dryad
dryasdust
dryer
drying
drying oil
dryly
drypoint
drysalt
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dual carriageway
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dual-purpose
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duality
duarchy
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dubbin
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dubiety
dubious
dubitale
dubitation
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dulcimer
dulcinea
dulia
dull
dullard
dullish
dulosis
dulse
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dumb
dumb ague
dumb cluck
dumb show
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dumbfound
dumbhead
dumbstruck
dumbwaiter
dumdum
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dumpish
dumpling
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dumpy
dumpy level
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dunce
dunce cap
dunderhead
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dung
dung beetle
dungaree
dungeon
dunghill
dunite
dunk
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dunnage
dunnite
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duodenum
duodiode
duologue
duomo
duotone
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dupery
dupion
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duplet
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duplex house
duplicate
duplication
duplicator
duplicature
duplicity
dupondius
duppy
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durable
durable goods
duramen
durance
duration
durative
durbar
duress
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fairly
fairway
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fairy ring
fairy tale
fairyland
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faithless
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falconry
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fall through
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fall wind
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false front
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false relation
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falsity
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familiarity
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family court
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family man
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family tree
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farm out
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farmhand
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farrago
farrier
farriery
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father figure
father image
father-in-law
fatherhood
fatherland
fatherless
fatherly
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fatness
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fatuous
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faultfinding
faultless
faulty
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faute de mieux
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favour
favourable
favourite
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field battery
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field event
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field gun
field hockey
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field of vision
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field spaniel
field trial
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fieldstone
fieldwork
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fighting cock
fighting fish
fighting top
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figure of eight
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figure on
figure out
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figure-ground
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figurehead
figurine
figwort
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filature
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filet mignon
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filibuster
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filiform
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filing clerk
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fille de joie
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fillet
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filling station
fillip
fillister
filly
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film library
film pack
film star
filmdom
filmy
filoplume
filose
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filter paper
filter tip
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filthy lucre
filtrate
filtration
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finance company
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finback
finch
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fine-drawn
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finery
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finespun
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finger post
finger wave
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fingerling
fingernail
fingerprint
fingerstall
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fioritura
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fipple flute
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fire alarm
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fire apparatus
fire balloon
fire beetle
fire blight
fire brigade
fire clay
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fire control
fire department
fire drill
fire engine
fire escape
fire extinguisher
fire fighter
fire hydrant
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fire irons
fire marshal
fire opal
fire power
fire red
fire resistance
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fire station
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firedrake
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fireguard
firehouse
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firelock
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fireplug
firepower
fireproof
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firestone
firetrap
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firewood
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fireworks
fireworm
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firing line
firing order
firing pin
firing squad
firkin
firm
firmament
firmer chisel
fim
firry
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first aid
first base
first cause
first class
first cousin
first edition
first estate
first floor
first fruits
first lady
first lieutenant
first mate
first mortgage
first name
first offender
first officer
first person
first post
first principle
first quarter
first reading
first refusal
first sergeant
first string
first water
first-born
first-class
first-day cover
first-degree burn
first-foot
first-nighter
first-rate
firsthand
firstling
firstly
firth
fisc
fiscal
fiscal year
fish
fish and chips
fish cake
fish fry
fish hawk
fish joint
fish ladder
fish louse
fish meal
fish out
fishbolt
fishbowl
fisher
fisherman
fisherman's bend
fishery
fisheye lens
fishgig
fishhook
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fishing rod
fishing smack
fishing tackle
fishmonger
fishnet
fishplate
fishskin disease
fishtail
fishwife
fishworm
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fissile
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five-star
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fixed charge
fixed idea
fixed oil
fixed price
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fixed star
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fixture
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fl. oz.
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flaccid
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flacon
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flag day
flag of convenience
flag of truce
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flag rank
flag-waving
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flagellant
flagellate
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flagellum
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flagrant
flagrante delicto
flagship
flagstaff
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flake white
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flamboyant
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flamenco
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flamethrower
flaming
flamingo
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flare-up
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flash burn
flash card
flash flood
flash gun
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flashbulb
flashcube
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flashgun
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flushing point
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flashover
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flesh wound
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fleshings
fleshly
fleshpots
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fleurette
fleuron
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flexor
flexuosity
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flight deck
flight engineer
flight feather
flight formation
flight path
flight plan
flight recorder
flight simulator
flight strip
flight surgeon
flightless
flighty
flimflam
flimsy
flinch
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flip side
flip-flop
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flipper
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flirtatious
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floatage
floatation
floater
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floating rib
floating stock
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floatstone
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floriculture
florid
florilegium
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flory
flos ferri
floss
flossy
flotage
flotation
flotilla
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flotsam and jetsam
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flouncing
flounder
flour
flour mill
flourish
flourishing
floury
flout
flow
flow chart
flow sheet
flowage
flower
flower girl
flower head
flower power
flower-de-luce
flowerage
flowered
flowerer
floweret
flowering
flowering maple
flowering moss
flowering plant
flowerless
flowerlike
flowerpot
flowery
flowing
flown
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flub
fluctuant
fluctuate
fluctuation
flue
flue pipe
flue stop
flue-cure
fluency
fluent
fluff
fluffy
flugelhorn
fluid
fluid dram
fluid drive
fluid mechanics
fluid ounce
fluid pressure
fluidextract
fluidics
fluidize
fluke
fluky
flume
flummery
flummox
flump
flung
flunk
flunkey
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fluoresce
fluorescein
fluorescence
fluorescent
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fluoric
fluoridate
fluoridation
fluoride
fluorinate
fluorine
fluorite
fluoro-
fluorocarbon
fluorometer
fluoroscope
fluoroscopy
fluorosis
fluorspar
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flurry
flush
fluster
flute
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fluter
fluting
flutist
flutter
flutter kick
flutterboard
fluttery
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fluviatile
fluviomarine
flux
flux density
fluxion
fluxmeter
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fly ash
fly casting
fly gallery
fly rod
fly sheet
fly-by-night
fly-fish
flyaway
flyback
flyblow
flyblown
flyboat
flycatcher
flyer
flying
flying boat
flying bomb
flying boxcar
flying bridge
flying buttress
flying circus
flying column
flying doctor
flying dragon
flying field
flying fish
flying fox
flying frog
flying gurnard
flying jib
flying jib boom
flying lemur
flying lizard
flying machine
flying mare
flying phalanger
flying saucer
flying squad
flying squirrel
flying start
flying wing
flyleaf
flyman
flyover
flypaper
flyspeck
flyte
flytrap
flyweight
flywheel
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fo'c's'le
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foam rubber
foamflower
foamy
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fob off
focal
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focal length
focal plane
focal point
focal ratio
focalize
focus
fodder
foe
foehn
foeman
foetation
foeticide
foetid
foetor
foetus
fog
fog bank
fog bell
fog drip
fog light
fog signal
fogbound
fogbow
fogdog
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foggy
foghorn
fogy
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foie gras
foil
foiled
foilsman
foin
foison
foist
fol.
folacin
fold
fold up
foldaway
foldboat
folded dipole
folder
folderol
folding door
folding money
folia
foliaceous
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food chain
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foodstuff
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fool's cap
fool's errand
fool's gold
fool's paradise
fool's-parsley
foolery
foolhardy
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foolscap
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foot rot
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foot soldier
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forbidden fruit
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forbore
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force majeure
force pump
force-feed
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forced landing
forced march
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forcemeat
forceps
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forcing house
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fordone
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fore edge
fore plane
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fore-and-aft sail
fore-and-after
fore-topgallant
fore-topgallant mast
fore-topmast
fore-topsail
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forebrain
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forest reserve
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forjudge
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forked
forked lightning
forklift
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forlorn hope
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form class
form drag
form genus
form letter
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formal logic
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formalism
formality
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forte-piano
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forthright
forthwith
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fortified wine
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fortissimo
fortitude
fortnight
fortnightly
fortress
fortuitism
fortuitous
fortuity
fortunate
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fortune hunter
fortune-teller
fortuneteller
fortunetelling
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forty-four
forty-niner
fortyish
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forward pass
forward quotation
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foster
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fourpenny
fourscore
foursome
foursquare
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fourth dimension
fourth estate
fourth-class
fourthly
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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
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fractional currency
fractional distillation
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fragmentation
fragmentation bomb
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raise
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frame of reference
frame-up
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franchise
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freak out
freakish
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freckly
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free alongside ship
free association
free balloon
free city
free coinage
free companion
free company
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free enterprise
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free form
free gold
free hand
free house
free list
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free love
free on board
free port
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free rider
free silver
free socage
free speech
free thought
free throw
free trade
free verse
free will
free zone
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freebooter
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freedom
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freedom rider
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front man
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front room
front runner
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fruit fly
fruit knife
fruit salad
fruit sugar
fruit tree
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full dress
full house
full moon
full nelson
full professor
full sail
full score
full stop
full swing
full tilt
full time
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general court-martial
general delivery
general election
general headquarters
general hospital
general linguistics
general of the army
general officer
general paralysis
general partner
general post office
general practitioner
general semantics
general sessions
general staff
general store
general strike
general theory of relativity
generalissimo
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gentle breeze
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gentleman-farmer
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gentlemen's agreement
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germ plasm
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get through
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get-up-and-go
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giant tortoise
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gin rickey
gin rummy
gin sling
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glass snake
glass wool
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glowing
glowworm
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gloze
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gluconeogenesis
glucopeptide
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glucoside
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 glutelin
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 gluten bread
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 gluttonize
 glutinous
 gluttony
 glyceric
 glyceric acid
 glyceride
 glycerin
 glycerinate
 glycerite
 glycerol
 glyceryl
 glyceryl trinitrate
 glycine
 glyco-
 glycogen
 glycoenogenesis
 glycol
 glycolic acid
 glycolysis
 glyconeogenesis
 glycoprotein
 glycoside
 glycosuria
 glyoxaline
 glyph
 glyphography
 glyptic
 glyptics
 glyptodont
 glyptograph
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 gnarl
 gnarled
 gnarly
gnash
gnat
gnatcatcher
gnathic
gnathion
gnathonic
gnaw
gnawing
gneiss
gnome
gnomic
gnomon
gnosis
gnostic
gnotobiotics
gnu
go
go about
go against
go ahead
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
gobang
gobbet
gobble
gobbledegook
gobbledygook
gobbler
goboid
goblet
goblin
go
goby
god
godchild
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goddamned
goddughter
goddess
godfather
godforsaken
godhead
godhood
godless
godlike
godly
godmother
godown
godparent
godroon
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
goldsmith
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
gonian
gonna
gono-
gonococcus
gonocyte
gonophore
gonorrhrea
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
gormand
gormandize
gormless
gorse
gory
gosh
goshawk
gosling
gospel
gospel truth
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gossipmonger
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gossipy
gossoon
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gouge
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gourmet
gout
goutweed
gouty
govern
governance
governess
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government issue
governor
governor general
governorship
gowan
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gown
gownsman
goy
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gr. wt.
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grab bag
grab rope
grabble
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grace note
grace period
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graceless
gracile
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gracious
grackle
grad
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gradation
grade
grade crossing
grade school
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gradient
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gradual
gradualism
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graduate nurse
graduate school
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graduation
gradus
graffito
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grafting
graham
graham cracker
graham flour
grain
grain alcohol
grain elevator
grained
grainfield
grain of paradise
grainy
grallatorial
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gram calorie
gram equivalent
gram molecule
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grammalogue
grammar
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grammatical meaning
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grampus
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granary
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grand duchess
grand duchy
grand duke
grand jury
grand larceny
grand mal
grand opera
grand piano
grand slam
grand tour
grand vizier
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grandam
grandaunt
grandchild
granddad
granddaddy
granddaughter
grande dame
grandee
grandeur
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grandfather clause
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grandfatherly
grandiloquence
grandiloquent
grandioso
grandma
grandmamma
grandmother
grandmotherly
grandnephew
grandniece
grandpa
grandpapa
grandparent
grandsire
grandson
grandstand
granduncle
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grangerize
grani-
granite
graniteware
granitite
granivorous
granny
granny knot
grano-
granophyre
grant
grant-in-aid
grantee
grantor
granular
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granulation tissue
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granulite
granulocyte
granuloma
granulose
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grape hyacinth
grape sugar
grapefruit
grapery
grapeshot
grapevine
graph
graph paper
grapheme
graphemics
graphic
graphic arts
graphics
graphite
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graphology
graphomotor
grapnel
garpa
grapple
grapple plant
grappling
grappling iron
graptolite
grasp
grasping
grass
grass cloth
grass court
grass hockey
grass roots
grass snake
grass tree
grass widow
grass-green
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grasshopper
grassland
grassplot
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gravestone
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gravitative
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gravity cell
gravity dam
gravity fault
gravity knife
gravity wind
gravure
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gray eminence
gray fox
gray market
gray matter
gray wolf
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graybeard
grayish
grayling
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grazing
grease
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greasewood
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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-grandaunt
great-granduncle
great-nephew
great-niece
great-uncle
greatcoat
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greatest common divisor
greathearted
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greenroom
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greenshank
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greenwood
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greybeard
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grid variation
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grommet
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groomsman
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grooving plane
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grope
groping
gros de Londres
gros point
grosbeak
groschen
grosgrain
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gross profit
gross ton
gross weight
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ground bait
ground bass
ground beetle
ground cherry
ground cloth
ground cover
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ground ice
ground ivy
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ground plate
ground plum
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ground rule
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ground water
ground wave
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groundhog
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group insurance
group marriage
group practice
group therapy
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grow up
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growing pains
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growth hormone
growth ring
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guard ring
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guardrail
guardroom
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guberniya
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guerrilla
guess
guess-rope
guess-warp
guesstimate
guesswork
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guest rope
guesthouse
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gullet
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gully
gulosity
gulp
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gum ammoniac
gum arabic
gum benzoin
gum dammar
gum elastic
gum elemi
gum plant
gum resin
gum up
gumbo
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gumdrop
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gummosis
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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
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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
gunsmit

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gutsy
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guttural
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gynaecomastia
gynandromorph
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gynecocacy
gynecoid
gynecologist
gynecology
gyniatrics
gyno-
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gynophore
gyp
gyp joint
gypsophila
gypsum
gypsy moth
gyral
gyrate
gyration
gyratory
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gyrifalcon
gyro
gyro horizon
gyro-
gyrocompass
gyromagnetic
gyromagnetic ratio
gyron
gyronny
gyroplane
gyroscope
gyrose
gyrostabilizer
gyrostat
gyrostatic
gyrostatic compass
gyrostatics
gyrus
gyve
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ha'penny
ha-ha
haaf
haar
habanera
habeas corpus
haberdasher
haberdashery
habergeon
habile
habiliment
habilitate
habit
habit-forming
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habitancy
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habitation
habited
habitual
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haematozoon
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haemorrhage
haemostasis
haemostat
haemostatic
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hafiz
hafnium
haft
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hagberry
hagbut
hagfish
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haggard
haggis
haggle
hagiarchy
hagio-
hagiocracy
hagiographer
hagiography
hagiolatry
hagiology
hagioscope
hagride
hah
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
hairstyle
hairdresser
hairless
hairline
hairpiece
hairpin
hairsplitter
hairsplitting
hairspring
hairstreak
hairstyle
hairtail
hairworm
hairy
hajj
hajji
hake
hakim
hal-
halation
halberd
hale
hale
half
half blood
half boot
half brother
half cadence
half crown
half deck
half dollar
halite
halitosis
hall
hallah
hallelujah
halliard
hallmark
hallo
halloo
hallow
hallowed
hallucinate
hallucination
hallucinatory
hallucinogen
hallucinosis
hallux
hallway
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halogen
halogenate
haloid
halophyte
halothane
halt
halter
halting
halutz
halvah
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halves
halyard
ham
hamadryad
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hamartia
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
hanaper
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
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handedness
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handful
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handgun
handhold
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handicraftsman
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handiness
handiwork
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hang out
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hanging post
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hanging wall
hangman
hangnail
hangout
hangover
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hanker
hankering
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hanuman
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happening
happenstance
happily
happiness
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happy hunting ground
happy-go-lucky
hapten
hara-kiri
harangue
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harmonist
harmonium
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harmony
harmotome
harness
harness cask
harness hitch
harness race
harnessed antelope
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harper
harping
harpist
harpoon
harpoon gun
harpsichord
harpy
harpy eagle
harquebus
harquebusier
harridan
harrier
harrow
harrumph
harry
harsh
harslet
hart
hart's-tongue
hartal
hartebeest
hartshorn
harum-scarum
haruspex
haruspicy
harvest
harvest home
harvest mite
harvest moon
harvest mouse
harvester
harvestman
has
has-been
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haslet
hasn't
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hassle
hassock
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hat trick
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hatbox
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hatchet job
hatchet man
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hatchment
hatchway
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hatred
hatter
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hauberk
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haughty
haul
haul off
haul up
haulage
hauler
haulm
haunch
haunch bone
haunt
haunted
haunting
hausfrau
haustellum
haustorium
haut monde
hautbois
hautboy
haute couture
haute cuisine
hauteur
have
have at
have on
have-not
havelock
haven
haven't
haver
haversack
haversine
havildar
havoc
haw
hawk
hawk moth
hawk owl
hawk's-beard
hawk's-eye
hawk-eyed
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hawker
hawkking
hawksbill turtle
hawkshaw
hawkweed
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hawse bag
hawsehole
hawsepipe
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hawser-laid
hawthorn
hay
hay fever
haycock
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health physics
healthful
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hearing
hearing aid
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heart cherry
heart failure
heart murmur
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heart-stricken
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heart-warming
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heartbreaker
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heartwood
heartworm
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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 grass
heath hen
heathberry
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heathenism
heathenize
heathenry
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heating pad
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heaviness
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heavy bomber
heavy cream
heavy cruiser
heavy earth
heavy hydrogen
heavy spar
heavy water
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heavy-hearted
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hector
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helping hand
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helpmeet
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hematite
hemato-
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hemicordate
hemicrania
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hemielytron
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hemiplegia
hemipode
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hemispheroid
hemistich
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hemline
hemlock
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herbalist
herbarium
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herby
herculean
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herpetology
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herring gull
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hierology
hierophant
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higgledy-piggledy
higgler
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high and mighty
high blood pressure
high camp
high comedy
high command
high commissioner
high day
high explosive
high fashion
high fidelity
high frequency
high hat
high jinks
high jump
high jumper
high noon
high place
high point
high priest
high relief
high school
high schooler
high sea
high seas
high sign
high society
high spirits
high spot
high table
high tea
high tide
high time
high treason
high water
high wire
high-angle fire
high-class
high-colored
high-flown
high-grade
high-handed
high-hat
high-key
high-keyed
high-minded
high-muck-a-muck
high-octane
high-pitched
high-powered
high-pressure
high-priced
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
hobble skirt
hobbledehoy
hobby
hobbyhorse
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hokey-pokey
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holdup
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hole in one
hole up
hole-and-corner
holeproof
holiday
holier-than-thou
holily
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holism
hollandaise sauce
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hollow-eyed
holly
holly fern
hollyhock
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holus-bolus
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holy day
holy of holies
holy orders
holy place
holy rood
holy synod
holy war
holy water
holystone
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home economics
home guard
home plate
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honeybee
honeybunch
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honky-tonk
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honor point
honor roll
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hooded crow
hooded seal
hoodlum
hoodman-blind
hoodoo
hoodwink
hooey
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hoof-and-mouth disease
hoofbeat
hoofbound
hoofed
hoofer
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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
hophead
hoplite
hopper
hopping
hopple
hopscotch
hoptoad
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horary
horde
hordein
horehound
horizon
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horizontal bar
horizontal stabilizer
horizontal union
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hormonal
hormone
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horn in
horn of plenty
horn silver
horn-mad
hornbeam
hornbill
hornblende
hornbook
horned
horned lizard
horned owl
horned poppy
horned pout
horned screamer
horned toad
horned viper
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hornet's nest
hornpipe
hornstone
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hornwort
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horrendous
horrible
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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
horsely
horsehair
horsehide
horselaugh
horseleech
horsemanship
horseplay
horsepower
horsepower-hour
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horseshit
horseshoe
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hospital corner
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hot buttered rum
hot cake
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hot cross bun
hot dog
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hot metal
hot money
hot pants
hot pepper
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hot rod
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hot spring
hot stuff
hot war
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hot-cathode tube
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hot-tempered
hot-water bag
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hothouse
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hour angle
hour circle
hour hand
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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
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hydrocellulose
hydrocephalus
hydrochloric acid
hydrochloride
hydrocortisone
hydrocyanic acid
hydrodynamic
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hydroelectric
hydrofluoric acid
hydrofoil
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hydrogen bomb
hydrogen bromide
hydrogen chloride
hydrogen cyanide
hydrogen fluoride
hydrogen iodide
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hyperfine structure
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leucotomy
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leukoderma
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level line
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levirate
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lex non scripta
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liberal arts
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liberticide
libertinage
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libidinous
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librarian
librarianship
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library binding
library edition
library paste
library science
librate
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libratory
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libriform
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license plate
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licking
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lieutenant
lieutenant colonel
lieutenant commander
lieutenant general
lieutenant governor
lieutenant junior grade
life
life belt
life buoy
life cycle
life expectancy
life history
life instinct
life jacket
life mask
life net
life preserver
life raft
life science
life span
life table
life vest
life-and-death
life-giving
life-or-death
life-size
lifeblood
lifeboat
lifeguard
lifeless
lifelike
lifeline
lifelong
lifer
lifesaver
lifesaving
lifetime
lifework
lift
lift pump
lift-off
lifting body
ligament
ligamentous
ligan
ligate
ligation
ligature
liger
light
light air
light bomber
light breeze
light bulb
light cream
light cruiser
light heavyweight
light horse
light into
light meter
light music
light opera
light out
light quantum
light show
light up
light verse
light-fingered
light-footed
light-headed
light-hearted
light-year
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lightening
lighter
lighterage
lighterman
lightface
lighthearted
lighthouse
lighting
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lightless
lightly
lightness
lightning
lightning arrester
lightning bug
lightning conductor
lightning rod
lightproof
lights
lights out
lightship
lightsome
lightweight
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ligneous
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lignum vitae
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like-minded
likelihood
likely
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likewise
liking
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lilac
liliaceous
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lily
lily iron
lily of the valley
lily pad
lily-livered
lily-trotter
lily-white
lima bean
limacine
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limbate
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limbic
limbo
limbus
lime
lime burner
limeade
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limewater
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limit point
limit switch
limitary
limitation
limitative
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limited company
limited edition
limited liability
limited monarchy
limited payment insurance
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line drawing
line drive
line engraving
line gauge
line of battle
line of credit
line of fire
line of force
line of position
line of scrimmage
line of sight
line of vision
line squall
line storm
line storm
line-of-battle ship
line-up
lineage
lineal
lineament
linear
linear accelerator
linear algebra
linear measure
linear perspective
linear programming
linearity
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linebacker
linebreeding
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linesman
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link motion
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lintwhite
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lion's share
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lionfish
lionhearted
lionize
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lip reading
lip service
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litterbug
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little finger
little hours
little man
little office
little owl
little people
little slam
little theater
littlest
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litz wire
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live load
live oak
live steam
live together
live wire
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livelong
lively
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liver extract
liver fluke
liver sausage
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liverwort
liverwurst
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livery stable
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living death
living picture
living room
living wage
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loan office
loan shark
loan translation
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lobelia
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loblolly
loblolly boy
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lobster trick
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local color
local government
local option
local oscillator
local time
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lock step
lock stitch
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locker plant
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lockjaw
lockout
locksmith
lockup
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loco disease
locoism
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locomotion
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log chip
log line
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lollipop
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lone hand
lone wolf
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loner
lonesome
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long account
long arm
long cross
long distance
long dozen
long face
long haul
long horse
long house
long hundredweight
long johns
long jump
long measure
long moss
long pig
long primer
long shot
long suit
long tom
long ton
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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longitudinal
longitudinal wave
longleaf pine
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longship
longshore
longshoreman
longsome
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longways
longwise
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look forward to
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look over
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look up
look-in
look-see
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looking glass
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loony bin
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loop knot
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loophole
love
love affair
love apple
love child
love feast
love game
love knot
love letter
love match
love nest
love potion
love seat
love set
love-in-a-mist
love-in-idleness
love-lies-bleeding
lovebird
lovegrass
loveless
lovelock
lovelorn
lovely
lovemaking
lover
loverly
lovesick
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loving
loving cup
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low brass
low camp
low comedy
low explosive
low frequency
low pitch
low profile
low relief
low tide
low water
low-down
low-grade
low-key
low-minded
low-necked
low-pitched
low-pressure
low-spirited
low-tension
low-water mark
lowborn
lowboy
lowbred
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lower case
lower chamber
lower class
lower criticism
lower deck
lower house
lower world
lower-case
lowerclassman
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lowest common multiple
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lowlife
lowly
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loyalty
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lyme grass
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lymph cell
lymph gland
lymphadenitis
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lymphoid
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lymphosarcoma
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lythraceous
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maccaboy
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machination
machine
machine bolt
machine gun
machine language
made
made-up
mademoiselle
madhouse
madly
madman
madness
madras
madrepore
madrigal
madrigalist
maduro
madwort
maelstrom
maenad
maestoso
maestro
maestro di cappella
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magdalen
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maggot
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magic carpet
magic lantern
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magician
magisterial
magistery
magistracy
magistral
magistrate
magma
magna cum laude
magnanimity
magnanimous
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magnesia
magnesite
magnesium
magnesium oxide
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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
magnetics
magnetism
magnetite
magnetize
magneto
magneto-
magnetochemistry
magnetoelectricity
magnetograph
magnetohydrodynamics
magnetometer
magnetomotive
magnetomotive force
magneton
magnetostriction
magnetron
magnific
magnification
magnificence
magnificent
magnifico
main body
main course
main deck
main line
main yard
main-topmast
mainland
mainly
mainmast
mainsail
mainsheet
mainspring
mainstay
mainstream
maintain
maintenance
maintop
maiolica
maisonette
maître d'hôtel
maize
majestic
majesty
majolica
major
major axis
major general
major league
major mode
major orders
major planet
major premise
major scale
major triad
major-domo
majordomo
majorette
majority
majuscule
make
make believe
make for
make off
make out
make over
make-believe
make-peace
makefast
maker
makeshift
makeup
makeweight
making
makings
mako
mal de mer
mal du pays
mal-
mala fide
mala fides
malachite
malaco-
malacology
malacostracan
maladapted
maladjusted
maladjustment
maladminister
maladroit
malady
malaguena
malaise
malamute
malapert
malapropism
malapropos
malar
malaria
malarkey
malcontent
male
maleate
maledict
malediction
malefaction
malefactor
malefic
maleficence
maleficent
maleic acid
malemute
malevolent
malfeasance
malformation
malfunction
malic acid
malice
malice aforethought
malicious
malign
malignancy
malignant
malignity
malines
maling
malison
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mallard
malleable
malleable iron
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mallemuck
malleolus
mallet
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mallow
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malmsey
malnourished
malnutrition
malocclusion
malodorous
malonic acid
malonylurea
malpighiaceous
malposition
malpractice
malt
malt extract
malt liquor
maltase
malted milk
maltha
maltose
maltreat
malvaceous
malvasia
malversation
malvoisie
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mama
mama's boy
mamba
mambo
mamelon
mamey
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mammal
mammalian
mammalogy
mammary
mammary gland
mammet
mammiferous
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
management
manager
managerial
managing
managing editor
manakin
manana
manas
manatee
manchineel
manciple
mandamus
mandarin
mandate
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mandragora
mandrake
mandrel
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manganate
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manifest
manifestation
manifestative
manifesto
manifold
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manipular
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manipulator
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manometer
manor
manor house
manpower
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mansard
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manservant
mansion
manslaughter
manslayer
manstopper
mansuetude
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manteau
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mantelletta
mantellone
mantelpiece
manteltree
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mantilla
mantis
mantis shrimp
massive
massotherapy
massy
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mastaba
mastectomy
master
master hand
master key
master of ceremonies
master of foxhounds
master sergeant
master stroke
master's degree
master-at-arms
masterful
masterly
mastermind
masterpiece
mastership
mastersinger
masterstroke
masterwork
mastery
masthead
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masticatory
mastiff
mastigophoran
mastitis
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mastodon
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mastoiditis
masturbate
masturbation
masurium
mat
matador
match
matchboard
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matter-of-fact
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mattress
maturation
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maudlin
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maxwell
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mayest
mayflower
mayfly
mayhap
mayhem
mayn't
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mayor
mayoralty
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meadow lily
meadow mouse
meadow mushroom
meadow rue
meadow saffron
meadowlark
meadowsweet
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meagre
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mealtine
mealworm
mealy
mealmouthed
mechanical engineering
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mechanics
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mechanist
mechanistic
mechanize
mechanotherapy
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medal play
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mediation
mediative
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mediator
mediatorial
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medicable
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medical examiner
medical jurisprudence
medicament
medicate
medication
medicinal
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medicine ball
medicine man
medick
medico
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medieval
medievalism
medievalist
mediocre
mediocrity
meditate
meditation
medium
medium bomber
medium frequency
medium of exchange
medium shot
medius
medlar
medley
medulla
medulla oblongata
medullary
medullary sheath
medullated
medusa
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microscopy
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military law
military march
military pace
military police
military school
military science
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mineral pitch
mineral spring
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mineral water
mineral wax
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minor key
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minor orders
minor planet
minor premise
minor scale
minor term
minor triad
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mock orange
mock sun
mock turtle soup
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mock-up
mockery
mockingbird
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moderate gale
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morning coat
morning dress
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morning loan
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mountain goat
mountain laurel
mountain lion
mountain range
mountain sheep
mountain sickness
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mountainous
mountainside
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mourners' bench
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mourning dove
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mouse deer
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mousebird
mouser
mousetail
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mousseline de soie
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mouthwash
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mud hen
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music drama
music hall
music of the spheres
music paper
music roll
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musical box
musical chairs
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mutual fund
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nail file
nail polish
nail set
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nailbrush
nailhead
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naivete
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name day
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national debt
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national income
national park
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natterjack
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natural child
natural childbirth
natural death
natural gas
natural gender
natural history
natural language
natural law
natural number
natural philosophy
natural realism
natural resources
natural right
natural rubber
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natural selection
natural theology
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nature worship
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navy blue
navy plug
navy yard
nawab
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naya paisa
ne plus ultra
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neap tide
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near beer
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near rhyme
near thing
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neediness
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neuritis
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neurogram
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office-block ballot
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photoelectric effect
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physical examination
physical geography
physical jerks
physical medicine
physical optics
physical science
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pillion
pilliwinks
pillory
pillow
pillow block
pillow lace
pillow sham
pillowcase
pilocarpine
pilose
pilot
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
pimento
pimiento
pimp
pimpernel
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pimply
pin
pin curl
pin down
pin money
pin rail
pin wrench
pinafore
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pinball machine
pince-nez
pincer
pincers
pinch
pinch bar
pinch effect
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pinch-hit
pinchbeck
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pinchpenny
pincushion
pindling
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pine cone
pine marten
pine needle
pine snake
pine tar
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pineal body
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pineapple
pinery
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pinion
pinite
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pink slip
pinkeye
pinkie
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pins and needles
pinstripe
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pint-size
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pintle
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pinwheel
pinwork
pinworm
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piny
pion
pioneer
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pip
pip-squeak
pipage
pipe
pipe clay
pipe cleaner
pipe dream
pipe of peace
pipe organ
pipe up
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piperonal
pipestone
pipette
piping
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pipsissewa
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piracy
piragua
piranha
pirate
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pitcher plant
pitchfork
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pitchman
pitchstone
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piteous
pitfall
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pith helmet
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pithos
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pitiful
pitiless
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piton
pitsaw
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pittance
pitter-patter
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place setting
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placentation
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plane polarization
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plane tree
plane trigonometry
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planimetry
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planometer
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plant kingdom
plant louse
plant pathology
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plantain-eater
plantar
plantation
planter
planula
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play down
play on
play on words
play out
play up
play with
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playbook
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player piano
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playing field
playlet
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ploughman
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plover
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plowboy
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plowshare
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pluck up
pluckless
plucky
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plug in
plug-ugly
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pocky
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pocosin
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podagra
poddy
podesta
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podiatry
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podium
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poesy
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poetaster
poetess
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poetic license
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poinsettia
point
point d'appui
point duty
point group
point lace
point of articulation
point of departure
point of honor
point of order
point of view
polarity
polarization
polarize
polarizing microscope
polder
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pole vault
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poleaxe
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polestar
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police action
police car
police court
police dog
police officer
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policeman
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political economy
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pool
pool hall
pool table
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poop
poop deck
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poor boy
poor law
poorhouse
poorly
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pop art
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pop-up
popcorn
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popery
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populace
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popular etymology
popular front
popular music
popular song
popular sovereignty
popularity
popularize
popularly
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population explosion
populous
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porcine
porcupine
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post-obit
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pot marigold
pot roast
pot shot
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pound net
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poundage
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pourboire
pourparler
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poussetter
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pouter
poverty
poverty-stricken
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powder
powder blue
powder burn
powder charge
powder flask
powder horn
powder keg
powder metallurgy
powder mill
powder monkey
powder puff
powder room
powder snow
powdered milk
powdery
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power brake
power dive
power drill
power line
power loading
power of appointment
power of attorney
power pack
power plant
power politics
power saw
power series
power station
power steering
power structure
power supply
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prerogative
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presbytery
preschool
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prescind
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prescription
prescriptive
preselector
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present arms
present participle
present perfect
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preventive
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prevision
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prewar
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price-fixing
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prickly
prickly heat
prickly pear
prickly poppy
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prie-dieu
prier
priest
priest-ridden
priestcraft
priestess
priesthood
priestly
prig
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prima donna
prima facie
prima facie evidence
primacy
primal
primarily
primary
primary accent
primary cell
primary color
primary election
primary school
primary stress
primary syphilis
primate
primateship
primatology
primavera
prime
prime cost
prime meridian
prime minister
prime mover
prime number
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primero
primeval
primine
priming
primipara
primitive
primitivism
primo
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primogenitor
primogeniture
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primordium
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primrose
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primula
primulaceous
primum mobile
primus
primus inter pares
prince
prince consort
prince regent
prince's-feather
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princess
princess royal
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procarp
procathedral
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prodigious
prodigy
prodrome
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producer
producer gas
producer goods
product
production
production line
productive
proem
profanatory
profane
profanity
profess
professed
profession
professional
professionalism
professionalize
professor
professorate
professoriate
professorship
proffer
proficiency
proficient
profile
profile drag
profit
profit and loss
profit sharing
profit-sharing
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queen olive
queen post
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real presence
real property
real wages
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rhinoceros beetle
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rhinoscopy
rhizo-
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rhotacism
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rhumb line
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rhyme royal
rhyme scheme
rhymester
rhyming slang
rhynchocephalian
rhyolite
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rhythm-and-blues
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ribosomal RNA
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ribwort
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rice paper
ricebird
rifling
rift
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rig out
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rigadoon
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rigger
rigging
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right
right angle
right ascension
right away
right field
right hand
right of way
right off
right triangle
right whale
right wing
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ring ouzel
ring road
ring up
ring-necked
ring-necked pheasant
ring-tailed
ring-tailed cat
ringdove
ringed
ringed plover
ringent
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ringleader
ringlet
ringmaster
ringside
ringster
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ringworm
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riot
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rip cord
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road hog
road metal
road show
road test
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roaster
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rob
robalo
robard
robber
robber fly
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robbin
robe
robe-de-chambre
robin
robin's-egg blue
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roble
robomb
roborient
robot
robot bomb
robot pilot
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robust
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rock bass
rock bottom
rock brake
rock candy
rock crystal
rock dove
rock garden
rock lobster
rock oil
rock pigeon
rock plant
rock salt
rock wool
rock-and-roll
rock-bottom
rock-bound
rock-ribbed
rockabilly
rockaway
rockbound
rocker
rocker arm
rockery
rocket
rocket bomb
rocket engine
rocket gun
rocket launcher
rocketeer
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rockfish
rocking chair
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root cellar
root hair
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root position
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rose acacia
rose apple
rose beetle
rose campion
rose engine
rose geranium
rose mallow
rose moss
rose of Jericho
rose of Sharon
rose quartz
rose water
rose window
rose-water
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rosebay
rosebud
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rosemary
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rough diamond
rough stuff
rough up
rough-and-ready
rough-and-tumble
rough-dry
rough-hew
rough-spoken
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round clam
round dance
round hand
round lot
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round robin
round table
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round-the-clock
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rove beetle
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royal duke
royal fern
royal flush
royal jelly
royal palm
royal poinciana
royal purple
royal road
royal standard
royal tennis
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sable antelope
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sacreligious
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saddle blanket
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saddle roof
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safe period
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safeguard
safekeeping
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safety bicycle
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safety match
safety pin
safety razor
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sailing boat
sailing ship
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sailor suit
sailor's-choice
sailplane
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sainthood
saintly
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sal volatile
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salad days
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salamander
salami
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sales promotion
sales resistance
sales talk
sales tax
salesclerk
salesgirl
salesman
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saleswoman
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sanctimonious
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sand castle
sand crack
sand dab
sand dollar
sand flea
sand hopper
sand lance
sand lizard
sand martin
sand painting
sand trap
sand-blind
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sandbank
sandblast
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sandpiper
sandpit
sandstone
sandstorm
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sandwich board
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sandy
sandy blight
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sauerkraut
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saunter
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saurian
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sauropod
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sausage
saut de basque
sauterne
sauve qui peut
savage
savagery
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savanna
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save-all
saveloy
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savings account
savings and loan association
savings bank
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saviour
savoir-faire
savoir-vivre
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saw palmetto
saw-toothed
sawbuck
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scapegoat
scapegrace
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scarecrow
scaremonger
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scarfskin
scarification
scarificator
scarify
scarlatina
scarlet
scarlet fever
scarlet hat
scarlet letter
scarlet pimpernel
scarlet runner
scarlet tanager
scarlet woman
scarp
scarer
scary
scat
scat singing
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scatology
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scatter pin
scatter rug
scatterbrain
scattering
scaup duck
scauper
scavenge
scavenger
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scene dock
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schmuck
schnapps
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schnitzel
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schnorkle
schnorrer
schnozzle
schola cantorum
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scholarship
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scholiast
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school age
school board
school year
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schoolmistress
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schooner
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schottische
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science fiction
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scintillation
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scintillator
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sciolism
sciomachy
sciomancy
scion
scorch
scorcher
score
scoreboard
scorecard
scorekeeper
scoria
scorify
scorn
scornful
scorpaeid
scorpaeoid
scorper
scorpiion
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scot-free
scotch
scoter
scotia
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scoundrelly
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scoutmaster
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sculptor
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sea anemone
sea bag
sea bass
sea bird
sea biscuit
sea bream
sea breeze
sea captain
sea chest
sea coal
sea cow
sea devil
sea dog
sea duck
sea eagle
sea elephant
sea fan
sea foam
sea green
sea gull
sea heath
sea holly
sea horse
sea king
sea ladder
sea lavender
sea lawyer
sea legs
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sea perch
sea pink
sea power
sea purse
sea raven
sea robin
sea room
sea rover
sea serpent
sea shell
sea slug
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sea swallow
sea tangle
sea trout
sea turtle
sea urchin
sea wrack
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sea-maid
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search party
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second childhood
second class
second cousin
second estate
second fiddle
second floor
second growth
second hand
second lieutenant
second mate
second mortgage
second nature
second person
second reading
second sight
second string
second thought
second wind
second-best
second-class
second-degree burn
second-guess
second-rate
secondary
secondary cell
secondary color
secondary emission
secondary school
secondary sex characteristic
secondary stress
secondary syphilis
secondhand
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secrecy
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secret agent
secret partner
secret police
secret service
secret society
secretarial
secretariat
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secretary bird
secretary of state
secretary-general
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seed capsule
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seed corn
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seedcase
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seedtime
seedy
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self-abasement
self-abnegation
self-absorbed
self-absorption
self-abuse
self-acting
self-addressed
self-aggrandizement
self-analysis
self-annihilation
self-appointed
self-assertion
self-assurance
self-assured
self-centered
self-command
self-conceit
self-confessed
self-confidence
self-congratulation
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self-consequence
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self-contained
self-content
self-contradiction
self-control
self-deceit
self-deception
self-defense
self-delusion
self-denial
self-deprecating
self-determination
self-devotion
self-discipline
self-drive
self-driven
self-educated
self-effacement
self-effacing
self-employed
self-esteem
self-evident
self-examination
self-excited
self-executing
self-existent
self-explanatory
self-expression
self-fertilization
self-forgetful
self-fulfillment
self-governed
self-government
self-gratification
self-help
self-hypnosis
self-identity
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self-immolation
self-important
self-improvement
self-induced
self-inductance
self-induction
self-indulgent
self-insurance
self-interest
self-justifying
self-knowledge
self-liquidating
self-loading
self-love
self-made
self-mastery
self-mortification
self-moving
self-operating
self-opinionated
self-pity
self-pollination
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self-possession
self-preservation
self-pronouncing
self-propelled
self-propulsion
self-realization
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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
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self-styled
self-sufficient
self-suggestion
self-support
self-supporting
self-sustaining
self-taught
self-will
self-winding
selfheal
selfhood
selfish
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selfness
selfsame
sell
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sensate
sensation
sensational
sensationalism
sense
sense datum
sense organ
sense perception
senseless
sensibility
sensible
sensible horizon
sensillum
sensitive
sensitive plant
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sensitize
sensitometer
sensor
sensorimotor
sensorium
sensory
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sensualism
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sent
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sentry box
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separate
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separates
separation
separatist
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separarator
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sepia
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septarium
septate
septavalent
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septic tank
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sepulcher
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sepulchre
sepulture
seqq.
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serology
serosa
serotherapy
serotine
serotonin
serous
serous fluid
serous membrane
serow
serpent
serpentine
serpigo
serranid
serrate
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serration
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serriform
serrulate
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serum
serum albumin
serum globulin
serum hepatitis
serval
servant
serve
server
service
service book
service ceiling
service medal
service station
service stripe
serviceable
serviceberry
serviceman
servient tenement
serviette
servile
servility
serving
servitor
servitude
servo
servo system
servomechanical
servomechanism
servomotor
sesame
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esquealtera
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sesquioxide
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session
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set about
set against
set aside
set back
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set forth
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set piece
set point
set square
set theory
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set width
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setscrew
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setter
setting
setting-up exercises
settle
settle down
settle for
settle in
settle with
settlement
settler
settling
settings
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
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sewellel
sewer
sewerage
sewing
sewing machine
sewn
sex
sex act
sex appeal
sex chromosome
sex hormone
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sex-limited
sexagenarian
sexagenary
sexagesimal
sexcentenary
sexdecillion
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sexennial
sexism
sexist
sexivalent
sexless
sexology
sexpartite
sexpot
sext
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sextillion
sextodecimo
sexton
sextuple
sextuple time
sextuplet
sextuplicate
sexual
sexual intercourse
sexual reproduction
sexual selection
sexuality
sexy
sf
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shabby
shabby-genteel
shack
shackle
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shadberry
shadbush
shadchan
shaddock
shade
shade tree
shading
shadoof
shadow
shadow play
shadowgraph
shadowy
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shady
shaft
shafting
shag
shagbark
shaggy
shaggy-dog story
shagreen
shah
shake
shake down
shake off
shake up
shake-up
shakedown
shaker
shaking
shaking palsy
shako
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shale
shale oil
shall
shalloon
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shallow
shalom aleichem
shalt
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shaman
shamanism
shamble
shambles
shame
shamefaced
shameful
shameless
shammer
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shawl collar
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she-devil
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sheet anchor
sheet bend
sheet glass
sheet lightning
sheet metal
sheet music
sheet-fed
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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
shipload
shipman
shipmaster
shipmate
shipment
shipowner
shippen
shipper
shipping
shipping ton
shipshape
shipway
shipworm
shipwreck
shipwright
shipyard
shire
shire horse
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shirker
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shirt
shirting
shirtmaker
shirtwaist
shirty
shish kebab
shit
shithead
shittim wood
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shivery
shoal
shoat
shock
shock absorber
shock therapy
shock troops
shock wave
shocker
shockheaded
shocking
shockproof
shod
shoddy
shoe
shoe leather
shoebill
shoebill
shoelace
shoemaker
shoer
shoeshine
shoestring
shofar
shogun
shogunate
shone
shoo
shoo-in
shook
shool
shoon
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
shorward
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
short-cut
short-lived
short-sighted
short-tempered
short-term
short-winded
shortage
shortbread
shortcake
shortcoming
shortcut
shorten
shortening
shortfall
shorthand
shorthanded
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shortly
shorts
shortsighted
shortstop
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
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shout
shout down
shove
shove off
shovel
shovel hat
shovelboard
shoveler
shovelhead
shovelnose
show
show bill
show business
show girl
show of hands
show off
show up
show-off
show-through
showboat
showbread
showcase
showdown
shower
showery
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showiness
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showman
showmanship
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showpiece
showplace
showroom
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shrew mole
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shrewish
shrewmouse
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shrieval
shrievalty
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shift
shrike
shrill
shrimp
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shrink
shrinkage
shrive
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shroud
shroud knot
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shrubbery
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shrug off
shrunk
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shudder
shuddering
shuffle
shuffleboard
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shunt-wound
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sickle feather
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sickness
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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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sideshow
sideslip
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sidestep
sidestroke
sideswipe
sidetrack
sidewalk
sideward
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sidewheel
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sienna
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siesta
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sieve tube
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siftings
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sight bill
sight draft
sight-read
sight-seeing
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sightless
sightly
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siglos
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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
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signification
significative
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similar
similarity
simile
similitude
simitar
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simnel cake
simon-pure
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simonize
simony
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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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simplicity
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simulant
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simulation
simulator
simulcast
simultaneous
simultaneous equations
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sinapism
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sincerity
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sink in
sinkage
sinker
sinkhole
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sinking fund
sinless
sinner
sinter
sinuate
sinuation
sinuosity
sinuous
sinus
sinusitis
sinusoid
sinusoidal
sinusoidal projection
sip
siphon
siphon bottle
siphonophore
siphonostele
sipper
sippet
sir
sir-reverence
sirdar
sire
siren
sirenic
siriasis
sirloin
sirocco
sirrah
sirree
sirup
sis
sisal
siskin
sissified
sissy
sister
sister-in-law
sisterhood
sisterly
sit
sit back
sit down
sit on
sit up
sit-down
sit-down strike
sit-in
sitar
site
sitology
sitter
sitting
sitting duck
sitting room
situate
situated
situation
situation comedy
situla
situs
sitz bath
sitzmark
six
six-eight time
six-footer
six-gun
six-pack
sixfold
sixpence
sixpenny
sixteen
sixteenmo
sixteenth
sixteenth note
sixth
sixth chord
sixth sense
sixtieth
sixty
sixty-four
sixty-fourth note
sixty-nine
sizable
sizar
size
size up
sizeable
sized
sizing
sizzle
sizzler
sjambok
skald
skat
skate
skateboard
skater
skatole
skean
skean dhu
skedaddle
sket
skeg
skein
skeleton
skeleton key
skellum
skelp
skelp
skew
skewback
skewbald
skewer
skewness
ski
ski jump
ski lift
slack water
slack-jawed
slacken
slacker
slacks
slug
slain
slake
slaked lime
slalom
slam
slam-bang
slander
slang
slangy
slant
slant rhyme
slantwise
slap
slap-bang
slap-up
slapdash
slaphappy
slapjack
slapstick
slash
slash pocket
slashming
slat
slate
slater
slather
slating
slattern
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
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
sloth bear
slothful
slotter
slouch
slouch hat
slough
sloven
slovenly
slow
slow march
slow match
slow motion
slow time
slow-moving
slow-witted
slowdown
slowpoke
slowworm
slub
sludge
sludgy
slue
sluff
slug
slugabed
sluggard
sluggish
sluice
slum
slumber
slumber party
slumberland
slumberous
slumgullion
slumlord
slump
slung
slung shot
slunk
slur
slurp
slurry
slush
slush fund
slushy
slut
sly
slype
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
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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
snares
snares 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
snooty
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
socio-
socioeconomic
sociol.
sociolinguistics
sociology
sociometry
sociopath
sock
socket
socket wrench
socle
socman
sod
soda
soda ash
soda biscuit
soda cracker
soda fountain
soda pop
soda water
sodalite
sodality
sodamide
sodden
sodium
sodium bicarbonate
sodium bromide
sodium carbonate
sodium chloride
sodium cyanide
sodium cyclamate
sodium dichromate
sodium fluoride
sodium fluoroacetate
sodium glutamate
sodium hydrosulfite
sodium lamp
sodium nitrate
sodium perborate
sodium peroxide
sodium phosphate
sodium propionate
sodium silicate
sodium sulfate
sodium thiosulfate
sodium-vapor lamp
sodomite
sodomy
soever
sofa
sofa bed
sofar
soffit
soft
soft chancre
soft clam
soft coal
soft drink
soft focus
soft goods
soft landing
soft palate
soft paste
soft pedal
soft rot
soft sell
soft shoulder
soft soap
soft spot
soft touch
soft wheat
soft-boiled
soft-cover
soft-finned
soft-pedal
soft-shell clam
soft-shell crab
soft-shelled turtle
soft-shoe
soft-spoken
softa
softball
soften
soften up
softener
softhearted
software
softwood
softy
soggy
soi-disant
soil
soil bank
soil conservation
soil pipe
soilage
soilure
soiree
sojourn
soke
sol
sol-fa
sol.
sola
solace
solan
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
solférino
solicit
solicitor
solicitor general
solicitous
solicitude
solid
solid angle
solid fuel
solid geometry
solid-state
solid-state physics
solidago
solidarity
solidary
solidify
solidus
solfidian
solfiſtion
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
solvolyysis
soma
somatic
somatic cell
somatist
somato-
somatology
somatoplasm
somatotype
somber
sombrero
sombre
some
somebody
someday
somehow
someone
someplace
somersault
somerset
something
sometime
sometimes
someway
somewhat
somewhere
somewise
somite
sommelier
somnambulate
somnambulation
somnambulism
somnifacient
somniferous
somniloquy
somnolent
son
son of a bitch
son-in-law
sonant
sonar
sonata
sonata form
sonatina
sonde
sone
song
song and dance
song cycle
song form
song sparrow
song thrush
songbird
songful
songster
songstress
songwriter
sonic
sonic barrier
sonic boom
sonic depth finder
sonic mine
sonics
soniferous
sonnet
sonnet sequence
sonneteer
sonny
sonobuoy
sonometer
sonorant
sonority
sonorous
soon
sooner
soot
sooth
soothe
soothfast
soothsay
soothsayer
sooty
sop
sophism
sophist
sophister
sophistic
sophisticate
sophisticated
sophistication
sophistry
sophomore
sophrosyne
sopor
soporific
sopping
soppy
soprano
soprano clef
sora
sorb
sorbitol
sorbose
sorcerer
sorcery
sordid
sordino
sore
sore throat
soredium
sorehead
sorely
sorghum
sorgo
sori
soricine
sorites
sorn
sororate
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
soursop
soursop
sousaphone
source
soutache
soutane
souter
souterrain
south
south by east
south by west
south-southeast
south-southwest
southbound
southeast
southeast by east
southeast by south
southeaster
southeasterly
southeastward
southeastwardly
southeastwards
souther
southerly
southern
southern lights
southernly
southernmost
southing
southland
southpaw
southward
southwards
southwest
southwest by south
southwest by west
southwester
southwesterly
southwestward
southwestwardly
southwestwards
souvenir
sovereign
spate
spathe
spathic
spathose
spatial
spatiotemporal
spatter
spatterdash
spatula
spavin
spavined
spawn
spay
speak
speak for
speak out
speak to
speak up
speakeasy
speaker
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
speos
sperm
sperm oil
sperm whale
spermaceti
spermary
spermatic
spermatic cord
spermatic fluid
spermatid
spermatium
spermatocyt-
spermatocyte
spermatogonium
spermatophore
spermatophyte
spermatozoid
spermatozoon
spermic
spermicide
spermine
spermiogenesis
spermogonium
spermophile
spermophyte
spermous
sperrylite
spessartite
spew
sphacelus
sphagnum
sphalerite
sphene
sphenic
spheno-
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
spherulite
spary
sphincter
sphingosine
sphinx
sphinx moth
sphygmic
sphygmo-
sphygmograph
sphygmoid
sphygmomanometer
spic
spica
spicate
spicatto
spice
spiceberry
spicebush
spick-and-span
spiculate
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spicy
spider
spider crab
spider monkey
spider phaeton
spiderwort
spiderly
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spiffing
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spigot
spike
spike heel
spike lavender
spikelet
spikenard
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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 | Spine | Spinel | Spinel ruby | Spineless | Spinescent | Spinet | Spiniferous | Spinifex | Spinnaker | Spinner | Spinneret | Spinney | Spinning | Spinning jenny | Spinning wheel | Spinode | Spinose | Spinous | Spinster | Spinharioscope | Spinule | Spiny | Spiny anteater | Spiny lobster | Spiracle | Spiraea | Spiral | Spiral galaxy | Spiral staircase | Spirant | Spire | Spirelet | Spireme |
spirillum
spirit
spirit level
spirit rapping
spirit writing
spirited
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spiritless
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spirits of turpentine
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spirituality
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spirt
spirula
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spit
spit and polish
spit curl
spital
spitball
spite
spiteful
spitfire
spitter
spittle
spittle insect
spittoon
spitz
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splash
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
springhead
springhouse
springing
springlet
springtail
springtime
springwood
springy
sprinkle
sprinkler
sprinkler system
sprinkling
sprinkling can
sprint
sprit
sprite
spritsail
sprocket
sprout
spruce
spruce beer
spruce up
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spruik
sprung
sprung rhythm
spry
spud
square deal
square foot
square inch
square kilometer
square knot
square leg
square matrix
square measure
square meter
square mile
square number
square off
square piano
square root
square sail
square shooter
square-rigged
square-rigger
squarely
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squash
squash bug
squash racquets
squashy
squat
squatness
squatter
squatter 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
squirmy
squirrel
squirrel cage
squirrel-tail grass
squirt
squirt gun
squirting cucumber
squish
squishy
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stab
stabile
stability
stabilize
stabilizer
stable
stable fly
stableboy
stableman
stablish
stacc.
staccato
stack
stacked
stacte
stadholder
stadia
stadiometer
stadium
stadholder
staff
staff college
staff of life
staff officer
staff sergeant
staffer
staffman
stag
stag beetle
stage
stage business
stage direction
stage director
stage door
stage fright
stage left
stage manager
stage right
stage screw
stage whisper
stage-manage
stage-struck
stagecoach
stagecraft
stagehand
stagey
staggard
stagger
staggerers
staghound
staging
staging area
stagnant
stagnate
stagy
staid
stain
stained glass
stainless
stainless steel
stair
stair rod
staircase
stairhead
stairs
stairway
stairwell
stake
stake race
stakeout
stalactite
stalag
stalagmite
stale
stalemate
stalk
stalking-horse
stalky
stall
stall-feed
stalling angle
stallion
stalwart
stamen
stamin
stamina
staminody
stammel
stammer
stamp
stamp mill
stamp out
stamped
stamping ground
stance
stanch
stanchion
stand
stand by
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
station agent
station break
station house
station wagon
stationary
stationary engine
stationary wave
stationer
stationery
stationmaster
statism
statist
statistical
statistical mechanics
statistician
statistics
stative
statocyst
statolatry
statolith
stator
statuary
statue
statued
statuesque
statuette
stature
status
status quo
status symbol
statutable
statute
statute book
statute law
statute mile
statute of limitations
statutory
statutory rape
statvolt
staunch
staurolite
stave
stave off
staves
stay
stay-at-home
staying power
stays
staysail
std.
stead
steadfast
steadying
steady
steady state
steak
steakhouse
steal
stealage
stealer
stealing
stealth
stealthy
steam
steam bath
steam engine
steam fitter
steam heat
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
steer
steerage
steerageway
steering committee
steering gear
steering wheel
steersman
steeve
stegodon
stegosaur
stein
steinbok
stela
stel
stellar
stellarator
stellate
stelliform
stellular
stem
stem turn
stemma
stemsen
stemware
stench
stench bomb
stencil
steno-
stereometry
stereophonic
stereophotography
stereopticon
stereoscope
stereoscopic
stereoscopy
stereotaxis
stereotomy
stereotropism
stereotype
stereotyped
stereotypy
steric
sterigma
sterilant
sterile
sterilization
sterilize
sterling
sterling silver
stern
stern sheets
stern-wheeler
sternforemost
sternmost
sternpost
sternson
sternum
sternutation
sternutatory
sternway
steroid
sterol
sterter
sterterous
stet
stethoscope
stevedore
stevedore's knot
stew
steward
stewardess
stewed
stewpan
stg.
stge.
sthenic
stibine
stibnite
stich
stichometry
stichomythia
stick
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
stiletto
still
still hunt
still life
still water
still-hunt
stillage
stillbirth
stillborn
stilliform
stillness
stilly
stilt
stilted
stimulant
stimulate
stimulative
stimulus
sting
stingaree
stinger
stinging hair
stinging nettle
stingo
stingy
stink
stink ball
stink bomb
stinker
stinkhorn
stinking
stinking smut
stinko
stinkpot
stinkstone
stinkweed
stinkwood
stint
stipe
stipel
stipend
stipendiary
stipitate
stipple
stipulate
stipulation
stipule
stir
stir up
stirk
stirpiculture
stirps
stirring
stirrup
stirrup cup
stirrup pump
stitch
stitching
stithy
stiver
stoa
stoat
stob
stochastic
stock
stock car
stock certificate
stock clerk
stock company
stock dividend
stock dove
stock exchange
stock farm
stock horse
stock in trade
stock market
stock option
stock raising
stock saddle
stock-still
stockade
stockbreeder
stockbroker
stockholder
stockinet
stocking
stocking cap
stockish
stockist
stockjobber
stockman
stockpile
stockroom
stocks
stocktaking
stocky
stockyard
stodge
stodgy
stogy
stoic
stoical
stoichiometric
stoichiometry
stoicism
stoke
stoke up
stokehold
stokehole
stoker
stole
stolen
stolid
stolon
stoma
stomach
stomach pump
stomach worm
stomachache
stomacher
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stomatal
stomatic
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stomatology
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
strait
strait-laced
straiten
straitjacket
straitlaced
strake
stramonium
strand
strange
strange particle
strangeness
stranger
strangle
stranglehold
strangles
strangulate
strangulation
strangury
strap
straphanger
strapless
strappado
strapped
strapper
strapping
strata
stratagem
strategic
strategist
strategy
strath
strathspey
strati-
straticulate
stratification
stratificational grammar
stratiform
stratify
stratigraphy
stratocracy
stratocumulus
stratopause
stratosphere
stratovision
stratum
stratus
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straw man
straw vote
straw wine
strawberry
strawberry blonde
strawberry bush
strawberry mark
strawberry tomato
strawberry tree
strawboard
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
streptococcus
streptokinase
streptomycin
streptothricin
stress
stressful
stretch
stretcher
stretcher-bearer
stretchy
stretto
streusel
strew
stria
striate
striated
striation
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stricken
strickle
strict
striction
strictly
striction
stride
strident
stridor
stridulate
stridulous
strife
strigil
strigose
strike
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
stringed
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
strobila
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
strontianite
strontium
strontium 90
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
strumet
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
stung
stunk
stunner
stunning
stunsail
stunt
stunt man
stupa
stupe
stupefacient
stupefaction
stupefy
stupendous
stupid
stupidity
stupor
sturdy
sturgeon
stutter
sty
style
stylet
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stylish
stylist
stylistic
stylite
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stylobate
stylograph
stylographic
stylography
stylolite
stylopodium
stylus
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styptic
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styrax
styrene
suable
suasion
suave
suavity
sub
sub judice
sub rosa
sub-
subacid
subacute
subadar
subalpine
subaltern
subalternate
subantarctic
subaquatic
subaqueous
subarctic
subarid
subassemblage
subastral
subatomic
subaudition
subauricular
subaxillary
subbase
subbasement
subcartilaginous
subcelestial
subjectify
subjection
subjective
subjective idealism
subjectivism
subjoin
subjoinder
subjigate
subjunction
subjunctive
subkingdom
sublapsarianism
sublease
sublet
sublieutenant
sublimatic
sublimation
sublime
subliminal
sublimity
sublingual
sublittoral
sublunar
sublunary
submachine gun
submarginal
submarine
submarine chaser
submariner
submaxillary
submediant
submerge
submerged
submergible
submerse
submersed
submersible
submicroscopic
subminiature
subminiature camera
subminiaturize
submit
submission
submissive
submit
submultiple
subnormal
suboceanic
suborbital
suborder
subordinary
subordinate
subordinate clause
subordinating conjunction
suborn
suboxide
subphylum
subplot
subpoena
subprincipal
subreption
subrogate
subrogation
subroutine
subscapular
subscribe
subscription
subscription television
subsellium
subsequence
subsequent
subserve
subservience
subservient
subset
subshrub
subside
subsidence
subsidiary
subsidiary coin
subsidiary company
subsidize
subsidy
subsist
subsistence
subsistence allowance
subsistence farming
subsistent
subsocial
subsoil
subsoil plow
subsolar
subsonic
subspecies
substage
suburbanize
suburbia
suburbicarian
subvene
subvention
subversion
subversive
subvert
subway
subzero
succedaneum
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succentor
success
successful
succession
successive
successor
succinate
succinct
succinctorium
succinic
succinic acid
succinylsulfathiazole
succor
succory
succotash
succubus
succulent
succumb
succursal
success
succession
such
suchlike
suck
suck in
sucker
suckerfish
sucking
suckle
suckling
sucrase
sucere
sucrose
suction
suction pump
suction stop
suctorial
sudarium
sudatorium
sudatory
sudd
sudden
sudden death
sudor
sudoriferous
sudorific
suds
sue
suede
suet
suet pudding
suffer
sufferable
sufferance
suffering
suffice
sufficiency
sufficient
suffix
sulfate
suffocate
suffragan
suffrage
suffragette
suffragist
suffruticose
suffumigate
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sugar beet
sugar bowl
sugar candy
sugar cane
sugar daddy
sugar loaf
sugar maple
sugar pine
sugar spoon
sugar-coat
sugared
sugarplum
sugary
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suggestibility
suggestible
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sui generis
sui juris
suicidal
suicide
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suitable
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sukiyaki
sukkah
sulcate
sulcus
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sulfamerazine
sulfanilamide
sulfapyrazine
sulfapyridine
sulfate
sulfate paper
sulfate pulp
sulfathiazole
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sulfide
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sulfuric acid
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sultanate
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summa cum laude
summand
summarize
summary
summary court-martial
summation
summer
summer school
summer solstice
summer squash
summerhouse
summerly
summersault
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summerwood
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sumptuary
sumptuary law
sumptuous
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sun bath
sun dance
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sunny side
sunny-side up
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sunrise
sunrise watch
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sunstroke
suntan
sunup
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suo loco
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super
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superabound
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superadd
superaltar
superannuate
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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
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superfuse
supergalaxy
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superheterodyne
superhigh frequency
superhighway
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superimpose
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superincumbent
superinduce
superintend
superintendency
superintendent
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superior court
superior planet
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supernumerary
superorder
superordinate
superorganic
superpatriot
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supplementary angle
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surface mail
surface noise
surface plate
surface structure
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surprise party
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surveyor's chain
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sweet woodruff
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tactics	 tactile
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tailspin	tailstock	tailwind	tain	tain	taint	taintless	taipan	take	take aback	take after	take apart	take back	take down	take for	take in	take off	take on	take out	take over	take to	take up	take-home pay
taphouse
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telecast
telecommunication

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temperature gradient
temperature-humidity index
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temporal bone
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Cape Province
Cape Skagen
Cape Town
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Cape Wrath
Cape York
Cape York Peninsula
Cape aloe
Cape anteater
Cape armadillo
Cape buffalo
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Cape cod turkey
Cape codder
Cape cowslip
Cape doctor
Cape dutch
Cape elk
Cape flyaway
Cape forget-me-not
Cape gooseberry
Cape hottentot
Cape hunting dog
Cape jasmine
Cape magnum
Cape may warbler
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I Ching
I Claudius
I Mech E
I Min E
I am led to believe
I ask you
I beam
I beg you
I beg your pardon
I can't see
I couldn't care less
I daresay
I declare
I don't care
I don't have the first idea
I don't know what
I don't see how
I don't see why
I don't understand
I girder
I give up
I have it
I myself
I never
I pass
I refuse
I should fret
I should worry
I thank you
I thank you very much
I think not
I venture to say
I will no such thing
I will not
I won't
I won't buy it
I"d
I"ll
I"s
I'd
I'll
I'll be
I'll be damned if
I'll be hanged if
I'll be hanged if I will
I'll be jiggered
I'll be seeing you
I'll say
I'll see you in hell first
I'm
I'm not taking any
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India scrim
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India tint
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Italian East Africa
Italian Somaliland
Italian Wars of Independence
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Italian corn salad
Italian cypress
Italian dressing
Italian earth
Italian greyhound
Italian hand
Italian honeysuckle
Italian ice
Italian jasmine
Italian leprosy
Italian ocher
Italian paste
Italian pink
Italian pox
Italian reed
Italian rye grass
Italian school
Italian sixth
Italian sonnet
Italian vermouth
Italian vote
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Ivan Georgiev
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Japan cedar
Japan clover
Japan plum
Japan tallow
Japan tea
Japan wax
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Japanese andromeda
Japanese anemone
Japanese arborvitae
Japanese artichoke
Japanese barberry
Japanese bath
Japanese beetle
Japanese black pine
Japanese burnet
Japanese cedar
Japanese cherry
Japanese chestnut
Japanese clematis
Japanese crab
Japanese deities
Japanese flowering cherry
Japanese garden
Japanese gelatin
Japanese holly
Japanese honeysuckle
Japanese isinglass
Japanese ivy
Japanese lantern
Japanese larch
Japanese laurel
Japanese lawn grass
Japanese leaf
Japanese lily
Japanese maple
Japanese morning-glory
Japanese pagoda tree
Japanese paper
Japanese pear
Japanese persimmon
Japanese quince
Japanese red
Japanese river fever
Japanese silk
Japanese slippers
Japanese spaniel
Japanese spurge
Japanese stranglehold
Japanese tree peony
Japanese wisteria
Japanese wolf
Japanese yew
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Jason Lafreniere
Jasonville
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Java fig
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Java sparrow
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Jay Hebert
Jay Schrodeder
Jay Treaty
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Jean Caujolle
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Jean Harlow
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Jean Jadot
Jean Kibwe
Jean Lafitte
Jean Paul
Jean Perron
Jean Pierre Jabouille
Jean Valjean
Jean de Meung
Jean-Claude
Jean-Loup Chretien
Jean-Pierre Hallet
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Jersey elm
Jersey fir
Jersey lightning
Jersey white giant
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Jerseyman
Jerseyville
Jerubbaal
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Jerusalem Bible
Jerusalem Delivered
Jerusalem artichoke
Jerusalem cherry
Jerusalem corn
Jerusalem cross
Jerusalem date
Jerusalem oak
Jerusalem sage
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Jessabell
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Jesse James
Jesse tree
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Jimmy Demaret
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Joannes
Joannite
Joao
Joao Figueiredo
Joao Neves Dafontoura
Joao Pessoa
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Joaquin
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Joe Cirella
Joe College
Joe Doakes
Joe Dumars
Joe Isuzu
Joe Kleine
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John Cheasty
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John Cirillo
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John Delorean
John Demjanjuk
John Diefenbaker
John Dillinger
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John Doe and Richard Roe
John Dory
John Druce
John Grounouski
John Hancock
John Heimann
John Heintges
John Holschu
John Hushen
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John Killilea
John Knebel
John Knox
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John Macleod
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John Paul I
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John Pomfret
John Q
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John Rushworth
John Smith
John Stuart
John Sununu
John Tonelli
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Johnny Reb
Johnny collar
Johnny darter
Johnny jump
Johnny on the spot
Johnny smokers
Johnny verde
Johnny-come-latelies
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Jose Cortinas
Jose Eduardo dos Santos
Jose Giral
Jose Higuera
Jose Iturbi
Jose Miro Cardona
Jose Napoleon Duarte
Jose Pinheiro de Azevedo
Jose Ramon Guizado
Jose Rio
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Josef Altstoetter
Josef Begun
Josef Ertl
Josef Hermann du Fhues
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Joseph Bonaparte Gulf
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Joseph Charyk
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Julita
Julius
Julius Caesar
Julius Hoste
Julius I
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Julyflower
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Juma Ikangaa
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June beetle
June bug
June drop
June grass
June pink
June sucker
Juneau
Juneberries
Juneberry
Junebud
Junedale
Juneflower
Juneteenth
Junette
Jung
Jung Helge
Junger
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National Academy of Sciences
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National Aviation Day
National Bureau of Standards
National Charter
National Congress
National Convention
National Council
National Country Party
National Covenant
National Enterprise Board
National Front
National Gallery
National Guard
National Health Service
National Industrial Recovery Act
National Labor Relations Act
National Labor Relations Board
National Liberation Front
National Mediation Board
National People's Congress
National Republican Party
National Science Foundation
National Security Council
National Socialism
National Socialist
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National War Labor Board
National Wildlife Service
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North Manchester
North Mankato
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North Ogden
North Olmsted
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North Pelham
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West Country
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West Flanders
West Flemish
West Frankfort
West Frisian
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West Glamorgan
West Glens Falls
West Goth
West Gulfport
West Ham
West Hartford
West Hartlepool
West Haven
West Haverstraw
West Hazleton
West Helena
West Highland
West Highland white terrier
West Homestead
West Indian
West Indian cedar
West Indian gherkin
West Indian kale
West Indian satinwood
West Indies
West Indies Associated States
West Irian
West Linn
West Lothian
West Memphis
West Miami
West Midlands
West Mifflin
West Milwaukee
West Monroe
West New Guinea
West New York
West Newton
West Norriton
West Pakistan
West Palm Beach
West Paterson
West Pittston
West Plains
West Point
West Portsmouth
West Prussia
West Riding
West Saxon
West Side
West Suffolk
West Sussex
West Turkestan
West Virginia
West Virginia Day
West Warwick
West Wyoming
West York
West Yorkshire
West Yuma
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Westbrooke
Westby
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Westermarck
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Western Australia
Western Australian
Western Bug
Western Christianity
Western Church
Western Empire
Western Ghats
Western Han
Western Hemisphere
Western Hindi
Western India States
Western Islands
Western Isles
Western Ocean
Western Reserve
Western Roman Empire
Western Sahara
Western Samoa
Western Slavs
Western Thrace
Western imperialism
Western saddle
Western story
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What Every Woman Knows
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Wheatcroft
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Wheelersburg
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White Ensign
White Friar
White Hall
White House
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White Lady
White Lady of Avenel
White Monk
White Mountains
White Nile
White Pass
White Plains
White Power
White River
White River Junction
White Rock
White Russia
White Russian
White Sea
White Slave Act
White Sunday
White Surrey
White Volta
White man's burden
White supremacy
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Wild Duck, The
Wild Geese
Wild Hunt
Wild Huntsman
Wild West
Wild West show
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Wildermuth
Wilderness
Wildersville
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William Crowe
William Dyess
William Foehre
William Francis Giauque
William Freund
William Gaess
William Gallegos
William Goppallawa
William Grede
William Gutse
William Heikkila
William Higham
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William II
William III
William IV
William Jennings Bryan
William Rose Benet
William Seidman
William Tell
William Van Rij
William of Malmesbury
William the Conqueror
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Wings of the Dove, The
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Winifred
Winifrede
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Winston Churchill
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Winstonville
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Winter Haven
Winter Olympic Games
Winter Olympics
Winter Park
Winter Sea
Winter War
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Winterport
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Works and Days
Workshop
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World Almanac
World Bank
World Bank Group
World Council of Churches
World Court
World Cup
World Day of Prayer
World Federalism
World Health Organization
World Reason
World Series
World War I
World War II
World calendar
World war
World's Series
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X
X axis
X chromosome
X radiation
X ray
X's
X-chromosome
X-rated movie
X-ray
X-ray cancer
X-ray diffraction camera
X-ray diffraction tube
X-ray dosimetry
X-ray eye
X-ray machine
X-ray microscope
X-ray movie
X-ray photographer
X-ray photography
X-ray photometry
X-ray spectrograph
X-ray spectrometer
X-ray spectrometry
X-ray spectrum
X-ray technician
X-ray therapy
X-ray tube
X-ray-proof
X-shaped
X-type engine
X-wave
X25
XA
XB
XBT
XCF
XD
XDMCP
XDR
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Y joint
Y level
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Y track
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Yoshiko
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Young Lonigan
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Your Lordship
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Yousaf Abu Hantash
Youskevitch
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Zenobia  
Zenon Kliszko  
Zenonian  
Zenonic  
Zeoidei  
Zeona  
Zep  
Zeph  
Zephan  
Zephaniah  
Zephyr  
Zephyranthes  
Zephyrhills  
Zephyrinus  
Zephyrus  
Zeppelin  
Zeralda  
Zeralda  
Zerelda  
Zerk  
ZerlазZerlina  
Zerline  
Zurma  
Zermatt  
Zermelo's axiom  
Zernike  
Zero-zero  
Zerol gear  
Zerubbabel  
Zervan  
Zervanism
Zervanite
Zeta
Zetana
Zetes
Zethar
Zethus
Zetland
Zetta
Zeuctocoelomata
Zeuglodon
Zeuglodonta
Zeuglodontia
Zeuglodontidae
Zeugobranchia
Zeugobranchiata
Zeus
Zeuxian
Zeuxis
Zeuzera
Zeuzeridae
Zhang
Zhang Aiping
Zhang Chungqiao
Zhao Ziyang
Zhdanov
Zhitomir
Zhivkov
Zhmud
Zhukov
Zia
Zia ul Haq
Ziagos
Ziaur Rahman
Zicarelli
Zidkijah
Ziegfeld
Ziegler
Ziegler catalyst
Zieglerville
Zielsdorf
Zif
Zigeuner
Zigmund
Zigrang
Ziguard
Ziguinchor
Zilber
Zildjian
Zoarite
Zoba
Zobe
Zobias
Zobkiw
Zoe
Zoeller
Zoellick
Zoes
Zoffany
Zogu I
Zoha
Zohak
Zohar
Zohara
Zoharist
Zoharite
Zoi
Zoie
Zoila
Zolean
Zollism
Zolist
Zoilla
Zoilus
Zola
Zolaesque
Zolaism
Zolaist
Zolaistic
Zolaize
Zoldi
Zoller
Zollernia
Zollie
Zollner
Zollner illusion
Zollverein
Zolly
Zolnay
Zolner
Zoltai
Zoltan Gombos
Zomba
Zona
Zonaria
Zond
Zonda
Zondra
Zongora
Zonian
Zonites
Zonitidae
Zonitoides
Zonnya
Zonoplacentalia
Zonotrichia
Zonta
Zonta Club
Zonta club
Zontian
Zonuridae
Zonurus
Zoochlorella
Zoomastigina
Zoomastigoda
Zoophaga
Zoophagineae
Zoophyta
Zootoca
Zophar
Zoque
Zoquean
Zora
Zorah
Zorana
Zoraptera
Zorillinae
Zorina
Zorine
Zorn
Zorn's lemma
Zoroaster
Zoroastrian
Zoroastrianism
Zoroastrism
Zorobabel
Zorotypus
Zortman
Zosema
Zoser
Zosi
Zosima
Zosimus
Zosma
Zostera
Zosteraceae
Zosteria
Zosteropinae
Zosterops
Zouave
Zouave jacket
Zoubek
Zoug
Zoysia
Zr
Zrich
Zrike
Zsa
Zsa Zsa
Zsa Zsa Gabor
Zsazsa
Zsigmondy
Zsolway
Ztopek
Zu’lkadah
Zu-zu
Zuben el genubi
Zubeneschamali
Zubird
Zubkoff
Zuccari
Zuccaro
Zucchero
Zucker
Zuckerman
Zug
Zui
Zuian
Zuider Zee
Zuidholland
Zulch
Zuleika
Zulema
Zulfikar Ali Bhutto
Zulhijjah
Zulinde
Zulkadah
Zullinger
Zullo
Zuloaga
Zulu
Zulu-kaffir
Zuludom
Zygodactylae
Zygodactyli
Zygomyces
Zygophyceae
Zygophyllaceae
Zygophyllum
Zygoptera
Zygopteraceae
Zygopterides
Zygopteris
Zygosaccharomyces
Zyrenian
Zyrian
Zyryan
Zysk
Zythia
Zyzomys
Zyzzogeton
Zz
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 hand at
a hand 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'etouffée
a l'improviste
a l'italienne
a la
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  
a la bordelaise  
a la bourgeoise  
a la carte  
a la casserole  
a la cocotte  
a la coque  
a la creole  
a la dauphine  
a la dauphinoise  
a la derobee  
a la diable  
a la francaise  
a la godiveau  
a la grecque  
a la jardiniere  
a la julienne  
a la king  
a la lyonnaise  
a la macedoine  
a la maitre d'hotel  
a la matelote  
a la mire  
a la mode  
a la mode de Caen  
a la mort  
a la napolitaine  
a la normande  
a la parisienne  
a la polonaise  
a la printaniere  
a la ravigote  
a la reine  
a la russe  
a la serviette  
a la sourdine  
a la suisse  
a la tartare  
a la vinaigrette
a lac
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 reckons
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
a zillion
a-
a-be
a-bomb
a-borning
a-c
a-clock
a-coast
a-cock-bill
a-cock-horse
a-compass
a-cry
a-dance
a-dangle
a-dead
a-deep
a-doors
a-flicker
a-game
a-glimmer
a-glucosidase
a-good
ab extra
ab initio
ab intra
ab origine
ab ovo
ab ovo usque ad mala
ab urbe condita
ab-
abacus major
abacus pythagoricus
abalone shell
abandon hope
abandon the world
abandoned person
abandoned thing
abase bemean
abase yourself
abatement of differences
abb wool
abbey counter
abbey laird
abbey lands
abbey lubber
abbot cloth
abbreviated number
abc soil
abdominal epilepsy
abdominal hernia
abdomino-uterotomy
abduces nerve
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
about-faced
about-facing
about-ship
about-shipped
about-shipping
about-sledge
about-turn
above all
above all that
above and beyond
above board
above par
above stairs
above suspicion
above the line
above the pitch
above water
above your head
above-board
above-cited
above-found
above-given
above-mentioned
above-named
above-quoted
above-reported
above-said
above-water
above-written
abraham-man
abraum salts
abraxas stone
abreast of
abreast of the times
abruptly acuminate
abruptly pinnate
abs-
abscisic acid
absciss layer
abscission layer
abscission zone
absence flag
absence of assignable cause
absence of authority
absence of charge
absence of color
absence of mind
absence of motion
absence state
absence without leave
absent flag
absent treatment
absent voter
absent without leave
absent yourself
absent yourself from
absent-minded
absent-mindedly
absent-mindedness
absente reo
absentee ballot
absentee landlord
absentee vote
absentee voter
absentee voting
absinthe green
absinthe oil
absit omen
absolute alcohol
absolute altimeter
absolute altitude
absolute angstrom
absolute ceiling
absolute certainty
absolute complement
absolute contradiction
absolute convergence
absolute credibility
absolute ego
absolute fact
absolute free will
absolute humidity
absolute idea
absolute idealism
absolute idealist
absolute impediment
absolute index of refraction
absolute indication
absolute interest
absolute likeness
absolute magnitude
absolute majority
absolute master
absolute maximum
absolute minimum
absolute monarch
absolute monarchy
absolute music
absolute permeability
absolute permittivity
absolute pitch
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
absorb the attention
absorb the shock
absorb the thought
absorb the thoughts
absorbed attention
absorbed by
absorbed in
absorbed in thought
absorbed interest
absorbed with
absorbent cotton
absorber oil
absorbing well
absorption and regurgitation
absorption band
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
abstract algebra
abstract art
abstract classicism
abstract classicist
abstract expressionism
abstract expressionist
abstract group
abstract idea
abstract mathematics
acajou balsam  
acanth-  
acantho-  
acanthosis nigricans  
acanthus family  
acanthus leaf  
acaroid gum  
acaroid resin  
acaroid resins  
accede to  
accede to prejudice  
accede to the throne  
acceleration coefficient  
acceleration due to gravity  
acceleration note  
acceleration of free fall  
acceleration of gravity  
acceleration principle  
accelerator globulin  
accelerator nerve  
accent mark  
accentual meter  
accept Christ  
accept a challenge  
accept advice  
accept for gospel  
accept implicitly  
accept obligation  
accept responsibility  
accept the responsibility  
accept unquestioningly  
accept your fate  
accept your lot  
acceptable person  
acceptance bill  
acceptance house  
acceptance race  
acceptance sampling  
acceptance speech  
acceptance supra protest  
accepted conduct  
accepted fact  
accepted masons  
accepted meaning  
acceptor atom  
acceptor impurity  
acceptor supra protest  
access road
accrual basis
accrue from
accrue to
accrued dividend
accrued dividends
accrued interest
accrued liability
accumulated dividends
accumulation factor
accumulation point
accusative-dative
accuse of
accuse yourself
accustom yourself to
ace in the hole
ace point
ace-high
acetyl-phosphatide
acetate green
acetate nitrate
acetate rayon
acetic acid
acetic acid amide
acetic anhydride
aceto-
acetoacetic acid
acetone alcohol
acetone body
acetone chloroform
acetone oil
acetous fermentation
acetyl benzoyl peroxide
acetyl bromide
acetyl carbinol
acetyl chloride
acetyl group
acetyl index
acetyl number
acetyl oxide
acetyl radical
acetyl value
acetylene acid
acetylene alcohol
acetylene black
acetylene burner
acetylene dichloride
acetylene dinitrile
acetylene gas
acetylene generator
acetylene linkage
acetylene series
acetylene tetrabromide
acetylene tetrachloride
acetylene torch
acetylene urea
acetylene welder
acetylene welding
acetylformic acid
acetylsalicylic acid
acetylene tetrachloride
ache for
ache to
achemone sphinx
aches and pains
achieve inner harmony
achieve orgasm
achieve satisfaction
achieve success
achieve your purpose
achievement age
achievement quotient
achievement test
achilles tendon
achilles' heel
aching for
aching heart
aching to
aching void
achingly sweet
achromat-
achromatic color
achromatic colour
achromatic lens
achromatic prism
achromatic vision
achroo-
achylia gastrica
acid albumin
acid albuminate
acid alizarin black
acid alizarin red
acid amide
acid anhydride
acid anthracene brown
acid azide
acid bath
acid bessemer process
acid black
acid blast
acid blower
acid boiler
acid bronze
acid brown
acid burner
acid casein
acid cell
acid color
acid concentrator
acid dipper
acid drop
acid dye
acid dyspepsia
acid egg
acid ester
acid freak
acid fuchsine
acid gloss
acid green
acid halide
acid honey
acid hydrolysis
acid kiln
acid metaprotein
acid nitrile
acid number
acid oil
acid phosphate
acid ponceau
acid precipitation
acid process
acid purifier
acid radical
acid reaction
acid reserve
acid resist
acid rock
acid salt
acid sludge
acid sodium carbonate
acid soil
acid steel
acid test
acid test ratio
acid tide
acid value
acid violet
acid wood
acid worker
acid works
acid yellow
acid-ash diet
acid-base metabolism
acid-binding
acid-fast
acid-fastness
acid-forming
acid-head
acid-mordant dye
acid-treat
acidity coefficient
acidophilus milk
ack emma
ack-ack
ack-pirate
acknowledge defeat
acknowledge receipt of
ac clinic line
acme harrow
acme of perfection
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-
aquaint 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
acylate resin
acrylic acid
acrylic acid series
acrylic aldehyde
acrylic ester
acrylic fiber
acrylic fibre
acrylic paint
acrylic painting
acrylic resin
acrylyl group
acrylyl 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
action filer
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-limbed
active-mindled
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
current
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
adder's-meat
adder's-mouth
adder's-mouths
adder's-tongue
adders-tongue
addict yourself to
addicted to
addicted to drink
addictive drug
adding machine
addison's disease
addition algebra
addition axiom
addition compound
addition logarithm
addition polymer
addition polymerization
addition product
addition table
addition theorem
additive color
additive group
additive inverse
additive primary
additive process
addle egg
addle the wits
address a warning to
address book
address the four walls
address to
address yourself to
addressing machine
adduce evidence
adductor canal
adductor impressions
aden-
adenohypophyseal luteotropin
adenosine diphosphate
adenosine phosphate
adenosine triphosphatase
adenosine triphosphate
adenosinediphosphoric acid
adenosinetriphosphoric acid
adenylic acid
adenylpyrophosphoric acid
adept in
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
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
adrenocorticotrophic 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
adverbial phrase
adversative 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
advocacy journalism
advocatus diaboli
advocatus ecclesiae
adz block
adz eye
adzuki bean
ae-
aeolian harp
aeolian lyre
aeolo-
aeons ago
aequo animo
aer-
aerating root
aere perennius
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 arrow
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
aerootitis 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
aestho-physiology
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
affectionate 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
af-
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
against the clock
against the grain
against the law
against the new and untried
against the sun
against the tide
against the time when
against the wind
against time
against your grain
against your will
agal-agal
agar-agar
agaric acid
agaric mineral
agaricic acid
agate glass
agate gray
agate jasper
agate line
agate opal
agate shell
agate snail
agatho-
agave cactus
age class
age coating
age distribution
age grade
age group
age hardening
age limit
age norm
age of Aquarius
age of consent
age of discretion
age of growing pains
age of ignorance
age of matured powers
age of responsibility
age of retirement
age score
age society
age-adorning
age-bent
age-coeval
age-cracked
age-despoiled
age-dispelling
age-encrusted
age-enfeebled
age-group
age-harden
age-honored
age-lasting
age-long
age-old
age-peeled
age-struck
age-weary
age-weathered
age-worn
agee-jawed
agency shop
agent de bourse
agent intellect
agent noun
agent of production
agent officer
agent provocateur
agent-general
agents provocateurs
ageratum blue
ages ago
agger nasi
aggravated assault
aggravated larceny
aggregate fruit
aggregate polarization
aggregate to
aggregato-
aggressive mimicry
aggressive self-confidence
aggressively self-confident
aggressor nation
agile wit
agin the government
agitator feed
agnus castus
agnus dei
agogic accent
agonic line
agonize over
agonizing pain
agony column
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 mass
air mattress
air medal
air medicine
air meter
air mile
air motor
air navigation
air observer
air out
air oven
air passage
air philately
air photograph
air photography
air pillow
air pilot
air piracy
air pirate
air pistol
air plant
air plot
air plug
air pocket
air police
air pollution
air pore
air post
air potato
air power
air pressure
air propeller
air pump
air race
air raid
air raid warden
air raider
air ram
air remover
air rifle
air right
air route
air sac
air scoop
air scout
air scuttle
air separation
air service
air serviceman
air shaft
air shovel
air show
air shuttle
air sleeve
air sock
air space
air spade
air speed
air spray
air sprayer
air spring
air stack
air station
air stone
air stove
air strainer
air stream
air strike
air support
air survey
air switch
air system
air taxi
air tee
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-cured
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
airspeed indicator
airtight secrecy
airway beacon
airy hope
airy nothing
airy sign
airy texture
airy-fairy
aisle seat
aitch-bone
ajax the less
ajowan oil
akamushi mite
akinetic epilepsy
al Marsala
al burro
al dente
al fine
al fresco
al limone
al piacere
al segno
al-
al-Fustat
al-Lat
al-Mamoun
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
albire 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
alcoholic addiction
alcoholic beverage
alcoholic drink
alcoholic meningitis
alcoholic psychosis
alcool blanc
alcresta ipecac
aldehyde ammonia
aldehyde collidine
aldehyde group
aldehyde resin
alder blight
alder buckthorn
alder dogwood
alder fly
alder flycatcher
alder-
aldor-leaved
alderman lizard
aldol condensation
ale brewer
ale brewing
ale drinker
ale drinking
ale feast
ale gallon
ale garland
ale glass
ale pitcher
ale seller
ale selling
ale stain
ale tun
ale vinegar
ale-born
ale-fed
ale-swilling
ale-washed
ale-wife
aleatory music
aleichem shalom
alekey trout
aleph-null
aleph-zero
alert for
aleurone grains
aleurone layer
alexander's foot
alfalfa butterfly
alfalfa caterpillar
alfalfa hopper
alfalfa looper
alfalfa meal
alfalfa valve
alfalfa weevil
alfresco meal
alg-
algae layer
algae zone
algal disease
algal fungus
algal-algal
algarroba bean
algebra of classes
algebra of relations
algebra of sets
algebraic conjugate
algebraic equation
algebraic extension
algebraic geometry
algebraic number
algebraic topology
algebraically closed field
algid cholera
algid fever
algae
alginate
algic acid
algorithmic language
alias
alias dictus
alias writ
alibi out of
alien corporation
alien enemy
alien priory
alien property custodian
alien water
alienable right
alienate yourself
alienation of affections
alienation office
alieni generis
alieni juris
alight on
alight upon
alighting gear
align with
align your march
align yourself
align yourself with
aligning punch
alignment chart
alike as two peas in a pod
alimentary canal
aliquot part
aliquot tone
alis volat propriis
alive and kicking
alive to
alive with
alizarin black s
alizarin blue black s
alizarin blue s
alizarin brown
alizarin crimson
alizarin cyanine
alizarin cyanine green
alizarin dye
alizarin red
alizarin saphirol
alizarin yellow
alk gum
alk gum tree
alkali albumin
alkali blue
alkali cellulose
alkali chlorosis
alkali disease
alkali flat
alkali grass
alkali heath
alkali metal
alkali metals
alkali metaprotein
alkali mustard
alkali reserve
alkali rock
alkali soil
alkali waste
alkali weed
alkali yellow r
alkaline cell
alkaline earth
alkaline earth metal
alkaline earths
alkaline metal
alkaline reaction
alkaline tide
alkaline water
alkaline-ash diet
alkaline-earth metal
alkaline-earth metals
alkane series
alkene series
alkyd paint
alkyd resin
alkyl cyanide
alkyl group
alkyl halide
alkyl hydrosulphide
alkyl radical
alkyne series
all aboard
all about
all abroad
all agog
all agreeing
all alone
all along
all along the line
all and some
all and sundry
all animate nature
all aquiver
all around
all at once
all ataunto
all atingle
all atwitter
all being
all bets off
all but
all by your lonesome
all clear
all comers
all creation
all depend
all ears
all engines
all engines ahead
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-admired
all-admiring
all-advised
all-affecting
all-afflicting
all-aged
all-air
all-amazed
all-american
all-appalled
all-appointing
all-approved
all-approving
all-armed
all-around
all-arraigning
all-arranging
all-assistless
all-atoning
all-attempting
all-availing
all-bearing
all-beauteous
all-beautiful
all-beholding
all-bestowing
all-binding
all-bitter
all-black
all-blasting
all-blessing
all-bounteous
all-bountiful
all-bright
all-brilliant
all-changing
all-cheering
all-collected
all-colored
all-comfortless
all-commander
all-commanding
all-compelling
all-complying
all-composing
all-comprehending
all-comprehensive
all-comprehensiveness
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-firdest
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-obsckuring
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-prevailing
all-preventing
all-prolific
all-protecting
all-provident
all-providing
all-puissant
all-pure
all-purpose
all-quicken
all-rail
all-rapacious
all-reaching
all-red
all-redeeming
all-relieving
all-rending
all-righteous
all-round
all-round price
all-roundedness
all-ronder
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-spraying
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
alligator shear
alligator shears
alligator snapper
alligator snapping turtle
alligator squeezer
alligator terrapin
alligator tree
alligator turtle
alligator wampee
alligator weed
alligator wrench
alliterative meter
allo-
allo-octaploid
allow for
allow the occasion to go by
allow yourself to hope
allowance account
allowance race
allowed time
allowing that
alloy balance
alloy charge
alloy iron
alloy steel
alloyed junction
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 bartisia
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
alterni-
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-relieves
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-
alveololabial sulci
alveolo lingu al 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
amateur theatricals
amateur transmitter
amazing thing
amazon ant
ambary hemp
ambassador-at-large
ambassadors-at-large
amber brown
amber forest
amber jack
amber light
amber malt
amber mica
amber miner
amber oil
amber opal
amber pear
amber seed
amber snail
amber tree
amber yellow
amber-clear
amber-colored
amber-days
amber-dropping
amber-dropping hair
amber-headed
amber-hued
amber-locked
amber-tinted
amber-tipped
amber-weeping
amber-white
amber-yielding
ambi-
ambient phenomena
ambient temperature
ambiguous expression
ambil-anak
ambit piousness
ambitious for self
ambivalence of impulse
ambretta seed
ambrette seed
ambrette-seed oil
ambrosia beetle
ambs-ace
ambulacral foot
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
amicici 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-oxypurin
aminoacetic acid
aminobenzoic acid
aminquin napthhoate
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
amoebian 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
amour propre
amour-propre
amparo blue
amparo purple
ampere arc
ampere balance
ampere turn
ampere-foot
ampere-hour
ampere-hour meter
ampere-minute
ampere-second
ampere-turn
amperometric titration
amphetamine sulfate
amphetamine sulphate
amphetamine withdrawal symptoms
amphi-
amphibian tractor
amphibian transport
amphibious attack
amphibious operations
amphibious warfare
amphibole group
ample scope
ample sufficiency
amplification factor
amplifier chain
amplifier circuit
amplifying circuit
amplifying generator
amplitude compass
amplitude control
amplitude factor
amplitude modulation
amply endowed
ampullar sense
ampus-and
amrad gum
amuse yourself
amusement arcade
amusement device
amusement park
amusement ride
amusement tax
amygdalamic acid
amygdalo-uvular
amygdaloid nucleus
amygdonitrile glucoside
amyl acetate
amyl alcohol
amyl ether
amyl group
amyl isovalerate
amyl nitrite
amyl oxide
amyl propionate
amyl radical
amyl salicylate
amyl sulfide
amyl-
amyl-acetate lamp
amylacetic ether
amylene hydrate
amylo-
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 Somewhat
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
analog computer
analog feedback control
analog process
analog-digital converter
analogue computer
analogy test
analysis of variance
analysis 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
analytical chemistry
analytical spectrometer
analytical-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
anato-mico-
anance errand
ancestor worship
ancestral halls
ancestral spirits
anchieta bark
anchor ball
anchor bar
anchor bed
anchor bell
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 strength
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
animal science
animal scientist
animal size
animal soul
animal sound
animal spirit
animal spirits
animal starch
animal stuffer
animal stuffing
animal unit
animal worship
animal worshiper
animal young
animal-sized
animate existence
animate matter
animated cartoon
animated oat
animating force
animating power
animating principle
animating spirit
animation photography
animis opibusque parati
animistic spirit
animus cancellandi
animus capiendi
animus derelinquendi
animus furandi
animus injuriandi
animus lucrandi
animus manendi
animus possidendi
animus recipiendi
animus remanendi
animus revertendi
animus revocandi
animus testandi
anionic detergent
anis-
anise camphor
anise hyssop
anise oil
anise plant
anise-scented goldenrod
aniseed fox
aniseed oil
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 hegirae
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
annular ligament
annular muscle
annunciator system
annus magnus
annus mirabilis
ano-
anode dark space
anode glow
anode ray
anode rays
anode resistance
anodized aluminum
anodyne necklace
anointed king
anomalistic month
anomalistic year
anomalo-
anomalous zeeman effect
anomo-
anorexia nervosa
anorthite-basalt
another crack
another go
another kettle of fish
another shot
another time
another try
another-gates
another-guess
another-guise
anoxic anoxia
anp-
ansa hypoglossi
ansa subclavia
ansate cross
anserine skin
answer back
answer book
answer conclusively
answer for
answer the call of duty
answer the helm
answer the purpose
answer to
answer to a problem
answer to no man
answer-back
answerable for
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-
ante-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-
antero-grade amnesia
anterograde memory
anth-
anthetic arcs
anther cell
anther lobe
anther sac
anther smut
antho-
anthracene brown
anthracene oil
anthracene yellow
anthracite black
anthracite coal
anthraquinone dye
anthrax vaccine
anthrop-
ants oid ape
anti-
ant-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-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-emetic
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
anti-inductively
anti-inductiveness
anti-infallibilist
anti-infantal
anti-innovationist
anti-intellectual
anti-intellectualism
anti-intellectualist
anti-intellectuality
anti-intermediary
anti-isolation
anti-isolationism
anti-isolationist
anti-isolysin
anti-jacobin
anti-jacobinism
anti-laissez-faire
anti-leaguer
anti-lecomption
anti-lecomptom
anti-maniacal
anti-mony-yellow
anti-nebraska
anti-nicaean
anti-novel
anti-novelist
anti-odontalgic
anti-open-shop
anti-orgastic
anti-over
anti-pre-existentiary
anti-roman
anti-semite
anti-sub rocket
anti-submarine rocket
anti-trade
anti-worlds
antiaircraft artillery
antiaircraft barrage
antiaircraft fire
antiaircraft gun
antiaircraft gun positioner
antiaircraft radar
antiaircraft rocket
antiballistic missile
antiballistic-missile system
antiberi-beri factor
antiblackout suit
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
antimonionic acid
antimonious-
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
antineise 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
antitwilght 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
any road
any time
any time now
any which way
any-kyn
anything but
anything like
anything soever which
anywhere near
ao dai
aoi tsuba
aortic arch
aortic incompetence
aortic insufficiency
aortic stenosis
aortic valve
ap proving
ap-
apache dance
apar-
apart from
apartment building
apartment hotel
apartment house
ape about
ape fissure
ape hand
ape man
ape over
ape-headed
ape-man
ape-men
apel-
apen-
aper-
aperiodic discharge
aperture card
aperture ratio
aperture stop
aperture vignette
apet-
apex beat
apex rule
aph-
aphid lion
aphid rosette
aphid-lion
aphis fly
aphis foot
aphis lion
aphis wolf
aphis-lion
aphlogistic lamp
aphthous fever
aphthous stomatitis
apical meristem
apico-alveolar
apico-dental
aplastic anemia
apo-
apocha trium annorum
apocrine gland
apologize for
apoplectic stroke
aposematic mimicry
apostle bird
apostle jug
apostle spoon
apostles' creed
apostolic age
apostolic brief
apostolic church
apostolic delegate
apostolic faith
apostolic father
apostolic orders
apostolic succession
apostolic vicar
apothecaries' measure
apothecaries' weight
apothecary jar
apothecary's shop
apalachian tea
apparatus belli
apparatus criticus
apparent candlepower
apparent character
apparent destiny
apparent fate
apparent heir
apparent horizon
apparent magnitude
apparent soundness
apparent time
apparent wind
apparently sound
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
apposition 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
apron string
apron wall
apron-squire
apron-string
apropos of
apse aisle
apse line
apt to
aptitude test
aqua ammonia
aqua ammoniae
aqua aromatica
aqua bromata
aqua bulliens
aqua caelestis
aqua camphirae
aqua chlorata
aqua fortis
aqua green
aqua labyrinthi
aqua marina
aqua mirabilis
aqua phagedaenic nigra
aqua pura
aqua regia
aqua rosae
aqua tofana
aqua vitae
aqua-vitae
aquamarine chrysolite
aquamarine topaz
aquatic plant
aqueduct bridge
aqueduct of Sylvius
aqueo-
aqueous ammonia
aqueous humor
aqueous humour
aquiline-nosed
aquo-ion
ar-
arabian coffee
arabic numeral
arabica coffee
arable land
arachidic acid
arachis oil
arachnoid granulation
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
arborvitaee leaf miner
arc column
arc cosecant
arc cosine
arc cotangent
arc discharge
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-altaic
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
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
ark shell
arkwright furniture
arle penny
arles penny
arm band
arm board
arm coil
arm garter
arm gear
arm guard
arm in arm
arm of the law
arm of the sea
arm of the service
arm stake
arm viol
arm wrestling
arm-chair
arm-great
arm-headed
arm-hole
arm-in-arm
arm-linked
arm-shaped
armadillo shell
armature assembler
armature bander
armature binder
armature reaction
armature winder
armature winding
armchair authority
armchair philosopher
armed and ready
armed assault
armed at all points
armed bullhead
armed cap-a-pie
armed combat
armed conflict
armed force
armed forces
armed guard
armed neutrality
armed robbery
armed service
armed to the teeth
armed with patience
armes parlantes
armillary sphere
arming cap
arming chest
arming doublet
armistice day
armless chair
armor belt
armor grating
armor plate
armor plating
armor-bearer
armor-clad
armor-piercing
armor-plate
armor-plated
armored cable
armored car
armored combat
armored corps
armored cruiser
armored dinosaur
armored forces
armored heart
armored scale
armored tactics
armored vessel
armorial bearings
armour plate
armour-bearer
armour-clad
armour-piercing
armour-plate
armoured car
armoured troops
arms of Morpheus
arms race
army ant
army area
army brat
army brown
army corps
army cutworm
army engineer
army engineering
army group
army nurse corps
army of occupation
army reserves
army service corps
army troops
army worm
arnica bud
aroint 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
arrestor 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
arsenic acid
arsenic antidote
arsenic bloom
arsenic calciner
arsenic disulfide
arsenic eater
arsenic eating
arsenic glass
arsenic green
arsenic mirror
arsenic mold
arsenic monosulfide
arsenic orange
arsenic refiner
arsenic smelter
arsenic trichloride
arsenic trioxide
arsenic yellow
arsenic-
arsenical babbitt
arsenical pyrite
arsenio-
arsenious acid
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
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-
asa 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
ascend the throne
ascending aorta
ascending colon
ascending node
ascension day
ascetical theology
asclepias butterfly
ascorbic acid
ascot tan
ascot tie
aspire importance to
aspire 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-blond
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 buyer
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
assistant inspector
assistant janitor
assistant janitress
assistant librarian
assistant manager
assistant professor
associate professor
associate with
associate yourself with
associated statehood
association area
association book
association by contiguity
association by similarity
association by sound
association copy
association fiber
association football
association neuron
association neurosis
association of ideas
association psychology
association test
association time
associative algebra
associative anamnesis
associative neuron
assert with
assume airs
assume command
assume the
assume the guise of
assume the identity of
assume the offensive
assumed bond
assumed name
assumed position
assuming that
assumption of superiority
assure yourself
assured faith
assured of success
assured probity
astable circuit
astasia-abasia
astatic galvanometer
aster daisy
aster family
aster purple
aster ray
aster yellows
asterias swallowtail
asthma herb
asthma paper
asthma weed
asthmatic cigarette
asthmatic wheeze
astigmatic lens
astonishing thing
astr-
astragal Architect
astrakhan cloth
astral body
astral crown
astral influences
astral lamp
astral plane
astral projection
astral ray
astral spirit
astringent bitters
astro hatch
astro station
astro-
astro-inertial guidance
astro-meteorology
astronomical almanac
astronomical calendar
astronomical chart
astronomical clock
astronomical day
astronomical distance
astronomical frame of reference
astronomical longitude
astronomical number
astronomical observatory
astronomical refraction
astronomical telescope
astronomical twilight
astronomical unit
astronomical year
asymmetric carbon atom
asymmetric time
asymmetric transmission
asymmetry potential
at a bargain
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 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
atrocious 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
attorney-generalship
attorney-in-fact
attorneys general
attorneys-at-law
attorneys-in-fact
attract attention
attract notice
attract your interest
attracted to
attracted-disk
attraction cone
attraction sphere
attractive nuisance
attributable to
attribute to
attributed to
atypical pneumonia
au beurre fondu
au beurre noire
au beurre roux
au bleu
au contraire
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
auditory apparatus
auditory canal
auditory effect
auditory impairment
auditory meatus
auditory nerve
auditory organ
auditory ossicles
auditory phenomenon
auditory phonetics
auditory range
auditory sense
auditory stimulus
auditory tube
auditory vesicle
auf Wiedersehen
auf wiedersehen
augen-gabbro
augen-gneiss
auger bit
auger box
auger crank
auger drill
auger feed
auger handle
auger hole
auger lathe
auger machine
auger press
auger shell
auger stem
auger tongue
auger worm
auger-nose
auger-type
augite-porphyrite
augite-porphyry
augmented interval
augmented sixth
augmented triad
augur well
auld lang syne
auld-farran
auld-farrand
auld-farrant
auld-warld
auln-
aunc-
auntie man
aur-
aural examination
aural sense
aura mediocritas
aurene glass
aurolin yellow
auri-iodide
auricula purple
auricular appendage
auricular confession
auricular fibrillation
auriculo-infraorbital
auriculo-occipital
auro-
aurora australis
aurora borealis
aurora glory
aurora orange
aurora particle
aurora particle counter
aurora particles
auto pilot
auto polish
auto radio
auto sacramental
auto show
auto-
auto-alarm
auto-audible
auto-da-f
auto-da-fe
auto-dafe
auto-infection
auto-inoculability
auto-inoculable
auto-inoculation
auto-objective
auto-observation
auto-omnibus
auto-ophthalmoscope
auto-ophthalmoscopy
auto-oxidation
auto-oxidize
auto-rickshaw
auto-rifle
autoconvection gradient
autodyne reception
autogenous vaccine
autographic recorder
autoignition point
autokinetic effect
autokinetic illusion
autokinetic phenomenon
autolysate-precipitate
automanual 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 typesetting
automatic washer
automatic washer-dryer
automatic writing
automatic-weapons fire
automation technology
automobile board
automobile insurance
automobile liability insurance
automobile race
automobile racing
automobile registration tax
automobile showroom
automobile sled
automorphic-granular
automotive engineer
automotive engineering
autonomic epilepsy
autonomic nervous system
autonomic reaction
autos sacramentales
autoserum therapy
autotransformer starter
autotrophic organism
autotuberculin test
autourine test
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
autumnal 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
avant-gardism
avant-gardist
avant-propos
avarice on stilts and masked
ave maria
avec plaisir
avellan cross
avenging spirit
aver-
average adjuster
average book
average clause
average deviation
average down
average life
average man
average out
average person
average revenue
average run
average stater
average up
average-life period
averse to
aversion therapy
avert the eyes
avian diphtheria
avian leukosis
avian pneumoencephalitis
avian pox
avian pseudoplaque
avian spirochetosis
aviation badge
aviation beacon
aviation beacons
aviation cadet
aviation field
aviation gasoline
aviation instrument
aviation insurance
aviation medicine
aviation radar
aviation radio
aviation technology
aviation wings
aviator glasses
avignon berry
avion-canon
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
baby walker
baby's breath
baby's-breath
baby's-slippers
baby-blue-eyes
baby-browed
baby-doll
baby-face
baby-faced
baby-featured
baby-kissing
baby-sat
baby-sit
baby-sitter
baby-sitting
baby-sized
baby-snatching
baby-tears
bacalao bird
baccalaureate sermon
baccalaureate service
bach it
bachelor button
bachelor chest
bachelor girl
bachelor party
bachelor perch
bachelor's button
bachelor's degree
bachelor's gown
bachelor's-button
bachelor's-buttons
bachelor-at-arms
bachelors-at-arms
bacillary dysentery
bacillary white diarrhoea
back action
back air pipe
back airing
back anchor
back and fill
back and forth
back answer
back away
back balance
back band
back bar
back beam
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-fanged
back-fence gossip
back-filleted
back-fire
back-flowing
back-flung
back-focused
back-formation
back-geared
back-glancing
back-going
back-hand
back-handed
back-handed compliment
back-hander
back-lash
back-leaning
back-light
back-lighted
back-lighting
back-list
back-lit
back-log
back-looking
back-lying
back-making
back-number
back-paddle
back-paint
back-palm
back-pedal
back-pedaled
back-pedaling
back-pedalled
back-pedalling
back-piece
back-plaster
back-plate
back-pressure arm-lift method
back-pressure valve
back-pulling
back-putty
back-racket
back-raking
back-scratcher
back-scratching
back-seat driver
back-set
back-set bed
back-settler
back-sey
back-slang
back-slanging
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
backstay stools
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 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 scater
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 molder
bank money
bank night
bank note
bank oddman
bank of issue
bank officer
bank on
bank overman
bank paper
bank post bill
bank president
bank ranger
bank rate
bank receipt
bank receiver
bank reference
bank repairer
bank report
bank reserve
bank return
bank robber
bank robbery
bank roll
bank run
bank shot
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
bar fee
bar fly
bar foot
bar gemel
bar girl
bar gown
bar graph
bar iron
bar joist
bar keel
bar line
bar magnet
bar mitzvah
bar mizvah
bar money
bar movement
bar opal
bar out
bar parlor
bar pin
bar plate
bar point
bar rigging
bar roller
bar screen
bar share
bar shoe
bar shot
bar sight
bar sinister
bar soap
bar spade
bar stall
bar stool
bar tack
bar the gate
bar tin
bar tracery
bar winding
bar-
bar-and-grill
bar-goose
bar-headed goose
bar-share plow
bar-stock lathe
bar-tailed
bar-wound
bara-picklet
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-skinne
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
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
barred spiral nebula
barrel amalgamation
barrel arch
barrel bolt
barrel bulk
barrel cactus
barrel chair
barrel chest
barrel contractor
barrel copper
barrel cuff
barrel distortion
barrel drain
barrel driver
barrel engine
barrel fish
barrel gentian
barrel header
barrel helm
barrel hoop
barrel house
barrel knot
barrel maker
barrel of money
barrel organ
barrel packer
barrel palm
barrel pen
barrel pier
barrel process
barrel quartz
barrel repairer
barrel roll
barrel roof
barrel saw
barrel scale
barrel sewer
barrel shackle
barrel stave
barrel tile
barrel tree
barrel vault
barrel-back chair
barrel-bellied
barrel-boring
barrel-branding
barrel-chested
barrel-driving
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 mitt
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
bass reflex
bass response
bass saxophone
bass staff
bass sunfish
bass viol
bass violinist
bass-bar
bass-horn
bass-relief
bass-viol
bass-wood
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
basso continuo
basso da camera
basso ostinato
basso profundo
basso rilievo
basso-relievo
basso-relieves
basso-rilievo
bassra locust
bast cell
bast fiber
bast palm
bast parenchyma
bast ray
bast tree
bast vessel
bastard acacia
bastard agrimony
bastard alkanet
bastard aloe
bastard amber
bastard apple
bastard ash
bastard ashlar
bastard asphodel
bastard baldmoney
bastard balm
bastard bar
bastard blue gum
bastard box
bastard bryony
bastard bullet tree
bastard canna
bastard cedar
bastard cherry
bastard chestnut
bastard chickweed
bastard child
bastard chinaroot
bastard cinnamon
bastard clover
bastard cork tree
bastard cress
bastard culverin
bastard cusk
bastard daisy
bastard dittany
bastard dogwood
bastard dory
bastard eigne
bastard elder
bastard elm
bastard fallow
bastard feverfew
bastard fig
bastard file
bastard gemsbok
bastard gentian
bastard gidgee
bastard goosefoot
bastard grain
bastard granite
bastard gromwell
bastard gunter
bastard halibut
bastard hartebeest
bastard hawkweed
bastard hellbore
bastard hemp
bastard horehound
bastard hyssop
bastard indigo
bastard ipecac
bastard ironwood
bastard jarrah
bastard jasmine
bastard jute
bastard lignum vitae
bastard locust
bastard locust tree
bastard lupine
bastard mahogany
bastard manchineel
bastard margaret
bastard marjoram
bastard measles
bastard mouse-ear
bastard myall
bastard nettle
bastard nightshade
bastard olive
bastard parsley
bastard pellitory
bastard pennyroyal
bastard pimpernel
bastard pine
bastard plantain
bastard plover
bastard pointing
bastard quince
bastard rhubarb
bastard rocket
bastard rosewood
bastard saffron
bastard sago palm
bastard sandalwood
bastard schooner
bastard sea grape
bastard senna
bastard sensitive plant
bastard service tree
bastard snapper
bastard speedwell
bastard spikenard
bastard spruce
bastard strangles
bastard sugar
bastard sycamore
bastard tamarind
bastard teak
bastard thread
bastard title
bastard toadflax
bastard tree
bastard trefoil
bastard trout
bastard trumpeter
bastard tuck pointing
bastard turtle
bastard type
bastard vervain
bastard vetchling
bastard weakfish
bastard windflower
bastard wing
bastard wormwood
bastard yellowlegs
bastard yellowwood
bastard-cut
bastard-saw
bastard-sawed
bastard-sawing
bastard-sawn
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
bateed 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
batho-
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
battering ram
battering 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 disenchanting
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 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 outdistanced
be outrun
be over
be overdue
be overfamiliar with
be overpossessive
be overpriced
be pacifistic
be paid
be painless
be painstaking
be parallel
be paralyzed with fear
be parsimonious
be partial to
be partners in
be past
be patient
be pensioned
be pensioned off
be permissive
be permitted
be persuaded
be persuasive
be pessimistic
be pinched
be pious
be pissed
be plain
be pleased
be pleased with
be pliant
be poised
be poleaxed
be poor
be possessed of
be possessed of the devil
be possessive
be possible
be practical
be precise
be predicated on
be predisposed
be pregnant
be prejudiced
be preoccupied
be prepared
be present
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 striken 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 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
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
bear pack
bear panic
bear pig
bear pit
bear plum
bear pool
bear raid
bear reign
bear resemblance
bear sail
bear skeiters
bear the brunt
bear the cost
bear the expense
bear the market
bear the name of
bear the palm
bear to leeward
bear to port
bear to starboard
bear to windward
bear trap
bear up
bear up against
bear up for
bear up to
bear up under
bear upon
bear warden
bear whortleberry
bear with
bear with composure
bear witness
bear witness against
bear you company
bear young
bear your cross
bear yourself
bear yourself with credit
bear's-breech
bear's-ear
bear's-foot
bear's-foots
bear's-paw
bear-baiting
bear-lead
bear-leader
bear-trap dam
bear-tree
beard grass
beard lichen
beard moss
beard plant
beard the lion in his den
beard tree
bearded darel
bearded lizard
bearded tit
bearded vulture
bearding line
bearding machine
bearer bar
bearer bond
bearer certificate
bearer of glad tidings
bearer plate
bearer security
bearer-off
bearing arms
bearing arrow
bearing bar
bearing block
bearing bow
bearing brass
bearing bronze
bearing cloth
bearing door
bearing gear
bearing in mind
bearing metal
bearing neck
bearing note
bearing out
bearing pile
bearing plate
bearing rail
bearing rein
bearing ring
bearing robe
bearing steel
bearing sword
bearing timber
bearing wall
bearish market
bearish prices
bearnaise sauce
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
beau geste
beau ideal
beau ideals
beau monde
beau sabreur
beau-ideal
beau-idealize
beau-monde
beau-pleader
beau-pot
beaufort scale
beaumont root
beaus ideal
beautiful friendship
beautiful man
beautiful people
beautiful person
beautiful thing
beautiful woman
beauty bush
beauty contest
beauty contest winner
beauty culture
beauty culturist
beauty of holiness
beauty parlor
beauty pin
beauty plaster
beauty queen
beauty salon
beauty shop
beauty sleep
beauty spot
beauty treatment
beauty unadorned
beauty wash
beauty-beaming
beauty-berry
beauty-blind
beauty-blooming
beauty-blushing
beauty-breathing
beauty-bright
beauty-bush
beauty-clad
beauty-fruit
beauty-loving
beauty-parlor chitchat
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
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
bed-sitting room
bed-sitting-room
bed-wetting
bedbug hunter
bedda nut
bedding block
bedding course
bedding fault
bedding plane
bedding plant
beddy-bye
bedford cord
bedlam beggar
bedlam cowslip
bedlington terrier
bedridden invalid
bedrock valley
bedroom eyes
bedroom slipper
bedroom suburb
bedside manner
bedsitting room
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
behaviorial 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 canopy
bell captain
bell caster
bell casting
bell chasuble
bell chime
bell chuck
bell cord
bell cot
bell cote
bell cow
bell crank
bell crater
bell deck
bell founder
bell founding
bell frog
bell gable
bell gamba
bell glass
bell harp
bell heather
bell horse
bell jar
bell kite
bell ling
bell loft
bell magpie
bell maker
bell mare
bell metal
bell moth
bell olive tree
bell pepper
bell polyp
bell pull
bell punch
bell push
bell ringer
bell ringing
bell rope
bell salt
bell scraper
bell screw
bell seat
bell sheep
bell tent
bell the cat
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-moutheed
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
bellows engine
bellows fish
bellows maker
bellows mender
bellows pneumatic
bellows treader
bells of Ireland
belly ache
belly board
belly brace
belly buster
belly button
belly dance
belly dancer
belly dancing
belly doublet
belly flop
belly flopper
belly friend
belly gunner
belly guy
belly landing
belly laugh
belly offal
belly out
belly rail
belly roll
belly stay
belly tank
belly truss
belly whop
belly whopper
belly worshiper
belly-band
belly-beaten
belly-blind
belly-bound
belly-bumper
belly-cheer
belly-devout
belly-fed
belly-flop
belly-flopped
belly-flopping
belly-ful
belly-god
belly-gulled
belly-gun
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
belter-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
benchching 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
benz-
benzal chloride
benzal group
benzal radical
benzalkonium chloride
benzene hexachloride
benzene nucleus
benzene ring
benzene series
benzenecarboxylic acid
benzenesulfonic acid
benzethonium chloride
benzidine colors
benzidine dye
benzidine rearrangement
benzine cup
benzo fast scarlet
benzo orange
benzo paradiazine
benzo paroxazine
benzo-
benzoate of soda
benzoic acid
benzoic aldehyde
benzoic sulphinide
benzol distiller
benzol extractor
benzoyl acetyl peroxide
benzoyl chloride
benzoyl green
benzoyl group
benzoyl hydride
benzoyl peroxide
benzoyl radical
benzyl acetate
benzyl alcohol
benzyl benzoate
benzyl bromide
benzyl butyrate
benzyl chloride
benzyl cyanide
benzyl dichloride
benzyl fluoride
benzyl fumarate
benzyl group
benzyl isoamyl ether
benzyl radical
benzyl succinate
benzyl thiocyanate
benzylidene acetone
benzylidene 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
bertillon 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-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-
ob-2
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-habble
bible-christian
bible-clerk
biblico-
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 bruiser
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
dig-laden
dig-leaf ivy
dig-leaf laurel
dig-leaf maple
dig-league
dig-leaguer
dig-leaved
dig-leaved magnolia
dig-looking
dig-mouthed
dig-name
dig-nosed
dig-note
dig-rich
dig-souled
dig-sounding
dig-swollen
dig-ticket
dig-time
dig-time operator
dig-time spender
dig-time spender
dig-time timer
dig-voiced
dig-waisted
digeye scad
bigger half
biggest frog in the pond
bighorn sheep
diglip sucker
digmouth buffalofish
bihar tree
digik 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 attainer
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
 billowy 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
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 adjusive 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-foots
bird's-nest
bird's-nest fern
bird's-nest fungus
bird's-nest orchid
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
bissextile 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 treacle
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-vised
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-heart
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 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
blarney stone
blast away
blast bloomery
blast engine
blast fan
blast freezing
blast furnace
blast lamp
blast neurosis
blast off
blast pipe
blast propulsion
blast roasting
blast the ear
blast wave
blast your hope
blast-
blast-borne
blast-freeze
blast-freezing
blast-frozen
blast-furnace
bash-off
blasted expectation
blasting cap
blasting cartridge
blasting circuit
blasting detonator
blasting fuse
blasting gelatin
blasting machine
blasting mat
blasting needle
blasting oil
blasting paper
blasting powder
blasting spoon
blasting tools
blasting tube
blasto-
blatti family
blaze a trail
blaze about
blaze abroad
blaze current
blaze of glory
blaze of light
blaze of temper
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
blessed with
blessed with luck
bleu celeste
bleu cheese dressing
blight canker
blight your hope
blighted area
blighted hope
blighted neighborhood
blighting 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
blind-pigger
blind-pigging
blind-punch
blind-stamp
blind-stamped
blind-tool
blind-tooled
blind-worm
blind-your-eyes
blindfold chess
blindfolded Justice
blinding light
blindman's bluff
blindman's buff
blink aside
blink at
blink away
blink beer
blink comparator
blink microscope
blink-eyed
blinker lamp
binker light
binker tube
blinking light
blinking sort o' place
bliss body
blister beetle
blister blight
blister bush
blister canker
blister canopy
blister cone
blister copper
blister flower
blister fly
blister gas
blister mite
blister pearl
blister plant
blister plaster
blister rust
blister spot
blister steel
blithe-looking
blithering idiocy
blithering idiot
blitz can
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
block off
block out
block party
block pattern
block plan
block plane
block print
block printing
block punch
block rate
block release
block signal
block signaling
block signals
block sugar
block system
block teeth
block the light
block tin
block up
block vote
block-book
block-caving
block-in-course bond
block-printed
block-saw
block-serified
block-signal system
blockade-runner
blockade-running
blocked shoe
blocked-out
blocker-out
blockhead board
blocking back
blocking condenser
blocking course
blocking drive
blocking hammer
blocking out
blocking press
blocking process
blocking the light
blond-haired
blond-headed
blonde lace
blood albumin
blood and thunder
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
blow tube
blow up
blow up a storm
blow up the fire
blow upon
blow valve
blow wash
blow your brains out
blow your cool
blow your cover
blow your lines
blow your mind
blow your own horn
blow your own trumpet
blow your stack
blow your top
blow yourself to
blow-
blow-bies
blow-by
blow-by-blow
blow-dry
blow-fly
blow-hard
blow-hole
blow-in
blow-iron
blow-molded
blow-pipe
blow-through
blow-up
blow-wave
blower-up
blowing charge
blowing cylinder
blowing engine
blowing fan
blowing furnace
blowing hot and cold
blowing iron
blowing machine
blowing mold
blowing pipe
blowing tube
blowing up
blown glass
blown over
blown up
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-checked
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
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
boat bed
boat boy
boat bridge
boat bug
boat chock
boat club
boat crane
boat deck
boat drill
boat falls
boat hand
boat hire
boat hook
boat line
boat livery
boat nail
boat neck
boat neckline
boat pan
boat patch
boat people
boat race
boat seaplane
boat show
boat song
boat spike
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
bobbin lace
bobbin maker
bobbin making
bobbin net
bobbin polisher
bobbin riveter
bobbin shifter
bobbin sinker
bobbin stripper
bobbin tester
bobbin tier
bobbin-net
bobby calf
bobby pin
bobby socks
bobby soxer
bobby-dazzler
bobby-socker
bobby-soxer
bobsy-die
bobtail drawbridge
bobtail flush
bobtail straight
bobtailed arrow
bobwhite quail
bock beer
bood-
bodhi tree
bodice maker
bodies seven
bodily appetite
bodily charm
bodily comfort
bodily discharge
bodily grace
bodily love
bodily pleasure
bodily size
bodkin beard
body Brussels
body English
body and blood of Christ
body armor
body axis
body bag
body blight
body blow
body brace
body building
body cavity
body cell
body cent rode
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 erector
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 bilberry
bog birch
bog blitter
bog blueberry
bog bull
bog bulrush
bog butter
bog cotton
bog cutting
bog deal
bog down
bog earth
bog featherfoil
bog fern
bog gale
bog garden
bog gentian
bog glede
bog grass
bog hay
bog hop
bog in
bog iron
bog iron ore
bog jumper
bog lemming
bog lime
bog manganese
bog mine
bog mold
bog moss
bog myrtle
bog nut
bog oak
bog onion
bog orchid
bog orchis
bog ore
bog peat
bog pimpernel
bog pine
bog pink
bog plant
bog rhubarb
bog rose
bog rosemary
bog rush
bog spavin
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-hoose
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
boiler compound
boiler coverer
boiler factory
boiler fitter
boiler fixer
boiler flue
boiler head
boiler horsepower
boiler inspector
boiler iron
boiler plate
boiler room
boiler scale
boiler shell
boiler shop
boiler suit
boiler tenter
boiler tube
boiler tuber
boiler-cleaning
boiler-off
boiler-out
boiler-testing
boiler-washing
boilermaker's hammer
boiling chip
boiling over
boiling point
boiling process
boiling spring
boiling stone
boiling water
boiling-house
boiling-point constant
boiling-water reactor
bois de vache
bois-brl
boite de nuit
bok choy
bold as a lion
bold as brass
bold conjecture
bold face
bold front
bold hand
bold ignorance
bold imagination
bold relief
bold stroke
bold-beating
bold-face
bold-faced
bold-facedly
bold-facedness
bold-following
bold-looking
bold-minded
bold-spirited
boldo family
boletic acid
boll hull
boll rot
boll weevil
bollard timber
bollix up
bollixed up
bolly cotton
bolo punch
bolo-bolo
bologna sausage
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
bomb-baje palm
bombanassa palm
bombardier beetle
bombardment emission
bombardment rocket
bombardment squadron
bombardment weapons
bombastic person
bombay duck
bombe glacee
bomber jacket
bomber pilot
bombing locator
bombing machine
bombing mission
bombing run
bombing sap
bon ami
bon appetit
bon chretien
bon gre mal gre
bon jour
bon mot
bon soir
bon ton
bon vivant
bon viveur
bon voyage
bon-accord
bon-bon
bon-ton
bon-vivant
bona activa
bona fide
bona fide holder
bona fide purchaser
bona fideness
bona fides
bona roba
bona vacantia
bona-fide
bona-roba
bonace tree
bonaci arara
bonaci cardenal
bonaci gato
bonadventure mast
bonadventure mizzen
bonae fidei
bonaventure mast
bonaventure mizzen
bonbon spoon
bond anticipation note
bond coat
bond course
bond crowd
bond debt
bond issue
bond of matrimony
bond paper
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
bone 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
boom pole
boom rat
boom sail
boom shot
boom stay
boom tackle
boom town
boom vang
boom yard
boom-and-bust
boom-ended
booming economy
booming market
boon companion
boon companionship
boon day
boon earth
boon loaf
boon work
boost your pay
booster amplifiers
booster battery
booster charge
booster dose
booster pump
booster rocket
booster rocket unit
booster shot
booster stations
booster unit
boot camp
boot cleaner
boot closer
boot cloth
boot crimp
boot dressing
boot hill
boot hook
boot ironer
boot maker
boot needle
boot out
boot polish
boot polisher
boot powder
boot socks
boot spur
boot stretcher
boot the
top
boot tree
cleaning
hale
leg
topping
and spurred
out
worm
blade
liquor
play
sucker
less errand
and all
and saddles
fighter
up
up
bor-
bage family
bead
carmine
glass
honey
pentahydrate
usta
gate
and-pillar
land
lode
mixture
ballads
ground
irrigation
light
line
on
pen
service
stone
terrier
upon
world
land
on
upon

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borderline case
bore bit
bore meal
bore out of all patience
bore out of your life
bore stiff
bore to death
bore to distraction
bore to extinction
bore to tears
boreal blast
bored stiff
bored to death
bored to extinction
bored to tears
boric acid
boring bar
boring block
boring head
boring journal
boring machine
boring mill
boring pain
boring person
boring rod
boring tool
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
borneing day
bornyl acetate
bornyl alcohol
bornyl formate
born
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 brush
bottle bump
bottle cap
bottle capper
bottle carrier
bottle cleaner
bottle club
bottle coaster
bottle cod
bottle corker
bottle feeding
bottle fern
bottle filler
bottle gentian
bottle glass
bottle gourd
bottle grass
bottle green
bottle heath
bottle imp
bottle in
bottle jack
bottle jaw
bottle kiln
bottle labeler
bottle labeling
bottle maker
bottle mold
bottle molder
bottle nose
bottle opener
bottle ore
bottle palm
bottle party
bottle pool
bottle rinser
bottle screw
bottle slider
bottle soaker
bottle sterilizer
bottle stopper
bottle sucker
bottle swallow
bottle tit
bottle tree
bottle turning
bottle up
bottle washer
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
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
boundary value problem
boundary-marking
bounden duty
bounden to
bounding bow
boundless pit
bounty hunter
bounty jumper
bounty jumping
bounty-fed
bouquet garni
bouquet larkspur
bouquets garnis
bourbon and branch water
bourbon rose
bourbon whiskey
bourbon whisky
bourdon lace
bourgeois gentilhomme
bourgeois taste
bouton pearl
bouts-rimes
bovine animal
bovine trichomoniasis
bovine vaccine
bover boots
bow and arrow
bow and scrape
bow back
bow bearer
bow bells
bow brace
bow cap
bow chaser
bow chasing
bow collector
bow compass
bow divider
bow down
bow down and worship
bow down before
bow drill
bow dye
bow fast
bow file
bow front
bow hair
bow hand
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
bow-windowed
bow-wow
bowed down
bowed-down
bowel movement
bowel-hive grass
bowels of compassion
bowels of mercy
bowels of the earth
bower anchor
bower plant
bower-bird
bowhead bird
bowie knife
bowie-knife
bowing acquaintance
bowing and scraping
bowing down
bowing stone
bowl a bosey
bowl a googly
bowl a wrong 'un
box chronometer
box chuck
box clip
box cloth
box coat
box column
box cooper
box coot
box cornice
box couch
box coupling
box coverer
box crab
box cutter
box day
box dolly
box drain
box dresser
box edging
box elder
box end
box family
box frame
box front
box gauge
box girder
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
box-elder bug
box-haul
box-leaved
box-locking
box-nailing
box-office
box-plaited
box-shaped
box-strapping
box-top mission
box-tree
box-trimming
box-turning
boxed cornice
boxed in
boxed-in
boxer shorts
boxer's ear
boxer-off
boxer-up
boxing blow
boxing day
brachy-
bracken sickness
bracket capital
bracket clock
bracket crab
bracket foot
bracket fungus
bracket plate
bracket saw
bracket trail
bracketed blenny
bract scale
brad punch
brady-
brag about
brag yourself up
braid bonnet
braid fern
braid wool
braided rope
braided stream
brain box
brain cactus
brain case
brain cavity
brain cell
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-goose
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
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
braze-jointed
brazen boldness
brazen it out
brazen law of wages
brazen out
brazen through
brazen-barking
brazen-browed
brazen-clawed
brazen-colored
brazen-face
brazen-faced
brazen-facedly
brazen-fisted
brazen-floored
brazen-footed
brazen-fronted
brazen-gated
brazen-headed
brazen-hilted
brazen-hoofed
brazen-imaged
brazen-leaved
brazen-lunged
brazen-mailed
brazen-mouthed
brazen-pointed
brazil nut
brazil wood
brazing alloy
bre kekekeke
breach of contract
breach of faith
breach of friendship
breach of law
breach of privilege
breach of promise
breach of public trust
breach of the peace
breach of trust
breach the law
bread and butter
bread and water
bread and wine
bread bag
bread baker
bread beetle
bread bin
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-crumble
bread-crumbling
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 of
break of day
break of serve Tennis
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
breaking engine
breaking joint
breaking load
breaking loose
breaking off of negotiations
breaking out
breaking piece
breaking plough
breaking plow
breaking point
breaking strength
breaking up
breaking water
breaking-in
breakoff point
breaks, the
breakthrough weapons
breakup switch
breakup value
breast auger
breast backstay
breast beam
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
breach action
breach birth
breach bolt
breach delivery
breach mechanism
breach piece
breach pin
breach plug
breach screw
breach sight
breach-loader
breach-loading
breechblock plunger
breeches buoy
breeches money
breeches part
breeches pipe
breaching body
breaching loop
breaching 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
bridge house
bridge islet
bridge joint
bridge lamp
bridge lock
bridge maker
bridge money
bridge over
bridge passage
bridge pewee
bridge piece
bridge rail
bridge seat
bridge sign
bridge stay
bridge stone
bridge table
bridge tower
bridge train
bridge wall
bridge whist
bridge-house
bridle bar
bridle bridge
bridle cable
bridle chain
bridle gate
bridle hand
bridle iron
bridle joint
bridle part
bridle path
bridle port
bridle rein
bridle road
bridle rod
bridle stricture
bridle tape
bridle trail
bridle up
bridle way
bridle wire
bridle-wise
brief bag
brief case
brief of title
brief span
brief success
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
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-mindedly
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-spaying
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
bromo-
brome grass
bromic acid
bromide paper
bromine pentafluoride
bromine water
bromo-
bromoil process
bromoil transfer
bronch-ronchial asthma
bronchial pneumonia
bronchial tube
bronchial tubes
bronchio-roncho-ronco grass
bronx cheer
bronze age
bronze caster
bronze diabetes
bronze medal
bronze smelter
bronze star medal
bronze-bearing
bronze-bound
bronze-brown
bronze-casting
bronze-clad
bronze-colored
bronze-covered
bronze-foreheaded
bronze-gilt
bronze-gleaming
bronze-golden
bronze-haired
bronze-purple
bronze-shod
bronze-winged
bronze-yellow
bronzed diabetes
bronzed grackle
brood above
brood bud
brood cell
brood chamber
brood gemma
brood mare
brood nest
brood over
brood patch
brood pouch
brooder house
broody coop
broody hen
brook bean
brook betony
brook celandine
brook feather
brook lamprey
brook lobelia
brook mink
brook mint
brook no
brook no denial
brook pimpernel
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 bull
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
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
bucking bronco
bucking hammer
bucking kier
bucking plate
buckle bobber
buckle burnisher
buckle chain
buckle coverer
buckle down
buckle down to
buckle finisher
buckle forgery
buckle into
buckle maker
buckle mounter
buckle on your armor
buckle presser
buckle rollerer
buckle stamper
buckle to
buckle tongue
buckle tonguer
buckle under
buckle yourself
buckle-beggar
buckler fern
buckler maker
buckler mustard
buckler play
buckler player
buckler-fern
buckler-headed
buckler-shaped
bucks-beard
buckshot pattern
buckthorn brown
buckthorn family
buckwheat cake
buckwheat coal
buckwheat family
buckwheat flour
buckwheat sage
buckwheat tree
buckwheat vine
bucolic caesura
bud brush
bud from
bud grafting
bud gum
bud moth
bud mutation
bud rot
bud sage
bud scale
bud sport
bud stick
bud variation
bud variety
bud vase
buddy sap
buddy system
buddy up
buddy-boy
buddy-buddy
budge bachelor
budge barrel
budge-barrel
budget account
budget items
budget of news
budget plan
budget prices
buenas noches
buenos dias
buff Orpington
buff coat
buff leather
buff nor stye
buff stick
buff top
buff wheel
buff, the
buff-backed
buff-bare
buff-breasted
buff-citrine
buff-colored
buff-orange
buff-tipped
buff-washed
buff-yellow
buffalo apple
buffalo berry
buffalo bird
buffalo bug
buffalo bur
buffalo bush
buffalo carpet beetle
buffalo chips
buffalo cholera
buffalo cloth
buffalo clover
buffalo cod
buffalo currant
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-
bull 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 conveyor
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 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
bullet wood
bullet-head
bullet-hole
bullet-resisting glass
bulletin board
bulletproof vest
bullhead kelp
bullhead lily
bullhead shark
bulling bar
bullion balance
bullion fringe
bullion lace
bullion melter
bullion point
bullion smelter
bullion stitch
bullish market
bullish prices
bullit grape
bullnose header
bullnose step
bullnose stretcher
bullnose tool
bullock block
bullock cart
bullock heart
bullock's heart
bullock's-heart
bullshit artist
bully beef
bully tree
bully-off
bully-rock
bulrush millet
bulwark plating
bum a ride
bum around
bum steer
bum's rush
bum's rush, the
bum-
bumble-bee
bumble-puppy
bumblebee coot
bumblebee hawk moth
bumblebee root
bump against
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
bunji-bunji
bunk bed
bunk chain
bunk fence
bunker coal
bunker oil
bunko artist
bunko steerer
bunny brown
bunny girl
bunny hop
bunny hug
bunny rabbit
bunsen burner
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
burning-wood
burnished-gold
burnishing die
burnt Italian earth
burnt Roman ocher
burnt ale
burnt almond
burnt almonds
burnt carmine
burnt cork
burnt crimson lake
burnt lake
burnt lime
burnt line
burnt ocher
burnt offering
burnt orange
burnt rose
burnt sienna
burnt umber
burnt up
burnt-child
burnt-out
burnt-umber
burnt-up
burp gun
burr chisel
burr-pump
burr-stone
burras-pipe
burrel fly
burrel shot
burrel-fly
burrel-shot
burring machine
burro deer
burro-back
burrow duck
burrow-duck
burrowing blenny
burrowing owl
burrows-town
burst forth
burst in
burst into bloom
burst into flame
burst into laughter
burst into song
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-rop
bush-shrike
bush-skirted
bush-tailed
busheled iron
bushy aster
bushy-bearded
bushy-browed
bushy-ear
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-
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
butter-rigged
butter-rose
butter-smooth
butter-toothed
butterboat-bill
butterboat-billed
buttercup family
buttercup yellow
buttered eggs
buttered rum
butterfly agama
butterfly bomb
butterfly bush
butterfly chair
butterfly dam
butterfly damper
butterfly dance
butterfly dock
butterfly fish
butterfly flower
butterfly lily
butterfly map
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
buy time
buy up
buyer four
buyer resistance
buyer ten
buyer's strike
buyers' market
buyers' strike
buying and selling
buying in
buying option
buying power
buying right
buying up
buzz about
buzz along
buzz bomb
buzz off
buzz planer
buzz saw
buzz session
buzz track
buzz word
buzzard clock
buzzard curlew
buzzard grass
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 leaps and bounds
by little and little
by long odds
by mail
by main force
by marriage
by me
by means of
by memory
by merest chance
by my halidom
by name
by nature
by necessity
by night
by no manner of means
by no means
by odds
by one
by order
by ordinary
by parol
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 way of opposition
by way of parenthesis
by what means
by what mode
by what name
by whatever name
by wholesale
by word of mouth
by your leave
by your lonesome
by your own petard
by yourself
by-
by-alley
by-altar
by-and-by
by-and-large
by-bid
by-bidder
by-bidding
by-blow
by-boat
by-channel
by-child
by-chop
by-cock
by-common
by-corner
by-day
by-dependency
by-design
by-doing
by-doingby-drinking
by-drinking
by-dweller
by-effect
by-election
by-end
by-fellow
by-fellowship
by-form
by-gold
by-hour
by-interest
by-issue
by-job
by-land
by-lane
by-law
by-lead
by-line
by-live
by-matter
by-motive
by-name
by-office
by-pass
by-pass capacitor
by-pass condenser
by-passage
by-passed
by-passer
by-passing
by-past
by-path
by-paths
by-place
by-play
by-plot
by-product
by-product oven
by-purpose
by-reaction
by-respect
by-result
by-road
by-room
by-route
by-sitter
by-speech
by-spel
by-stake
by-street
by-stroke
by-talk
by-term
by-the-bye
by-the-way
by-thing
by-throw
by-thrust
by-time
by-tone
by-track
by-trail
by-turning
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
c a canny
c a sa
c'a' canny
c'a'-thro'
c'a'ing-whale
c a-ca
caaing whale
cab fare
cab hire
cabana set
cabaret tax
cabbage aphis
cabbage bark
cabbage bug
cabbage butterfly
cabbage lettuce
cabbage moth
cabbage palm
cabbage palmetto
cabbage repeatedly
cabbage root fly
cabbage rose
cabbage tree
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
actus dahlia
actus family
actus geranium
actus wren
addie bag
addie car
addie cart
addis bait
addis case
addis fly
addis worm
addie spoon
acency mark
adet blue
adet cloth
adet gray
adet grey
adge a ride
adium bronze
adium carmine
adium cell
adium green
adium orange
adium poisoning
adium red
adium standard cell
adium sulfide
adium sulphate
adium sulphide
adium vermilion
adium yellow
cae-
caen-
caen-stone
caesarian section
cesium 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
cain law
caipe-r-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
calce-
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 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
callcedra 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
calliopae hummingbird
calliper compasses
calliper rule
calliper splint Med
callis sand
callis-sand
callithumpian band
callosal convolution
callosal 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
cameo blue
cameo conch
cameo encrustation
cameo glass
cameo pink
cameo role
cameo stamper
cameo ware
camera angle
camera assembler
camera booth
camera deflection generator
camera lucida
camera obscura
camera tube
camera tubes
camera-eye
camera-ready copy
camera-shy
camino real
caminos reales
camomile oil
camp ball
camp bed
camp bird
camp car
camp ceiling
camp chair
camp circle
camp color
camp disease
camp fever
camp fire girl
camp flux
camp follower
camp hospital
camp it up
camp meeting
camp on the trail of
camp out
camp robber
camp root
camp royal
camp sheathing
camp site
camp stove
camp trailer
camp-fight
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 sauve
canary bird
canary creeper
canary flower
canary glass
canary grass
canary moss
canary nut
canary seed
canary stone
canary vine
canary weed
canary wine
canary wood
canary yellow
canary-bird
canary-bird flower
canary-yellow
canarybird flower
canarybird vine
cancel out
canceled check
canceled type
Cancellation clause
cancellation law
cancer cell
cancer eye
cancer jalap
cancer parasite
cancer stick
candle-snuff
Загар
candle-tapering
candle-tree
Загар
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 striping
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
canon-royal
canon-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
castle 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
cap jib
cap maker
cap nut
cap octavo
cap of darkness
cap of dignity
cap of estate
cap of maintenance
cap paper
cap piece
cap pistol
cap rhymes
cap rock
cap screw
cap scuttle
cap spinning
cap square
cap the climax
cap verses
cap-a-pie
cap-case
cap-flash
capital assets
capital bonus
capital budget
capital city
capital crime
capital expenditure
capital fellow
capital gain
capital gains
capital gains distribution
capital gains tax
capital goods
capital investment
capital joke
capital levy
capital loss
capital market
capital operation
capital punishment
capital ship
capital stock
capital stock n
capital structure
capital style
capital styles
capital sum
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 fig wasp
caproic acid
caprylic acid
capsicum wool
capsizing moment
capstan bar
capstan bolt
capstan lathe
capstan screw
capstan table
capstan tool rest
capstan-headed
capsul-\-ing moment


captain ball
captain general

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
captious critic
captive audience
captive balloon
captive bolt
captive nation
captive test

capture on film
capture theory

captured-air bubble
captured-air vehicle
capuchin capers
capucine buff
capucine lake
capucine madder
capucine orange
capucine red
capucine yellow
caput mortuum
car accounting
car bit
car brake
car card
car coat
car coupler
car coupling
car dumper
car ferry
car float
car frame
car framer
car greaser
car heater
car knocker
car line

car lot

car mileage

car movement

car of Jagannath

car of Juggernaut

car park

car pool

car rail

car replacer

car retarder

car ride

car sealer

car service

car shed

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
cardiogenic 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
carnation-red
carnauba wax
carnegie unit
carnelian red
carnival glass
carnival lace
carnosoid

carob bean
carob brown
carob gum
carob tree
caroline hat

carom ball
carom into
carotid artery
carotid body
carotid gland
carotid sinus
carp at

carp louse
carp sucker

carpal tunnel syndrome

carpe diem
carpenter ant
carpenter bee
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-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'entree
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 quittor
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 lagger-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-buttressed
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
casu 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

...
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
catch your eye
catch-
catch-22
catch-all
catch-as-catch-can
catch-cord
catch-up
catcher resonator
catchfly grass
catchment area
catchment basin
catchwater drain
catchword entry
catclaw acacia
catechetical method
catechetical school
categoric contact
categorical imperative
categorical proposition
categorical syllogism
categorically reject
categorically true
catenary furnace
catenary system
cater to
cater trey
cater-corner
cater-cornered
cater-cousin
cater-cousinship
catercorner ar catty-corner
catercorner kitty-corner
caterpillar catcher
caterpillar fern
caterpillar fungus
caterpillar gate
caterpillar hunter
caterpillar plant
caterpillar tractor
caterpillar tread
catfoot poplar
cath-
catharine wheel
cathe
cathedral builder
cathedral ceiling
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 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

cattle-plague

cattle-ranching
cattle-specked

cattleya fly
catty-co
catty-corner

catty-cornered

caucus nomination

cauda galli

cauda-galli grit

caudal anesthesia

caudal appendage

caudal fin

caudal peduncle

caudle cup

cought in your own trap

cought napping

cought off balance

cought off base

cought short

cought tripping
caught up in
catched with your pants down
caul board
caul fat
cauliflower cheese
cauliflower disease
cauliflower ear
cauliflower excrescence
cauliflower ware
cauliflower-eared
caulk off
caulking chisel
caulking cotton
caulking iron
caulking tool
caulo-
causa causans
causa finalis
causa sine qua non
causal body
causal glance
causal sequence
causal treatment
cause and effect
cause celebre
cause clbre
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
causation by
causeway grass
causation cause
causative alcohol
causative baryta
causative critic
caustic curve
cautic lime
cautic potash
cautic remark
cautic soda
cautic surface
caution card
caution light
caution money
cavalier battery
cautioner projection
cavalier servant
cavalier servente
cavalier servitude
cavaliere servente
cavalier 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
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
cellulo-
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
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
central time
central-fire
centralized school
centrally heated
centre bit
centre forward
centre half
centre of curvature
centre of gravity
centre of mass
centre of pressure
centre punch
centre section
centre spread
centre three-quarter
centre-fire
centred dot
centri-
centrifugal action
centrifugal box
centrifugal casting
centrifugal force
centrifugal pot
centrifugal pump
centrifugal spinning
centripetal action
centripetal force
centro-
centum languages
centuple calorie
century aloe
century plant
cephal-
cephalic index
cephalo-
cephalopelvic disproportion
ceramic cartridge
ceramic engineer
ceramic engineering
ceramic material
ceramic microphone
ceramic pickup
ceramic ware
cerat-
cerato-
cercis-leaf
cereal bowl
cereal plant
cerebellar hemispheres
cerebello-olivary
cerebr-
cerebral accident
cerebral cortex
cerebral dominance
cerebral hemisphere
cerebral hemispheres
cerebral meningitis
cerebral palsied
cerebral palsy
cerebral rheumatism
cerebral shock
cerebral tabes
cerebral tuberculosis
cerebro-
cerebro-ocular
cerebro-spinal
cerebrospinal fever
cerebrospinal fluid
cerebrospinal meningitis
cerebrospinal nervous system
cerebrovascular accident
ceremonial attire
ceremonial tea
ceric oxide
cerinic acid
cerium dioxide
cerium metal
cerium metals
cerium oxide
cero-
ceroso-
cerotic acid
cerre-tree
cerro green
 certain knowledge
 certain person
 certainly not
 certifiable case
 certificate of admeasurement
 certificate of character
 certificate of deposit
 certificate of enrollment
 certificate of incorporation
 certificate of indebtedness
 certificate of insurance
 certificate of invention
 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
chain coupling
close chain
close coupling
close discount
close dog
close drill
close drive
close driving
close fall
close feed
close fern
close gang
close gear
close gearing
close grab
close grate
close guard
close harrow
close hoist
close hook
close isomerism
close joiner
close jointer
close knot
close letter
close lightning
close line
close link fence
close linker
close locker
close mail
close maker
close mark
close measure
close mechanism
close of being
close of cause and effect
close of circumstances
close of command
close of evidence
close of ideas
close of office
close of thought
close 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
chain well
chain wheel
chain whip
chain winding
chain wrench
chain-bag
chain-bridge
chain-driven
chain-drooped
chain-grate stoker
chain-mail armor
chain-pull lamp holder
chain-pull switch
chain-pump
chain-react
chain-reacting
chain-reacting pile
chain-shaped
chain-shot
chain-smoke
chain-smoked
chain-smoker
chain-smoking
chain-spotted
chain-stitch
chain-stitching
chain-swung
chain-testing
chain-wale
chain-welding
chain-work
chaining pin
chair arm
chair back
chair bed
chair binder
chair bottom
chair bottomer
chair cane
chair car
chair leg
chair lift
chair of English
chair organ
chair rail
chair seat
chair seater
chair shaper
chair table
chair turner
chair, the
chair-fast
chair-mortising
chair-shaped
chair-warmer
chairman of the board
chaise cart
chaise d'or
chaise longue
chaise longues
chaise lounge
chaise-longue
chaise-marine
chaises longues
chakazzi copal
chalcedony yellow
chalcid fly
chalcid wasp
chalcis fly
chalco-
chalice cell
chalice flower
chalice moss
chalice veil
chalice vine
chalk and talk
chalk burner
chalk cliff
chalk down
chalk dust
chalk engraving
chalk flint
chalk hill
chalk lime
chalk line
chalk maple
chalk mixture
chalk out
chalk pit
chalk plant
chalk process
chalk quarry
chalk stripe
chalk talk
chalk talker
chalk up
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
champleve 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
cannel-back chair
canson de geste
cansons de geste
cchant du cygne
chant-fable
chant-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
chapter head
chapter house
chapter of accidents
chapter ring
char-
char-a-banc
char-a-bancs
character actor
character assassination
character dance
character dancing
character disorder
character dress
character group
character loan
character man
character part
character piece
character reference
character sketch
character study
character type
character witness
caracter woman
characteristic curve
characteristic equation
characteristic function
characteristic polynomial
characteristic root
characteristic subgroup
characteristic value
characteristic vector
characteristic velocity
characteristic x-ray
charcoal black
charcoal burner
charcoal drawing
charcoal fire
charcoal furnace
charcoal gray
charcoal grey
charcoal iron
charcoal oven
charcoal paper
charcoal pencil
charcoal pit
charcoal plate
charcoal point
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
cheek 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
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
chevron-shaped
crush ass
crush out
crush over
crush the cud
crush the fat
crush the rag
crush the scenery
crush up
crush up the scenery
crush your
crushing gum
crushing louse
crushing tobacco
crushing-out
down soi
down lin
down rho
down square
down square distribution
down square test
down squared test
down turpentine
downica red
downick pea
downickasaw plum
downick Cacciatore
downick Kiev
downick Marengo
downick Tetrazzini
downick and dumplings
downick bird
downick breast
downick broth
downick cholera
downick colonel
downick coop
downick corn
downick fancier
downick farm
downick farmer
downick farming
downick 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-heartenedness
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
chief-justiceship
chief-pledge
chiefly Austral
chiff chaff
chiff-chaff
chignon bob
chigoe flea
chigoe-poison
chih hsien
child actor
child benefit
child born out of wedlock
child care
child guidance
child labor
child labour
child life
child mind
child minder
child of nature
child prodigy
child psychiatry
child psychology
child rearing
child welfare
child's play
child-bearing
child-bered
child-birth
child-fashion
child-god
child-hearted
child-heartedness
child-loving
child-minded
child-mindedness
childbed fever
childhood's careless days
childish scrawl
childish treble
children of Israel
children of darkness
children of the devil
children's book
children's dictionary
children's hospital
children's librarian
children's magazine
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
chinless wonder
chino-
chinook jargon
chinook salmon
chinook wind
chinquapin oak
chip ax
chip basket
chip bird
chip board
chip break
chip budding
chip carving
chip in
chip log
chip of
chip of the old block
chip off
chip off the old block
chip on the shoulder
chip on your shoulder
chip pan
chip ring
chip shot
chip-hat palm
chip-proof
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
chock cheese
chock stone
chock-a-block
chock-full
chocolate bar
chocolate brown
choke back
choke coil
choke collar
choke off
choke on
choke out
choke pear
choke point
choke up
choke-
choke-bore
choke-full
choked off
choked up
choked voice
choker setter
choking coil
choking off
chol-
cholane series
chole-
cholera horn
cholera infantum
cholera morbus
cholera nostras
cholic acid
choline esterase
cholo-
chomp at the bit
chondr-
chondro-
chondro-osesous
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
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
 choses in action
 choses in possession
 choses local
 choses transitory
 chota hazri
 chou moellier
 chou paste
 chou pastry
 chou-fleur
 chouse out of
 choux pastry
 chow chow
 chow down
 chow line
 chow mein
 chow-chow
 chrisom child
 christ's-thorn
 christ-cross
 christ-cross-row
 christ-like
 christ-tide
 christcross-row
 christian brother
 christian dor
 christian era
christian name
christian reformed
christian science
christiano-
christmas tree
christo-
christy minstrel
chrom-
chroma-blind
chromat-
chromatic aberration
chromatic circle
chromatic color
chromatic colour
chromatic scale
chromatic semitone
chromatic sign
chromatic spectrum
chromatic tetrachord
chromaticity coordinate
chromaticity coordinates
chromaticity diagram
chromatin strands
chromato-
chrome acetate
chrome alum
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
chronic acid
chronic chloride
chronic 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
chuck-full
chuck-luck
chuck-will's-widow
chucker-out
chuckers-out
chucking lathe
chucking out
chucking reamer
chucky-chuck
chucky-chucky
chug on
chug-a-lug
chug-chug
chukar partridge
chukka boot
chukka boots
chukker brown
chulan family
chum salmon
chum together
chum with
chump end
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
cilo-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
circle-in
circle-out
circle-shearing
circle-squaring
circle-wise
circled about
circling boy
circling disease
circling-in
circling-out
circuit analysis
circuit analyzer
circuit binding
circuit breaker
circuit court
circuit court of appeals
circuit drive
circuit edges
circuit judge
circuit justice
circuit network
circuit rider
circuit training
circuital field
circular argument
circular constant
circular error
circular error probable
circular function
circular knitting
circular letter
circular light
circular measure
circular mil
circular note
circular pitch
circular plane
circular polarization
circular probable error
circular sailing
circular saw
circular triangle
circular velocity
circular-cut
.circular-cut file
.circular-knit
circulate a petition
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-fillum
cirro-filum
cirro-macula
cirro-nebula
cirro-stome
cirro-strative
cirro-stratus
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 ward
city-born
city-bound
city-bred
city-commonwealth
city-god
city-manager plan
city-state
city-wide
civet bean
civet cat
civet fruit
civet-cat
civette green
civic centre
civic crown
civic garland
civic wreath
civic-minded
civic-mindedly
civic-mindedness
civil affairs
civil architect
civil architecture
civil ceremony
civil code
civil court
civil day
civil death
civil defence
civil defense
civil disobedience
civil disorder
civil engineer
civil engineering
civil government
civil jurisdiction
civil law
civil liberties
civil liberty
civil list
civil marriage
civil rights
civil servant
civil service
civil time
civil war
civil wedding
civil year
civil-law
civil-rights
civilian clothes
civilian dress
civilized behavior
civilized taste
clabber up
cleck box
cleck door
cleck goose
cleck 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
clear de lune
clear-obsure
clam chowder
clam digger
clam diggers
clam shell
clam up
clammer 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
clashingly colored
clasp hook
clasp knife
clasp 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
classical economics
classical economist
classical education
classical guitar
classical guitarist
classical language
classical mechanics
classical music
classical physics
classical pitch
classical purity
classical scholarship
classical tragedy
classico-
classico-lombardic
classification schedule
classification society
classification track
classification yard
classified ad
classified advertisement
classified advertising
classified catalog
classified directory
classified information
classroom building
clatter about
clause boundary
clause terminal
claustral prior
claver grass
clavicembal damour
clavicu-lo-humeral
claw back
claw balk
claw bar
claw clutch
claw fern
claw foot
claw hammer
claw hand
claw hatchet
claw nut
claw off
claw setting
claw sickness
claw skyward
claw to windward of
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-built
clay-cold
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
clayver-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
clean-lived
clean-living
clean-looking
clean-made
clean-minded
clean-moving
clean-sailing
clean-saying
clean-seeming
clean-shanked
clean-shaped
clean-shaved
clean-shaven
clean-skin
clean-skinned
clean-smelling
clean-souled
clean-speaking
clean-sweeping
clean-thinking
clean-timbered
clean-washed
cleaned up
cleaner cell
cleaner tooth
cleaner-off
cleaner-out
cleaner-up
cleaning agent
cleaning crop
cleaning devices
cleaning fluid
cleaning hinge
cleaning lady
cleaning man
cleaning out
cleaning shoe
cleaning solvent
cleaning up
cleaning woman
cleanly habits
cleanse away
cleanse yourself of guilt
cleansing away
cleansing cream
cleansing tissue
clear and distinct
clear as crystal
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-sightly
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
clearing bearing
clearing house
clearing lease
clearing loan
clearing mark
clearing nut
clearing of the track
clearing of your name
clearing out
clearing pole
clearing the decks
clearing up
clearinghouse agent
clearinghouse stock
clearly visible
clearwing moth
cleat work
cleavage cavity
cleavage cell
cleavage crystal
cleavage nucleus
cleave to
cleave to the line
cleave to the thought of
cleft grafting
cleft lip
cleft palate
cleft sentence
cleft weld
cleft-footed
cleft-graft
cleido-mastoid
cleido-occipital
cleidoic egg
clench your fist at
clench-built
clergy house
clerical collar
clerical error
clerical garments
clerical insignia
clerical order
clerico-
clerico-political
clerk in holy orders
clerk of the HouseBrit
clerk of the works
clerk regular
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
ciff 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
clinging-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-
clintonite 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
climbing time
clique with
clish-clash
clish-ma-claver
cloaca maxima
cloacae maximae
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-suit
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-coifed
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-fisted
close-fitting
close-gleaning
close-grain
close-grained
close-grated
close-handed
close-haul
close-hauled
close-headed
close-herd
close-hooded
close-in
close-jointed
close-kept
close-knit
close-latticed
close-legged
close-lipped
close-lying
close-meshed
close-minded
close-mouthed
close-order drill
close-out
close-packed
close-partnered
close-pent
close-piled
close-pressed
close-reef
close-reefed
close-ribbed
close-rounded
close-set
close-shanked
close-shaven
close-shut
close-soled
close-standing
close-sticking
close-stool
close-talking microphone
close-tempered
close-textured
close-thinking
close-tongued
close-up
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 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-spread
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-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
cloaked mind
cloaked over
cloaked sulfur
cloakedless sulphur
cloaked over
clouds on the horizon
clout nail
cloot shoot
cloot shot
cloot-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
clover blossom
clover broom
clover broomrape
clover cent
clover dodder
clover fern
clover grass
clover hay
clover hay worm
clover head
clover honey
clover leaf
clover mite
clover root
clover root borer
clover rot
clover seed
clover stubble
clover weevil
clover wilt
clover worm
clover-grass
clover-leaf midge
clover-leaf roll
clover-seed midge
clover-sick
clover-sickness
cloverleaf aerial
clovis point
clow-gilofre
clown around
clown white
club car
club chair
club cheese
club compass
club coupe
club fighter
club foot
club fungus
club grass
club hand
club head
club law
club link
club lounge chair
club mold
club moss
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
coco-adventure
co-afforest
co-agency
co-allied
co-ally
co-appear
co-aration
co-assessor
co-assist
co-attest
co-operator
cooperculum
coopt
cooptate
cooptation
cooptative
cooption
cooptive
cooordain
cooordainer
cooorder
cooordinacy
cooordinal
cooordinance
cooordinancy
cooordinate
cooordinately
cooordinateness
cooordination
cooordination formula
cooordination number
cooordinative
cooordinator
cooordinatory
cooorganize
cooorigin
coooriginal
coooriginality
coo-orthogonal
cooorthotomic
cooossification
cooossify
cooowner
cooownership
coopatriot
coopresence
cooradicate
cooradent
cooradent
cooradent
cooradent
cooradent
cooradent
cooradent
co-starring
co-subordinate
co-supreme
co-sureties
co-surety
co-tenant
co-tidal
co-trustee
coune
co-unite
co-use
co-versed
co-walker
cowidow
cowife
cowinner
cowork
coworker
coworking
coworship
couch box
couch carver
couch coat
couch dog
couch driver
couch driving
couch guard
couch hire
couch horse
couch house
couch maker
couch painter
couch road
couch screw
couch-and-four
couch-box
couch-built
couch-whip
couching glass
couching house
couching inn
couchwhip bird
couchwhip snake
coadjutor bishop
coaed
coagulated protein
coal backer
coal backing
coal ball
coil barge
coil barrow
coil basket
coil bin
coil blacking
coil blende
coil boat
coil brass
coil breaker
coil bucket
coil bunker
coil car
coal cart
coil cartman
coil cellar
coil checker
coil chute
coil cleaner
coil contractor
coil conveyer
coil crusher
coil cutter
coil depot
coil digger
coil discharger
coil dredger
coil drill
coil dump
coil dust
coil elevator
coil field
coil flap
coil fleet
coil furnace
coil gas
coil goose
coil grinder
coil hauler
coil hawker
coil heat
coil heaver
coil hewer
coil hod
coil hoist
coil hole
coil kiln
coil labeler
coal leveler
coal loader
coal lump
coal measures
coal mine
coal miner
coal mining
coal oil
coal operator
coal pass
coal pick
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 tip
coal tipple
coal tit
coal tongs
coal trimmer
coal truck
coal unloader
coal wagon
coal washer
coal washery
coal weigher
coal wharf
coal wharfinger
c 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
coal-picking
coal-pit
coal-producing
coal-pulverizing
coal-sack
coal-scuttle
coal-sifting
coal-stone
coal-tar
coal-tar creosote
coal-tar crude
coal-tar dye
coal-tar pitch
coal-tester
coal-tit
coal-whipper
coal-whipping
coal-works
coaling station
coalition government
coarse fish
coarse texture
course-featured
course-fibered
course-grained
course-grainedness
course-haired
course-handed
course-lipped
course-minded
course-skinned
course-spoken
course-spun
course-textured
course-tongued
course-toothed
course-wrought
coarseness of grain
coarseness of intellect
coast artillery
coast belt
coast fever
coast grass
coast guard
coast guard cutter
coast jointweed
coast lily
coast live oak
coast nutmeg
coast patrol
coast pilot
coast rat
coast redwood
coast rhododendron
coast seal
coast station
coast trade
coast trillium
coast-fishing
coast-guard cutter
coast-to-coast hookup
coastal navigation
coastal plain
coaster brake
coasting flight
coasting lead
coasting trade
coasting wagon
costwise navigation
coat armor
count armour
count arms
count card
count flower
count hanger
count money
count of arms
count of mail
count of paint
count shirt
count-armor
count-card
count-money
count-of-mail shell
count-of-plates construction
count-tail
counted lens
counti-mondi
counti-mundi
counting paper
countial cable
countial network
countial propellers
countial speaker
cob cactus
cob coal
cob loaf
cob meal
cob money
cob swan
cob wall
cob-iron
cob-nut
cob-swan
cobalt 60
cobalt bloom
cobalt blue
cobalt bomb
cobalt bronze
cobalt chloride
cobalt crust
cobalt glance
cobalt glass
cobalt green
cobalt hydroxide
cobalt potassium nitrite
cobalt red
cobalt sulphate
cobalt therapy
cobalt ultramarine
cobalt violet
cobalt violet deep
cobalt violet light
cobalt vitriol
cobalt yellow
cobalt-
cobaltiferous wad
cobalto-
cobaltous hydroxide
cobble coal
cobble gravel
cobble rammer
cobble-stone
cobbler's wax
cobra de capello
cobra plant
cobra-hooded
cobras de capello
coburg loaf
cobweb bird
cobweb houseleek
cobweb micrometer
cobwebs of antiquity
cocaine family
cocaine plant
cocaine sniffer
coccidioidal granuloma
cocculus 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 head
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
cock-a-doodle--dooed
cock-a-doodle--dooing
cock-a-doodle-doo
cock-a-doodle-doos
cock-a-hoop
cock-a-hooping
cock-a-hoopish
cock-a-hoopness
cock-a-leekie
cock-a-whoop
cock-and-bull
cock-and-bull story
cock-and-bull-story
cock-and pinch
cock-as-hoop
cock-awhoop
cock-bill
cock-boat
cock-brain
cock-brained
cock-crow
cock-crowing
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
cooky-leeky
cookyolly bird
cookyoly 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-moody
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
coeeducational 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
coel-
coelanaglyphic sculpture
coeliac disease
celiac plexus
celio-
coelo-
coen-
coeno-
coercive force
coff-fronted
coffee bag
coffee bar
coffee bean
coffee beans
coffee berry
coffee blight
coffee borer
coffee bread
coffee break
coffee cake
coffee cherry
coffee corn
coffee cream
coffee cup
coffee disease
coffee fern
coffee grinder
coffee house
coffee klatch
coffee klatsch
coffee maker
coffee mill
coffee morning
coffee nib
coffee nut
coffee party
coffee pea
coffee plant
coffee planter
coffee ring
coffee roaster
coffee royale
coffee senna
coffee shell
coffee shop
coffee spoon
coffee stall
coffee strainer
coffee table
coffee tree
coffee urn
coffee wit
coffee-and
coffee-blending
coffee-brown
coffee-cleaning
coffee-color
coffee-colored
coffee-faced
coffee-grading
coffee-grinder winch
coffee-grinding
coffee-house
coffee-imbibing
coffee-klatsch
coffee-making
coffee-planter
coffee-planting
coffee-polishing
coffee-roasting
coffee-room
coffee-scented
coffee-table book
coffer-dam
coffer-work
cofferdam bulkhead
coffin block
coffin boat
coin-separating
coin-shaped
coin-weighing
coinage bronze
coinage of the brain
coinage ratio
coincidence counter
coined liberty
coining press
coining punch
coinsurance clause
coital exanthema
coitus interrupti
coitus interruptus
coitus reservatus
coke breeze
coke dust
coke iron
coke oven
coke plate
coke tin
coke tower
coke-bottle fuselage
coker-sack
col legno
col-
cola nut
cola seed
colatitude circle
colcannon night
colchicum root
cold abscess
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 shivers
cold short
cold shoulder
cold shower
cold shut
cold snap
cold sober
cold sore
cold sores
cold spell
cold steel
cold storage
cold straightener
cold sweat
cold therapy
cold turkey
cold type
cold war
cold warrior
cold water
cold wave
cold weather
cold wind
cold work
cold-blooded
cold-bloodedly
cold-bloodedness
cold-braving
cold-catching
cold-chisel
cold-chiseled
cold-chiseling
cold-chiselled
cold-chiselling
cold-complexioned
cold-cream
cold-draw
cold-drawing
cold-drawn
cold-drew
cold-engendered
cold-faced
cold-finch
cold-flow
cold-forge
cold-hammer
cold-hammered
cold-head
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-stain
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
collective enterprise
collective farm
collective farm worker
collective fruit
collective memory
collective noun
collective ownership
collective pitch lever
collective security
collective unconscious
collectivized economy
collector current
collector electrode
collector junction capacitance
collector of internal revenue
collector resistance
collector ring
collector signal current
collector signal voltage
colleen deas
colloen donn
college board
college boy
college cap
college church
college dictionary
college editor
college girl
college graduate
college ice
college man
college of Laputa
college of advanced technology
college of architecture
college of arms
college of dramatic arts
college of education
college of engineering
college of general studies
college of liberal arts
college of music
college of education
college pheasant
college pudding
college student
college try
college widow
college year
college-bred
college-preparatory
collegiate church
collegiate institute
collegium musicum
collet chuck
collet foot
collier's purchase
colliery 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 filter
color gamut
color gauge
color gelatin
color grinder
color guard
color harmony
color hearing
color index
color instrument
color instruments
color intensity
color kinescope
color line
color matcher
color measurement
color mill
color miller
color mixer
color mixture
color mixture curve
color mixture function
color music
color musician
color negative film
color organ
color party
color patterns
color phase
color photograph
color photography
color point
color print
color printing
color proof
color purity
color quality
color ratio
color reversal film
color salute
color scale
color scheme
color screen
color sense
color sentinel
color separation
color sergeant
color slab
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
colorado 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
coma berenices
coma vigil
comb back
comb bearer
comb case
comb disease
comb duck
comb fern
comb foundation
comb grain
comb holder
comb honey
comb jelly
comb marbling
comb morion
comb out
comb pot
comb pottery
comb rat
comb speedwell
comb ware
comb wheat grass
comb-back
comb-back chair
comb-broach
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-ye
come-along
come-at-ability
come-at-able
come-at-ableness
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
comic-iambic
comico-
coming after
coming and going
coming apart
coming ashore
coming between
coming by
coming from
coming in
coming into being
coming near
coming out
coming short
coming shy
coming to
coming to be
coming to pass
coming to terms
coming together
coming toward
coming unstuck
coming with child
coming-forth
coming-on
coming-out party
comings in
comity of nations
comma bacillus
comma blunder
comma butterfly
comma fault
comma splice
command a view of
command and general staff school
command car
command function
command guidance
command module
command money
command of idiom
command of language
command of money
command of words
command paper
command performance
command pilot
command post
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
comedie 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
commits 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
cold
common consent
cost
council
common councilman
denominator
descent
divisor
effort
endeavor
enterprise
factor
fee
fraction
gender
good
ground
iliac artery
informer
knowledge
laborer
law
logarithm
man
market
measure
men
meter
metre
multiple
nail
name
noun
oak
occurrence
of turbary
opal
ownership
people
person
phrase
pitcher plant
pleas
practice
prayer
property
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
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
complex control system
complex fraction
complex idea
complex integer
complex machine
complex number
complex plane
complex salt
complex sentence
complex variable
complexity of meaning
complicate matters
complimentary close
complimentary closing
complimentary remark
complimentary ticket
compliments of the season
comply with
comport yourself
compos mentis
compose oneself
compose poetry
compose your differences
compose your features
compose yourself
composed matter
composed of
composed throughout
composing frame
composing room
composing rule
composing stick
composite arch
composite balance
composite function
composite number
composite photograph
composite reading
composite sailing
composite school
composite shot
composite text
composite-built
composition carver
composition cloth
composition face
composition factor
composition formula
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
compression ratio
compression spring
compression stroke
compression tap
compression wave
compression-ignition
compression-ignition engine
compromise formation
compromise joint
compromise rail
compromise yourself
compte rendu
compte-rendu critique
comptes rendus
compulsion neurosis
compulsive character
compulsive gambler
compulsory arbitration
compulsory military service
compulsory purchase
compulsory referendum
compulsory servitude
concatenation system
concave lens
concave mirror
concéavo-
concéavo-concave
concéavo-convex
concéavo-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
conceptual realist
conceptually crude
concern oneself
concern yourself with
concert artist
concert band
concert border
concert etude
concert flute
concert grand
concert grand piano
concert guitar
concert hall
concert music
concert overture
concert party
concert performance
concert pitch
concert season
concert tour
concerted action
concerti grossi
concertina action
concertina movement
concertina table
concerto grosso
concerto grossos
concession road
conch hat
conch shell
conch-
concho grass
conciliation court
concluding line
conclusive argument
conclusive evidence
concours d'lgance
concrete art
concrete block
concrete identity
concrete layer
concrete mixer
concrete music
concrete noun
concrete number
concrete paint
concrete poetry
concrete universal
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
cone-headed
cone-in-cone
cone-nose
cone-shaped
conehead rivet
conehead toggle
coney leopard
coney mole
coney parsley
confabulate the breeze
confectioners' sugar
confectionery decorator
confederate memorial day
confederate rose
confer a benefit
confer a blessing upon
confer citizenship
confer distinction on
confer honor upon
confer with
conference at the summit
conference room
conference table
col Nurse
col fee
col fund
col go
col gout
col group
col gull
col gait
col gall
col gait
col gait
confirm in
confirmation class
confirmed bachelor
confirmed liar
conflict of interest
conflict of laws
conflict of sounds
conflict with
confluence of minds
confluent stream
conform map projection
conform representation
conform to
conform to fact
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
conglobate 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
conic projection
conic section
conic sections
conical pendulum
conical-shaped
conico-
conico-cylindrical
conico-elongate
conico-hemispherical
conico-ovate
conico-ovoid
conico-subhemispherical
conico-subulate
coniferyl alcohol
coning angle
conjoint therapy
conjugal bond
conjugal knot
conjugal love
conjugal right
conjugal tie
conjugate axis
conjugate numbers
conjugate solution
conjugated protein
conjugation canal
conjugation cell
conjugato-
conjugato-palmate
conjugato-pinnate
conjunction-reduction
conjunctive adverb
conjuncture of events
conjure man
conjure spirits
conjure up
conjure up a vision
conjure up spirits
conk out
connate-perfoliate
connect couple
connect up
connect with
connecting link
connecting rod
connection angle
connection bar
connection 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
conscientious objector
conscious of
conscious of your place
conscious self
consciousness raising
consciousness-expanding
consciousness-expansion
conscrip fathers
consecrate to
consecrated bread
consecrated elements
consecutive 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
constitute 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
consumed with curiosity
consumed with desire
consumer cooperative
consumer credit
consumer economy
consumer goods
consumer items
consumer power
consumer preference study
consumer price index
consumer research
consumer resistance
consumer sovereignty
consumer strike
consumer survey
consumer's strike
customer-preference survey
custodiate liar
custodiate lie
custodiate goods
custodiate weed
cont-line
contact a debt
contact action
contact agent
contact dermatitis
contact flight
contact flying
contact infection
contact lens
contact maker
contact making
contact man
contact metamorphism
contact microphone
contact mine
contact paper
contact poison
contact potential
contact print
contact printing
contact process
contact therapy
contact with reality
contactor switch
contagious disease
contagious abortion
contagious ecthyma
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
convetual 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
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
coop'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
coordinating 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
copaiba 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
copper-faced
copper-fastened
copper-headed
copper-leaf
copper-leaves
copper-lined
copper-melting
copper-plate
copper-red
copper-skinned
copper-smelting
copper-smith
copper-toed
copper-worm
copperas black
copperplate engraving
copperplate hand
copperplate press
copperplate print
coppery-tailed
coppice oak
coppice shoot
coppice-feathered
coppice-topped
copple-crown
copple-crowned
copple-stone
copr-
copra oil
copro-
cops and robbers
copse cutter
copse-clad
copse-covered
copulative asyndeton
copulative conjunction
copy after
copy camera
copy chief
copy desk
copy edit
copy editor
copy out
copy paper
copy taster
copy typist
copy-edit
copybook hand
copying ink
copying machine
copying machines
copying paper
copying press
copyright deposit library
copyright infringer
copyright page
cq au vin
cq de bruyere
crochet
crochet with the idea
croquet
croquet with the idea
croquette bob
croquettish glances
croquilla nut
croquille lens
croques Saint-Jacques
croquimo owl
croquito palm
cor adiposum
cor anglais
cor arteriosum
cor biloculare
cor blimey
cor bovinum
cor juvenum
cor pseudotriloculare biatriatum
cor pulmonale
cor sinistrum
cor triatriatum
cor triloculare biatriatum
cor triloculare biventriculare
cor villosum
cor-
coraco-
coral bead
coral bean
coral bells
coral fern
coral grinder
coral head
coral heads
coral honeysuckle
coral island
coral jasmine
coral lily
coral pink
coral plant
coral reef
coral root
coral snake
coral stitch
coral tree
coral vine
coral-bead tree
coral-beaded
coral-bound
coral-built
coral-buttoned
coral-colored
coral-fishing
coral-girt
coral-making
coral-plant
coral-producing
coral-red
coral-rooted
coral-secreting
coral-snake
coral-tree
coral-wood
coram judice
coram nobis
coram non judice
coram populo
corbel arch
corbel out
corbel step
corbel table
corbel vault
corbie gable
corbie-step
corbin bone
cord conductor
cord connector
cord foot
cord grass
cord maker
cord-connector body
cordage tree
cordate-amplexicaul
cordate-lanceolate
cordate-oblong
cordate-sagittate
cordeau detonant
cordeau fuse
corded pahoehoe
cordia pulmonalia
cordial friendship
cordial understanding
cordial welcome
cordon bleu
cordon off
cordon sanitaire
cordoned off
cordon off
cordon sanitaire
cordon sanitaire
corduroy road
cordwood saw
core bar
core barrel
core binder
core boring
core builder
core curriculum
core drawing
core flour
core of your being
core sand
core store
core tester
core time
core vent
core wire
core-
core-baking
core-box plane
core-cutting
core-drying
core-jarring
coriander oil
coriander seed
coriolis effect
coriolis force
cork borer
cork cambium
cork cutter
cork jacket
cork oak
cork puller
cork shredder
cork sorter
cork tile
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
corn-flag
corn-flour
corn-flower
corn-growing
corn-husk
corn-law
corn-master
corn-picker
corn-planting
corn-producing
corn-rent
corn-salad
corn-snake
corn-stalk
corn-cob pipe
corne de vache
cornea lens
corneal reflex
corneal transplant
corned beef
corned beef and cabbage
corned beef hash
corned beef sandwich
cornelian cherry
corneo-
corner accessory
corner bead
corner block
corner cabinet
corner chair
corner chisel
corner cupboard
corner in
corner man
corner of the eye
corner of the memory
corner on the market
corner reflector
corner table
corner the market
corner trowel
corner-man
corner-stone
cornes de vache
cornet a pistons
cornet-a-pistons
cornfield ant
cornfield pea
cornflower blue
cornice brake
corno di caccia
corno flute
cornstalk disease
cornstalk pine
cornstarchy airs
cornu ammonis
cornucopia leg
cornucopia sofa
corny joke
coro-
corolla limb
corolla tube
coromandel wood
corona australis
corona borealis
corona discharge
corona lucis
corona radiata
coronae 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
corporate image
corporate stock
corporation cock
corporation law
corporation lawyer
corporation securities
corporation stock
corporation stop
corporation tax
corporeal hereditament
corps area
corps d'armee
corps d'elite
corps de ballet
corps de garde
corps diplomatique
corps of advisers
corps of cadets
corps of engineers
corps of signals
corps troops
corpse candle
corpse gate
corpse reviver
corpse-candle
corpulent person
corpus allatum
corpus callosum
corpus cardiacum
corpus christi
corpus delicti
corpus juris
corpus luteum
corpus luteum hormone
corpus striatum
corpus vile
corpuscular theory
correct English
correct copy
correct deportment
correct ear
correct in your behavior
correct in your manners
correcting plate
correcting signals
correction line
correction of error
corrective action
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
corsetier 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
cosmic ray bombardment
cosmic ray counter
cosmic rays
cosmic space
cosmic static
cosmic stepping-stone
cosmic time
cosmical geology
cosmico-natural
cosmo-
cosmological argument
cosmological proof
cossack green
cossack hat
cost a packet
cost a pretty penny
cost accountant
cost accounting
cost an arm and a leg
cost and freight
cost benefit analysis
cost card
cost center
cost insurance and freight
cost keeper
cost keeping
cost ledger
cost little
cost money
cost much
cost next to nothing
cost nothing
cost of living
cost out
cost plus
cost sheet
cost system
cost unit
cost what it may
cost you
cost-account
cost-accounting system
cost-effective
cost-free
cost-of-living allowance
cost-of-living index
cost-plus
cost-push inflation
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
cotamine hydrochloride
cote-hardie
cotelette de mouton
cotelette de porc frais
cotton factor
cotton factory
cotton feeder
cotton fern
cotton field
cotton filler
cotton flannel
cotton floater
cotton gin
cotton ginner
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 sirup

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 palatine
count plate
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-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-naignant
counter-nebule
counter-off
counter-opening
counter-paled
counter-parade
counter-parole
counter-party
counter-passant
counter-pawn
counter-penalty
counter-pole
counter-potent
counter-pressure
counter-price
counter-proof
counter-quartered
counter-raguled
counter-rampant
counter-reformation
counter-revolution
counter-revolutionary
counter-riposte
counter-roll
counter-round
counter-salient
counter-scale
counter-scuffle
counter-sea
counter-seal
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
country, the
country-and-western
country-and-western music
country-and-western singer
country-born
country-bred
country-dance
country-fashion
country-made
country-style
country-wide
counts palatine
county agent
county attorney
county board
county borough
county building
county clerk
county college
county commissioner
county constabulary
county convention
county council
county court
county courthouse
county fair
county farm
county home
county house
county library
county mutual
county palatine
county police
county rate
county road
county seat
county site
county supervisor
county town
county-wide
coup d'Oeil
coup d'essai
coup d'état
coup d'oeil
coup d'oil
coup d'tat
coup de foudre
coup de gr
coup de grace
coup de main
coup de maître
coup de plume
coup de poing
coup de soleil
coup de théâtre
coup de théâtre
coup feather
coup-cart
coupe-gorge
couple dancing
couple up
couple with
couple-beggar
couple-close
coupled roof
coupled with
coupler socket
coupling box
coupling circuit
coupling coefficient
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
court of probate
court of record
court of requests
court of review
court of sessions
court of wards
court of wards and liveries
court party
court plaster
court reporter
court roll
court shoe
court tennis
court-appointed lawyer
court-baron
court-bouillon
court-cupboard
court-customary
court-dress
court-house
court-leet
court-mantle
court-martial
court-martials
court-noue
court-plaster
court-tialed
court-tialing
court-tialled
court-tialling
court-yard
courtesy card
courtesy light
courtesy title
courting chair
courting disaster
courting glass
courting mirror
courtly love
courtly politeness
courts Christian
courts-martial
courtship-and-matrimony
cousin once removed
cousin twice removed
cousin-german
cousin-in-law
cousins-german
couvre-feu
covalent bond
cove lighting
cove oyster
cove stripe
cove trowel
coved vault
coven-tree
covenant of indemnity
covenant of salt
covenant of warranty
cover charge
cover crop
cover design
cover girl
cover glass
cover ground
cover memory
cover note
cover paper
cover plate
cover point
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
coxackie 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
crabeater 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
crammed 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 tube
cream whip
cream whipper
cream-cheese
cream-color
cream-colored
cream-faced
cream-flowered
cream-slice
cream-soup cup
cream-soup spoon
cream-white
cream-yellow
crase-resistant
create a character
create a disturbance
create a riot
create a role
created being
created nature
created universe
creatine phosphate
creating again
creating once more
creating over
creation of the brain
creative ability
creative artist
creative effort
creative evolution
creative imagination
creative power
creative thought
creative writer
creative writing
creature comfort
creature comforts
creature of habit
creature of the imagination
crebri-
credence shelf
credence table
credentials committee
credenza bookcase
credenza buffet
credibility gap
credit account
credit agency
credit card
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

creeper feed

creeper into

creeper into a corner

creeper into the good graces of

creeper out of

creeper up on

creeper with

creeper-fed

creeper-feed

creeper-feeding

creeper fowl

creeper tractor

creeper-peepie

creeper Charlie

creeper Jennie

creeper barberry

creeper barrage

creeper bent

creeper bent grass

creeper buttercup

creeper cinquefoil

creeper eruption

creeper fescue

creeper flesh

creeper forget-me-not

creeper juniper

creeper like snail

creeper lily-turf

creeper myrtle

creeper of the flesh

creeper sheet

creeper sickness

creeper snowberry

creeper socialism

creeper thing

creeper thistle

creeper 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
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
cri
crinum lily
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 temperature
critical volume
critically ill
criticize severely
critico-
critico-analytically
critico-historical
critico-poetical
critico-theological
cro-magnon
croaking sac
crochet file
crochet hook
crochet needle
crochet work
crockery cement
crocodile bird
crocodile shears
crocodile squeezer
crocodile tears
crocus antimonii
crocus bag
crocus cloth
crocus martis
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 pomme
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 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-check
cross-church
cross-claim
cross-cloth
cross-compound
cross-connect
cross-country
cross-country flying
cross-country mill
cross-country race
cross-course
cross-cousin
cross-cousin marriage
cross-crosslet
cross-crosslets
cross-curve
cross-cut
cross-datable
cross-date
cross-dating
cross-days
cross-disciplinary
cross-disciplinary knowledge
cross-division
cross-drain
cross-dye
cross-dyeing
cross-elbowed
cross-examination
cross-examine
cross-examined
cross-examiner
cross-examining
cross-eye
cross-eyed
cross-eyedness
cross-eyes
cross-face
cross-fade
cross-faded
cross-fading
cross-feed
cross-ferred
cross-ferring
cross-fertile
cross-fertilizable
cross-fertilization
cross-fertilize
cross-fertilized
cross-fertilizing
cross-fiber
cross-file
cross-filed
cross-filing
cross-finger
cross-fingered
cross-fire
cross-fire treatment
cross-firing
cross-fish
cross-fissured
cross-fixed
cross-flower
cross-folded
cross-fox
cross-fur
cross-gagged
cross-gartered
cross-grained
cross-grained
cross-grainedly
cross-grainedness
cross-handed
cross-handled
cross-hatch
cross-hatcher
cross-hatching
cross-head
cross-headed
cross-hilted
cross-immunity
cross-immunization
cross-index
cross-interrogate
cross-interrogation
cross-interrogator
cross-interrogatory
cross-invite
cross-jack
cross-jack yard
cross-joined
cross-jostle
cross-laced
cross-laminated
cross-land
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-questioner
cross-questioning
cross-ratio
cross-ratio group
cross-reaction
cross-reading
cross-refer
cross-reference
cross-remainder
cross-road
cross-row
cross-ruff
cross-sail
cross-section
cross-section paper
cross-sectional
cross-shaped
cross-shave
cross-slide
cross-spale
cross-spall
cross-springer
cross-staff
cross-staffs
cross-star
cross-staves
cross-sterile
cross-sterility
cross-stitch
cross-stitch canvas
cross-stitching
cross-stone
cross-stratification
cross-stratified
cross-striated
cross-string
cross-stringed
cross-stringing
cross-striped
cross-strung
cross-sue
cross-surge
cross-tail
cross-tine
cross-town
cross-tree
cross-validation
cross-vault
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 imperial
crown jewels
crown knot
crown land
crown law
crown lawyer
crown leather
crown lens
crown living
crown molding
crown monkey
crown octavo
crown of thorns
crown office
crown palm
crown paper
crown piece
crown pigeon
crown plate
crown post
crown prince
crown princess
crown prosecutor
crown pulley
crown quarto
crown roast
crown rot
crown rust
crown saw
crown scab
crown sheet
crown shell
crown side
crown sparrow
crown system
crown tax
crown tile
crown vallery
crown vent
crown vetch
crown wart
crown wheel
crown with
crown with laurel
crown with success
crown-capping machine
crown-glass
crown-land
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
cried 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
crystallo-
crystallographic axis
cteno-
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
cubed steak
cubi-
cubic foot
cubic measure
cubic meter
cubic unit
cubic yard
cubical atom
cubist poetry
cubit arm
cubital furrow
cubito-
cubo-
cubo-octahedral
cubo-octahedron
cuboidal epithelium
cuck-stool
cucking stool
cucking-stool
cuckold dock
cuckold's knot
cuckold's neck
cuckoo bee
cuckoo clock
cuckoo clover
cuckoo dove
cuckoo falcon
cuckoo fly
cuckoo froth
cuckoo gillyflower
cuckoo grass
cuckoo hawk
cuckoo lamb
cuckoo orchis
cuckoo owl
cuckoo ray
cuckoo shoe
cuckoo shrike
cuckoo sorrel
cuckoo spit
cuckoo wasp
cuckoo wrasse
cuckoo's meat
cuckoo-babies
cuckoo-bread
cuckoo-bud
cuckoo-button
cuckoo-flower
cuckoo-fly
cuckoo-fool
cuckoo-meat
cuckoo-pint
cuckoo-pintle
cuckoo-shrike
cuckoo-spit
cuckoo-spittle
cucumber beetle
cucumber family
cucumber fish
cucumber flea beetle
cucumber fly
cucumber green
cucumber melon
cucumber mildew
cucumber mosaic
cucumber root
cucumber scab
cucumber tree
cucurbit mosaic
cucurbit wilt
cud-chewing
cuddle up
cuddy heel
cudgel play
cudgel your brains
cudweed mugwort
cue ball
cue bid
cue owl
cue rest
cue sheet
cue word
cue-bid
cue-bidden
cue-bidding
cue-owl
cuff button
cuff ironer
cuff link
cui bono
cui-ui
cuir-bouilli
cul de lampe
cul-de-four
cul-de-lampe
cul-de-sac
culilawan bark
culinary art
culinary artist
culinary concoction
culinary masterpiece
culinary preparation
culinary science
cull board
cull out
cullin stone
culm dump
culm measures
culpable negligence
culpably negligent
culs de lampe
cult-title
cultivate the friendship of
cultivate the soil
cultivated land
cultivated taste
cultivation of the mind
cultivator shield
cultural anthropologist
cultural anthropology
cultural change
cultural community
cultural drift
cultural lag
cultural-nomadic
culture area
culture center
culture complex
culture conflict
culture contact
culture drift
culture epoch
culture factor
culture flask
culture fluid
culture hero
culture lag
culture medium
culture mixing
culture myth
culture organism
culture pattern
culture pearl
culture phenomenon
culture plate
culture sequence
culture shock
culture stage
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 multis alius
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
cupid's bow
cupid's-bow
cupola builder
cupola charger
cupola feeder
cupola fettler
cupola furnace
cupola liner
cupola potman
cupola rammer
cupola smelter
cupola tapper
cupola tenter
cupola-capped
cupola-roofed
cupping glass
cuprammonium rayon
cuprea bark
cupreo-
cupric hydroxide
cupric sulfate
cupro-
cuproso-
cuprous cyanide
curate's egg
curative measures
curb ball
curb bit
curb box
curb broker
curb chain
curb exchange
curb key
curb market
curb pin
curb roof
curb sender
curb service
curb string
curb yourself
curb-plate
curb-roof
curb-sending
curb-stone
curbing trowel
curcas oil
curcuma paper
curcuma starch
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
current regulator
current relay
current ripple
current saying
current tap
current transformer
current wheel
current yield
current-control circuit
current-limiting reactor
currente calamo
curricula vitae
curriculum vitae
curry favor
curry powder
curry puff
curry sauce
curry-comb
curry-favel
curry-leaf tree
currycomb file
curse and swear
curse up hill and down dale
curse with bell
curse word
curse your folly
curse, the
cursing stone
cursing well
cursive epilepsy
cursive hand
cursory inspection
curt-hose
curtain angle
curtain aurora
curtain call
curtain dam
curtain dryer
curtain drying
curtain fire
curtain folder
curtain frame
curtain framer
curtain hook
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
curtle 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
cusco china
cusco-bark
cuscus oil
cush-cush
cushew-bird
cushing's disease
cushion aloe
cushion block
cushion capital
cushion carom
cushion cut
cushion dance
cushion felt
cushion filler
cushion fillings
cushion head
cushion iris
cushion maker
cushion pink
cushion plant
cushion rafter
cushion scale
cushion shot
cushion sole
cushion spurge
cushion star
cushion stitch
cushion tire
cushion-footed
cushion-shaped
cushion-tired
cusk eel
cusk-eel
cusk-eels
cusp locus
cusp-shaped
cusparia bark
cuspidate tooth
cuss like a sailor
cuss out
cuss word
cussing-out
custard apple
custard cup
custard glass
custard pie
custard powder
custard-cups
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
cutting pliers
cutting press
cutting punch
cutting remark
cutting rule
cutting sand
cutting shoe
cutting stage
cutting the pie
cutting torch
cutting words
cutting your losses
cutting-off tool
cuttle-bone
cuttle-fish
cutty sark
cutty stool
cutty-stool
cutwater bow
cutwork lace
cy pres
cya-
cyan blue
cyan-
cyan-blue
cyanamide process
cyani flower
cyanic acid
cyanide gas
cyanide mill
cyanide process
cyanine blue
cyano group
cyano radical
cyano-
cyanogen bromide
cyanogen chloride
cyanuric acid
cybernated 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
cyro-
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
daBa
daBm
daBm/m
daBrn
da Vinci
da capo
da hand
da ber locks
daactyl-
daactylic hexameter
dactylio-
dactylo-
dad-blamed
daad-blasted
daad-burned
da ddy longlegs
da ddy-long-legs
da ddy-longlegs
da ddy nut tree
da d o head
da d o in
da d o plane
da d o rail
da e r-stock
da ffodil garlic
da ffodil lily
da ffodil yellow
da ft days
da g-lock
da g-tailed
da gger board
da gger cocklebur
da gger fern
da gger knee
da gger money
da gger moth
da gger plank
dagger plant
dagger wood
dagger-shaped
daggle-tail
daghesh forte
daghesh lene
dahl sauce
dahlia carmine
dahlia purple
dahlia sugar
dahlia sunflower
dahlia wartlet
dahoon holly
dai-sho
dai-sho-no-soroimono
dail eireann
daily and hourly
daily bread
daily communicant
daily double
daily dozen
daily grind
daily newspaper
daily round
daily routine
daily-breader
dainty- eared
dainty-fingered
dainty-limbed
dainty-mouthing
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
daishy bush
daishy chain
daishy cutter
daishy fleabane
daishy ham
daishy tree
daishy-blossomed
daishy-clipping
daishy-cutter
daishy-cutting
daishy-dappled
daishy-dimpled
daishy-painted
daishy-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
damnant quod non intelligunt
dammed if I know
dammed little difference
dammed 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
date fever
date fig
date from
date grove
date line
date mussel
date of record
date palm
date plum
date shell
date slip
date stamp
date sugar
date tree
date wine
date-bearing
date-stamp
date-stamping
dating nail
dative bond
datum line
datum plane
datum point
daughter element
daughter of Eve
daughter of joy
daughter of the dawn
daughter-in-law
daughters-in-law
davenport table
davy jones
davy jones's locker
davy lamp
dawn chorus
daun dew
daun goddess
daun on
daun patrol
daun redwood
daun upon one
daun-illumined
daun-tinted
day after day
day and night
day bed
day bell
day blindness
day boy
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 Gaulllism
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 volonte
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
dea-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-blanched
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
deaf and dumb
deaf as a door
deaf as a doorknob
deaf as a doornail
deaf as a post
deaf as a stone
deaf as an adder
deaf ears
deaf to
deaf to reason
deaf-and-dumb
deaf-and-dumb alphabet
deaf-and-dumb person
deaf-dumb
deaf-dumbness
deaf-eared
deaf-minded
deaf-mute
deaf-muteness
deaf-mutism
deaf-muteness
deaf-mute
deaf-muteness
deaf-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
deariest 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
dearth damp
dearth dance
dearth defiance
dearth demon
dearth dew
dearth dirge
dearth drink
dearth drum
dearth duty
dearth examiner
dearth feint
dearth feud
dearth fire
dearth flame
dearth grant
dearth grapple
dearth grip
dearth groan
death herb
dearth hour
dearth house
dearth hymn
dearth instinct
dearth knell
dearth light
dearth list
dearth mask
dearth note
dearth notice
dearth of the heart
dearth of the soul
dearth pang
dearth peal
dearth penalty
dearth penny
dearth point
dearth prayer
dearth rate
dearth rattle
dearth ray
dearth roll
dearth rope
dearth row
dearth ruckle
dearth seat
dearth sentence
dearth shriek
death sleep
death song
death stab
death stroke
death struggle
death sweat
death symbol
death tax
deadth thirst
deadth throe
deadth throes
deadth tick
deadth toll
deadth trance
deadth vacancy
deadth warrant
deadth weight
deadth wish
deadth wraith
deadth's bright angel
deadth's-face
deadth's-head
deadth's-head moth
deadth's-herb
deadth-bearing
deadth-bed
deadth-begirt
deadth-bell
deadth-bird
deadth-black
deadth-blow
deadth-boding
deadth-braving
deadth-bringing
deadth-cold
deadth-come-quickly
deadth-counterfeiting
deadth-darting
deadth-day
deadth-deaf
deadth-deafened
deadth-dealing
deadth-deep
deadth-defying
deadth-devoted
deadth-dewed
deadth-divided
deadth-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-threaten
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
dethwatch beetle
debase yourself
deating point
debenture bond
debenture stock
debit ticket
debonis non
debris glacier
debt book
debt limit
debt of honor
debt of honour
debt of nature
debt service
debt slave
debt slavery
debtor and creditor account
debtor's prison
debts recovery court
debutante bob
deca-
decade ring
decanal side
decanedioic acid
decanoic acid
decapod locomotive
decarbonized iron
decay coefficient
decay of memory
decay series
deceased, the
decedent estate
decieve yourself
deceleration parachute
decem-
decreation bed
decception table
decptive 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-sexta
decision procedure
decision-making
decisive defeat
decisive moment
derk beam
deerk block
deerk board
deck bolt
deeck boy
deeck bridge
deeck car
deeck cargo
deeck chair
deeck curb
deeck department
deeck elevator
deeck feather
deeck floor
deeck gang
deeck gun
deeck hand
deeck hook
deeck horse
deeck iron
deeck key
deeck kicker
deeck light
deeck load
deeck log
deeck molding
deeck nail
deeck of cigarettes
deeck officer
deeck out
deeck over
deeck passage
deeck passenger
deeck pipe
deeck plate
deeck plating
deeck pump
deeck quoits
deeck roof
deeck seat
deeck sheet
deeck steward
deeck stool
deeck stopper
deeck stringer
deeck tackle
deeck tennis
deeck transom
deeck turret
deeck up
deeck watch
deck-piercing
dek-piercing shell
deked out
deking chain
dekle edge
dekle strap
dekle-edged
deklaim against
deklaration of faith
deklaration of policy
deklaration of war
deklaratory judgment
deklare a dividend
deklare a moratorium
deklare a recess
deklare lawful
deklare null and void
deklare off
deklare roundly
deklare to God
deklare war
deklare yourself
deklare yourself a party
deklare yourself against
deklaring yourself in
deklination axis
deklination circle
deklination compass
deklination parallel
dekline and fall
dekline of day
dekline of life
dekline politely
dekline to accept
dekline with thanks
deklined with thanks
deklining market
deklining years
dekoction process
dekoding servomechanism
dekomposition potential
dekompression chamber
dekompression sickness
dekorated hero
dekoration of honor
dekorative composition
dekorative lighting
dekorative 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 arrangemeant
deed of indemnity
deed of release
deed of trust
deed over
deed poll
deed without a name
deed 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-bosomed
deep-brained
deep-breasted
deep-breathing
deep-brooding
deep-browed
deep-buried
deep-chested
deep-colored
deep-contemplative
deep-crimsoned
deep-cut
deep-damasked
deep-discerning
deep-discount bond
deep-dish
deep-dish pie
deep-domed
deep-down
deep-downness
deep-draw
deep-drawing
deep-drawn
deep-drenched
deep-drew
deep-drinking
deep-drunk
deep-dye
deep-dyed
deep-dyed falsehood
deep-echoing
deep-embattled
deep-engraven
deep-etch plate
deep-eyed
deep-faced
deep-felt
deep-fermenting
deep-fetched
deep-fixed
deep-flewed
deep-freeze
deep-freezed
deep-freezer
deep-freezing
deep-fried
deep-froze
deep-frozen
deep-fry
deep-frying
deep-going
deep-green
deep-groaning
deep-grounded
deep-grown
deep-kiss
deep-laden
deep-laid
deep-laid plot
deep-laid scheme
deep-level mine
deep-lunged
deep-lying
deep-mouthed
deep-musing
deep-naked
deep-persuading
deep-piled
deep-pitched
deep-pointed
deep-pondering
deep-premeditated
deep-questioning
deep-reaching
depth-read
depth-revolving
depth-rooted
depth-rooted belief
depth-rootedness
depth-rooting
depth-sea
depth-sea diver
depth-sea diving
depth-sea lead
depth-sea line
depth-sea man
depth-sea smelt
depth-searching
depth-seated
depth-seatedness
depth-set
depth-settled
depth-sided
depth-sighted
depth-sinking
depth-six
depth-skirted
depth-sore
depth-sounding
depth-space ship
depth-stapled
depth-sunk
depth-sunken
depth-sweet
depth-sworn
depth-tangled
depth-thinking
depth-thoughted
depth-thrilling
depth-throated
depth-toned
depth-transported
depth-trenching
depth-troubled
depth-uddered
depth-vaulted
depth-versed
depth-voiced
deep-waisted
deep-water
deep-worn
deep-wounded
deepest feelings
deepest mind
deepest recesses
deployed involved
deployed involved in debt
deepwater 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
defformation curve
deformation ellipsoid
deformed 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
delion 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
deleb 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
den mother
den of iniquity
den of thieves
den of vice
den-tree
denatured alcohol
dendr-
dendritic drainage pattern
dendro-
dene-hole
dengue fever
denial of due credit
denial of proper credit
denied due credit
denied proper credit
denied to
denim jacket
denizen of the deep
denizens of hell
denizens of the air
denizens of the forest
denizens of the jungle
denizens of the wild
denominate number
denominational school
dense body
dense-flowered
dense-headed
dense-minded
dense-wooded
density altitude
density control
density current
density function
density indicator
density rule
dent corn
dent-
dental bridge
dental corps
dental floss
dental gold
dental hygiene
dental hygienist
dental length
dental lisp
dental orthopaedics
dental plaque
dental plate
dental pulp
dental surgeon
dental surgery
dental technician
denary-splenial
dentate-ciliate
dentate-crenate
dentate-serrate
dentate-sinate
dentat-
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
deodorant soap
deontological ethics
deoxy-
deoxyribonucleic 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
deployment allowance
deponent verb
depot 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
depraed appetite
deprecate yourself
depreciate yourself
depreciation charge
depress the scales
depressed arch
depressed area
depressed class
depressed population
depressed-bed
depressed-bed method
depression of spirit
depression range finder
depression slide
depression spring
depressive reaction
depressor nerve
depprivation of freedom
deprive of
deprive of freedom
deprive of life
deprive of office
deprive of sight
deprive you of
deprived of
deprived of reason
depriving of sight
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
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
desistquit 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-
desoxyribonucleic 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
duces 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
devation card
deivation factor
deivation warranty
devel bolt
devel 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-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
dialy-
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 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 dibukim
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
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
differential tackle
differential tone
differential weathering
differential windlass
difficult thing
difficulty score
diffracted wave
diffraction disk
diffraction grating
diffraction spectroscope
diffraction spectrum
diffuse inflammation
diffuse light
diffuse nebula
diffuse reflection
diffuse-porous
diffused junction
diffused lighting
diffusing screen
diffusion air pump
diffusion battery
diffusion chamber
diffusion coefficient
diffusion juice
diffusion process
diffusionist theory
dig around for
dig at
dig for
dig in
dig in your heels
dig into
dig out
dig up
dig up the past
dig you in the ribs
dig your heels in
dig your own grave
digest medium
digest of law
digested securities
digester tankage
digestive biscuit
digestive gland
digestive juice
digestive secretion
digestive secretions
digestive system
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
digit-i-
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
diphosphoglycnergic 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
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-driven
direct-examine
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-
discar- nate
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
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 ton
displacement tonnage
display ad
display advertising
display art
display bracket
display card
display case
display cover
display figure
display form
display pipe
display room
display sign
display station
display type
display window
display work
disposable income
disposable resources
disposal of the dead
dispose of
disposed of
disposed to
disposed to doubt
disposition to believe
dispossessed of
disputed election
disregard the law
disreputable person
disruptive discharge
dissecting microscope
dissecting table
dissector tube
disse love
disseminated sclerosis
disseminated tuberculosisdissent from
dissenting opinion
dissipate your illusions
dissipation trail
dissociate yourself from
dissociation coefficient
dissociation constant
dissociation of personality
dissociation reaction
dissolution of marriage
dissolve in tears
dissolve into chaos
dissolve marriage
dissolve out
dissolved in tears
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
distress flag
distress frequency
distress gun
distress merchandise
distress sale
distress signal
distressed area
distributed costs
distributed term
distribution board
distribution curve
distribution difference
distribution function
distribution ratio
distributive education
distributor bar
district attorney
district council
district court
district judge
district leader
district man
district nurse
district parish
district school
district superintendent
districts of
distrust yourself
disturbed mind
disturbed personality
disulpho-
disulphuric acid
dit-da artist
dita bark
ditat Deus
ditch crowfoot
ditch fern
ditch grass
ditch hand
ditch machine
ditch millet
ditch moss
ditch reed
ditch rider
ditch spade
ditch stonecrop
ditch sunflower
ditch-delivered
ditch-drawn
ditch-moss
ditching car
ditching machine
ditching scoop
dithering grass
dithionic acid
dithionous acid
ditto machine
ditto mark
ditto marks
ditty bag
ditty box
ditty-bag
diurnal arc
diurnal circle
diurnal epilepsy
diurnal parallax
diva blue
divaricate from
dive bomber
dive bombing
dive brake
dive in
dive into
dive-bomb
dive-bombing
dive-dap
dive-dapper
diver's palsy
diverge from
divergence theorem
divergent squint
divergent strabismus
divergent thinking
diverging lens
divers-colored
diverse control
diverse-colored
diverse-natured
diverse-shaped
diversi-
diversified corporation
diversified economy
diversion chamber
diversion cut
diversionary attack
diversionary movement
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
diving rod
divining 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 an ill office to
do an impression of
do anyhow
do as much as in one lies
do as others do
do as well as you can
do as you please
do as you say
do as you would be done by
do at the bidding of
do at your convenience
do at your leisure
do at your own peril
do at your own risk
do at your pleasure
do away with
do away with yourself
do battle
do business
do business with
do by
do by halves
do carelessly
do chars
do credit to
do credit to someone
do double duty
do down
do down to the ground
do duty
do easily
do everything you can
do evil
do for
do for yourself
do good
do harm
do homage
do homage to
do honor
do honor to
do ill
do in
do in a pinch
do in a slipshod fashion
do in any old way
do in your own sweet way
do independently
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 darndest
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
doch-an-dorrach
doch-an-dorris
doch-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-wallopper
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 breeder
dog bur
dog button
dog cabbage
dog cake
dog camomile
dog carrier
dog chain
dog chart
dog cherry
dog clipper
dog clutch
dog collar
dog cracker
dog crate
dog curtain
dog daisy
dog dandelion
dog days
dog disease
dog dollar
dog elder
dog family
dog fancier
dog fennel
dog flea
dog flesh
dog flower
dog food
dog fox
dog grass
dog grate
dog harness
dog hip
dog hobble
dog hood
dog hook
dog hospital
dog hysteria
dog in the manger
dog iron
dog it
dog kennel
dog laurel
dog leech
dog letter
dog license
dog lichen
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 tick
dog tongue
dog town
dog track
dog train
dog trainer
dog training
dog tree
dog tune
dog violet
dog wagon
dog warden
dog warp
dog watch
dog wheat
dog wheel
dog whelk
dog whip
dog whistle
dog winkle
dog wrench
dog's age
dog's chance
dog's letter
dog's life, a
dog's-bane
dog's-ear
dog's-eared
dog's-meat
dog's-tail
dog's-tail grass
dog's-tongue
dog's-tooth
dog's-tooth check
dog's-tooth violet
dog-banner
dog-bitten
dog-bramble
dog-brier
dog-cart
dog-catcher
dog-cheap
dog-day cicada
dog-days
dog-draw
dog-drawn
dog-driven
dog-ear
dog-eared
dog-eat-dog
dog-end
dog-eyed
dog-faced
dog-fennel
dog-fish
dog-fisher
dog-fly
dog-footed
dog-fox
dog-gnawn
dog-gone
dog-grass
dog-head
dog-head hammer
dog-head spike
dog-headed
dog-hole
dog-hook
dog-hungry
dog-hutch
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
dollar bill
dollar bond
dollar chaser
dollar cost averaging
dollar crisis
dollar debenture
dollar deficit
dollar diplomacy
dollar exchange
dollar gap
dollar imperialism
dollar loan
dollar mark
dollar shortage
dollar-a-year man
dollars to doughnuts
dolled up
dolly bar
dolly bird
dolly drop
dolly mixture
dolly shop
dolly shot
dolly varden
dolly-head
dolly-mop
dolman jacket
dolman sleeve
dolomite marble
dolorous tirade
dolphin fly
dolphin oil
dolphin striker
dolphin-flower
dolphin-striker boom
dom pedro
domain of integrity
dome car
dome tomb
dome top
dome whistle
dome-shaped
domes-booke
domesday book
domestic animal
domestic animals
domestic cat
domestic cattle
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
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
dot-sequential
dot-sequential color television
dote on
dote upon
dotted line
dotted swiss
dotterel dun
dottle pin
douay version
double Blackwall hitch
double Dutch
double Gloucester
double Spanish burton
double a point
double achievement
double acrostic
double action engine
double agent
double algebra
double altar
double back
double bar
double bass
double bassoon
double batten
double bed
double bill
double bind
double block
double blossom
double boiler
double bond
double bridle
double bunk
double centering
double check
double chin
double cloth
double coconut
double concerto
double contingency
double contraoctave
double corposant
double counterpoint
double cream
double crochet
double cross
double crown
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 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-kkeeled
double-knit
double-language theory
double-leded
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-span
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
doubleness 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
down-valley
down-wash
downat-the-heel
downdraft kiln
downfeed system
downing of arms
downside-up
downward mobility
downward motion
downward trend
downwash angle
downwind leg
downy mildew
downy oat grass
downy sleep
downy woodpecker
downy-cheeked
downy-clad
downy-feathered
downy-fruitied
downy-winged
dowse for water
dowse sail
dowsing chock
dowsing rod
doze off
drap
drab-breeched
drab-coated
drab-colored
drab-tinted
drable in the mud
dracaena palm
draco lizard
draconic month
draft act
draft allowance
draft animal
draft beer
draft board
draft box
draft call
draft chair
draft dodger
draft engine
draft evener
draft gauge
draft gear
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
drag iron
drag its slow length along
drag link
drag mill
drag on
drag out
drag out of
drag over the coals
drag parachute
drag race
drag racer
drag racing
drag rake
drag ratio
drag sail
drag scraper
drag seine
drag sheet
drag spring
drag step
drag strip
drag strut
drag through the mud
drag tooth
drag twist
drag up
drag washer
drag wire
drag your feet
drag-chain
drag-down
drag-hook
drag-out
drag-staff
drag-stone mill
dragged into
dragged out
dragged-out
dragger-down
dragger-out
dragger-up
dragging beam
dragging down
dragging of the feet
dragging pace
dragging piece
dragging-out
draggle-haired
draggle-tail
draggle-tailed
dragline crane
dragline dredge
dragline excavator
dragnet clause
dragon arum
dragon balloon
dragon beam
dragon claw
dragon fish
dragon gum
dragon lizard
dragon piece
dragon plant
dragon tie
dragon tree
dragon turnip
dragon withe
dragon's blood
dragon's head
dragon's tail
dragon's-tongue
dragon-eyed
dragon-faced
dragon-fly
dragon-mouthed
dragon-ridden
dragon-root
dragon-tree
dragon-winged
dragoon bird
drain arm
drain away
drain cleaner
drain cock
drain cup
drain digger
drain exhauter
drain faucet
drain grate
drain inlet
drain layer
drain of color
drain of resources
drain off
drain out
drain pit
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 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
drawing bench
drawing block
drawing board
drawing book
drawing card
drawing chalk
drawing chisel
drawing compasses
drawing crayon
drawing desk
drawing die
drawing forth
drawing frame
drawing glove
drawing in
drawing ink
drawing instrument
drawing knife
drawing lots
drawing machine
drawing office
drawing out
drawing paper
drawing pen
drawing pencil
drawing pin
drawing pliers
drawing power
drawing press
drawing punch
drawing room
drawing rooms
drawing shave
drawing slate
drawing string
drawing table
drawing thread
drawing too thin
drawing-in
drawing-knife
drawing-master
drawing-out
drawing-room
drawing-room car
drawing-roomy
drawings-in
drawn butter
drawn butter sauce
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
dribbs 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
drinking horn
drinking house
drinking mug
drinking place
drinking saloon
drinking song
drinking straw
drinking time
drinking trough
drinking vessel
drinking vessels
drinking water
drinking-up time
drip band
drip board
drip box
drip cap
drip cock
drip coffee
drip coffee maker
drip cup
drip grind
drip groove
drip joint
drip loop
drip molding
drip oil
drip pan
drip pipe
drip pocket
drip primrose
drip sheet
drip tank
drip tip
drip transfusion
drip tray
drip treatment
drip trough
drip valve
drip-dried
drip-drip
drip-drop
drip-dry
drip-drying
drip-ground
dripping pan
dripping point
dripping wet
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
driveling idiot
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-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
drophead 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 compounding
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
drum-major's baton
drum-shaped
drum-type elevator
drum-up
drum-wound
drumble-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 as dust
dry battery
dry beater
dry bed
dry behind the ears
dry bone
dry bones
dry cell
dry cereal
dry cleaner
dry cleaning
dry compass
dry cooper
dry distillation
dry dock
dry farm
dry farmer
dry farming
dry fire
dry fly
dry fog
dry freeze
dry fresco
dry gangrene
dry garden
dry goods
dry goods dealer
dry goods store
dry hole
dry ice
dry kiln
dry lake
dry land
dry law
dry martini
dry measure
dry milk
dry miller
dry mixer
dry mop
dry nurse
dry offset
dry out
dry pint
dry pipe
dry plate
dry pleurisy
dry point
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-fruit
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 rearer
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
duckbill platypus
ducking stool
ducking-pond
ducking-stool
ducks and drakes
ducktail haircut
duckweed family
duct keel
ductless gland
dudder grass
dude ranch
dude up
due bill
due course
due course of law
due date
due north
due process
due process of law
due punishment
due reward
due season
due sense of
due to
dueling pistol
dues-paying member
duff up
duffel bag
duffel coat
duffle coat
dug-out
dug-up
duke cherry
dukey rider
dulcimer harpsichord
dull as dish water
dull as dishwater
dull as ditchwater
dull bitterness of cold
dull hearing
dull of hearing
dull of mind
dull the pain
dull thud
dull tool
dull-brained
dull-browed
dull-colored
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
ear conch
ear cornet
ear coverts
ear crystal
ear drops
ear dust
ear flap
ear fly
ear for music
ear for, an
ear fungus
ear guard
ear index
ear leaf
ear lobe
ear mold
ear muff
ear of corn
ear off
ear piercer
ear reach
ear rot
ear sand
ear shell
ear snail
ear specialist
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
early on
early purple orchid
early renaissance
early riser
early saxifrage
early stage
early symptom
early times
early warning
early warning system
early wood
early years
early-type star
early-warning radar
earn a bad name
earn a livelihood
earn a living
earn your keep
earned income
earned run
earned run average
earned surplus
earnest money
earnest-penny
earning grass
ears more deaf than adders
earth almond
earth apple
earth art
earth artist
earth auger
earth battery
earth bob
earth bread
earth cell
earth chestnut
earth circuit
earth closet
earth club
earth color
earth colour
earth crab
earth crust
earth current
earth division
earth dweller
earth flax
earth flea
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-rendering
earth-shaking
earth-sounds
earth-sprung
earth-stained
earth-strewn
earth-vexing
earth-wide
earth-wrecking
earthly minded
earthly-minded
earthly-mindedness
earthly-wise
earthen 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
easel-picture
easement curve
easier said than done
easily attained
easily first
easily reached
easily taken in
easily understood
easing of relations
easing of the load
easing of the way
easing sparrow
east Greenland current
east by north
east by south
east India
east indian
east indies
east wind
east-country
east-end
east-northeast
east-northeastward
east-northeastwardly
east-sider
east-southeast
east-southeastward
east-southeastwardly
east-windy
easter egg
easter lily
easter monday
easter-day
easterly wave
eastern coral snake
eastern crown
eastern diamondback rattlesnake
eastern hemisphere
eastern hemlock
eastern kingbird
eastern orthodox
eastern red cedar
eastern time
easting down
easy aces
easy as falling off a log
easy as pie
easy chair
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 heartily
 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
eau-de-vie
eaux minerales
eave trough
eaves catch
eaves swallow
eaves trough
eavy-soled
ebb anchor
ebb and flow
ebb of life
ebb sleeper
ebb tide
eboe light
eboe oil
ebony family
ebony spleenwort
eec-
ecaillle work
ecca leobion
ece homo
ece signum
eccle grass
ecclesi-
ecclesiastical calendar
ecclesiastical council
ecclesiastical court
ecclesiastical insignia
ecclesiastical law
ecclesiastical mode
ecclesiastical society
ecclesiastico-military
ecclesiastico-secular
eccrine gland
echelette grating
echelle grating
echelon grating
echelon lens
echin-
echino-
echo attachment
echo back
echo chamber
echo organ
echo pulse
echo signal
echo sounder
echo sounding
echoic word
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
ecru silk
ect-
ecto-
ectopic pregnancy
ecumenical council
ecumenical movement
ecumenical patriarch
ecumenical patriarchate
ed-
eddy chamber
eddy current
eddy-current brake
eddy-wind
edge effect
edge in
edge iron
edge joint
edge molding
edge off
edge out
edge plane
edge tool
edge tools
edge up to
edge-bone
edge-grain
edge-grained
edge-tool
edge-ways
edging grinder
edging lobelia
edible oil
edit out
edited text
edited version
editio princeps
edition bindery
edition binding
edition time
editiones principes
editor in chief
editor-in-chief
editorial writer
editorial-writing
editors in chief
educated class
educated language
educated man
educated speech
educational administrator
educational film
educational institution
educational psychology
educational television
eel cat
eel fork
eel netting
eel-back flounder
eel-backed
eel-bed
eel-catching
eel-fare
eel-pout
eel-shaped
eel-skin
eel-spear
eentsy-weentsy
eeny meeny miney moe
ef-
eface from the memory
eface yourself
effect a sale
effect of
effect your escape
effective current
effective electromotive force
effective force
effective horsepower
effective pitch
effective rejoinder
effective resistance
effective sound pressure
effective style
effector organ
effeminate male
efferent neuron
efficiency apartment
efficiency engineer
efficiency engineering
efficiency expert
efficient cause
effigy mound
efflux tube
effort syndrome
effusion balance
effusive rock
efwatakala grass
egads button
egg albumen
egg albumin
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
egress Astronomy
egret monkey
egyptian cotton
eypto-
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
 elao-
 elastic 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 |
electromagnetic wave
electromechanical controller
electromotive force
electromotive series
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 spectroscope
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
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 inductio
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
eleuther-
elevate your mood
elevated railroad
elevated railway
elevating rudder
elevation Astronomy
elevator angle
elevator boy
elevator car
elevator conductor
ell-wide
ellipsoidal basalt
ellipsoidal lava
elliptic function
elliptic geometry
elliptic integral
elliptic spring
elliptic velocity
elliptic-lanceolate
elliptic-leaved
elliptical function
elliptical galaxy
elliptical light
elliptical polarization
elliptically polarized
elm balsam
elm bark
elm bark beetle
elm blight
elm calligrapha
elm leaf beetle
elm phloem necrosis
elm-leaved
elongato-conical
elongato-ovate
eloquent tongue
elude one
elution process
elytr-
em dash
em pica
em quad
em space
em-
emanate a smell
emanate from
embalm in the memory
embalmed corpse
embalming fluid
embark in
embark on
embark upon
embarkation deck
embarrass de choix
embarrass de richesses
embarrassed circumstances
embarrassing position
embarrassing situation
embattled grady
embed itself in the mind
ember day
ember goose
emblem book
emblem of authority
embodied in
embody in words
embol-
embossing plate
embrace a belief
embrace reality
embroidery floss
embroidery frame
embroidery needle
embry-
embryo bearer
embryo sac
embryon-
embryonic disk
embryonic layer
embryonic membrane
emerald copper
emerald cut
emerald green
emerald toucanet
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
emeto-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
en brochette
en brosse
en cabochon
en casserole
en clair
en dash
en deshabille
en echelon
en effet
en f
en face
en famille
en garde
en grand seigneur
en grande tenue
en grande toilette
en loge
en masse
en papillote
en passant
en pension
en plein
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
end run
end sheet
end stop
end stopping
end stress
end table
end the life of
end to end
end up
end up in smoke
end use
end wrench
end your days
end your life
end zone
end-all
end-blown
end-grain
end-lap joint
end-match
end-measure
end-of-day glass
end-point control
end-rack
end-shrink
end-stopped
end-to-end
end-ways
endeavor to
endeca-
endemic disease
ender-on
ender-up
endgate seeder
endive blue
endless belt
endless chain
endless duration
endless round
endless supply
endless task
endless time
endo salt
endo-
endocentric compound
endocentric construction
endocrine disease
endocrine gland
endoderm disc
endoderm lamella
endogamous group
endomersion lens
endomersion objective
endomorphism ring
endoplasmic reticulum
endorsement in blank
endoscopic camera
endotheli-
endotherm 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 perdu
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
engine-room telegraph
engine-sized
engine-sizer
engine-turned
engine-turner
engine-type generator
engineer corps
engineer's chain
engineer's hammer
engineering chemistry
engineering school
engines of war
english breakfast tea
english foxhound
english horn
english muffin
english rabbit
english setter
english shepherd
english sonnet
english springer
english toy spaniel
english walnut
engorgement colic
engrave on
engraved invitation
engraver beetle
engraver's proof
engraver's trick
engraving process
engraving tool
engross the mind
engross the thoughts
engrossed in
engrossed in thought
enharmonic chord
enharmonic diesis
enharmonic interval
enharmonic modulation
enharmonic note
enharmonic scale
enharmonic tetrachord
enharmonic tie
enigma canon
enigmatic canon
enigmatic question
enigmato-
enjoy a certain position
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-
ephemeris second
ephemeris 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
epiglotto-hyoidean
epilepsia gravior
epilepsia major
epilepsia minor
epilepsia mitior
epilepsia nutans
epilepsia tardo
epilept-
ephrhythmisis cerebris
episcopal 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 aphiha
epoch-forming
epoch-making
epoch-marking
epoxy resin
epsilon-delta
epsilon-neighbourhood
epsom salt
epsom salts
equal opportunity employer
equal share
equal sign
equal temperament
equal to
equal-angled
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
equity court
equity of redemption
equity security
equity side
equivalence class
equivalence reaction
equivalence relation
equivalent algebras
equivalent circuit
equivalent focal length
equivalent monoplane
equivalent odds
equivalent weight
era of prosperity
erase all doubt
erase from the memory
erasing shield
erc-
erd shrew
erc
ere then
erecting prism
erection mark
erector spinae
erg-
ergo proper hoc
ergo propter hoc
ergo sum
ergo-
ergetic school
erl-king
erlenmeyer flask
ernine moth
ern-bleater
ern-fern
erosion cycle
erosion surface
eroso-
erotic art
erotic literature
erotic novel
erotic poetry
eroto-
errand boy
errand girl
errare humanum est
erring sister
error corrector
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
erythr-
erythredema polyneuropathy
erythro-
erythroblastosis fetalis
erythroblastosis 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
eternal universal
eternal verities
eternal youth
eternally the same
eternity ring
eth-
ethane dinitrile
ethanediolic acid
ether drift
ether extract
ether space
ether value
etheric body
etheric double
etheric self
etherin theory
ethical code
ethical drug
ethical formalism
ethical hedonism
ethical nihilism
ethical nihilist
ethical philosophy
ethical relativism
ethical relativist
ethical self
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
ethylene glycol
ethylene group
ethylene oxide
ethylene radical
ethylene series
ethyldiene diethyl ether
ethynyl group
ethynyl radical
eton collar
eton jacket
etymological dictionary
eu-
eu-form
eu-type
eucalyptene hydrochloride
eucalyptus green
eucalyptus gum
eucalyptus oil
eucaryotic cell
eudemis moth
eugenic acid
euglenoid movement
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
even-wayed
evener-up
evening bag
evening campion
evening class
evening damp
evening devotions
evening dress
evening dun
evening emerald
evening flower
evening gown
evening grosbeak
evening lychmis
evening market
evening mist
evening of the score
evening of your days
evening prayer
evening prayers
evening primrose
evening rose
evening school
evening services
evening shirt
evening star
evening stock
evening trumpet flower
evening up
evening watch
evening's calm and holy hour
evening's close
evening-dressed
evening-glory
evening-primrose family
evening-snow
event horizon
events-per-unit-time meter
ever and again
ever and always
ever and anon
ever less
ever more
ever since
ever so
ever so little
ever so many
ever so much
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
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
everlasting 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-pieced
evil-qualitied
evil-savored
evil-shaped
evil-shapen
evil-smelling
evil-sounding
evil-sown
evil-spun
evil-starred
evil-taught
evil-tempered
evil-thewed
evil-thoughted
evil-tongued
evil-weaponed
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 nilo nihil fit
ex off
ex officio
ex opere operato
ex parte
ex parte evidence
ex pedia Herculem
ex post
ex post facto
ex post facto examination
ex post facto law
ex pro brate
ex professo
ex promission
ex propriate
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
exclusive or
exclusive possession
exclusive representation
excruciating pain
excursion steamer
excursion ticket
excuse-me
excused absence
excusing the liberty
exdebito justitiae
exdebito natural
execute a
execute a maneuver
execute a will
execute by firing squad
executive agreement
executive arm
executive branch
executive committee
executive council
executive director
executive editor
executive function
executive hierarchy
executive office
executive officer
executive order
executive plane
executive privilege
executive role
executive secretary
executive session
executive veto
executor dative
exegi monumentum aere perennius
exemplary citizen
exemplary damages
exempli causa
exempli gratia
exempt carrier
exempt from
exemption from hostilities
exercise bone
exercise book
exercise care
exercise device
exercise discrimination
exercise influence
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 angary
exercise your option
exert influence
exert pressure
exert strength
exert yourself
exeunt 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
exigi 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
expansion trunk
expansion valve
expansion wave
expansion wheel
expansive bit
expansive classification
expect it of
expect to
expectant treatment
expectant waiting
expectation neurosis
expectation of life
expected of
expected value
expedite your affair
expend your anger on
expense account
experience imaginatively
experience meeting
experience rate
experience religion
experience table
experience vicariously
experienced hand
experiential philosophy
experiment station
experiment upon
experimental animal
experimental design
experimental engineer
experimental engineering
experimental film
experimental logic
experimental medicine
experimental method
experimental proof
experimental psychology
experimental sample
experimental science
experimental scientist
experimental theater
experimental verification
experimenter effect
expert at
expert consultant
expert in
expert in decor
expert rifleman
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
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-amnionic
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
extreme limit
extreme right
extreme right wing
extreme right-wing
extreme rightism
extreme temperatures
extreme tension
extreme unction
extremely high frequency
extrinsic evidence
extrinsic factor
extro-
extruded plastic
extruding press
extrusive rock
exudation pressure
exudative inflammation
exude cheerfulness
exult in
ey st
ey agate
eye appeal
eye askance
eye bank
eye bath
eye bone
eye cap
eye catcher
eye color
eye defect
eye dialect
eye disease
eye doctor
eye dotter
eye draft
eye drops
eye fold
eye for an eye, an
eye for eye
eye ground
eye hungrily
eye lens
eye liner
eye memory
eye nut
eye of a needle
eye of day
eye of the mind
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-trying
eye-watering
eye-weariness
eye-wink
eye-winking
eye-witness
eye-ball inspection
eye-ball to eye-ball
eye-ball-to-eye-ball
eye-ball-to-eye-ball encounter
eye-brow pencil
eye-glass 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
face molder
face of brass
face out
face pack
face paint
face painter
face painting
face par
face pit
face powder
face presentation
face rouge
face side
face spanner
face specialist
face sponge
face stone
face string
face that would stop a clock
face the music
face to face
face to face with
face to the right-about
face toward
face towel
face up
face up to
face upon
face urn
face validity
face value
face wall
face wheel
face with
face-about
face-ache
face-arbor
face-bedded
face-centered
face-centred
face-harden
face-lift
face-lifting
face-off
face-on
face-saving
face-to-face
faced-lined
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
factory lumber
factory manager
factory ship
factory system
factory tar
factory town
factory worker
factory-new
facts and figures
facts of life
factual base
factual information
facultative referendum
faculty adviser
faculty members
faculty psychology
faculty theory
fad word
fade away
fade away from the memory
fade in
fade into the distance
fade like a dream
fade like a shadow
fade out
fade-in
fade-out
fade-proof
faded rose
faery-fair
faery-frail
fag end
fag out
fag-end
fagged out
fagot-vote
fagot cinnamon
fagot iron
fagot vote
fagot worm
fail ignominiously
fail in
fail in health
fail in your duty
fail miserably
fail of
fail of success
fail of your ambitions
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-ruled
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-weather
cumulus
friend
sailor
draft
yeux doux
box
well
doctrine
cap
cone
sleeve
arrow
bell
bird
bluebird
book
butter
candle
cap
circle
club
court
creeper
cup
cycle
fan
finger
flax
gift
glove
godmother
grass
green
haunt
hillock
king
lamp
lily
lint
lore
man
martin
money
pageant
penguin
play
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
faiites 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
fall star grass
fall stillborn
fall through
fall to
fall to a low ebb
fall to dust
fall to loggerheads
fall to one
fall to pieces
fall to the ground
fall to work
fall to your lot
fall to your share
fall under
fall under your notice
fall upon
fall webworm
fall wheat
fall wind
fall'n into the sere
fall-board
fall-down
fall-in
fall-off
fall-out
fall-plow
fall-sow
fall-trap
fallen angel
fallen arch
fallen countenance
fallen from grace
fallen humanity
fallen nature
fallen state
fallen woman
falling action
falling back
falling band
falling barometer
falling diphthong
falling door
falling down and worshiping
falling glass
falling home
falling leaf
falling loosely
falling off
falling rhythm
falling short
falling shy
falling sickness
falling star
falling terminal
falling-away
falling-ball clock
falling-off
falling-out
falling-outs
fallings-out
fallopian tube
fallout shelter
fallow chat
fallow deer
fallow finch
fallow mind
fallow-deer
false Jerusalem cherry
false Solomon's-seal
false acacia
false air
false alarm
false aloe
false appearance
false arrest
false bedding
false beechdrops
false belief
false bottom
false bread-fruit
false breadfruit
false brome grass
false buckthorn
false buffalo grass
false cadence
false card
false cast
false cheek
false cirrus
false claim
false color
false coloring
false colors
false colours
false dawn
false dew
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-hearty
false-heartyly
false-heartyedness
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
falsify accounts
famble-crop
fame-achieving
fame-blazed
fame-crowned
fame-ennobled
fame-giving
fame-loving
fame-preserving
fame-seeking
fame-sung
fame-thirsting
fame-thirsty
fame-worthy
familia rustica
familial immunity
familiar as household words
familiar friend
familiar friendship
familiar spirit
familiar tune
familiar with
family Bible
family allowance
family altar
family bible
family circle
family compact
family connection
family contract
family counselor
family court
family doctor
family expense
family fare
family favor
family grouping
family homestead
family income policy
family jewels
family likeness
family living
family maintenance policy
family man
family meeting
family name
family of curves
family party
family physician
family plan
family planning
family relationship
family reunion
family romance
family room
family size
family skeleton
family style
family tie
family training
family tree
family wage
family way
family-conscious
family-fare plan
famine bread
famine fever
famine price
famous person
famous persons
fan Fink truss
fan belt
fan blade
fan blower
fan brake
fan club
fan consonant
fan coral
fan cricket
fan dance
fan dancer
fan delta
fan fitter
fan guard
fan heater
fan jet
fan letter
fan magazine
fan maidenhair
fan mail
fan maker
fan marker
fan mill
fan out
fan painter
fan palm
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
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
far-flung
far-flying
far-foamed
far-forth
far-gleaming
far-going
far-gone
far-heard
far-horizoned
far-looking
far-looming
far-northern
far-off
far-offness
far-out
far-parted
far-passing
far-point
far-projecting
far-ranging
far-reaching
far-reachingness
farm machine
farm machinery
farm management
farm manager
farm out
farm pond
farm team
farm tractor
farm-bred
farm-engro
farm-house
farm-stead
farm-yard
farmer cheese
farmer drill
farmer in the dell
farmer’s lung
farmer-general
farmer-generalship
farmers cooperative
farmers-general
farmhouse loaf
faro bank
faro banker
fart around
farthest bound
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
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
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
featherering float
featherering paddle wheel
featherering screw
featherleaf cedar
feathertail glider
feathertop grass
feature attraction
feature editor
feature story
feature-length
feature-writing
febr-
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
felt-jacketed
felt-lined
felt-shod
felt-tip pen
female animal
female being
female gamete
female impersonator
female line
female organ
female organs
female rhyme
female sex
female suffrage
feme covert
feme sole
feme-sole merchant
feme-sole trader
femes covert
femes sole
feminine cadence
feminine caesura
feminine ending
feminine rhyme
feminist therapy
femme de chambre
femme fatale
femmes de chambre
femmes fatales
femoral artery
femto-
fen cress
fen duck
fen farmer
fen farming
fen fever
fen fire
fen grape
fen groundsel
fen lentil
fen orchis
fen rue
fen skate
fen skater
fen skating
fen thrush
fen-born
fen-bred
fen-sucked
fen-ting
fence arbor
fence balk
fence builder
fence in
fence lizard
fence maker
fence month
fence off
fence post
fence puller
fence rail
fence season
fence splicer
fence stretcher
fence tightener
fence-off
fence-sitter
fence-sitting
fence-straddler
fence-straddling
fenced-in
fencer's mask
fencing foils
fencing mask
fencing master
fencing match
fencing school
fencing stick
fencing-in
fend for yourself
fend off
fender bar
fender beam
fender bolt
fender boom
fender pile
fender post
fender skid
fender spar
fender stool
fender wall
fenestration operation
fennel giant
fennel oil
fennel seed
fennel water
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
fertilizer hand
fertilizer maker
fertilizer making
fertilizer meal
fertilizer mill
fertilizer mixer
fertilizer phosphate
fertilizer plant
fertilizer press
fertilizer sampler
fertilizer spreader
fertilizer tank
fertilizer-crushing
fervent hope
fervent imagination
fescue grass
fess point
fess up
fesse point
festal board
festina lente
festival day
festival of lights
festive occasion
festoon cloud
festoon lighting
festoon pine
festooned pahoehoe
fetal diagnosis
fetal position
fetch a blow
fetch about
fetch and carry
fetch away
fetch breath
fetch candle
fetch down
fetch headway
fetch rod
fetch sternway
fetch up
fetch up all standing
fetch up at
fetch-
fetlock joint
fetlock-deep
fetter bone
feu annual
feu charter
feu d'artifice
feu de joie
feu duty
feu farm
feu farmer
feu-farm
feudal estate
feudal investiture
feudal system
feuille-mort
feux d'artifice
feux de joie
fever bark
fever bird
fever blister
fever chart
fever curve
fever flash
fever fly
fever heat
fever of excitement
fever pill
fever pitch
fever plant
fever reducer
fever sore
fever therapy
fever thermometer
fever treatment
fever tree
fever twig
fever ward
fever-cooling
fever-destroying
fever-haunted
fever-lurden
fever-maddened
fever-reducer
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 comber
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
fib-
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
field artillery
field ash
field bag
field balm
field balsam
field basil
field battery
field bean
field bed
field bee
field beet
field bellwort
field betony
field bindweed
field book
field boot
field bugloss
field camomile
field capacity
field captain
field chickweed
field clerk
field coil
field company
field control
field conventicle
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 marshal
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 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-conventicle
field-conventicler
field-cornet
field-cornetcy
field-day
field-discharge switch
field-effect transistor
field-emission X-ray tube
field-glass
field-holler
field-marshel
field-meeting
field-strength meter
field-strip
field-stripped
field-stripping
field-stript
field-transfer switch
field-work
fielded panel
fielder'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-two
fifty-year
fiftyty-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
fil-
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
film color
gfilm cutter
gfilm data
gfilm developer
gfilm editor
gfilm evaporator
gfilm exposure
gfilm fern
gfilm gate
gfilm gate
film 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
fir apple
fir ball
fir balsam
fir club moss
fir cone
fir green
fir moss
fir needle
fir parrot
fir pine
fir rape
fir rope
fir wood
fir wool
fir-bordered
fir-built
fir-crested
fir-scented
fir-topped
fir-tree
fire a salute
fire a shot at
fire a volley
fire adjuster
fire alarm
fire altar
fire and brimstone
fire and fury
fire ant
fire apparatus
fire appliance
fire area
fire arrow
fire assay
fire at
fire away
fire balloon
fire bar
fire barrel
fire barrier
fire basket
fire bay
fire bean
fire beater
fire bed
fire beetle
fire bell
fire belt
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 churn
fire clay
fire cock
fire command
circle 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 finch
fire finder
fire flag
fire fungus
fire gilding
fire gilt
fire gilding
fire glass
fire gong
fire grass
fire grate
fire hangbird
fire hat
fire hazard
fire hearth
fire hook
fire hose
fire hydrant
fire inspector
fire insurance
fire iron
fire irons
fire kiln
fire ladder
fire lane
fire lily
fire line
fire loss
fire main
fire maker
fire making
fire mark
fire marshal
fire mist
fire net
fire of demolition
fire of genius
fire off
fire office
fire opal
fire pail
fire patrol
fire patrolman
fire pike
fire pink
fire pit
fire plant
fire point
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-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 off
first offender
first officer
first option
first or last
first order
first paper
first papers
first person
first philosophy
first place
first position
first post
first principle
first principles
first prize
first quarter
first rate
first reader
first reading
first refusal
first round
first school
first sergeant
first sight
first speed
first stage
first step
first steps
first stomach
first stone
first story
first string
first team
first thing
first tragedian
first violinist
first water
first-aid
first-aider
first-begot
first-begotten
first-born
first-bred
first-built
first-cause argument
first-chop
first-class
first-class mail
first-conceived
first-created
first-day
first-day cover
first-degree burn
first-done
first-endeavoring
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-slitting
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
fixed mind
fixed oil
fixed opinion
fixed point
fixed price
fixed purpose
fixed regard
fixed resolve
fixed satellite
fixed star
fixed stars
fixed station
fixed trust
fixed upon
fixed-bar
fixed-do
fixed-do system
fixed-focus camera
fixed-head coup
fixed-head coupe
fixed-hub
fixed-hub axle
fixed-income
fixed-point representation
fixed-temperature
fixed-wing aircraft
fixing bath
fixity of purpose
fizz out
fizzle out
fl dr
fl oz
flabby-cheeked
flabelli-
flag captain
flag day
flag down
flag fall
flag flower
flag halyard
flag hoister
flag lieutenant
flag list
flag of convenience
flag of truce
flag officer
flag post
flag rank
flag salute
flag seat
flag signal
flag smut
flag station
flag stop
flag waver
flag waving
flag-bearer
flag-bedizened
flag-man
flag-officer
flag-root
flag-ship
flag-staff
flag-stone
flag-waver
flag-waving
flagellate yourself
flageolet tone
flagging iron
flagon-shaped
flagrant falsehood
flagrante delicto
flail at
flail away at
flail joint
flak jacket
flak ship
flak suit
flak train
flak vest
flak figure
flak manna
flak off
flak out
flak stand
flake tragacanth
flake white
flaked-out
flaky pastry
flambor flamb
flame azalea
flame blue
flame bridge
flame cell
flame color
flame cultivator
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
flame-uplifted
flame-winged
flames-of-the-woods
flaming torch
flamingo flower
flamingo-flower
flammable material
flan ring
flange bushing
flange coupling
flange joint
flange nut
flange plate
flange pulley
flange rail
flange steel
flange tile
flange union
flank attack
flank company
flank defense
flank file
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-heeled
flat-hoofed
flat-horned
flat-iron
flat-joint pointing
flat-knit
flat-minded
flat-mouthed
flat-nose
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
flatting furnace
flatting mill
flatting oil
flattop antenna
flatuous 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 hacker
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
fleet-footed
fleeting impulse
flech-gut
flesh and blood
flesh color
flesh crow
flesh eater
flesh flea
flesh fly
flesh fork
flesh glove
flesh hoop
flesh ocher
flesh out
flesh pink
flesh red
flesh show
flesh side
flesh tint
flesh tone
flesh worm
flesh wound
flesh-bearing
flesh-color
flesh-colored
flesh-colour
flesh-consuming
flesh-devouring
flesh-eater
flesh-eating
flesh-fallen
flesh-fly
flesh-pink
flesh-pot
fleshing knife
fleshyly delight
fleshly lust
fleshly-minded
fleshpots of Egypt
fleshy fruit
fleshy-fruited
fleur de luce
fleur de lys
fleur-de-lis
fleur-de-lys
fleurs-de-lis
fleurs-de-lys
fleury counterfleury
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
flight shooting
flight simulator
flight song
flight status
flight strip
flight surgeon
flight test
flight tester
flight training
flight-shooting
flight-shot
flight-test
flightless bird
flim-flam
flimflam man
flincher-mouse
flinders grass
fling at
fling down
fling down the gage
fling down the gauntlet
fling down the glove
fling off
fling out
flinging-tree
flint age
flint and steel
flint clay
flint corn
flint glass
flint gray
flint mill
flint miller
flint milling
flint paper
flint paring
flint skinning
flint sponge
flint wheat
flint-dried
flint-glass
flint-lock
flip a coin
flip chart
flip glass
flip of a coin
flip of the coin
flip out
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
float pump
float road
float seaplane
float stick
float switch
float tank
float trap
float up
float valve
float whey
float with the current
float with the stream
float work
float-boat
float-cut
float-cut file
float-feed
float-feed carburetor
float-iron
float-stone
floating anchor
floating assets
floating battery
floating bridge
floating capital
floating charge
floating debt
floating dock
floating dry dock
floating drydock
floating fescue
floating foundation
floating foxtail
floating gang
floating grass
floating heart
floating hotel
floating inspector
floating island
floating light
floating manna grass
floating mine
floating palace
floating partition
floating point
floating policy
floating rib
floating screed
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 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
fluophosphoric 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
flute 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
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
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 footprints 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
foolscap octavo
foolscap 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-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-cited
fore-court
fore-dated
fore-deck
fore-edge
fore-edge painting
fore-elder
fore-elders
fore-end
fore-exercise
fore-foot
fore-game
fore-glide
fore-gut
fore-hammer
fore-handed
fore-hearth
fore-judge
fore-lie
fore-mean
fore-mention
fore-notice
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
foreedoomed 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-rustling
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
form word
form-
form-establishing
form-fitting
form-function unit
form-giving
form-giving cause
form-relieve
form-revealing
formal agreement
formal cause
formal clothes
formal contract
formal contrast
formal dress
formal fallacy
formal language
formal logic
formal observance
formal speech
formal visit
formal written language
formatio reticularis
formation flying
formative element
formed of
former times
formic acid
formic aldehyde
formidable defenses
forming a part of
forming die
forming press
forming punch
formless darkness
formo-
formolite number
formolite reaction
forms of
forms of divination
formulated belief
formyl group
formyl radical
forsake the world
forsaking of the world
forswear speaking
forswear speech
forswear violence
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-eightmo
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-cylindred
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-legged
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-oclock
four-oclock 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
four-stroke-cycle
four-tailed bandage
four-three-two-one rule
four-time
four-times-accented
four-tined
four-toed
four-toes
four-ton
four-tooth
four-up etc
four-way
four-way cock
four-way switch
four-week
four-wheel
four-wheel drive
four-wheeled
four-wheeler
four-winged
four-yard
four-year
four-year college
four-year-old
four-year-older
fourfold block
fourfold purchase
fourfold tackle
fourier series
fourpence hapenny
fourscore and ten
fourth class
fourth dimension
fourth estate
fourth of july
fourth part
fourth person
fourth position
fourth stomach
fourth wall
fourth-born
fourth-class
fourth-class mail
fourth-dimensional
fourth-form
fourth-hand
fourth-rate
fourth-rateness
fourth-rater
fourth-year
fovea centralis
fowl cherry
fowl cholera
fowl grass
fowl leukemia
fowl leukosis
fowl meadow grass
fowl mite
fowl paralysis
fowl part
fowl pest
fowl pox
fowl spirochaetosis
fowl spirochetosis
fowl tick
fowl typhoid
fowling piece
fowling-piece
fowls of the air
fox and geese
fox bat
fox bolt
fox brush
fox docken
fox dog
fox fire
fox geranium
fox goose
fox grape
fox grass
fox hair
fox hunt
fox hunter
fox hunting
fox key
fox lathe
fox light
fox moth
fox plum
fox poison
fox rose
fox shark
fox snake
fox sparrow
fox squirrel
fox terrier
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
foxter-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
ftrail humanity
ftrail sister
ftrail-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-stander
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
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
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
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
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
from top to bottom
from top to toe
from what cause
from what you can gather
from your angle
from your book
from your heart
from your standpoint
from your viewpoint
fromage a la pie
fromage blanc
front a front
front bench
front court
front crawl
front door
front elevation
front foot
front for
front line
front man
front matter
front money
front of house
front office
front office
front on
front page
front position
front rank
front room
front runner
front scene
front view
front window
front-connected
front-fanged
front-focus
front-focused
front-foot
front-page
front-paged
front-paging
front-porch campaign
front-rank
front-ranker
front-runner
front-wheel
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
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 farming
fruit flavor
fruit fly
fruit garden
fruit grader
fruit jar
fruit jelly
fruit juice
fruit knife
fruit loft
fruit machine
fruit package
fruit packer
fruit packing
fruit peddler
fruit peel
fruit picker
fruit picking
fruit pigeon
fruit pit
fruit pitter
fruit preservative
fruit preserver
fruit pudding
fruit raiser
fruit raising
fruit ranch
fruit rot
fruit salad
fruit seller
fruit set
fruit shipper
fruit shop
fruit show
fruit sirup
fruit slicer
fruit sorter
fruit soup
fruit spot
fruit sprayer
fruit spur
fruit stall
fruit stand
fruit strainer
fruit sugar
fruit tart
fruit tree
fruit vendor
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 lot
full many
full many a time
full many a time and oft
full meal
full measure
full moon
full mouthed
full name
full nelson
full of
full of Dutch courage
full of beans
full of business
full of enthusiasm
full of fight
full of go
full of hate
full of hatred
full of holes
full of hope
full of incident
full of integrity
full of life
full of life and vigor
full of meaning
full of mischief
full of pep
full of piss and vinegar
full of point
full of promise
full of remorse
full of risk
full of sound and fury
full of substance
full of sweet days and roses
full of yourself
full particulars
full permission
full pitch
full power
full powered
full pratique
full professor
full purse
full radiator
full rhyme
full sail
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-blowed
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-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-udderred
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 brusher
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 accomplishments
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
fusco-
fusco-ferruginous
fusco-piceous
fusco-testaceous
fuse block
fuse box
fuse gauge
fuse link
fuse metal
fused quartz
fused silica
fusel oil
fusi-
fusible alloy
fusible metal
fusing disk
fusion bomb
fusion point
fusion reaction
fusion reactor
fusion welding
fuss and feathers
fuss at
fuss up
fuss-budget
fuss-budgety
fusty-framed
fusty-looking
fusty-rusty
futtock band
futtock chain
futtock hoop
futtock plate
futtock shroud
futtock staff
futtock stave
future event
future grain
future life
future perfect
future price
future prospects
future state
future tense
future time
future-minded
futures contract
futurity race
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
gag rein
gag resolution
gag rule
gag runner
gag swivel
gag writer
gag-bit
gag-check
gag-reined
gag-tooth
gaga over
gage green
gage of battle
gain a footing
gain a good knowledge of
gain a hearing
gain a hold upon
gain a thorough knowledge of
gain admittance
gain altitude
gain by
gain command of
gain entree
gain ground
gain influence
gain knowledge
gain knowledge of
gain on
gain over
gain recognition
gain sharing
gain strength
gain the ascendancy
gain the confidence of
gain the day
gain the friendship of
gain the upper hand
gain the whip hand
gain time
gain to windward of
gain understanding of
gain upon
gain weight
gain your end
gain your ends
gain your liberty
gain-
gain-giving
gaining altitude
gaining head
gaining machine
gaining twist
gaited horse
gaiter tree
gaiter-in
gal Friday
gala affair
gala day
galact-
galactic circle
galactic cluster
galactic coordinates
galactic distance
galactic equator
galactic latitude
galactic longitude
galactic nebula
galactic noise
galactic plane
galactic pole
galactic poles
galactic space
galacto-
galam butter
galanga root
galanty show
gale day
gale warning
gale-driven
galena glaze
gales of laughter
galimeta wood
gall and wormwood
gall bag
gall bladder
gall cyst
gall duct
gall fig
gall gnat
gall midge
gall mite
gall oak
gall passage
gall pipe
gall sickness
gall sickness bush
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-
gam-
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
gamboge 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
gang-week
ganging plea
gangle-shanked
gangli-
ganglion cell
ganglion crest
ganglionic blocking agent
gangway board
gangway ladder
gannet paper
gantry crane
gantry scaffold
gaol delivery
gap lathe
gap-frame press
gap-toothed
gape for
gape-gaze
gape-seed
gaping chasm
gaping depths
gapped scale
gar pike
gar-pike
garab tree
garage sale
garam masala
garand rifle
garb willow
garbage barrel
garbage burner
garbage can
garbage cart
garbage collector
garbage conveyer
garbage destructor
garbage digestor
garbage drier
garbage dump
garbage grease
garbage incinerator
garbage man
garbage pail
garbage plant
garbage reducer
garbage tank
garbage tankage
garbage truck
garbage wagon
garble accounts
garboard plank
garboard strake
garbott rod
garde du corps
garde-collet
garde-du-corps
garde-feu
garde-feux
garde-manger
garde-reins
garden apartment
garden balm
garden balsam
garden bond
garden bugloss
garden burnet
garden buttercup
garden camomile
garden cart
garden catchfly
garden celandine
garden centre
garden chafer
garden chair
garden cicely
garden city
garden columbine
garden cress
garden culture
garden cypress
garden egg
garden flea
garden flea hopper
garden fly honeysuckle
garden frame
garden garth
garden geranium
garden ginger
garden glass
garden heliotrope
garden hoe
garden hose
garden house
garden huckleberry
garden hyssop
garden lemon
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
garden-gate
garden-house
garden-seated
garden-variety
garden-wall bond
gardener bird
gardenwall bond
gardes du corps
gardez la foi
gare-fowl
garget plant
garget root
garland chrysanthemum
garland crab
garland crab apple
garland flower
garland larkspur
garlic bread
garlic butter
garlic germander
garlic mustard
garlic oil
garlic pear
garlic powder
garlic sage
garlic salt
garlic shrub
garlic tree
garment center
garment maker
garment making
garment parts
garment presser
garner of facts and fancies
garner up
garnet brown
garnet hinge
garnet jade
garnet lac
garnet paper
garnet-breasted
garnet-colored
garnet-red
garnish bolt
garnishee order
garrison cap
garrison finish
garrison flag
garrison house
garrison prisoner
garrison rations
garrison school
garrison state
garter belt
garter blue
garter snake
garter stitch
garter stockings
garter-blue
garth cress
gas analyzer
gas attack
gas bacillus
gas balloon
gas battery
gas bender
gas black
gas bladder
gas bomb
gas buoy
gas burner
gas cap
gas carbon
gas cell
gas chamber
gas chromatography
gas coal
gas coke
gas company
gas concrete
gas conduction
gas constant
gas counter
gas cutting
gas detector
gas disease
gas electrode
gas engine
gas engineer
gas engineering
gas equation
gas explosion
gas field
gas filler
gas fitter
gas fitting
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-
gastraea 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
gaulltheria oil
gaunt-bellied
gaube ring
gaube tree
gaube weave
gaube-winged
gaivel bread
gaivel corn
gaivel earth
gaivel swine
gay as a lark
gay dance
gaay deceiver
gaay dog
gaay liberation
gaay-beseen
gaay-chirping
gaay-colored
gaay-feather
gaay-flowered
gaay-glancing
gaay-green
gaay-hued
gaay-humored
gaay-looking
gaay-motleyed
gaay-painted
gaay-seeming
gaay-smiling
gaay-spent
gaay-spotted
gaay-tailed
gaay-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

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

geared-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

gefilte fish
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
generous-hearted
genethliac astrology
genetic code
genetic disease
genetic drift
genetic engineering
genetic fallacy
genetic individual
genetic method
genetic psychology
genetically related
geneca bands
geneca convention
geneca cross
geneca gown
genio-
genitive absolute
genito-
genius domus
genius familiae
genius for
genius loci
genius tutelae
geno-
genoa foresail
genoa jib
genre painter
genre painting
gens d'armerie
geneteel comedian
geneteel comedy
geneteel poverty
gentian blue
gentian family
gentian root
gentian violet
gentianic acid
gentile-falcon
gentility manners
gentill-
gentisic acid
gentle art
gentle as a lamb
gentle breeze
gentle contact
gentle craft
gentle hint
gentle melancholy
gentle sex
gentle sleep
gentle slope
gentle wind
gentle-born
gentle-bred
gentle-browed
gentle-eyed
gentle-handed
gentle-handedly
gentle-handedness
gentle-looking
gentle-mannered
gentle-manneredly
gentle-manneredness
gentle-minded
gentle-mindedly
gentle-mindedness
gentle-natured
gentle-naturally
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
gentoopenguin
genuvalgum
genuineobject
genushomo
geo probe
gergeo-navigation
gerocentric longitude
gerocentric parallax
gerodesic dome
gerodesic geometry
gerodesic line
geodetic engineer
geodetic engineering
geodetic longitude
geodetic satellite
geodetic survey
geodetic surveying
geographic determinism
geographic environment
geographic longitude
geographic range
geographical determinism
geographical dictionary
geographical mile
geographically limited
geoid-spheroid
geoid-spheroid balance
geologic time
geological chemistry
geological dictionary
geological engineer
geological engineering
geological time periods
geometric figure
geometric isomerism
geometric mean
geometric pace
geometric progression
geometric proportion
geometric ratio
geometric series
geometrical horizon
geometrical lathe
geometrical optics
geometrical pace
geometrical pitch
geometrical progression
geometrical stair
geophysical satellite
gorgia
geostrophic wind
geotectonic geology
geranium creeper
geranium family
geranium lake
geranium oil
geranium pink
geriatric disease
germinator
germ cell
germ destroyer
germ disease
germ disk
germ gland
germ layer
germ nucleus
germ pathology
germ peg
germ plasm
germ plasma
germ pore
germ spot
germ stock
germ theory
germ track
germ tube
germ warfare
germ-forming
german baptist brethren
german cotillion
german measles
german shepherd
german silver
germander chickweed
germander sage
germander speedwell
germanium crystal triode
germanium oxide
germanium triode
germano-
germicidal lamp
germinal area
germinal disc
germinal disk
germinal imagination
germinal vesicle
germinate from
geront-
geronto-
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 ball ed up
get all boll ixed 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
get 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 kelter
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
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
gift-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
gift wrapping
gift-rope
gift-wrap
gift-wrapped
gift-wrapper
gift-wrapping
gift-wrapt
gifted child
gifted person
gig lamp
gig machine
gig mill
gig-lamp
gig-mill
giga-
gigaelectron volt
gigant-
giggle house
gigot sleeve
gila monster
gild the lily
gild the pill
gilding metal
gilding wax
gilgai soil
gill arch
gill bailer
gill bar
gill basket
gill book
gill box
gill cavity
gill chamber
gill cleft
gill comb
gill cover
gill filament
gill frame
gill fungus
gill helix
gill net
gill plume
gill pouch
gill rake
gill raker
gill rod
gill scoop
gill slit
gill-ale
gill-book
gill-cup
gill-flirt
gill-less
gill-like
gill-netter
gill-over-the-ground
gill-run
gill-shaped
gillie-wetfoot
gillie-whitefoot
gilling machine
gilling thread
gilt-edge
gilt-edged
gilt-edged securities
gilt-handled
gilt-head
gilt-headed
gilt-knobbed
gilt-robed
gilt-tail
gim peg
gimbal joint
gimbal ring
gimlet bit
gimlet eye
gimlet-eyed
gimmer hog
gimmer lamb
gimp lapper
gimp nail
gin and tonic
gin block
gin drinker's liver
gin fizz
gin mill
gin palace
gin pole
gin race
gin rickey
gin ring
gin rummy
gin sling
gin wagon
gin wheel
gin yard
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
inger pop
inger punch
inger quill
inger root
inger snap
inger spice
inger tea
inger up
inger wine
inger-beer
inger-beery
ginger-color
ginger-colored
ginger-faced
ginger-grass oil
ginger-hackled
ginger-haired
ginger-pop
ginger-red
gingerbread man
gingerbread nut
gingerbread palm
gingerbread plum
gingerbread 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
girder riveter
girder stay
girder 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
glad-surviving
glade lily
glade mallow
glamour girl
glamour issue
glamour puss
glance at
glance coal
glance cobalt
glance copper
glance of the eye
glance off
glance over
glance pitch
glance through
glance upon
glancing angle
glancing boom
glancing light
gland disease
glandular fever
glandular plague
glandular therapy
glans clitoridis
glans penis
glare ice
glare-eyed
glaring light
glaring look
glass bead
glass block
glass blower
glass blowing
glass brick
glass burner
glass cement
glass coach
glass curtain
glass cutter
glass cutting
glass decorator
glass eye
glass gall
glass harmonica
glass house
glass jaw
glass lizard
glass of time
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
glen-garry bonnet
glen-o-
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
globigerina ooze
globo-cumulus
globular cluster
globular lightning
globus hystericus
globus pallidus
glam 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-
glosso-
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
glückliche Reise
gluconic acid
glucose sirup
glucose vinegar
glucuronic acid
glue boiler
glycogen disease
glycogenic acid
glycolic acid
glycollic acid
glyconic acid
glycuronic acid
glycyrrhizae composita
glyoxyl urea
glyptic artist
glyptographic artist
gnamma 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 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
go to seed
go to shivers
go to show
go to sleep
go to smash
go to smithereens
go to the bad
go to the bathroom
go to the bitter end
go to the bottom
go to the country
go to the deuce
go to the devil
go to the dogs
go to the electorate
go to the front for
go 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-drank
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
gooblin fish
gooblin scarlet
gooblin 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-cared
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-mouthe
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-paaauw
gombeen-man
gombeen-men
gombroon 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
gonorheal arthritis
gonorheal 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 humour
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 sportmanship
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-naturally
good-naturedness
good-neighbor
good-neighbor policy
good-neighbourhood
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-goodyness
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
goose-step
goose-stepped
goose-stepper
goose-stepping
goose-wing
gooseberry bush
gooseberry family
gooseberry fool
gooseberry fruitworm
gooseberry gourd
gooseberry mildew
gooseberry moth
gooseberry picker
gooseberry pie
gooseberry rust
gooseberry sawfly
gooseberry spanworm
gooseberry stone
gooseberry tomato
gooseberry tree
gooseberry wine
gooseberry-eyed
goosefoot family
goosefoot maple
gooseneck lamp
gooseneck slicker
goosewing jibe
gopher apple
gopher ball
gopher drift
gopher frog
gopher hole
gopher plant
gopher plum
gopher snake
gopher tortoise
gopher turtle
gopher wood
gopher-hole blast
gora log
gordian knot
gordon setter
gordura grass
gore strake
gore-fish
goreng pisang
gorge circle
gorge hook
gorge on
gorge wind
gorge yourself
gorgon plant
gorgon-headed
goring cloth
gorse duck
gorse hatcher
gos-lettuce
gosh-awful
gosh-darn
gosling color
gosling grass
gosling green
gospel music
gospel oath
gospel side
gospel truth
gospel-true
gosport tube
gossamer fern
gossamer spider
gossip column
gossip columnist
gossip made tedious by morality
got to
gothic arch
gothic section
gouden reaal
gouge carving
gouge out
gouge shell
gourd cup
gourd family
gourd melon
gourd towel
gourd tree
gourd-shaped
gourdhead buffalo
gourdseed buffalo
gourmet quality
gout fly
gout ivy
gout of rain
gout tree
gouty arthritis
gouty stool
gouv-
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
grade by grade
grade cricket
grade crossing
grade insignia
grade line
grade peg
grade school
grade schooler
grade separation
grade stake
graded post
graded school
gradient microphone
gradient post
gradient wind
gradual change
graduate assistant
graduate education
graduate nurse
graduate school
graduate student
graduate-professional
graduate-professional education
graduated scale
graduated student
graduated tape
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 thrasher
grain tin
grain traveler
grain weevil
grain weaver
grain-burnt
grain-carrying
grain-cleaning
grain-cut
grain-eater
grain-eating
grain-fed
grain-growing
grain-laden
grain-wagon hitch
grains d'orge
grains 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
grand larceny
grand mal
grand march
grand master
grand monde
grand old man
grand opera
grand passion
grand pian
grand piano
grand prior
grand quarter
grand seigneur
grand seignior
grand serjeanty
grand sicle
grand signior
grand slam
grand sonnerie
grand tactics
grand theft
grand total
grand tour
grand vicar
grand vizier
grand-
grand-aunt
grand-dad
grand-daughter
grand-ducal
grand-juror
grand-juryman
grand-nephew
grand-niece
grand-scale
grand-slammer
grand-uncle
grande dame
grande passion
grandes damas
grandes passions
grandfather chair
grandfather clause
grandfather clock
grandfather graybeard
grandfather longlegs
grandfather's chair
grandfather's clock
grandmother clock
grandmother's clock
grandstand play
grandstand player
granger laws
grani-
granite blue
granite gray
granite paper
granite porphyry
granite quarryer
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
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
gasp 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
glass pea
glass pickerel
glass pink
glass plover
glass poly
glass pondweed
glass porgy
glass rockfish
glass roots
glass rug
glass sandwort
glass savanna
glass shears
glass skirt
glass snake
glass snipe
glass sorghum
glass spider
glass sponge
glass staggers
glass steppe
glass style
glass swine
glass table
glass tetany
glass 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
grass-grown
grass-hook
grass-killing
grass-leaved
grass-mowing
grass-of-Parnassus
grass-plat
grass-roofed
grass-roots
grass-roots campaign
grass-roots movement
grass-tree
grass-tree gum
grass-woven
grass-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
grave accent
grave as an undertaker
grave clothes
grave harmonic
grave injustice
grave marker
grave mixture
grave plant
g rave robber
g rave robbing
grave sin
gave wax
gave-born
gave-bound
gave-browed
gave-clothes
gave-colored
gave-digger
gave-digging
gave-faced
gave-looking
gave-riven
gave-robbing
gave-toned
gave-visaged
gave-wax
gavel chickweed
gavel plant
gavel road
gavel shooter
gavel train
gavel-bind
gavel-blind
gavel-blindness
gavel-grass
gavel-pit
gavel-stone
gavel-walk
gaven image
gaves' disease
gaves's disease
gaveside oration
gavestone cutter
gaveyard shift
gaveyard vote
gaveyard watch
gaveyard weed
gravi-
gravimetric analysis
graving dock
graving piece
graving tool
gravitate toward
gravitation battery
gravitation constant
gravitational astronomy
gravitational collapse
gravitational constant
gravitational field
gravitational interaction
gravitational mass
gravitational wave
gravity battery
gravity cell
gravity clock
gravity conveyer
gravity dam
gravity escapement
gravity fault
gravity feed
gravity hinge
gravity knife
gravity meter
gravity pendulum
gravity plane
gravity railroad
gravity stamp
gravity star
gravity ventilation
gravity wave
gravity wind
gravity-circulation
gravity-fed
gravity-operated railway
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
gray-blue
gray-bordered
gray-boughed
gray-breasted
gray-brindled
gray-brown
gray-cheeked
gray-cheeked thrush
gray-clad
gray-colored
gray-crowned
gray-drab
gray-eyed
gray-faced
gray-gowned
gray-green
gray-grown
gray-haired
gray-haired person
gray-headed
gray-headed person
gray-headed woodpecker
gray-hooded
gray-hued
gray-leaf
gray-leaf pine
gray-leaved
gray-lit
gray-mantled
gray-molding
gray-mustached
gray-necked
gray-speckled
gray-spotted
gray-tailed
gray-tailed cardinal
gray-tinted
gray-toned
gray-twigged
gray-veined
gray-white
gray-winged
grayback beetle
grayback herring
graybeard tree
graying temples
grayish-brown
graylag goose
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
greasing 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 pox
great price
great primer
great pyrenees
great ragweed
great reach
great reed
great respect
great rhododendron
great rosebay
great russian
great sallow
great satisfaction
great scale
great scope
great sea
great seal
great sku

great soil group
great soul
great success
great talker
great tit
great toe
great tuna
great unwashed, the
great value
great wheel
great white heron
great white shark
great white trillium
great wind
great with child
great with young
great work
great wrong
great year
great, the
great-
great-armed
great-aunt
great-bellied
great-boned
great-children
great-circle
great-circle chart
great-circle course
great-circle sailing
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-haired
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
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
grid battery
grid bias
grid capacitor
grid circuit
grid 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
gриdle cake
gridle 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
griffon vulture
griffon-vulture
grigri 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 chessey-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
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 ascendance
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
grout box
grout-head
grutlock 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
gruntling ox
gry-
guadalupe plum
guaiac reaction
guaiac test
guaiacol benzoate
guaiacol carbonate
guaiacum wood
guanay cormorant
guar gum
guarantee association
guarantee company
guarantee engineer
guaranteed annual income
guaranteed annual wage
guaranteed bond
guaranteed day
guaranteed day rate
guaranteed income
guaranteed income plan
guaranteed stock
guaranteed wage
guard against
guard band
guard boat
guard book
guard brush
guard cartridge
guard cell
guard chamber
guard dog
guard duty
guard flag
guard hair
guard line
guard lock
guard mount
guard mounting
guard of honor
guard pin
guard plate
guard report
guard ring
guard room
guard ship
guard wire
guard your honor
guard's van
guard-boat
guard-fish
guard-house
guard-rail
guard-room
guard-ship
guarda-costa
guarded secret
guardhouse lawyer
guardian ad litem
guardian angel
guardian spirit
guardroom table
guava apple
guayabera shirt
guayule rubber
gucki grand
gucki nullo
gudgeon pin
guelder rose
guelder-rose
guerre a mort
guerre a outrance
guerre de plume
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 ammoniac
gum angico
gum anime
gum animi
gum arabitc
gum archipin
gum benjamin
gum bensoin
gum boot
gum bush
gum butea
gum camphor
gum cistus
gum copal
gum dammar
gum disease
gum dragon
gum duct
gum elastic
gum elemi
gum euphorbium
gum flux
gum foam
gum galbanum
gum gattie
gum guaiac
gum guaiacam
gum guaiacum
gum guttae
gum hashab
gum juniper
gum kauri
gum kino
gum labdanum
gum mastic
gum mogador
gum myrrh
gum nut
gum olibanum
gum opoponax
gum plant
gum pocket
gum rash
gum resin
gum resins
gum rosin
gum sagapenum
gum sandarac
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
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 oficer
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
gymn-
gymnastic exercises
gymno-
gyn-
gynaeco-
gynandro-
gynec-
gyneeco-
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-eared
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 curlew
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-Anglized
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-accustomed
half-acquainted
half-acquiescent
half-acquiescently
half-acre
half-addressed
half-admiring
half-admiringly
half-admitted
half-admittedly
half-adream
half-affianced
half-aflot
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-blindly
half-blood
half-blooded
half-blown
half-blue
half-board
half-boiled
half-boiling
half-boot
half-bound
half-bowl
half-breadth plan
half-bred
half-breed
half-brilliant cut
half-broken
half-brother
half-buried
half-burned
half-burning
half-bushel
half-butt
half-calf
half-cap
half-carried
half-caste
half-cell
half-cent
half-centuries
half-century
half-chanted
half-cheek
half-civil
half-civilized
half-civilly
half-clad
half-cleaned
half-clear
half-clearly
half-climbing
half-closed
half-closing
half-clothed
half-coaxing
half-coaxingly
half-cock
half-cocked
half-colored
half-completed
half-concealed
half-concealing
half-confessed
half-congealed
half-conquered
half-conscious
half-consciously
half-conservative
half-conservatively
half-consonant
half-consumed
half-consummated
half-contemptuous
half-contemptuously
half-contented
half-contentedly
half-convicted
half-convinced
half-convincing
half-convincingly
half-cooked
half-cordate
half-corrected
half-cotton
half-counted
half-courtline
half-cousin
half-covered
half-cracked
half-crazed
half-crazy
half-critical
half-critically
half-crown
half-crumbled
half-crumbling
half-cured
half-cut
half-dark
half-day
half-dazed
half-dead
half-dead escapement
half-deaf
half-deafened
half-deafening
half-decade
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-dressness
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-left
half-length
half-liberal
half-liberally
half-life
half-life period
half-light
half-lined
half-linen
half-liter
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-meant
half-measure
half-melted
half-mental
half-mentally
half-merited
half-miler
half-minded
half-minute
half-minute glass
half-miseducated
half-misunderstood
half-mitten
half-monitor
half-monthly
half-moon
half-moral
half-mourning
half-mumbled
half-mummified
half-naked
half-nelson
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-shrub
half-shrubby
half-shut
half-shy
half-shyly
half-sib
half-sibling
half-sighted
half-sightedly
half-sightedness
half-silk
half-sinking
half-sister
half-size
half-sleeve
half-sleeved
half-slip
half-smile
half-smiling
half-smilingly
half-smothered
half-snipe
half-sole
half-soled
half-solid
half-soling
half-souled
half-sovereign
half-spoonful
half-spun
half-squadron
half-staff
half-starved
half-starving
half-step
half-sterile
half-stock
half-stocking
half-stopped
half-strain
half-strained
half-stroke
half-strong
half-stuff
half-subdued
half-submerged
half-successful
half-successfully
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
halfway covenant
halfway file
halfway house
halfway in the middle
halfway mark
halfway measures
halfway place
halfway 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-list
hand-loom
hand-opped
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-tooled
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 indentation
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-
haploid 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-favoredness
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-haired
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-swearer
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
harvest lily
harvest lord
harvest louse
harvest mite
harvest month
harvest moon
harvest mother
harvest mouse
harvest queen
harvest spider
harvest supper
harvest tick
harvest time
harvest work
harvest worker
harvest yarn
harvest-bug
harvest-field
harvest-lice
harvester ant
harvester-thresher
harvesting ant
has-been
hash house
hash mark
hash over
hash up
hash-slinger
hashab tree
hashed up
hasp lock
hassock grass
hasta la vista
hasta luego
hasta manana
hastato-
hasten off
hasten on
hasty conviction
hasty pudding
hasty retreat
hat blocker
hat carder
hat check
hat cleaner
hat dance
hat dyer
hat homage
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 ascendency
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
hay-de-guy
hay-fed
hay-fever
hay-field
hay-fork
hay-mow
hay-rack
hay-rake
hay-rick
hay-scented
hay-seed
hay-tallat
haystack thorn
hazard a conjecture
hazard of the die
hazard side
hazard warning device
hazel alder
hazel brown
hazel crottiles
hazel grouse
hazel hen
hazel mouse
hazel oil
hazel pine
hazel tree
hazel worm
hazel-eyed
hazel-gray
hazel-grouse
hazel-hen
hazel-hooped
hazel-leaved
hazel-nut
hazel-wood
hazelnut oil
hazy idea
hazy recollection
he-all
he-balsam
he-broom
he-cabbage-tree
he-goat
he-he!
he-heather
he-holly
he-huckleberries
he-huckleberry
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
heading bond
heading course
heading joint
heading machine
heading stone
heading sword
heading tool
heading toward
heading-machine
headline attraction
headlong plunge
headlong rush
headmistress-ship
heads or tails
heads up
heads-up
headwater erosion
heal itself
heal over
heal the breach
heal-all
heal-bite
heal-dog
heald knitter
healing agent
healing art
healing arts
healing blade
healing by first intention
healing by second intention
healing herb
healing leaf
healing ointment
healing quality
healing virtue
health centre
health examination
health food
health food store
health foods
health hazard
health insurance
health officer
health physicist
health physics
health resort
health salts
health spa
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 clam
heart clot
heart clover
heart cockle
heart complaint
heart condition
heart cup
heart disease
heart failure
heart flower
heart line
heart liver
heart liverleaf
heart medic
heart murmur
heart of gold
heart of grace
heart of hearts
heart of oak
heart of stone
heart out
heart pine
heart point
heart rot
heart sac
heart shell
heart shock
heart snakeroot
heart starter
heart stimulant
heart strain
heart surgery
heart tamponade
heart transplant
heart trefoil
heart trouble
heart urchin
heart wall
heart yarn
heart's blood
heart's core
heart's desire
heart's-ease
heart-ache
heart-affecting
heart-angry
heart-back
heart-blood
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
care-gnawing
care-gripping
care-happy
care-hardened
care-hardening
care-heaviness
care-heavy
care-hungry
care-ill
care-leaved
care-leaved aster
care-leaved willow
care-lung machine
care-melting
care-moving
care-piercing
care-purifying
care-quake
care-ravishing
care-rending
care-rendingly
care-robbing
care-searching
care-shaking
care-shaped
care-shed
care-sick
care-sore
care-sorrowing
care-spoon
care-stirring
care-stricken
care-strickenly
care-strike
care-strings
care-struck
care-swelling
care-swollen
care-tearing
care-thrilling
care-throb
care-throbbing
care-tickling
care-to-heart
care-to-heart talk
care-warm
care-warming
heart-weariness
heart-weary
heart-whole
heart-wholeness
heart-wise
heart-wood
heart-wounded
heart-wounding
heart-wringing
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
hearty meal
hearty welcome
heat absorber
heat apoplexy
heat asphyxia
heat balance
heat barrier
heat canker
heat capacity
heat center
heat conduction
heat conductivity
heat content
heat death
heat detector
heat devil
heat energy
heat engine
heat engineer
heat engineering
heat equation
heat equator
heat equivalent
heat exchange
heat exchanger
heat exhaustion
heat factor
heat fever
heat lamp
heat lightning
heat nODULES
heat of condensation
heat of fusion
heat of solidification
heat of sublimation
heat of vaporization
heat potential
heat prostration
heat pump
heat rash
heat ray
heat regulator
heat reservoir
heat rigor
heat science
heat seeker
heat shield
heat sink
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-fruit
heavy-gaited
heavy-handed
heavy-handedly
heavy-handedness
heavy-head
heavy-headed
heavy-hearted
heavy-heartedly
heavy-heartedness
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
hedge brusher
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!
hee-jeebies
heebee-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
helicoidal rising
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-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
herb Robert
herb bennet
herb doctor
herb john
herb of grace
herb paris
herb patience
herb robert
herb-grace
herb-woman
herbaceous border
herbs Paris
herbs Robert
herbs patience
hercules beetle
hercules' club
hercules'-club
herd instinct
herd together
herd's grass
herd's-grass
herd-book
herd-boy
herd-grass
herd-groom
here and now
here and there
here and there in
here and there on
here below
here lies
here today and gone tomorrow
here's good luck
here's how
here's looking at you
here's mud in your eye
here's to absent friends
here's to you
here-hence
hereafter, the
hereditary character
hereditary disease
heriot service
herky-jerky
hermaphrodite brig
hermaphrodite caliper
hermaphrodite duct
hermaphrodite schooner
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-shipping
hero-shipped
hero-shipping
hero-worship
hero-worshiper
hero-worshiping
heroic 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
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 collar
high color
high comedy
high command
high commissioner
high cost
high court
high cranberry
high day
high descent
high diver
high diving
high dudgeon
high energy physics
high explosive
high fashion
high feather
high fidelity
high finance
high flavor
high fog
high frequency
high fulham
high german
high glee
high goal
high grade
high growth rate
high hand
high hat
high heaven
high holiday
high hopes
high horse
high hurdles
high ideals
high income
high iron
high jinks
high jump
high jumper
high king
high life
high light
high liver
high living
high lope
high mass
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 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-lone
high-low
high-low-jack
high-lows
high-lying
high-mettled
high-minded
high-mindedly
high-mindedness
high-motived
high-mounted
high-mounting
high-mu tube
high-muck-a
high-muck-a-muck
high-muckety-muck
high-necked
high-nosed
high-notioned
high-octane
high-octane gas
high-pass
high-pass filter
high-peaked
high-pitch
high-pitched
high-placed
high-pointing
high-pooped
high-potency
high-potential
high-power
high-powered
high-pressure
high-pressure area
high-pressure cylinder
high-pressure methods
high-pressure salesmanship
high-pressured
high-pressuring
high-priced
high-principled
high-priority
high-prized
high-proof
high-protein diet
high-quality
high-raised
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
highly-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
hilario-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-
hip-
hipped on
hipped roof
hippety-hop
hippety-hoppety
hippo-
hippocampal convolution
hippocampal gyrus
hippocras bag
hippocratic oath
hirdie-girdie
hirdum-dirdum
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
hirsuto-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 eld
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
hoc 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
hocus-pocusing
hocus-pocussed
hocus-pocussing
hod carrier
hoddy-doddy
hodge-podge
hodge-pudding
hodgkin's disease
hoe culture
hoe drill
hoe in
hoe into
hoe-cake
hoe-plough
hog ape
hog apple
hog badger
hog brake
hog call
hog caterpillar
hog chain
hog cholera
hog deer
hog flu
hog for, a
hog frame
hog gum
hog hair
hog hook
hog in armour
hog jowl
hog lard
hog louse
hog mane
hog millet
hog money
hog peanut
hog piece
hog plum
hog pox
hog score
hog sheer
hog stave
hog sucker
hog truss
hog turn
hog wallow
hog wire
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-toitiness
hoity-toity
hoity-toitysm
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 conference
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
hold-all
hold-back
hold-clear
hold-down
hold-off
hold-up
hold-up bill
holder of the legal estate
holder-forth
holder-on
holder-up
holding back
holding company
holding furnace
holding ground
holding in
holding in remembrance
holding paddock
holding pattern
holding together
holding-out partner
holdup job
holdup man
hole card
hole in one
hole in the heart
hole in the wall
hole out
hole to creep out of
hole up
hole-and-comer
hole-and-corner
hole-high
hole-in-corner
holes in
holey dollar
holiday camp
holiday-maker
holiday-making
holier than the Pope
holier-than-thou
holistic approach
holistic medicine
hollandaise sauce
holler out
hollo after
hollow back
hollow heart
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-backed
hollow-billed
hollow-cheeked
hollow-chested
hollow-eyed
hollow-footed
hollow-forge
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
home-
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-sickness
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
homoi-
homoio-
homologous chromosomes
homologous vaccine
homolographic 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
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
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
horney-fingered
horney-fisted
horney-hoofed
horney-knuckled
horney-nibbed
horney-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
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-punched
hot-roll
hot-rolled
hot-short
hot-shortness
hot-shot
hot-spirited
hot-spot
hot-spotted
hot-spotting
hot-stomached
hot-stove league
hot-swage
hot-tempered
hot-vulcanized
hot-water bag
hot-water bottle
hot-water cylinder
hot-water fit
hot-water heater
hot-water heating
hot-water pipe
hot-water-heat
hot-water-heated
hot-windy
hot-wire
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
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
hull insurance
hull up
hull-less
hull-less oat
hulling line
hully gully
hum and haw
hum note
hum tone
hum-bird
human being
human dynamo
human ecology
human engineering
human equation
human error
human factor
human family
human form
human frailty
human geography
human interest
human mountain
human nature
human paleontology
human race
human rights
human sacrifice
human species
human weakness
human wreck
human-headed
human-interest story
humane letters
humane society
humanistic scholarship
humanistic therapy
humanized vaccine
humanly possible
humanum est errare
humble apology
humble pie
humble plant
humble yourself
humble yourself before
humble-bee
humble-looking
humble-mannered
humble-minded
humble-mindedly
humble-mindedness
humble-spirited
humble-visaged
humbled 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-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
hurry burly
hurry-burlies
hurry-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-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
hybern-
hybrid computer
hybrid corn
hybrid perpetual
hybrid perpetual rose
hybrid stop
hybrid tea
hybrid tea rose
hybrid vigor
hybrid vigour
hybrid word
hydatid cyst
hydatid mole
hydnocarpic acid
hydr-
hydrangea blue
hydrargyri subchloridum
hydrated alumina
hydrated lime
hydration number
hydraulic accumulator
hydraulic brake
hydraulic coupling
hydraulic engine
hydraulic engineer
hydraulic fluid
hydraulic jump
hydraulic lift
hydraulic machinery
hydraulic mining
hydraulic motor
hydraulic organ
hydraulic pile
hydraulic power
hydraulic press
hydraulic radius
hydraulic ram
hydraulic servo
hydraulic suspension
hydraulic servo
hydraulic torque converter
hydraulic-fill dam
hydraulico-
hydrazo group
hydrazo radical
hydrazoic acid
hydriodic acid
hydro-
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
hypo-
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
hypogastric artery
hypoglossal nerve
hypoglycemic shock
hypoglycemic shock therapy
hypoid gear
hypoionian mode
hypolocrian mode
hypolydian mode
hypomixolydian mode
hyponitrous acid
hypophosphoric acid
hypophosphorous acid
hypophrygian mode
hypophysis cerebri
hypoplastic anemia
hypospray injection
hyposulfurous acid
hyposulphurous acid
hypotheched stock
hypothesis ad hoc
hypothesis and verification
hypothetical imperative
hypothetico-disjunctive
hyps-
hypsi-
hypso-
hyraci-
hyson skin
hyssop loosestrife
hyssop oil
hyssop skullcap
hyssop spurge
hyssop violet
hyssop-leaved
hyst-
hyster-
hysteresis coefficient
hysteresis curve
hysteresis loop
hysteresis loss
hysteresis meter
hysteria libidinosa
hysteria-proof
hysterical aphony
hysterical epilepsy
hysterical fever
hysterical mutism
hystero-
hystero-epilepsy
hystero-epileptic
hystero-epileptogenic
hystero-oophorectomy
hystero-salpingostomy
hysteron proteron
hysteron-proteron
i beam
i-
i-come
i-cried
i-fere
i-type semiconductor
ia-
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 concrete
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 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-crust
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-imprisoned
ice-island
ice-laid
ice-locked
ice-master
ice-mountain
ice-plant
ice-plough
ice-scoured
ice-sheet
ice-skate
ice-skated
ice-skating
ice-stream
ice-work
iceberg lettuce
icebox cake
iced coffee
iced tea
iced-tea spoon
iceland moss
iceland poppy
iceland spar
ich dien
ichn-
ichneumon fly
ichneumon-
ichthy-
ichthyo-
icthys
ichthyophthirius disease
icing sugar
icon-
iconic memory
icono-
icos-
icterus index
icy blasts
icy calm
icy clutch of dread
icy fingers of dread
icy nerves
icy pole
icy wind
icy-cold
id est
idea afloat
idea man
idea of pure reason
idea of reference
idea, the
ideal element
ideal gas
ideal gas equation or law
ideal gas law
ideal of pure reason
ideal point
ideal specific impulse
ideal type
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
ido-
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-
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-farceled
ill-faring
ill-faringly
ill-fashionable
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-friend
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-humored person
ill-humored woman
ill-humoredly
ill-humoredness
ill-humoured
ill-humouredly
ill-humouredness
ill-imagined
ill-informed
ill-intentioned
ill-invented
ill-joined
ill-judge
ill-judged
ill-judging
ill-kempt
ill-kept
ill-knotted
ill-less
ill-lighted
ill-limbed
ill-lit
ill-lived
ill-looked
ill-looking
ill-lookingness
ill-made
ill-manageable
ill-managed
ill-mannered
ill-manneredly
ill-manneredness
ill-mannerly
ill-marked
ill-matched
ill-mated
ill-meant
ill-met
ill-minded
ill-mindedly
ill-mindedness
ill-natured
ill-naturedly
ill-naturedness
ill-neighboring
ill-noised
ill-nurtured
ill-observant
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-requite
ill-requited
ill-resounding
ill-rewarded
ill-roasted
ill-ruled
ill-satisfied
ill-savored
ill-scented
ill-seasoned
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
impedance coil
impedance component
impedance drop
impedance matching
impedance ratio
impedient impediment
impelling force
impend over
imperceptible duration
imperfect cadence
imperfect competition
imperfect contrition
imperfect flower
imperfect fungus
imperfect knowledge
imperfect number
imperfect rhyme
imperfect speech
imperfect usufruct
imperfect vision
imperfectly spoken
imperial Brussels
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 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 soberness
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 childbirth
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 corroboration of
in costume
in council
in course of preparation
in court
in crowds
in curve
in custody
in danger
in danger imminent
in danger of
in darkness
in days of yore
in debate
in debt
in deep
in deep water
in default
in default of
in defense
in deference to
in defiance of
in demand
in denial
in depth
in despair
in desperate case
in desperate straits
in despite of
in detail
in detention
in diapers
in difficulties
in difficulty
in disagreement
in disagreement with
in disarray
in discredit
in disdain
in disfavor
in disgrace
in disguise
in dishabille
in disorder
in dispute
in disrepair
in disrepute
in distress
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 embarrassed 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 other ways
in other words
in our time
in outline
in ovo
in pain
in pais
in pale
in pantomime
in paradise
in parallel
in pari delicto
in part
in partibus
in particular
in partnership
in passage to
in passing
in pawn
in pectore
in pendentive
in penury
in peril
in perpetual remembrance
in perpetuity
in perpetuum
in person
in personam
in petto
in phase
in pieces
in place
in place of
in places
in plain English
in plain sight
in plain style
in plain terms
in plain view
in plain words
in play
in plenty
in point
in point of
in point of fact
in poor health
in poor taste
in port
in position
in posse
in possession of
in possession of your faculties
in possession of your senses
in posthaste
in power
in practice
in prae senti
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 smithereens
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 anti-aircraft 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
inclining 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
indemnity bond
indentured servant
independence day
independence of path
independent assortment
independent clause
independent of
independent of your will
independent school
independent variable
independent-seconds watch
independently rich
independently wealthy
indeterminacy principle
indeterminate sentence
index bar
index card
index center
index correction
index crank
index error
index expurgatorius
index finger
index forest
index fossil
index glass
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
indent, 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
induction machine
induction meter
induction motor
induction regulator
induction top
inductive capacity
inductive method
inductive reactance
inductive reasoning
inducto-
inductor alternator
inductor compass
inductor generator
indulge in
indulge in easy vices
indulge in wish-fulfillment
indulge with
indulge your appetite
indulge your appetites
indulge yourself
indurated clay
industrial action
industrial archaeology
industrial art
industrial arts
industrial chemistry
industrial design
industrial designer
industrial disease
industrial economy
industrial engineer
industrial engineering
industrial estate
industrial instrumentation
industrial insurance
industrial life insurance
industrial medicine
industrial park
industrial psychologist
industrial psychology
industrial relations
industrial revolution
industrial school
industrial store
industrial union
industrial worker
industrial zone
inequity
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
inevitability 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
infectious 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
infinitely continuous
infinitely 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
inflationary prices
inflationary spiral
inflationary trend
inflationist period
inflection of voice
inflection point
inflexible will
inflict a penalty on
inflict capital punishment
inflict on
inflict pain
inflict upon
influence machine
influence peddler
influence peddling
influence user
influential person
influential persons
inform against
inform on
informa pauperis
informal English
informal agreement
informal language
informal school
informal speech
informal standard speech
informal vote
information against
information center
information explosion
information machine
information media
information medium
information retrieval
information science
information storage
information theory
informatory double
informed in
informed of
informing gun
infra dig
infra dignitatem
infra indignatatem
infra praesidia
infra-
infra-anal
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
inherent stability
inherent vice
inheritance factor
inheritance tax
inherited immunity
inhibit your desires
inhibiting antibody
initial rhyme
initial stability
initiation fee
inject in
inject yourself into
injection grid
injection method
injection-gneiss
injure your reputation
injury benefit
injury of your reputation
injury time
injury to your reputation
injury-proof
ink bag
ink ball
ink bell
ink black
ink bottle
ink bottler
ink cap
ink cartridge
ink disease
ink eradicator
ink eraser
ink fountain
ink gall
ink grinder
ink in
ink knife
ink maker
ink malady
ink marble
ink mixer
ink mushroom
ink nut
ink pad
ink plant
ink printer
ink roller
ink sac
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-
in inner 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
in-o-
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
insert 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 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
intermediary 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
intern-internal neuronal neuron
interpersonal theory
interplanetary explorer
interplanetary rocket
interplanetary space
interplanetary travel
interpretation clause
interpretation of dreams
interpretative dance
interpreive semantics
interquartile range
interracial 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 iron
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
intra-vitam
intracranial cast
intracutaneous test
intransitive relation
intransitive verb
intraterine device
intravenous drip
intravenous therapy
intrazonal soil
intrenching tool
intrinsic evidence
intrinsic factor
intrinsic semiconductor
intro-
introduce in
introduce new blood
introductory phrase
introductory study
intrusive rock
intuitional geometry
intuitive impression
intuitive knowledge
intuitive reason
invalid claim
invalid linking
invalid title
invalidity benefit
invariant subalgebra
inveigh against
inventory-clearance sale
inverse cosecant
inverse cosine
inverse cotangent
inverse feedback
inverse function
inverse geometry
inverse image
inverse peak voltage
inverse proportion
inverse ratio
inverse relationship
inverse secant
inverse sine
inverse square law
inverse tangent
inversion casting
inversion center
inversion point
inversion temperature
inversion transconductance
invert soap
invert sugar
inverted comma
inverted cross
inverted engine
inverted flight
inverted king post truss
inverted mordent
inverted normal loop
inverted pleat
inverted snob
inverted spin
inverted turn
invertible counterpoint
inverting telescope
invest in
invest with power
investigation into first causes
investigative agency
investigative bureau
investment bank
investment banker
investment banking
investment banking house
investment bill
investment broker
investment casting
investment company
investment credit
investment mold
investment reserve
investment securities
investment trust
investors on the sidelines
invisible balance
invisible glass
invisible hand
invisible helper
invisible ink
invisible painting
invisible radiation
invisible shadow
invitation to combat
invitational race
invite attention
invite ridicule
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
ipecac 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-capped
iron-cased
iron-clenched
iron-coated
iron-colored
iron-core transformer
iron-cored
iron-curtain country
iron-enameled
iron-faced
iron-fastened
iron-forged
iron-founder
iron-free
iron-gloved
iron-grated
iron-gray
iron-grey
iron-guarded
iron-handed
iron-hard
iron-hearted
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
isocynano group
isocynano radical
isoelectric point
isoganal line
isogonat line
isogonic line
isoionic 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 louse
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
jack field
jack frost
jack fruit
jack head
jack hern
jack in
jack johnson
jack ketch
jack ladder
jack lagging
jack lamp
jack lantern
jack light
jack line
jack mackerel
jack nicker
jack oak
jack of all trades
jack pigeon
jack pin
jack pine
jack pit
jack plane
jack plum
jack post
jack pot
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-pinche
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
jack-plane
jack-pudding
jack-rabbit
jack-screw
jack-snipe
jack-spaniard
jack-staff
jack-stone
jack-straw
jack-tar
jack-yarder
jackal buzzard
jackass bark
jackass brig
jackass clover
jackass copal
jackass deer
jackass fish
jackass gunter
jackass hare
jackass kingfisher
jackass penguin
jackass rig
jackass-rigged
jackdaw in peacock's feathers
jacket crown
jackhead pit
jacking engine
jacking-up
jackknife clam
jackknife-fish
jackknife-fishes
jackleg lawyer
jackleg politician
jacko bush
jacks-of-all-trades
jackson day
jacky winter
jacob's ladder
jacob's membrane
jacob's staff
jacobean lily
jade green
jade plant
jade-green
jade-stone
jag bolt
jag spear
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 clausis
janus geminus
japan allspice
japan clover
japan drier
japan wax
japanese beetle
japanese iris
japanese millet
japanese mink
japanese persimmon
japanese plum
japanese quince
japanese spurge
japanic acid
jar on
jar upon the ear
jar with
jar-bird
jar-burial
jar-owl
jara-assu
jardin anglais
jardin chinois
jardin des plantes
jardins anglais
jardins chinois
jargon aphasia
jargon word
jarring of sounds
jasmine oil
jasmine tea
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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
dennie harp
denny ass
denny cutthroat
denny howlet
denny 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
jerry-built
jersey giant
jerusalem artichoke
jerusalem cherry
jerusalem cricket
jerusalem thorn
jest-book
jet airplane
jet black
jet blast
jet bomber
jet break
jet coal
jet condenser
jet d'eau
jet engine
jet engineer
jet engineering
jet exhaust
jet fighter
jet flight
jet fuel
jet injection
jet interrupter
jet jockey
jet lag
jet motor
jet pilot
jet pipe
jet plane
jet pod
jet power
jet propeller
jet propulsion
jet pump
jet rock
jet set
jet setter
jet stream
jet tanker
jet thrust
jet transport
jet wash
jet-assisted takeoff
jet-black
jet-enamelled ware
jet-pile
jet-propelled
jet-propulsion
jet-set
jet-setter
jeu d'esprit
jeu de mots
jeu de theatre
jeune fille
jeune premier
jeune premiere
jeunes filles
jeunes premiers
jeunesse dor
jeunesse doree
jeux d'esprit
jeux de mots
jew crow
jew down
jew nail
jew's harp
jew's-eye
jew's-harp
jew-fish
jewel block
jewel box
jewel case
jewel smuggling
jewel thief
jewel-block
jewel-bright
jewel-colored
jewel-enshrined
jewel-gleaming
jewel-headed
jewel-house
jewel-loving
jewel-proof
jewel-studded
jeweler's putty
jeweler's rouge
jewelers' putty
jewelers' rouge
jeweller's rouge
jewelry store
jewelweed family
jewish calendar
jews' harp
jews' stone
jews' trump
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
juggling plank
john barleycorn
john bull
john doe
john dory
john hancock
john henry
john-a-nokes
john-a-stiles
john-apple
johnny cake
johnny house
johnny reb
johnny-cake
johnny-jump-up
johnny-on-the-spot
johnson grass
joie de vivre
join Maths
join battle
join battle with
join forces
join fortunes with
join hands
join hands with
join in
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
joy girl
joy powder
joy ride
joy rider
joy riding
joy stick
joy-beredf
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-jitsu
ju-ju
jubilant display
jubilee indulgence
judaeo-
judas hole
judas tree
judas window
judas-tree
judeo-spanish
judex ordinarius
judex pedaneus
judge advocate
judge advocate general
judge advocate general corps
judge advocate generals
judge advocates
judge advocates general
judge amiss
judge before the evidence is in
judge beforehand
judge delegate
judge not
judge of assize
judge ordinary
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-sighting
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
kaiser brown
kaiser roll
kaju apple
kako-
kala azar
kala-azar
kalamein work
kale brose
kale gully
kale runt
kale worm
kale-
kaleyard school
kamashimo zashi
kambing utan
kamehameha day
kamic body
kamoot tree
kana-majiri
kanal rays
kangaroo acacia
kangaroo apple
kangaroo bear
kangaroo beetle
kangaroo closure
kangaroo cloture
kangaroo court
kangaroo feathers
kangaroo grass
kangaroo hare
kangaroo jerboa
kangaroo mouse
kangaroo paw
kangaroo rat
kangaroo thorn
kangaroo vine
kangaroo-rat
kans grass
kanya butter
kanya tree
kapok oil
kapok tree
kappa meson
karate expert
karma-marga
karri-tree
karroo bush
kary-
karyo-
kashgar tamarisk
kashmir goat
kat-
kata-
katabatic wind
katsura tree
kauri copal
kauri gum
kauri pine
kauri resin
kava gum
kaw-
kayo punch
keV
kedani fever
kedani mite
kedge anchor
kedge off
kedge-anchor
keekwilee-house
keel and keelson
keel arch
keel batten
keel line
keel over
keel petal
keel rail
keel rope
keel up
keel vessel
keel-boat
keel-bully
keeled snake
keelson rider
keen about
keen desire
keen eye
keen interest
keen on
keen pleasure
keen satisfaction
keen sight
keen-biting
keen-eared
keen-edged
keen-eyed
keen-nosed
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 offing
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 troth
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
keeping in mind
keeping room
keeping secret
keeping-room
keg fig
keg spring
kei-apple
kekuna oil
kelp ash
kelp crab
kelp goose
kelp greenling
kelp gull
kelp hen
kelp pigeon
kelp plover
kelp raft
kemiri nut
kemp-haired
kendal green
kennel club
kennelly-heaviside layer
kenny method
keno goose
kent cap
kente cloth
kentucky coffee tree
kephal- 
kept down
kept in
kept in remembrance
kept in reserve
kept mistress
kept under
kept woman
kera-
kerat kamel
kerat-
kerato-
kerb drill
kerb market
kerb weight
kerb-stone
kerbstone market
kermes mineral
kermes oak
kern counter
kernel sentence
kernel smut
kernel spot
kerosene heater
kerosene stove
kerry blue terrier
kestner plant
ket-
ketch-rigged
keto form
keto-
keto-enol isomerism
keto-enol tautomerism
ketone alcohol
ketone body
ketone group
ketone radical
kettle base
kettle hat
kettle hole
kettle maker
kettle moraine
kettle net
kettle of fish
kettle stitch
kettle-bottom
kettle-bottomed
kettle-stitch
kew tree
kewpie doll
key bed
key bit
key block
key bolt
key bugle
key case
key chord
key club
key desk
key drift
key file
key filer
key frame
key fruit
key harp
key holder
key horizon
key industry
key line
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
kicksey-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-dry
kiln-drying
kilo-
kilo-oersted
kiloelectron volt
kilogram calorie
kilogram-calorie
kilogram-force
kilogram-meter
kilogramme-metre
kilovar-hour
kilovolt-ampere
kilovolt-ampere-hour
kilowatt-hour
kilt pleat
kim-kam
kimono sleeve
kind Nature's signal of retreat
kind deed
kind of
kind offices
kind regards
kind remembrances
kind words and comfortable
kind-hearted
kind-mannered
kindest regards
kindle down
kindling wood
kindly act
kindly disposition
kindly-disposed
kindred soul
kindred spirit
kinds of
kinematic pair
kinematic viscosity
kinesi-
kinesthetic memory
kinetic art
kinetic energy
kinetic potential
kinetic theory
kinetic theory of gases
kinetic theory of heat
kinetic theory of matter
kineto-
king at arms
king auk
king ball
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
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
knife-featured
knife-grinder
knife-handle
knife-jawed
knife-plaited
knife-point
knife-shaped
knife-stripped
knifing tool
knight adventure
knight bachelor
knight bachelors
knight banneret
knight baronet
knight commander
knight cross
knight errant
knight errantry
knight grand commander
knight grand cross
knight marshal
knight of columbus
knight of the pen
knight of the plume
knight of the post
knight of the quill
knight of the road
knight service
knight templar
knight's fee
knight's-spur
knight-adventurer
knight-errant
knight-errantries
knight-errantry
knight-errantry
knight-service
knighthood-errant
knightly skill
knights adventurers
knights bachelors
knights bannerets
knights baronets
knights commanders
knights grand commanders
knights grand cross
knights marshals
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
knotted 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 moh'a
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-
ku klux klan
ku kluxer
ku-klux
kudzu vine
kugel granite
kujiira 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
kurro'l'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
laboratory diagnosis
laboratory equipment
laboratory experiment
laboratory method
laboratory microscope
laboratory school
laboratory table
laboratory technician
laboratory technique
laboratory test
laboratory work
laboratory worker
labored breathing
laboring man
laboring oar
labors of Hercules
labour camp
labour exchange
labour-saving
labrador retriever
labyrinth fish
labyrinth packing
lac dye
lac insect
lac lake
lac resin
lac resins
lac sulphuris
lac sumac
lac tree
lac virginis
lac wax
lace bug
lace coral
lace curtain
lace edging
lace fern
lace finisher
lace fly
lace glass
lace grass
lace into
lace lizard
lace maker
lace paper
lace piece
lace pigeon
lace pillow
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
lacrimial duct
lacrimidal gland
lacrimidal 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-reflected
lake-resounding
lake-surrounded
lakeland 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
lamelldoidal 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
lamin-
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 standard
lamp trimmer
lamp-bearing
lamp-bedecked
lamp-black
lamp-blown
lamp-decked
lamp-foot
lamp-heated
lamp-hour
lamp-iron
lamp-lined
lamp-oil
lamp-post
lamp-warmed
lamper eel
lamper-eel
lamprey eel
lampro-
lana dye
lance bucket
lance corporal
lance head
lance of courtesy
lance rest
lance sergeant
lance snake
lance tooth
lance-acuminated
lance-breaking
lance-fashion
lance-headed snake
lance-jack
lance-knight
lance-leaved
lance-linear
lance-oblong
lance-oval
lance-ovate
lance-pierced
lance-shaped
lance-worn
lancet arch
lancet architecture
lancet clock
lancet fish
lancet window
lancinating pain
land agency
land agent
land bank
land battleship
land board
land breeze
land bridge
land broker
land caltrop
land certificate
land chain
land cod
land crab
land crake
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 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
land-grabber
land-grabbing
land-grant bond
land-grant college
land-grant road
land-holder
land-horse
land-hungry
land-law
land-leaper
land-line
land-loper
land-lubber
land-measure
land-mere
land-meter
land-metster
land-obsessed
land-office business
land-poor
land-rat
land-rover
land-service
land-sheltered
land-side
land-slayer
land-spring
land-surrounded
land-surveying
land-tag
land-tax
land-taxer
land-tie
land-value
land-visiting
land-water
land-wind
landed estate
landed gentry
landed interests
landed person
landed property
landfall light
landfall mark
landing angle
landing beach
landing beam
landing card
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
lappet loom
lappet moth
lappet weaving
lappet wheel
lapse back
lapse from grace
lapse into
lapse into disorder
lapse of memory
lapse of time
lapse rate
lapsed from grace
lapsed nature
lapsed state
lapsus calami
lapsus linguae
lapsus memoriae
lapwing gull
larboard watch
larch agaric
larch canker
larch pine
larch sawfly
larch turpentine
lard compound
lard insect
lard oil
lard pig
lard refiner
lard stearin
lard stone
lard type
lard-assed
lardaceous degeneration
larder beetle
lardy cake
lardy-dardy
lares and penates
lares compitales
lares familiaris
lares permarini
lares praestites
lares viales
large amount
large animal
large as life
large black
large calorie
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-
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
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
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
leaden 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 cutting
leaf fall
leaf fat
leaf gold
leaf green
leaf insect
leaf lard
leaf lettuce
leaf metal
leaf metals
leaf miner
leaf mold
leaf monkey
leaf mould
leaf mustard
leaf out
leaf picker
leaf roll
leaf roller
leaf rust
leaf scald
leaf sight
leaf sorter
leaf spot
leaf spring
leaf stripper
leaf through
leaf warbler
leaf-bearing
leaf-clad
leaf-climber
leaf-climbing
leaf-curl fungus
leaf-cutter
leaf-cutting ant
leaf-cutting bee
leaf-eared
leaf-eating
leaf-footed
leaf-forming
leaf-fringed
leaf-gold
leaf-hopper
leaf-laden
leaf-lard
leaf-nose
leaf-nosed
leaf-nosed bat
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
lear 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
least bittern
least common denominator
least common multiple
least flycatcher
least killifish
least of all
least sandpiper
least shrew
least significant digit
least squares
least upper bound
least weasel
leather beetle
leather brown
leather carp
leather cloth
leather dresser
leather enameler
leather fern
leather goods
leather goods store
leather jack
leather maker
leather paper
leather star
leather-backed
leather-bound
leather-colored
leather-covered
leather-cushioned
leather-cutting
leather-faced
leather-hard
leather-headed
leather-jacket
leather-lined
leather-lunged
leather-necked
leather-winged
leatherback turtle
leathery turtle
leave a loose thread
leave alone
leave an aching void
leave be
leave behind
leave flat
leave flatfooted
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
left-eye 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
legal form
legal geology
legal heir
legal holiday
legal inability
legal incapacity
legal instrument
legal irregularity
legal jointure
legal medicine
legal murder
legal order
legal paper
legal plea
legal possession
legal power
legal practitioner
legal proceedings
legal process
legal profession
legal remedy
legal reserve
legal restraint
legal right
legal right of use
legal rights
legal science
legal securities
legal separation
legal statement
legal summons
legal system
legal tender
legal tribunal
legal weight
legal-size paper
legal-tender note
legalis homo
legally separated
leger line
leighorn straw
legion of honor
legion of merit
legionary ant
legislative assembly
legislative bill
legislative body
legislative caucus
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
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 pacifical
letters patent
letters rogatory
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-
leucotropic acid
leukemic reticuloendotheliosis
leuko-
leukocyte-
leuna saltpeter
lev-
levari facias
levee 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
level plane
level premium
level staff
level surfaces
level with
level-coil
level-headed
level-headedness
level-jawed
level-off
level-wind
leveling head
leveling instrument
leveling rod
leveling screw
leveling stand
leveling support
levelling screw
levels of meaning
lever action
lever engine
lever escapement
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
libidinal energy
libido arrest
libido fixation
libra mayor
library binding
library card
library case
library catalog
library director
library edition
library paste
library school
library science
library steps
library table
libration in latitude
libration in longitude
libration of the moon
libretto-writing
license bond
license fee
license plate
license tax
licensed pilot
licensed practical nurse
licensed victualer
lich bird
lich fowl
lich gate
lich owl
lich path
lich stone
lich-gate
lich-house
lich-owl
lichen fungus
lichen green
lichen islandicus
lichen primus
lichen tropicus
lichen-clad
lichen-crustedit
lichen-grown
lichen-laden
lichenic acid
lick into shape
lick of work
lick one's shoes
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
life peer
life plant
life preserver
life principle
life process
life raft
life records
life ring
life rocket
life savings
life science
life seen through a temperament
life sentence
life size
life space
life span
life story
life style
life table
life to come
life upon the larger scale
life vest
life zone
life's duration
life's guide
life's work
life-abhorring
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-bellied
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-heartedness
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 vitæ
ligulate-flowered
liguli-
like 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 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-elele
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-breed
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-enseate
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
linguæ 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
lion-bold
lion-color
lion-drunk
lion-footed
lion-guarded
lion-haunted
lion-headed
lion-heart
lion-hearted
lion-hid
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
litz 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
liver brown
liver chestnut
liver death
liver disease
liver extract
liver fluke
liver fluke disease
liver fungus
liver lily
liver maroon
liver of sulfur
liver of sulphur
liver rot
liver salts
liver sausage
liver sausage tree
liver shark
liver spots
liver-brown
liver-colored
liver-hued
liver-moss
liver-rot
liver-white
liveried servant
liverwort lettuce
livery colors
livery company
livery cupboard
livery servant
livery stable
livery-man
livery-stable
livestock insurance
livid brown
livid pink
livid purple
livid violet
livid with rage
livid-brown
living being
living death
living force
living fossil
living hall
living image
living in
living issue
living language
living machine
living matter
living nature
living picture
living pledge
living quarters
living rock
living room
living sapphires
living soul
living space
living thing
living trust
living wage
livre jaune
livre parisis
livre tournois
lizard bronze
lizard fish
lizard flower
lizard green
lizard seeker
lizard's-tail
lizards-tail
lizardtail grass
llama hair
lm-hr
lm/W
lo and behold
loa loa
load chart
load control
load displacement
load draft
load factor
load fund
load indicator
load line
load line mark
load of money
load resistance
load shedding
load the dice
load the mind
load the mind with
load water line
load water plane
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
lobato-partite
lobato-ramulose
lobby pine
lobby through
lobed-leaved
lobelia blue
lobelia family
lobelia violet
loblolly bay
loblolly boy
loblolly pine
loblolly sweetwood
loblolly tree
lobster Newburg
lobster Newburgh
lobster Thermidor
lobster caterpillar
lobster crab
lobster flower
lobster moth
lobster newburg
lobster pot
lobster roll
lobster shift
lobster thermidor
lobster tour
lobster trap
lobster trick
lobster-horns
lobster-red
lobster-tail
lobster-tail helmet
lobster-tailed
lobsters-claw
lobular pneumonia
lobular pump
loc cit
local anaesthetic
local anesthetic
local authority
local call
local case
local color
local colour
local dialect
local economy
local examinations
local express
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 face
locked-wire rope
locked pallet
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
lofen coat
lofen green
lodge a complaint
lodge a plaint
lodge in the mind
lodged in your mind
lodgepole 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
logical thought
logically impossible
logico-metaphysical
logistic curve
logistic line
logo-
logographic character
logographic symbol
logos Christology
logos theology
logothete-
logwood black
logwood blue
logwood paper
loin end
loiter about
loiter around
loiter away the time
loiter behind
loiter out the time
loll around
loll shraub
loli-shraub
lollop around
lolly water
lombard street
lombard-street
lomi-lomi
london pride
lone hand
lone pair
lone wolf
lone woman
lonely end
lonely heart
lonesome end
long accent
long account
long ago
long arm
long ballot
long bill
long bob
long bone
long card
long chair
long chalk
long clam
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-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-grassed
long-hair
long-haired
long-haired griffon
long-hand
long-handed
long-handled
long-head
long-headed
long-headedness
long-heel ed
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-nebbed
long-neck clam
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-protracted
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-robed
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-styled
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
loot 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 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-curved
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-robed
loose-skinned
loose-spikened
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-mouths
loud-ringing
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
loudy-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
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
lunitidal 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
lyrico-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
madreporic 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
magico-sympathetic
maginot line
magistral line
magistrates' court
magma basalt
magmaic stoping
magna charta
magna cum laude
magne-
magnesia magma
magnesium carbonate
magnesium chloride
magnesium citrate
magnesium dioxide
magnesium flare
magnesium hydroxide
magnesium light
magnesium oxide
magnesium peroxide
magnesium sulfate
magnesium trisilicate
magnet forger
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
magnetic tape recorder
magnetic tape unit
magnetic tube of force
magnetic variation
magnetic viscosity
magnetic wire
magnetic wire recorder
magnetico-
magnetite arc
magnetite arc lamp
magnetite-basalt
magnetite-olivinite
magnetite-spinellite
magnetizing current
magnetizing force
magneto assembler
magneto-
magneto-electric
magneto-electricity
magneto-optical effect
magnetocaloric effect
magnetoelectric generator
mail boat
mail car
mail carrier
mail catcher
mail coach
mail drop
mail flag
mail order
mail orderly
mail packet
mail phaeton
mail pouch
mail steamer
mail train
mail truck
mail van
mail-cheeked
mail-coach
mail-order buying
mail-order goods
mail-order house
mail-order selling
mailed fist
mailed fist, the
mailed-cheeked
mailing list
mailing machine
mailing tube
main body
main brace
main chance
main clause
main course
main current
main deck
main diagonal
main dish
main drag
main feature
main features
main force
main gaff-topsail
main gauche
main idea
main interest
main lift
main line
main office
main plane
main plant
main point
main road
main rocket
main royal
main sea
main sequence
main sequence star
main skysail
main staysail
main stem
main store
main street
main strength
main thing
main yard
main-brace
main-brace bumpkin
main-course
main-de-fer
main-deck
main-frame computer
main-guard
main-royal brace
main-royal lift
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-topgallant mast
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
maître d'
maitre d'hôtel
maître de ballet
maître 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-generacy
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 clean sweep
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 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
make short work of
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-
malachite green
malaco-
malade imaginaire
maladie du pays
maladjusted personality
malar bone
malarial fever
malayo-
male 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
malteed 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 friday
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-milliner
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
manage somehow
manage the price of
manage to
manage with
manage yourself
manageable price
managed currency
managed price
managed prices
management accounting
management consultant
management consulting
management engineering
management information system
management share
management theory
management trust
managing director
managing editor
mancona bark
mandarin duck
mandarin orange
mandated territory
mandatory injunction
mandatory primary
mandatory referendum
mandelic acid
mandibulo-
mandibulo-auricularis
mando-bass
mando-cello
mandrel lathe
mandrel press
maned wolf
manettia vine
maneuver tactics
maneuvering room
maneuvering space
mangabeira rubber
mangan-
manganese bronze
manganese brown
manganese dioxide
manganese epidote
manganese heptoxide
manganese oxide
manganese sesquioxide
manganese spar
manganese steel
manganese sulfate
manganese tetroxide
manganese velvet brown
manganese violet
manganic acid
manganeseous 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 criiblee
manifest content
manifest destiny
manifest itself
manifest yourself
manifold paper
manifold pressure gauge
manila grass
manila hemp
manila paper
manipulate the market
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
manners of cooking
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
many-branched
many-breasted
many-celled
many-chambered
many-cobwebbed
many-colored
many-coltered
many-cornered
many-eared
many-eyed
many-faced
many-facedness
many-faceted
many-flowered
many-folded
many-formed
many-fountained
many-gifted
many-handed
many-headed
many-headed multitude
many-headedness
many-horned
many-hued
many-jointed
many-knotted
many-languaged
many-lay
many-leaved
many-legged
many-lived
many-lobed
many-meaning
many-millioned
many-minded
many-mingled
many-mingling
many-mouthed
many-named
many-nationed
many-nerved
many-one
many-parted
many-peopled
many-petaled
many-pigeonholed
many-pillared
many-pointed
many-ranked
many-rayed
many-ribbed
many-rooted
many-rowed
many-seated
many-seatedness
many-seeded
many-sided
many-sidedness
many-sounding
many-spangled
many-sported
many-steepled
many-stemmed
many-storied
many-stringed
many-syllabled
many-tailed
many-tinted
many-toned
many-tongued
many-towered
many-tribed
many-tubed
many-twinkling
many-valued
many-valued logic
many-valved
many-veined
many-voiced
many-wandering
many-weathered
many-winding
many-windowed
many-wintered
many-yeared
map lichen
map maker
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
marble-arched
marble-breasted
marble-calm
marble-checkered
marble-colored
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
mark boundaries
mark degree
mark down
mark lodge
mark of Cain
mark of office
mark of signature
mark off
mark out
mark out a course
mark out for
mark paid
mark the interface
mark the periphery
mark the time
mark time
mark tooth
mark up
mark with a red letter
mark-on
mark-up
marked down
marked resemblance
marked with the crow's foot
marker beacon
marker buoy
marker-down
marker-off
marlinespike seamanship
marling hitch
marmalade box
marmalade plum
marmalade tree
marmoreal repose
marmot squirrel
marnean epoch
maroon red
marquise rose
marquoise scale
marram grass
marriage act
marriage bed
marriage brokage
marriage broker
marriage ceremony
marriage chest
marriage connection
marriage contract
marriage counselor
marriage deities
marriage encounter
marriage flight
marriage god
marriage goddess
marriage guidance
marriage license
marriage of convenience
marriage portion
marriage proposal
marriage relationship
marriage sacrament
marriage settlement
marriage song
marriage vow
marriage-bed
married couple
married love
married man
married name
married print
married state
married status
married woman
marron glace
marrons glac
marrow bean
marrow cabbage
marrow pea
marrow squash
marry into
marry off
marsh andromeda
marsh bent
marsh blackbird
marsh bluebill
marsh buck
marsh cress
marsh crocodile
marsh deer
marsh elder
marsh fern
marsh fever
marsh five-finger
marsh foxtail
marsh gas
marsh grass
marsh harrier
marsh hawk
marsh hen
marsh mallow
marsh marigold
marsh parsley
marsh pea
marsh peep
marsh pennywort
marsh pine
marsh pink
marsh plover
marsh purslane
marsh quail
marsh rabbit
marsh robin
marsh rosemary
marsh samphire
marsh shield fern
marsh speedwell
marsh spike grass
marsh spot
marsh stitchwort
marsh tea
marsh tern
marsh tit
marsh titmouse
marsh treader
marsh trefoil
marsh turnip
marsh vetchling
marsh violet
marsh warbler
marsh watercress
marsh wren
marsh-mallow
marshal your ideas
marshal your thoughts
marshal's baton
marshalling yard
marsupial mole
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-
mash machine
mash note
mash tun
mash up
mash weld
mashie iron
mashie niblick
mask microphone
mask of death
mask stop
masked ball
masking piece
masking tape
mason bee
mason jar
mason moth
mason spider
mason wasp
mason's line
mason's lung
mason-dixon line
masquerade as
masquerade ball
masquerade party
mass action
mass attack
mass card
mass defect
mass destruction
mass energy
mass in
mass leave
mass man
mass market
mass media
mass meeting
mass movement
mass murder
mass noun
mass number
mass observation
mass observer
mass of the presanctified
mass production
mass ratio
mass reflex
mass spectrograph
mass spectrography
mass spectrometer
mass spectrometry
mass spectroscope
mass spectroscopy
mass spectrum
mass suicide
mass unit
mass-book
mass-energy
mass-energy equation
mass-fiber
mass-house
mass-luminosity law
mass-minded
mass-mindedness
mass-monger
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
master your feelings
master yourself
master's degree
master's degree candidate
master's gown
master's oral
master-at-arms
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
masthead angle
masthead compass
mastick tree
mastiff bat
masting house
masto-
mastodon locomotive
mastoid cell
mastoid process
mat bean
mat burn
mat cane
mat finish
mat of hair
mat rush
mat-covered
mat-forming
mat-ridden
mat-roofed
mata-mata
matc-maker
match coins
match cord
match data
match findings
match frame
match game
match hook
match in the powder barrel
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
match-board
match-lined
matchbox bean
matched order
matching machine
matching pair
matching plane
matching set
matchless discordant
mate gourd
mateo-
mater dolorosa
mater lectionis
mater of fact
materia medica
material assets
material basis
material body
material cause
material costs
material culture
material fallacy
material grounds
material logic
material means
material part
material point
material resources
material thing
material things
material wealth
material world
materials handling
maternal ancestor
maternal love
maternity benefit
maternity hospital
maternity insurance
maternity ward
mathematical elements
mathematical expectation
mathematical induction
mathematical linguistics
mathematical logic
mathematical notation
mathematical physicist
mathematical physics
mathematical point
mathematical precision
mathematical probability
mathematically exact
mathematically probable
mathematico-
mathematico-logical
mathematico-physical
matilija poppy
matin song
matinee idol
matinee race
matinee racing
mating call
mating cry
mator mate
matr-
matre d'hôtel
matre d'hôtel butter
matri-
matricaria camphor
matrimonial agency
matrimonial agent
matrimonial bureau
matrimonial union
matrimony vine
matrix algebra
matrix mechanics
matrix paper
matrix sentence
matron of honor
matron of honour
matron-like
matt weave
matte shot
matted hair
matter in deed
matter in hand
matter informalism
matter informalist
matter little
matter of chance
matter of concern
matter of course
matter of fact
matter of ignorance
matter of importance
matter of indifference
matter of interest
matter of law
matter of life and death
matter of life or death
matter of necessity
matter of no consequence
matter of no importance
matter of record
matter painting
matter waves
matter-of
matter-of-course
matter-of-fact
matter-of-factly
matter-of-factness
matters in hand
matters of importance
mattress type
matura diamond
mature age
mature belief
mature judgment
mature man
mature thought
mature woman
matutinal epilepsy
matzo ball soup
matzo balls
matzo meal
matzoth baker
maundy thursday
mauvais quart d'heure
mauvais sujet
mauvaise honte
mauve blush
mauve decade
maxillo-
maximal ideal
maximum dissemination
maximum likelihood
maximum modulus principle
maximum speed
maximum thermometer
maximum-security prison
may I
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
mazal tov
maze-gane
mazel tov
mazer tree
mcm1io n9p8y9r lilglhut
me-too
me-tooism
me-ward
mea culpa
meadow anemone
meadow barley
meadow beauty
meadow bell
meadow bird
meadow brook
meadow brown
meadow cabbage
meadow campion
meadow chicken
meadow chickweed
meadow clover
meadow crake
meadow cress
meadow crocus
meadow crowfoot
meadow cup
meadow death camass
meadow fern
meadow fescue
meadow foxtail
meadow gowan
meadow grass
meadow grasshopper
meadow green
meadow hen
meadow land
meadow lark
meadow lily
meadow moor
meadow mouse
meadow mushroom
meadow mussel
meadow nematode
meadow nuts
meadow nymph
meadow orchis
meadow ore
meadow parsnip
meadow pea
meadow peat
meadow pine
meadow pink
meadow pipit
meadow queen
meadow reed grass
meadow rice grass
meadow rue
meadow saffron
meadow sage
meadow salsify
meadow saxifrage
meadow scabish
meadow snipe
meadow soft grass
meadow sorrel
meadow spear grass
meadow titling
meadow vetchling
meadow vole
meadow-beauty family
meadow-brown
meadow-sweet
meadows and pastures
meager diet
meaking iron
meal beetle
meal moth
meal offering
meal pennant
meal plum
meal snout moth
meal ticket
meal worm
mealie meal
mealy bellwort
mealy bug
mealy-back
mealy-mouthed
mealy-mouthedness
mean anomaly
mean business
mean calorie
mean deviation
mean deviation from the mean
mean distance
mean free path
mean latitude
mean life
mean line
mean mind
mean much
mean noon
mean nothing
mean planet
mean sea level
mean semitone
mean solar day
mean solar time
mean square
mean square deviation
mean sun
mean time
mean to
mean to imply
mean to say
mean to suggest
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-
mechanic'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 man
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
medical dressing
medical ethics
medical examination
medical examiner
medical history
medical instrument
medical jurisprudence
medical jury
medical man
medical practice
medical practitioner
medical prognosis
medical school
medical treatment
medicinal herbs
medicinal leech
medicinal oil
medicine animal
medicine bag
medicine ball
medicine case
medicine chest
medicine dance
medicine dropper
medicine glass
medicine lodge
medicine man
medicine monger
medicine shop
medicine show
medicine tree
medicine wolf
medico-
medico-legal medicine
medieval latin
medieval literature
medieval mode
medio-
medio-passive
meditate over
meditate upon
mediterranean flour moth
mediterranean fruit fly
medium artillery
medium bomber
medium frequency
medium of exchange
medium of transportation
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
meetone your end
megam-
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
mellow-lighted
mellow-looking
mellow-mouthed
mellow-ripe
mellow-tasted
mellow-tempered
mellow-toned
melodic interval
melodic line
melodic minor
melodic minor scale
melody part
melon aphid
melon apple
melon beetle
melon cactus
melon caterpillar
melon fly
melon foot
melon loco
melon louse
melon moth
melon pear
melon seed
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
membraneous labyrinth
membranous labyrinth
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
mening-
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 capacity
mental case
mental chemistry
mental climate
mental composure
mental confusion
mental cruelty
mental cultivation
mental culture
mental defectiveness
mental deficiency
mental derangement
mental disease
mental disorder
mental dissociation
mental distress
mental disturbance
mental effort
mental equilibrium
mental exercise
mental faculty
mental fatigue
mental genius
mental giant
mental grasp
mental handicap
mental healer
mental healing
mental health
mental home
mental hospital
mental hygiene
mental illness
mental image
mental impression
mental instability
mental institution
mental labor
mental linking
mental object
mental outlook
mental philosophy
mental picture
mental poise
mental presentation
mental process
mental prominence
mental ratio
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
meno-
menue viande
meperidine hydrochloride
mer-
mercantile agency
mercantile business
mercantile economy
mercantile law
mercantile marine
mercantile paper
mercantile system
mercapto group
mercapto radical
mercapto-
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
mercur-
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
methacetic acid
methylated spirit
methylated spirits
methacrylic acid
methylene azure
methylene blue
methylene chloride
methylene dichloride
methylene group
methylene iodide
methylene radical
methylidyne group
methylidyne radical
methylisobutenyl ketone
methylphenylcarbinyl acetate
methylrosaniline chloride
methylthionine chloride
methyltrinitro
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-relieves
mezzo-rilievi
mezzo-rilievo
mezzo-soprano
mezzo-soprano clef
mi-
mia mia
mica condenser
mica diorite
mica schist
mice pea
mice pink
michaelmas daisy
miching malicho
mickey finn
mickey mouse
mid-nineteenth
mid-ocean
mid-oestral
mid-off
mid-on
mid-orbital
mid-part
mid-period
mid-periphery
mid-pillar
mid-point
mid-position
mid-refrain
mid-region
mid-river
mid-road
mid-sea
mid-season
mid-side
mid-sky
mid-slope
mid-sole
mid-span
mid-stride
mid-styled
mid-sun
mid-swing
mid-tarsal
mid-term
mid-thigh
mid-thoracic
mid-tide
mid-time
mid-totality
mid-tow
mid-town
mid-travel
mid-value
mid-ventral
mid-volley
mid-walk
mid-wall
mid-wall column
mid-water
mid-week
mid-wicket
mid-workings
mid-world
mid-zone
midair collision
midas fly
midday flower
midday sun
midden mavis
middle C
middle Paleolithic
middle age
middle ages
middle body
middle buster
middle c
middle class
middle common room
middle course
middle deck
middle distance
middle ear
middle earth
middle eight
middle english
middle finger
middle french
middle game
middle greek
middle ground
middle high german
middle irish
middle lamella
middle latitude
middle life
middle low german
middle mast
middle name
middle of the road
middle oil
middle order
middle orders
middle passage
middle path
middle plane
middle point
middle position
middle sailing
middle school
middle scots
middle state
middle staysail
middle stone
middle stump
middle term
middle voice
middle watch
middle way
middle welsh
middle white
middle-aged
middle-agedly
middle-agedness
middle-burst
middle-class
middle-class type
middle-classdom
middle-classism
middle-classness
middle-colored
middle-cut file
middle-distance
middle-earth
middle-growthed
middle-horned
middle-of-the-road
middle-of-the-roader
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
middy 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 gloriousus
miles per hour
miliary fever
miliary 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-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-curest
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-
mirable dictu
miracle drug
miracle drugs
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-wreathen
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
mitre box
mitre joint
mitre square
mitre-jointed
mitre-wort
mitten money
mix Up
mix it up
mix it up with
mix up
mix with
mix yourself up with
mix-hellene
mix-up
mixed acid
mixed bag
mixed blessing
mixed bud
mixed cadence
mixed chorus
mixed crystal
mixed decimal
mixed doubles
mixed drink
mixed drinks
mixed economy
mixed farming
mixed foursome
mixed grill
mixed language
mixed larceny
mixed marriage
mixed metaphor
mixed nerve
mixed number
mixed race
mixed times
mixed up
mixed-blood
mixed-up
mixer tube
mixing faucet
mixing ratio
mixing room
mixing valve
mixo-
mixolydian mode
mixture curve
mixture stop
mixy-maxy
mizen-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-topmast 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
mocassin flower
mocassin plant
mocassin 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
moderne cut
modernist verse
modern-made
modern-practiced
modern-sounding
moderne cut
modest price
modest violet
modi operandi
modi vivendi
modock wool
modular arithmetic
modular assembly
modular production
modulation monitor
modulus of elasticity
modulus of rigidity
modulus of volume elasticity
modus operandi
modus ponens
modus tollens
modus vivendi
moeso-goth
mogul base
mogul locomotive
mohair rug
mohawk weed
moths' scale
moire pattern
moist gangrene
moisten your whistle
moisture equivalent
moisture meter
moisture-absorbent
moisture-resisting
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
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
monoeugenic neuron
monophonic system
monopolistic competition
monopolize the conversation
monopolize the thoughts
monopolize your attention
monopoly value
monorange speaker
monosodium glutamate
monostable circuit
monoxy-
monroe doctrine
mons pubis
mons veneris
monsoon low
monster-bearing
monster-breeding
monster-eating
monster-guarded
monster-taming
monster-teeming
monstrous lie
mont-de-piete
moon-charmed
moon-crowned
moon-culminating
moon-dial
moon-eye
moon-eyed
moon-faced
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
moralrightness
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
mother superior
mother superiors
mother surrogate
mother symbol
mother tongue
mother wit
mother yaw
mother's boy
mother's darling
mother's day
mother's milk
mother's son
mother-church
mother-in-law
mother-in-law plant
mother-naked
mother-of-pearl
mother-of-pearl cloud
mother-of-pearl glass
mother-of-thousands
mother-of-thyme
mother-of-thymes
mother-sick
mother-spot
mothers superior
mothers-in-law
motion backwards
motion block
motion downward
motion forwards
motion from
motion in general
motion photomicrograph
motion picture
motion pictures
motion short of
motion sickness
motion study
motion to
motion to and fro
motion towards
motion upwards
motion work
motion-picture
motion-picture actor
motion-picture camera
motion-picture fan
motion-picture film
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 hand
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-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
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-lauded
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 hen
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 integr
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
muskat 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
musterering 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
myrical alcohol
myrio-
myristic acid
myrmec-
myrmeco-
myrobalan family
myrrh-tree
nail bed
nail bit
nail bone
nail brush
nail caster
nail down
nail enamel
nail file
nail filer
nail filing
nail fold
nail hole
nail maker
nail making
nail molder
nail polish
nail puller
nail set
nail up
nail varnish
nail violin
nail water
nail your colors to the mast
nail-bearing
nail-biting
nail-clipping
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
nalidixic acid
namas kar
namby-pambical
namby-pambics
namby-pambies
namby-pambiness
namby-pamby
namby-pambyish
namby-pambyism
namby-pambynness
name and address
name day
name for office
name names
name of the game
name over
name part
name plate
name tape
name to conjure with
name-caller
name-calling
name-child
name-day
name-drop
name-dropped
name-dropper
name-dropping
names of
namma hole
nand pearl
nankeen bird
nankeen lily
nanny goat
nanny plum
nanny-goat
nano-
nap hand
nap a leather
naphth-
naphtha distiller
naphtha launch
naphthene-base oil
naphthol black
naphthol blue black
naphthol yellow
naphthyl group
naphthyl methyl ketone
naphthyl radical
naphthylamine black
napier's bones
napkin pattern
napkin ring
narcissus fly
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
nautch dance
nautch 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-reshaping
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-neh
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-
necro-
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
needle lace
needle loom
needle maker
needle ore
needle palm
needle point
needle pointer
needle scar
needle spar
needle spike rush
needle telegraph
needle time
needle tooth
needle trade
needle valve
needle weir
needle whin
needle-and-ball indicator
needle-and-thread
needle-bar
needle-billed
needle-fish
needle-form
needle-gun
needle-leaved
needle-made
needle-nosed
needle-point
needle-point lace
needle-pointed
needle-scarred
needle-shaped
needle-sharp
needle-witted
needle-nose pliers
needs must
needs-be
needy, the
neel-bhunder
neer-do-well
negation-proof
negative acceleration
negative answer
negative attitude
negative catalyst
negative electricity
negative feedback
negative flag
negative geotropism
negative glow
negative hallucination
negative income tax
negative ion
negative lens
negative misprision
negative polarity
negative pole
negative reinforcement
negative resistance
negative sign
negative tax
negative taxis
negative transfer
negative transference
negative tropism
negative valence
negative-pole
negative-raising
neglect the opportunity
neglected-looking
negotiable bond
negotiable instrument
negotiable instruments
negotiable note
negotiable paper
negotiable securities
negotiate a loan
negotiate a peace
negro corn
negro-head
negrohead beech
neiges d'antan
neighborhood house
neighborhood newspaper
neither fish
neither fish nor fowl
neither here nor there
neither hide nor hair
neither hot nor cold
neither more nor less
neither nobility nor clergy
neither one thing nor the other
nem con
nemat-
nematode worm
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-grammarians
neo-impressionism
neo-lamarckism
neo-orthodoxy
neo-scholastic
neo-scholasticism
neocolonialist threat
neoclassic art
neofigural postsurrealism
neofigural postsurrealist
neolithic man
neon lamp
neon light
neon tetra
neon tube
neoothodox theology
neoprene rubber
neoza pine
nephelite-basanite
nephelite-diorite
nephelite-porphyr
nephelite-syenite
nephelite-tephrite
nephele-
neph-
nephro-
nephro-ureterectomy
neptunium series
nero antico
neroli camphor
neroli oil
ner-
nerve and sinew
nerve block
nerve canal
nerve cavity
nerve cell
nerve center
nerve centre
nerve cord
nerve eminence
nerve ending
nerve fiber
nerve fibre
nerve gas
nerve impulse
nerve net
nerve ring
nerve sheath
nerve stretching
nerve trunk
nerve yourself
nerve-ache
nerve-celled
nerve-cutting
nerve-deaf
nerve-deafness
nerve-destroying
nerve-irritating
nerve-jangling
nerve-racked
nerve-racking
nerve-rendering
nerve-ridden
nerve-shaken
nerve-shaking
nerve-shattering
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
net tracery
net valuation
net value
net wages
net weaver
net weight
net worth
net-fashion
net-tender
net-veined
net-winged
nether cheeks
nether regions
nether side
nether vert
nether world
nether world diety
nethermost layer
nethermost level
nethermost stratum
neti neti
netted melon
netted-veined
nettie-wife
netting knot
nettle butterfly
nettle cell
nettle cloth
nettle creeper
nettle family
nettle geranium
nettle hemp
nettle potato
nettle rash
nettle tree
nettle-cloth
nettle-leaved
nettle-rough
nettle-stung
nettle-tree
netting cell
network affiliations
network pulser
network show
network stations
neufchatel cheese
neu-
neural arch
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
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-eualed
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-blown
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
news kiosk
news media
news medium
news peg
news release
news report
news room
news service
news stall
news stirring
news story
news ticker
news vendor
news writer
news-greedy
news-letter
news-making
news-man
news-seeking
news-sheet
news-writer
newspaper of record
newspaper post
newspaper syndicate
newton-meter
next best
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
nicotine addict
nicotine addiction
nicotine sulphate
nicotinic acid
nicotinic acid amide
nictitating membrane
nid-nod
niddle-noddle
niddy-noddy
nieve penitente
nievie-nievie-nick-nack
niff-naff
niff-naffy
niffy-naffy
niger oil
niger seed
nigger bug
nigger chaser
nigger chub
nigger daisy
nigger heaven
nigger pine
nigger toe
niggerhead cactus
nigh about
nigh by
nigh hand
nigh on
nigh onto
nigh side
nigh-destroyed
nigh-drowned
nigh-ebbed
nigh-hand
nigh-naked
nigh-past
nigh-spent
night adder
night and day
night ape
night bird
night blindness
night blue
night bolt
night cart
night chair
night clothes
night cloud
night club
night court
night crawler
night crow
night dancer
night dew
night dial
night editor
night effect
night emerald
night fighter
night fire
night flower
night green
night heron
night jasmine
night jessamine
night kaka
night key
night lamp
night latch
night letter
night life
night light
night line
night lizard
night monkey
night office
night operations
night owl
night palsy
night parrot
night partridge
night pennant
night piece
night prayer
night rail
night raven
night rider
night robe
night rocket
night school
night sergeant
night shift
night singer
night snake
night soil
night song
night sparrow
night spell
night spot
night steed
night stick
night sweat
night table
night terror
night vision
night warbler
night watch
night watcher
night watches
night watching
night watchman
night willow herb
night-bird
night-black
night-blind
night-blindness
night-blooming
night-blooming cereus
night-blowing
night-born
night-bringing
night-cap
night-cellar
night-cheering
night-clad
night-cloaked
night-clothes
night-club
night-clubbed
night-clubbing
night-contending
night-cradled
night-crow
night-dark
night-decking
night-dispersing
night-dress
night-enshrouded
night-eyed
night-fallen
night-faring
night-feeding
night-filled
night-flowering
night-fly
night-flying
night-folded
night-foundered
night-gaping
night-glass
night-gown
night-grown
night-hag
night-haired
night-haunted
night-hawk
night-heron
night-hid
night-light
night-long
night-mantled
night-night
night-overtaken
night-owl
night-piece
night-prowling
night-rail
night-raven
night-riding
night-robbing
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
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-syllabled
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
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
no such thing
no sweat
no time
no time at all
no time to be lost
no title
no two ways about it
no use
no water
no way
no way out
no whit
no-account
no-ball
no-being
no-bottom sounding
no-claim bonus
no-claims bonus
no-count
no-deposit
no-deposit-no-return
no-eye pea
no-fault
no-fault insurance
no-go
no-go area
no-go gauge
no-good
no-hit
no-hitter
no-hoper
no-load fund
no-man's-land
no-no
no-nonsense
no-one
no-par
no-par stock
no-par-value
no-place
no-rent land
no-show
no-side
no-surrender
no-system
no-thoroughfare
no-tillage
no-trump
no-trumper
noan's ark
nobel prize
nobiliary particle
noble ambition
noble art
noble art of self-defense
noble birth
noble experiment
noble fir
noble gas
noble metal
noble metals
noble opal
noble rank
noble rank or birth
noble savage
noble-born
noble-couraged
noble-featured
noble-fronted
noble-looking
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 prosequi
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 possimus
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-Hebrew
non-Hellenic
non-Hibernian
non-Hindu
non-Homeric
non-Indian
non- Ionic
non-Irish
non-Islamic
non-Islamitic
non-Israelite
non-Israelitic
non-Israelith
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-juror
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
nonspecific therapy
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-northeast
north-northeastward
north-northeastwardly
north-northeastwards
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
northern canoe
northern cross
northern crown
northern harvestfish
northern hemisphere
northern kingfish
northern lights
northern mammoth
northern pike
northern porgy
northern red currant
northern redtop
northern sennet
northern studfish
northwest by north
northwest by west
norwegian elkhound
nos-
nosce te ipsum
nose ape
nose around
nose around for
nose bag
nose bit
nose cone
nose count
nose dive
nose down
nose drops
nose ender
nose flute
nose glasses
nose guard
nose hitch
nose into
nose iron
nose key
nose leaf
nose out
nose over
nose peg
nose pipe
nose radiator
nose rag
nose ring
nose stiffener
nose to nose
nose to nose with
nose turret
nose up
nose wheel
nose-bag
nose-band
nose-belied
nose-bled
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
noto-
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
novel-purchasing
novel-reading
novel-sick
novel-writing
novelty shop
novelty siding
novice point
novus homo
novus ordo seclorum
now and again
now and forever
now and then
now as previously
now or never
now that
now you're talking
now-a-day
now-a-days
now-accumulated
now-being
now-big
now-borne
now-dead
now-existing
now-fallen
now-full
now-known
now-lost
now-neglected
now-waning
nowhere near
nowhere to be found
nowhere to turn
nowhere-dense
noxious stench
ns-a-vis
nt wt
nth degree
nth power
nu-value
nub yarn
nubbin disease
nubecula major
nubecula minor
nuci-
nucle-
nuclear artillery
nuclear atom
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
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
nutrive 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
ok
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
objects 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
obstinate person
obstinate pride
obstruction light
obstruction to vision
obtain a divorce
obtain a return
obtain by fair means or foul
obtain under false pretenses
obtaining by deception
obtrude on
obtrude upon
obturator artery
obturator canal
obturator fascia
obturator membrane
obturator nerve
obturator vein
obtuse angle
obtuse bissectrix
obtuse triangle
obtuse-angled
obtuse-angled triangle
obtuse-angular
obtusi-
obvious clue
occasional cause
occasional chair
occasional licence
occasional poet
occasional table
occasional verse
occasioned by
occipital bone
occipital lobe
occipito-
occluded front
occult balance
occult meaning
occult phenomena
occult, the
occluding light
occluding screen
occupation bridge
occupation force
occupation franchise
occupation layer
occupation neurosis
occupation stamp
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-
ocer brown
ocher orange
ocher red
ocher-brown
ocher-colored
ocher-red
ocher-yellow
ochr-el-guerche
ochro-
oct-
octa-
octadecanoic 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-
octyl alcohol
octyl phenol
ocuba wax
ocul-
ocular inspection
ocular spectroscope
ocular spectrum
ocular spot
oculo-
oculomotor nerve
odd and even
odd fellow
odd fish
odd job
odd lot
odd man
odd man out
odd moments
odd number
odd or even
odd permutation
odd person
odd thing
odd-bell system
odd-come-short
odd-come-shortly
odd-even check
odd-fangled
odd-humored
odd-jobber
odd-jobman
odd-looking
odd-lot
odd-lot dealer
odd-mannered
odd-me-dod
odd-numbered
odd-pinnate
odd-shaped
odd-sounding
odd-thinking
odd-toed
odds and ends
odds and sods
odds or evens
odds-on
odds-on chance
odium theologicum
odont-
odontoid process
odor of sanctity
odour of sanctity
odylic force
oedipus complex
oeil-de-boeuf
oeils-de-boeuf
oenanthic ester
oenanthic ether
oeno-
oesophage-
oestral 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
of the deepest dye
of the earth
of the essence
of the faith
of the first magnitude
of the first rank
of the first water
of the folk
of the highest type
of the old school
of the same hue
of the same kidney
of the same mind
of the same stripe
of the true faith
of the war party
of two minds
of unsound mind
of use
of value
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
offscourings of society
offscum of society
offset line
offset lithography
offset lithography press
offset sheet
offset staff
offset-litho
doctor dock
offset sheet
offspring of Heav'n firstborn
offtrack betting
oft-named
oft-repeated
oft-time
oft-times
often enough
often offensive
ogee arch
ogee doorway
ogle at
oh boy
oh yes
ohm-ammeter
ohm-ampere system
ohm-mile
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 of myrbane
oil of palms
oil of the sick
oil of turpentine
oil of vitriol
oil of wintergreen
oil omphacine
oil paint
oil painter
oil painting
oil paints
oil palm
oil pan
oil plant
oil press
oil pulp
oil refiner
oil refinery
oil rig
oil ring
oil rock
oil sand
oil shale
oil shark
oil sheet
oil silk
oil slick
oil spot
oil stove
oil switch
oil tanker
oil tanning
oil tar
oil the tongue
oil tree
oil tube
oil varnish
oil well
oil whetstone
oil yellow
oil-bag
oil-base paint
oil-bearing
oil-break switch
oil-bright
oil-burning
oil-carrying
oil-colorist
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-secreting
oil-seed
oil-smelling
oil-soaked
oil-temper
oil-tempered
oil-testing
oil-thickening
oil-tongued
oil-tree
oil-yielding
oilcloth knife
oiled silk
oilspot glaze
oily calm
oily-brown
oily-looking
oily-smooth
oily-tongued
oino-
oiticica oil
oka cheese
okey-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-fashionably
old-fashionable
old-fashion
old-fashionable
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-fogism
old-gathered
old-gentlemanly
old-gold
old-growing
old-ivory
old-ladyhood
old-line
old-line company
old-liner
old-looking
old-maid
oleo strut
oleo-
oleoyl group
oleoyl radical
oleyl alcohol
olfactory area
olfactory bulb
olfactory cell
olfactory nerve
olfactory nerves
olfactory organ
olfactory pit
olfactory sense
olfactory tract
olig-
oligo-
olinda bug
olivaceo-
olive acanthus
olive bark
olive berry
olive branch
olive brown
olive crown
olive drab
olive drabs
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
olympian games
olympic games
om mani padme hum
omander wood
ombres chinoises
ombro-
ome next
omega minus
omega particle
omni mane
omni-
omni-ignorant
omnia vincit amor
omnibus bill
omnibus box
omnibus clause
omnibus driver
omnibus train
omnibus volume
omnibus-driving
omnibus-fashion
omnibus-riding
omnidirectional antenna
omnidirectional microphone
omnidirectional range
omnipotent ruler
omnium gatherum
omnium-gatherum
omnium-gatherums
omo-hyoid
omphalo-
on Easy Street
on Queer Street
on a beam
on a beat
on a bed of roses
on a bowline
on a broad reach
on a cloud
on a declining scale
on a first-name basis
on a footing
on a good footing
on a large scale
on a leash
on a lee shore
on a level
on a line
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 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-
on-again-off-again
on-board
on-coming
on-ding
on-dit
on-drive
on-glaze
on-glide
on-go
on-going
on-hit
on-limits
on-line
on-off switch
on-stage
on-stream
on-the-job training
once again
once and again
once and for all
once and for always
once and no more
once for all
once in a blue moon
once in a coon's age
once in a thousand years
once in a while
once more
once or twice
once over lightly
once pinnate
once removed
once upon a time
once-accented
once-born
once-over
once-run
onco-
ondes Martenot
one C
one accord
one after the other
one all over
one and all
one and indivisible
one and only
one and the same
one another
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 damnest
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-crop
one-cusped
one-day
one-decker
one-dimensional
one-dimensional wave
one-dollar
one-eared
one-egg
one-eighty
one-eyed
one-eyedness
one-finned
one-flowered
one-foot
one-footed
one-fourth
one-grained
one-hand
one-handed
one-handedness
one-hearted
one-hooved
one-horned
one-horse
one-horse town
one-humped
one-hundred-fifty
one-hundred-percenter
one-hundred-percentism
one-ideaed
one-inch
one-jointed
one-layered
one-leaf
one-leaved
one-legged
one-leggedness
one-letter
one-line
one-line octave
one-lung
one-lunged
one-lunger
one-man
one-man rule
one-many
one-minute
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-
onomatopoetic 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
ooblastema 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 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
open-cast mining
opening bit
opening die
opening gun
opening move
opening price
opening time
opening up
openness to sensation
openness to sight
openside planer
opera ballet
opera bouffe
opera box
opera buffa
opera buffas
opera cape
opera cloak
opera comique
opera dancer
opera festival
opera flannel
opera glass
opera glasses
opera hat
opera hood
opera house
opera omnia
opera pink
opera score
opera season
opera seria
opera serias
opera singer
opera-going
opera-mad
operant conditioning
operas buffa
operas seria
operate at a loss
operate on
operatic overture
operatic singing
operating budget
operating company
operating cost
operating costs
operating expense
operating expenses
operating room
operating speed
operating table
operating theatre
operational gain
operational purpose
operational research
operations research
operations room
operative dentist
operative dentistry
operative surgeon
operative surgery
operator gene
operculi-
opere buffe
opere citato
opere serie
ophio-
ophthalm-
ophthalmia neonatorum
ophthalmo-
ophthalmo-reaction
opiate addiction
opinion poll
opinion sampling
opinion survey
opinion-sampler
opistho-
opium den
opium drinker
opium eater
opium poisoning
opium poppy
opium smoker
opium taker
opium-drinking
opium-drowsed
opium-eating
opium-shattered
opium-smoking
opium-taking
opossum mouse
opossum shrimp
opossum tree
opossum wood
opponent colors theory
opportunity cost
oppose change
opposed to
opposed to change
opposed-piston engine
opposing party
opposite as black and white
opposite as day and night
opposite as fire and water
opposite as light and darkness
opposite as the poles
opposite camp
opposite number
opposite poles
opposite prompt
opposite prompt side
opposite sex
opposite side
opposite tide
opposite to
opposite-leaved
oppositi-
opposition party
opposition to change
opposition voice
oppression of spirit
opra bouffe
opra comique
opsonic immunity
opsonic index
opsonic therapy
opsonocytophagic test
opt for
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
orang-outang
orang-utan
orange III
orange aphid
orange aurora
orange basketworm
orange berry
orange blossom
orange chipper
orange chrome yellow
orange chromide
orange coneflower
orange daisy
orange flower water
orange grower
orange gum
orange hawkweed
orange juice
orange lead
orange leaf rust
orange lily
orange madder
orange maggot
orange marmalade
orange melon
orange milkweed
orange milkwort
orange mineral
orange ocher
orange orchard
orange peel
orange peel reflector
orange peeler
orange pekoe
orange quince
orange quit
orange rust
orange scab
orange scale
orange spoon
orange stick
orange sulfur
orange sulphur
orange sunflower
orange swallowwort
orange tip
orange vermilion
orange water
orange wife
orange wine
orange-blossom
orange-colored
orange-crowned
orange-eared
orange-eye butterfly bush
orange-fleshed
orange-flower
orange-flowered
orange-headed
orange-hued
orange-leaf
orange-leaf beetle
orange-peel bucket
orange-red
orange-rufous
orange-shaped
orange-sized
orange-striped
orange-tailed
orange-tawny
orange-throated
orange-tip
orange-tipped
orange-tree
orange-winged
orange-yellow
orate fratres
oratio obliqua
oratio recta
oratorio society
orb of day
orb of night
orb weaver
orbiculato-
orbit sweeper
orbit the earth
orbit the moon
orbital angular momentum
orbital electron
orbital index
orbital quantum number
orbital velocity
orbiting geophysical observatory
orbiting observatory
orbiting solar observatory
orbito-
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
orchido-
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
order port
order up
order-book
ordered around
ordered field
ordered pair
orderly bin
orderly book
orderly officer
orderly room
orderly sergeant
ordinal number
ordinary Joe
ordinary algebra
ordinary differential equation
ordinary jubilee
ordinary life insurance
ordinary man
ordinary people
ordinary point
ordinary ray
ordinary run
ordinary run of things
ordinary seaman
ordinary share
ordinary shares
ordinary stock
ordinary wave
ordinary, the
ordinary-language philosophy
ordinato-punctate
ordnance corps
ordnance datum
ordnance engineer
ordnance engineering
ordnance map
ordnance officer
ordnance rocket
ordnance sergeant
ore bed
ore body
ore bridge
ore car
ore charger
ore chute
ore digger
ore dressing
ore handler
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
originate 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
orthoboric acid
orthochromatic film
orthoclase-basalt
orthoclase-gabbro
orthodox Christian
orthodox judaism
orthoformic acid
orthogonal matrix
orthogonal projection
orthogonal trajectory
orthographic projection
orthomorphic projection
orthopedic surgery
orthophosphoric acid
orthophosphorous acid
orthoptic exercises
ortolan bunting
orycto-
os magnum
osage orange
oscheo-
oscillating current
osteophytes
osteopathic hospital
ostreocysts
ostrich fern
ostrich-egg
ostrich-feather
ostrich-feather grass
ostrich-plume
oswego tea
oto-
otaheite apple
other continuums
other face
other fish to fry
other from
other half
other self
other side
other side of the coin
other side of the picture
other some
other than
other things being equal
other world
other-directed
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 avoirdupois
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-cleaner
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
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
overseas telegram
overshoot the field
overshoot the mark
overshot wheel
overstay the market
overstep the bounds
overstep your bounds
overstep your prerogatives
overstep your rights
overstuffed chair
overt act
overthrow your mind
overthrow your reason
overthrust fault
overtime pay
overture and beginners
overweening pride
overwhelming defeat
ovi-
ovo-
ovo-testis
ovo-viviparous
owala oil
owala tree
owe a grudge
owe it to
owe it to yourself
owe you no thanks
owing to
owl butterfly
owl car
owl fly
owl midge
owl monkey
owl moth
owl parrot
owl swallow
owl's light
owl's-crown
owl-eyed
owl-faced
owl-glass
owl-haunted
owl-headed
owl-light
owl-sighted
owl-wide
owl-winged
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 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
ox-head
ox-headed
ox-horn
ox-stall
ox-tail
ox-tongue
ox-tongue partisan
oxa-
oxal-
oxalic acid
oxalo-
oxbow chest
oxbow front
oxbow lake
oxeye bean
oxeye camomile
oxeye daisy
oxeye molding
oxford cloth
oxford down
oxford movement
oxi-
oxidation number
oxidation potential
oxidation state
oxidation-reduction
oxide blue
oxide brown
oxide purple
oxide red
oxide yellow
oxidizing agent
oxidizing flame
oxime group
oxo process
oxo reaction
oxo-
oxonium compound
oxtail soup
oxter plate
oxy acid
oxy-
oxo-acetylene
oxy-calcium
oxy-salt
oxyacetylene blowpipe
oxyacetylene cutting
oxyacetylene torch
oxyacetylene welder
oxyacetylene welding
oxyacalum light
oxychlor-
oxodiacetic acid
oxygen acid
oxygen effect
oxygen lance
oxygen mask
oxygen ratio
oxygen recorder
oxygen tank
oxygen tent
oxygen therapy
oxygen-acetylene
oxygen-acetylene cutting
oxygen-acetylene welding
oxygen-hydrogen welding
oxyhydrogen blowpipe
oxyhydrogen light
oxyhydrogen microscope
oxyquinoline sulphate
oyer and terminer
oyer agaric
oyer bank
oyer bar
oyer bay
oyer bed
oyer canoe
oyer catcher
oyer crab
oyer cracker
oyer culture
oyer dredge
oyer drill
oyer farmer
oyer fork
oyer fungus
oyer grass
oyer gray
oyer knife
oyer mine
oyer mushroom
oyer park
oyer pink
oyer plant
oyer plover
oyer rake
oyer rock
oyer scale
oyer schooner
oyer scow
oyer shell
oyer sloop
oyer stew
oyer tongs
oyer tree
oyer white
oyer-catcher
oyer-culturist
oyer-shaped
oyer-shell bark louse
oyer-shell scale
oyersters in the half shell
oyersters on the half shell
oyersterscale
oz ap
oz av
oz t
ozaena-
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
paean 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
pain-free
pain-giving
pain-inflicting
pain-killer
pain-killing
pain-producing
pain-racked
pain-stricken
pain-worn
pain-wrought
pain-wrung
pains and punishments
painstakingly match
paint a picture
paint binder
paint bridge
paint brusher
paint cleaner
paint drier
paint finish
paint frame
paint grinder
paint horse
paint hose
paint in bright colors
paint in glowing colors
paint in its true colors
paint keg
paint locker
paint mixer
paint pony
paint pot
paint pretty pictures of
paint primer
paint process
paint remover
paint roller
paint room
paint strake
paint the lily
paint the town red
paint thinner
paint work
paint yourself into a corner
paint-beplastered
paint-filler
paint-filling
paint-mixing
paint-removing
paint-splashed
paint-spotted
paint-spraying
paint-stained
paint-washing
paint-worn
painted beauty
painted bunting
painted cup
painted grass
painted greenling
painted lady
painted pony
painted snipe
painted tongue
painted trillium
painted turtle
painted 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
pakkee 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-angelican
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 doll
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 mulberry
paper muslin
paper nautilus
paper nautilius
paper office
paper on the wall
paper over
paper plant
paper profit
paper profits
paper pulp
paper pulper
paper rack
paper rate
paper sculpture
paper seller
paper shale
paper sorter
paper stainer
paper standard
paper surplus
paper tape
paper tiger
case title
case towel
case toweling
case tree
case varnisher
case war
case wasp
case work
case works
case-backed
case-baling
case-bound

case-capped
case-chasing
case-coated
case-coating

case-collared

case-covered

case-cutter

case-cutting

case-drilling

case-embossing

case-faced

case-filled

case-folding

case-footed

case-hangings

case-lined

case-mended

case-palisaded

case-paneled

case-patched

case-saving

case-selling

case-shell

case-shelled

case-shuttered

case-slitting

case-sparing

case-stainer

case-stamping

case-testing

case-thick

case-thin

case-using

case-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
parabole 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
parathyroid tetany
paratoid gland
paratroop tactics
paratrooper boots
paratyphoid bacillus
paratyphoid fever
parce que
parcel carrier
parcel checker
parcel delivery
parcel gilding
parcel of land
parcel out
parcel paper
parcel post
parcel-blind
parcel-carrying
parcel-deaf
parcel-divine
parcel-drunk
parcel-gilder
parcel-gilding
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 femne
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
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-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
par tin 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
passing around
passing away
passing belief
passing bell
passing by
passing fancy
passing note
passing over
passing shot
passing spring
passing strake
passing strange
passing the buck
passing through
passing up
passing word
passing-note
passion cross
passion flower
passion fruit
passion nail
passion play
passion sunday
passion week
passion-blazing
passion-breathing
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-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
past hope
past master
past mistress
past one's head
past participle
past perfect
past perfect tense
past praying for
past progressive tense
past recall
past recollection
past tense
past time
past times
past use
past your prime
past-due
past-master
paste grain
paste mold
paste on
paste wash
patch board
patch bolt
patch box
patch pocket
patch test
patch things up
patch together
patch up
patch up a friendship
patch up a quarrel
patch-box
patching plaster
patchouli oil
patchwork quilt
pate d'amande
pate de foie gras
patellar reflex
patent anchor
patent block
patent flour
patent hammer
patent leather
patent light
patent log
patent medicine
patent note
patent office
patent right
patent slip
patent space
patent still
patent-cut jib
pater patratus
paternal ancestor
paternal domicile
paternal love
paternal roof
paternity suit
paternoster line
path of least resistance
path-
pathetic fallacy
patho-
pathologic anatomy
pathological chemistry
pathological condition
pathological drinker
pathological drunkenness
pathological indecisiveness
pathological intoxication
pathological liar
pathological lying
pathological type
patience dock
patience of Job
patience-dock
patient as Job
patient man
patient of
patina green
patio process
pat-
patres conscripti
patri-
patria potestas
patriarchal basilica
patriarchal cross
patriarchate of Alexandria
patriarchate of Antioch
patriarchate of Constantinople
patriarchate of Jerusalem
patriots' day
patristic philosophy
patristic theology
patrol boat
patrol bomber
patrol car
patrol plane
patrol torpedo boat
patrol wagon
patron of drama
patron saint
patronal festival
patronizing attitude
patter 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
peartenn up
peas in a pod
peasant blue
peasant cunning
peasant holder
peasant proprietor
peasant proprietorship
peasant revolt
peasant sleeve
peasant-born
pease brose
pease cod
pease pudding
peasecod breastplate
peat bank
peat bog
peat coal
peat digger
peat fiber
peat gas
peat hag
peat machine
peat moor
peat moss
peat reek
peat soil
peat spade
peat-roofed
peat-smoked
peau de soie
pebble cast
pebble dash
pebble gravel
pebble grinder
pebble heater
pebble leather
pebble mill
pebble powder
pebble vetch
pebble-covered
pebble-dashed
pebble-paved
pebble-paven
pebble-shaped
pebble-stone
pebble-strewn
pecan brown
peccant humor
peche melba
peck at
peck horn
peck of troubles
peck order
peckerwood mill
pecking order
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
peele-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
pel-
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
pencil box
pencil case
pencil cedar
pencil compass
pencil diamond
pencil drawing
pencil driver
pencil driving
pencil flower
pencil gate
pencil gating
pencil holder
pencil maker
pencil pusher
pencil pushing
pencil rod
pencil sharpener
pencil sharpening
pencil stone
pencil-beam antenna
pencil-case
pencil-formed
pencil-mark
pencil-shaped
pendant bow
pendant cloud
pendant post
pendant switch
pendant tackle
pendant-shaped
pendant-winding
pendent post
pendente lite
pendulum bob
pendulum clock
pendulum level
pendulum motion
pendulum press
pendulum pump
pendulum watch
pendulum wheel
penetrate into the mind
penetrated with
penetrating eye
penetrating look
penguin duck
penguin grass
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-pinch
penny-pincer
penny-pinching
penny-plain
penny-stone
penny-whistle
penny-wise
penny-wise and pound-foolish
pension off
pensionable age
pensioned off
pensioning off
pent road
pent roof
pent-roof
pent-up
pent-up in the memory
penta-
penta-acetate
pentaerythritol tetranitrate
pentagon dodecahedron
pentagonal dodecahedron
pentane lamp
pentanoic acid
pentatonic scale
penteconta-
penthouse roof
pentobarbitone sodium
pentose nucleic acid
pentose sugar
pentyl acetate
pentyl alcohol
pentyl group
peony dahlia
peony-flowered
people at large
people in general
people of fashion
people's democracy
people's front
people's republic
people's war
people-blinding
people-born
people-devouring
people-king
people-loving
people-pestered
people-pleasing
pep pill
pep rally
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
perch
perchment
perceptible
perception deafness
perceptual
perennials
perennial
perex
perfect
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per
perceptual defence
perch pole
perching bird
perchlor-
perchloric acid
perchromic acid
percolate in
percolate into
percussion bullet
percussion cap
percussion drilling
percussion figure
percussion fire
percussion fuse
percussion hammer
percussion instrument
percussion lock
percussion section
percussion stop
percussion table
percussion-proof
percussive welding
peregrine falcon
pereira bark
peremptory challenge
peremptory plea
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
perfide 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
periarthritis 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
cannot 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
perpend stone
perpend wall
perpendicular distance
perpendicular hand
perpetual adoration
perpetual bond
perpetual calendar
perpetual motion
perplexed question
persecution complex
persian cat
persian lamb
persist in
persistance 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
perversion fool
perversion personality
perversion-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
pet-al
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 dejeneur
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-maftre
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
phallic symbol
phallic worship
phallic worshiper
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
pharmaco-
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
phenylaminoproprionic 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 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
phosphoro-
phosphorous acid
phosphorous anhy-dride
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-
photo 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-
phyllo-
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 solution
physiologically addictive
physiological saline
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
picaresque 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
picnic basket
picnic ham
picnic races
picnic shoulder
pico-
picot edge
picot stitch
pier-
pieramic acid
picric acid
picro-
pictographic character
pictographic symbol
picture book
picture bride
picture card
picture cards
picture carrier
picture channel
picture control
picture detector
picture frame
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
pillar bolt
pillar box
pillar crane
pillar cult
pillar dollar
pillar file
pillar lip
pillar mount
pillar of society
pillar of the church
pillar plate
pillar post
pillar saint
pillar stone
pillar-and-breast
pillar-box
pillar-shaped
pillow block
pillow fight
pillow lace
pillow lava
pillow sham
pillow slip
pillow sword
pillow word
pillow-case
pillow-shaped
pilo-
pilose bent grass
pilot balloon
pilot bird
pilot biscuit
pilot boat
pilot bread
pilot burner
pilot cell
pilot chart
pilot chute
pilot cloth
pilot driver
pilot engine
pilot film
pilot fish
pilot flag
pilot flame
pilot house
pilot jack
pilot jacket
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 curl
pin down
pin fallow
pin gear
pin grass
pin horse
pin in
pin knot
pin mark
pin mill
pin money
pin oak
pin on
pin pallet
pin pallet escapement
pin point
pin pool
pin prod
pin rack
pin rail
pin rod
pin seal
pin setter
pin something on someone
pin stripe
pin the tail on the donkey
pin tooth
pin tuck
pin tumbler
pin up
pin valve
pin vise
pin wheel
pin wire
pin wrench
pin your ears back
pin your faith to
pin your hope upon
pin yourself upon
pin-brained
pin-buttocked
pin-curl
pin-eyed
pin-feather
pin-fire
pin-head
pin-hole
pin-lever escapement
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-sterned
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
pini-
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
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
pipes of Pan
piping cord
piping hot
piping time of peace
piping times
pippin file
pippin-faced
pippin-hearted
piptostegia root
pique your interest
pique yourself
pirate bird
pirate perch
pirate stream
pis aller
pisang wax
pisci-
pish-pash
pismo clam
piss about
piss and vinegar
piss artist
piss away
piss off
piss pot
piss you off
pissed off
pissed-off
pissy-eyed
pistachia galls
pistachio green
pistachio nut
pistacia gall
pistol carbine
pistol fire
pistol grip
pistol plant
pistol shot
pistol-handle knife
pistol-shaped
pistol-whip
pistol-whipping
piston displacement
piston drill
piston engine
piston motion
piston pin
piston plane
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
pitch-lined
pitch-marked
pitch-ore
pitch-pine
pitch-pipe
pitch-stained
pitched battle
pitched roof
pitcher house
pitcher mold
pitcher molding
pitcher plant
pitcher-plant
pitcher-shaped
pitchfork grass
pitching indicator
pitching niblick
pitching piece
pitching tool
pitchy darkness
pith ball
pith hat
pith helmet
pith knot
pithy saying
pitot tube
pitot-static tube
pits, the
pitter-patter
pituitary body
pituitary extract
pituitary gland
pity-bound
pity-moving
pity-worthy
pivotal point
pivot about
pivot bearing
pivot blow
pivot bridge
pivot joint
pivot man
pivot on
pivot pier
pivot span
pivot stand
pivot tooth
pix-jury
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
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-stricken
planet-struck
planetary colony
planetary electrons
planetary house
planetary mansion
planetary nebula
planetary precession
planetary shell
planetaryesimal hypothesis
plani-
planing hull
planing machine
planing mill
plank buttress
plank down
plank plating
plank road
plank scraper
plank-sheer
plank-shear
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
playPRETTY
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
pio-
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
plummet line
plump as a dumpling
plump as a partridge
plump down
plump fact
plump for
plump in the middle
plump upon
plumy 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-fourred
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
pn-
pneo-
pneum-
pneumat-
pneumatic clock
pneumatic hammer
pneumatic servo
pneumatic tire
pneumatic trough
pneumatic tyre
pneumatic-tired
pneumatico-
pneumatico-hydraulic
pneamato-
pneumato-hydato-genetic
pneumo-
pneumocoecal pneumonia
pneumogastric nerve
pneumonic fever
pneumonic plague
pneumono-
po-faced
poached eggs
poacher tub
poalike fescue grass
pock lymph
pock nook
pock scab
pock-arred
pock-frecken
pock-fretten
pock-marked
pock-pit
pocket battleship
pocket billiards
pocket bird
pocket bladder
pocket book
pocket boom
pocket borough
pocket burner
pocket chisel
pocket chronometer
pocket edition
pocket fiddle
pocket flap
pocket gopher
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
poddy-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-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-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
poke-brimmed
poke-cheeked
poke-easy
poke-pudding
poker dice
poker face
poker machine
poker work
poker-faced
poker-work
poky bonnet
polacca rig
polacca-rigged
poland china
polar axis
polar bear
polar body
polar circle
polar coordinate
polar coordinates
polar data
polar distance
polar easterlies
polar equation
polar fox
polar front
polar lights
polar opposites
polar opposition
polar ray
polar seal
polar sequence
polar star
polar valence
polari-
polarity cap
polarity of opinion
polarized-relay armature
polarizing angle
polarizing filter
polarizing microscope
pole bean
pole chain
pole changer
pole compass
pole effect
pole flounder
pole hammer
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
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
politic-
politico-arithmetic
politicocommercial
politico-diplomatic
politicoecclesiastical
politicoeconomical
politicoethic
politicogeographical
politic judicial
politicomilitary
politicomoral
politic orthodox
político-peripatetic
político-religious
político-sacerdotal
político-scientific
político-social
político-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
polysulfide rubber
polysyllabic profundity
polytechnic school
polyunsaturated fat
polyurethane rubber
polyvalent vaccine
polyvinyl acetal
polyvinyl acetate
polyvinyl alcohol
polyvinyl butyral
polyvinyl chloride
polyvinyl resin
polyvinyl-formaldehyde
polyvinylidene chloride
polyvinylidene resin
pom girl
pom-pom
pom-pom girl
pom-pom-pullaway
pomace fly
pome-citron
pome-like
pomegranate purple
pomfret-cake
pomme blanche
pomme de terre
pomme-lion
pommel bag
pommes blanches
pomp and circumstance
pompadour green
pompano shell
pompous person
pompous prolixity
pompous word
ponceau red
pond apple
pond crow
pond cypress
pond duck
pond lily
pond pine
pond scum
pond smelt
pond-apple
pond-cum parasite
pond-skater
ponder over
ponderosa pine
pondosa pine
pondus medicinale
pone bread
pons Varolii
pons asinorum
pont l’éveque
pont-levis
pontes Varolii
pontiff purple
pontoon bridge
pontoon dock
pontoon hull
pontoon lifeboat
pony engine
pony express
pony grass
pony shaft
pony trekking
pony truck
pony truss
pony up
poodle dog
pooh bah
pooh pooh
pooh-bah
pooh-pooh
pooh-pooh theory
pooh-pooher
pool bottle
pool hall
pool hole
pool seller
pool table
pool your interests
pool your interests with
pooling of resources
poon up
poonga-oil
poop cabin
poop deck
poop out
poop royal
poop staff
pooped out
poor White
poor as Job
poor as Job's turkey
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
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
pornographic novel
porphy-
porphyry chamber
porphyry copper
porphyry shell
porpoise oil
porpoise whale
port anchor
port authority
port bar
port captain
port charge
port differential
port duty
port engine
port engine ahead
port engineer
port in a storm
port of call
port of embarkation
port of entry
port risk insurance
port royalist
port superintendent
port tack
port-caustic
port-crayon
port-hole
port-moutheed
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
portrait sculpture
portrait statue
portraying in the mind
portuguese man-of-war
portulan chart
pose a question
pose against
pose as
pose for effect
pose over against
posigrade rocket
posing against
posing over against
position artillery
position buoy
position co-ordinate
position code converter
position coder
position data transmitter
position effect
position finder
position indicator
position isomer
position isomerism
position light
position line
position paper
position target
position tracker
position warfare
positional error
positional notation
positioning mechanism
positive column
positive declaration
positive definiteness
positive direction of pitch
positive direction of roll
positive direction of yaw
positive electricity
positive electron
positive fact
positive feedback
positive geotropism
positive ion
positive law
positive lens
positive lift axis
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
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-Cambrian
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-horse
post-house
post-impressionism
post-impressionistic
post-juvenal
post-kantian
post-mortem
post-mortem clot
post-mortem examination
post-oak grape
post-obit
post-obit bond
post-obituary
post-office address
post-office box
post-office car
post-office order
post-officer
post-ordinar
post-partum
post-pliocene
post-remogeniture
post-road
post-signer
post-tension
post-tertiary
post-town
postage currency
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-valiance
pot-valor
pot-valorous
pot-wabbler
pot-walloper
pot-walloping
pot-wobblers
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 biartrate
potassium bicarbonate
potassium bichromate
potassium binoxalate
potassium bisulfate
potassium bisulphate
potassium bitartrate
potassium bromide
potassium carbonate
potassium chlorate
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 murain
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
potter's 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
poultry buyer
poultry car
poultry car
poultry culture
poultry dealer
poultry dresser
poultry dressing
poultry fancier
poultry fancying
poultry farm
poultry farmer
poultry farming
poultry feed
poultry grower
poultry house
poultry husbandry
poultry judging
poultry keeper
poultry keeping
poultry raiser
poultry raising
poultry rearing
poultry shop
poultry show
poultry stall
poultry tick
poultry wire
poultry yard
pounce bag
pounce box
pounce on
pounce paper
pounce tree
pounce upon
pouncet box
pouncet-box
pouncing paper
pound Scots
pound apothecaries'
pound avoirdupois
pound away
pound boat
pound brush
pound cake
pound degree
pound in
pound lock
pound mile
pound net
pound of flesh
pound out
pound sovereign
pound sterling
pound the ear
pound troy
pound-cake
pound-folly
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 pimpimpimpimp
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-bred 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
praef-
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
praso-
pray God that
pray do
pray for quarter
pray over
prayer bead
prayer beads
prayer book
prayer carpet
prayer flag
prayer machine
prayer mat
prayer meeting
prayer mill
prayer of thanks
prayer paper
prayer rug
prayer scarf
prayer service
prayer shawl
prayer tower
prayer wheel
prayer-answering
prayer-book
prayer-clenched
prayer-granting
prayer-hearing
prayer-lisping
prayer-loving
prayer-repeating
prayerful hope
praying cylinder
praying mantis
pre-
pre-Achaean
pre-Alfredian
pre-American
pre-Ammonite
pre-Ammonitish
pre-Armistice
pre-Arthurian
pre-Aryan
pre-Assyrian
pre-Augustan
pre-Augustine
pre-Babylonian
pre-Baconian
pre-British
pre-Buddhist
pre-Byzantine
pre-Cambrian
pre-Cambridge
pre-Canaanite
pre-Canaanitic
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-Islamitic
pre-Israelite
pre-Israelitish
pre-Jewish
pre-Johannine
pre-Johnsonian
pre-Justinian
pre-Kantian
pre-Koranic
pre-Latin
pre-Laurentian
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-christian
pre-conquestal
pre-contract
pre-distortion
pre-earthly
pre-earthquake
pre-eclampsia
pre-eclamptic
pre-economic
pre-economical
pre-edit
pre-edition
pre-editor
pre-editorial
pre-editorially
pre-educate
pre-education
pre-educational
pre-educationally
pre-effect
pre-effective
pre-effectively
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-enlistment
pre-enroll
pre-enrollment
pre-entail
pre-entailment
pre-enter
pre-entertain
pre-entertainer
pre-entertainment
pre-enthusiasm
pre-enthusiastic
pre-entitle
pre-entrance
pre-entry
pre-enumerate
pre-enumeration
pre-envelop
pre-envelopment
pre-environmental
pre-epic
pre-epidemic
pre-epochal
pre-equalization
pre-equip
pre-equipment
pre-equity
pre-erect
pre-erection
pre-erupt
pre-eruption
pre-eruptive
pre-escape
pre-escort
pre-esophageal
pre-essay
pre-essential
pre-establish
pre-established
pre-establisher
pre-establishment
pre-esteem
pre-estimate
pre-estimation
pre-estival
pre-eter
pre-eternal
pre-evade
pre-evaporate
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-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-explore
pre-explosion
pre-expose
canada
pre-exposition
pre-exposure
canada
pre-expound
canada
pre-expounder
canada
pre-express
canada
pre-expression
canada
pre-expressive
canada
pre-extend
canada
pre-extensive
canada
pre-extensively
canada
pre-extent
canada
pre-extinction
canada
pre-extinguish
canada
pre-extinguishment
canada
pre-extract
canada
pre-extraction
canada
pre-fabulous
canada
pre-free-trade
canada
pre-glacial
canada
pre-ignition
canada
pre-judicial
canada
pre-judiciary
canada
pre-man
canada
pre-operculum
canada
pre-option
canada
pre-orbital
canada
pre-ordinate
canada
pre-preference
canada
pre-raphael
canada
pre-raphaelite
canada
pre-raphaelitism
canada
pre-shrunk
canada
pre-socratic
canada
pre-sternum
canada
pre-teens
canada
preach to the winds
canada
preacher bird
canada
preaching brother
canada
preaching friar
canada
preaching-house
canada
prealternate molt
canada
prebasic molt
canada
prebendal stall
canada
precedent condition
canada
precession of the equinoxes
canada
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
pree 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
preferential system
preferential treatment
preferential voting
preference bond
preference freight
preferred lie
preferred position
preferred stock
prefee-trade
prefrontal leucotomy
prefrontal lobotomy
pregonal fixation
pregnant imagination
pregnant moment
pregnant of good
pregnant with meaning
prehensile tail
prehistoric animal
prehistoric animals
prehistoric anthropology
prehistoric archaeology
prehistoric man
prehistoric races
prejudice against
prejudice the issue
prejudice-proof
prelapsarian state
prelate nullius
preliminary act
preliminary approach
preliminary convention
preliminary examination
preliminary measure
preliminary sign
preliminary signal
preliminary step
preliminary study
premarital relations
premarital sex
premature acceptation
premature baby
premature beat
premature contraction
premature judgment
premier danseur
premier performance
premiere danseuse
premiers danseurs
premium bond
premium bonds
premium gas
premium note
premium system
premonitory chill
premonitory plague
premonitory shiver
premonitory sign
premonitory symptom
prenatal Informal
prendre la balle au bond
prep school
prep schooler
preparatory act
preparatory instruction
preparatory measure
preparatory school
preparatory step
preparatory study
prepare against
prepare food
prepare for
prepare for burial
prepare for the evil day
prepare the ground
prepare the way
prepare to
prepare yourself
prepared and ready
prepared for
prepared for either course
prepared piano
prepared speech
prepared text
prepay station
prepositional phrase
prerogative court
prerogative instance
prerogative office
prerogative writ
presby-
preschool child
prescribe for
prescribed form
prescription drug
prescriptive grammar
preseasonal treatment
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
press cake
press camera
press card
press charges
press clipper
press clipping
press cloth
press conference
press copy
press corrector
press correspondent
press cupboard
press down
press drill
press fastener
press feeder
press fit
press fitter
press forward
press gallery
press gang
press hard upon
press heavy on
press her
press in
press into service
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-forgé
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
presser foot
presser shoe
presser wheel
pressing boards
pressing iron
pressing out
pressure altimeter
pressure altitude
pressure atrophy
pressure blower
pressure boiler
pressure bottle
pressure box
pressure cabin
pressure center
pressure coil
pressure control
pressure cooker
pressure drag
pressure element
pressure evaporator
pressure fan
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-prabbble
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
prickley 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-fruit ed
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-mouthed
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
prime of the year
prime rate
prime song
prime the pump
prime time
prime tone
prime vertical
prime-ministerial
prime-ministrieship
prime-ministry
primed for
primeval forest
priming boiler
priming charge
primitive Indo-European
primitive arch
primitive art
primitive church
primitive faith
primitive polynomial
primitive self
primitive settler
primo tenore
primp up
primrose green
primrose path
primrose peerless
primrose tree
primrose willow
primrose yellow
primrose-colored
primrose-decked
primrose-dotted
primrose-haunted
primrose-leaved
primrose-scented
primrose-spangled
primrose-starred
primrose-sweet
primrose-tinted
primrose-yellow
primuline color
primuline yellow
primum mobile
primus inter pares
primus stove
prince albert
prince charming
prince consort
prince elector
prince of wales
prince regent
prince royal
prince's feather
prince's pipe
prince's-feather
prince's-pine
prince-abbot
prince-angel
prince-bishop
prince-duke
prince-elector
prince-general
prince-killing
prince-poet
prince-president
prince-priest
prince-primate
prince-protected
prince-proud
prince-ridden
prince-teacher
prince-trodden
prince-wood
princes of India
princess pine
princess post
princess regent
princess royal
princess tree
princess-ship
principal argument
principal axis
principal boy
principal character
principal clause
principal diagonal
principal focus
principal idea
principal ideal
principal keeper
principal parts
principal plane
principal point
principal quantum number
principal rafter
printing telegraph
printing-house
calling
printing-out
printing-out paper
printing-press
prior consultation
prior right of purchase
prior to
prism binocular
prism binoculars
prism diopter
prism glass
prism level
prism spectrometer
prism spectroscope
prism telescope
prismatic coefficient
prismatic compass
prismatic layer
prismatic telescope
prison base
prison bird
prison breach
prison camp
prison fever
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
pro tem
pro tempore
pro-
pro-Abyssinian
pro-Alabaman
pro-Alaskan
pro-Algerian
pro-Alsatian
pro-American
pro-Americanism
pro-Anglican
pro-Arab
pro-Arabian
pro-Arabic
pro-Argentine
pro-Arian
pro-Aristotelian
pro-Armenian
pro-Asian
pro-Asiatic
pro-Athenian
pro-Australian
pro-Austrian
pro-Baconian
pro-Baptist
pro-Belgian
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-Rumanian
pro-Russian
pro-Scandinavian
pro-Scriptural
pro-Scripture
pro-Somalia
pro-South
pro-Southern
pro-Soviet
pro-Spain
pro-Spanish
pro-Sudanese
pro-Sweden
pro-Swedish
pro-Swiss
pro-Switzerland
pro-Syrian
pro-Tunisian
pro-Turkey
pro-Turkish
pro-Unitarian
pro-United States
pro-Uruguayan
pro-Venezuelan
pro-Vietnamese
pro-West
pro-Western
pro-Westerner
pro-Whig
pro-Yugoslav
pro-Yugoslavian
pro-Zionism
pro-Zionist
pro-am
pro-art
pro-budgeting
pro-bus
pro-cathedral
pro-city
pro-co-operation
pro-form
pro-government
pro-immigrationist
pro-infinitive
pro-man
pro-modern
pro-observance
pro-oceanic
pro-ode
pro-oestrous
pro-oestrum
pro-oestrus
pro-oestrys
pro-opera
pro-operation
pro-opic
pro-opium
pro-orthodox
pro-orthodoxical
pro-orthodoxy
pro-ostracal
pro-ostracum
pro-otic
pro-pre-existentiary
pro-proctor
pro-rata
pro-rate
pro-rector
pro-rex
pro-skin
pro-state
pro-strike
pro-vice-chancellor
proAfrican
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
proboln 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
process-control system
process-server
processed cheese
processing solution
processing tax
procession flower
processional march
processionary moth
prochain ami
prochein ami
prochein amy
proclaim at Charing Cross
proclaim at the crossroads
proclaim at the market cross
proclaim from
procrustean bed
procto-
procuration fee
procurator fiscal
procurator-fiscal
procurator-general
procure materials
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
prolonge 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-
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
projet 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
propio 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-querired
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
provice-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
prudential 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 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 feminism
pseudo feminist
pseudo fertilization
pseudo finality
pseudo flatterer
pseudo flattery
pseudo form
pseudo fruit
pseudo generosity
pseudo geniality
pseudo genius
pseudo gentility
pseudo gentleman
pseudo geyser
pseudo ghost
pseudo healer
pseudo heart
pseudo heathen
pseudo hero
pseudo humanism
pseudo humanist
pseudo humanitarian
pseudo husband
pseudo identity
pseudo impartiality
pseudo independence
pseudo information
pseudo insanity
pseudo inspiration
pseudo internationalism
pseudo internationalist
pseudo invalid
pseudo invalidism
pseudo island
pseudo isle
pseudo jaundice
pseudo judge
pseudo judgment
pseudo justice
pseudo knight
pseudo label
pseudo learning
pseudo legality
pseudo legend
pseudo legislation
pseudo legislator
pseudo liberalism
pseudo liberty
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 stem
pseudo student
pseudo subtlety
pseudo suicide
pseudo symptom
pseudo temperance
pseudo theft
pseudo tribe
pseudo tribulation
pseudo tribute
pseudo university
pseudo virgin
pseudo witness
pseudo worship
pseudo zeal
pseudo-
pseudo-African
pseudo-American
pseudo-Argentinean
pseudo-Argentinian
pseudo-Aristotelian
pseudo-Aryan
pseudo-Assyrian
pseudo-Australian
pseudo-Austrian
pseudo-Babylonian
pseudo-Baptist
pseudo-Belgian
pseudo-Bohemian
pseudo-Bolivian
pseudo-Brahman
pseudo-Brazilian
pseudo-Buddhist
pseudo-Bulgarian
pseudo-Canadian
pseudo-Carthaginian
pseudo-Catholic
pseudo-Chilean
pseudo-Chinese
pseudo-Christian
pseudo-Ciceronian
pseudo-Dantesque
pseudo-Democratic
pseudo-Dutch
pseudo-East Indian
pseudo-Egyptian
pseudo-Elizabethan
pseudo-English
pseudo-Episcopalian
pseudo-European
pseudo-French
pseudo-Georgian
pseudo-German
pseudo-Germanic
pseudo-Gothic
pseudo-Grecian
pseudo-Greek
pseudo-Hindu
pseudo-Homeric
pseudo-Hungarian
pseudo-Incan
pseudo-Indian
pseudo-Iranian
pseudo-Irish
pseudo-Italian
pseudo-Japanese
pseudo-Mayan
pseudo-Messianic
pseudo-Methodist
pseudo-Mexican
pseudo-Miltonic
pseudo-Mohammedan
pseudo-Mohammedanism
pseudo-Mongolian
pseudo-Moslem
pseudo-Muslem
pseudo-Muslim
pseudo-Norwegian
pseudo-Panamanian
pseudo-Persian
pseudo-Polish
pseudo-Presbyterian
pseudo-Republican
pseudo-Roman
pseudo-Russian
pseudo-Semitic
pseudo-Serbian
pseudo-Shakespearean
pseudo-Shakespearian
pseudo-Socratic
pseudo-Spanish
pseudo-Swedish
pseudo-Turkish
pseudo-Vergilian
pseudo-Victorian
pseudo-Virgilian
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-uniseptate
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
pteryoglutamic acid
pteroylmonogluta-mic acid
pterygo-
pterygoid bone
pterygoid process
ptilo-
ptolemaic system
ptomaine poisoning
pub crawler
pub-crawl
pubertal gland
puberty gland
public 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
pulmonary valve
pulmonary vein
pulmonary
pulmonary
pulp canal
pulp canal therapy
pulp canal treatment
pulp cavity
pulp chamber
pulp engine
pulp lead
pulp machine
pulp magazine
pulp nodule
pulp plaster
pulpılyl galaxy
pulpit cloth
pulpit cross
pulpit rock
pulsating direct current
pulsating star
pulsating universe
pulsating universe theory
pulsation pump
pulsation theory
pulse analyzer
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
punched card
punched cards
punched tape
punching bag
punching machine
punching press
punctuation mark
punctuation marks
puncture vine
puncture voltage
puncture your balloon
pungent meadow grass
pungle up
punish yourself
punishment of Tantalus
punishment that fits the crime
punishment-proof
punitive damages
punitive sanction
punk kid
punk oak
punk rock
punk tree
punkah wallah
punner bar
punt formation
punt gun
punt shooter
punt shooting
punto reverso
pup tent
pupa shell
pupa-shaped
pupil hour
pupil load
pupil teacher
pupil teachery
pupil-teacherdom
pupil-teachership
puppet government
puppet play
puppet player
puppet regime
puppet show
puppet valve
puppet-play
puppet-show
puppet-valve
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
purple-berried
purple-black
purple-blue
purple-brown
purple-clad
purple-coated
purple-colored
purple-crimson
purple-dawning
purple-dyeing
purple-eyed
purple-faced
purple-flowered
purple-fringed
purple-fringed orchid
purple-glowing
purple-green
purple-headed
purple-hued
purple-leaved
purple-nosed
purple-red
purple-robed
purple-rose
purple-skirted
purple-spiked
purple-spotted
purple-staining
purple-stemmed
purple-streaked
purple-streaming
purple-tailed
purple-tipped
purple-top
purple-topped
purple-veined
purple-vested
purple-yellow
purpose clause
purpose of
purpose to yourself
purpose-built
purpura hemorrhagica
purpureo-
purre maw
purse atomizer
purse bearer
purse boat
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 blinders
put on edge
put on ice
put on immortality
put on long pants
put on long trousers
put on more sail
put on more speed
put on mourning
put on paper
put on parole
put on report
put on sail
put on side
put on steam
put on tape
put on the Index
put on the acid
put on the agenda
put on the air
put on the alert
put on the back burner
put on the block
put on the brakes
put on the dog
put on the drag
put on the feed bag
put on the gloves with
put on the grill
put on the map
put on the market
put on the new man
put on the rack
put on the record
put on the retired list
put on the right track
put on the ritz
put on the scales
put on the shelf
put on the soft pedal
put on the spot
put on the stage
put on the stand
put on the style
put on the track
put on to
put on to something hot
put on trial
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 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
putt-putt
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
pyrolineous 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
pyrrole 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
quadriminum merum
quadru-
quadruple counterpoint
quadruple fugue
quadruple time
quadruple-expansion
quadruplex telegraphy
quaff the bitter cup
quai d’orsay
quail brush
quail call
quantity production
quantity surveying
quantity surveyor
quantity theorist
quantity theory
quantity theory of money
quantum chromodynamics
quantum electronics
quantum field theory
quantum liquid
quantum mechanics
quantum number
quantum optics
quantum statistics
quantum sufficit
quantum theory
quantum-mechanical
quarantine anchorage
quarantine flag
quarantine period
quare impedit
quarrel over
quarry bed
quarry face
quarry light
quarry miner
quarry out
quarry tile
quarry-faced
quarry-rid
quarrystone bond
quart major
quart minor
quart pot
quart-pot
quartal harmony
quarter ail
quarter at
quarter badge
quarter bar
quarter belt
quarter bend
quarter berth
quarter bill
quarter binding
quarter blanket
quarter block
quarter board
quarter boards
quarter boot
quarter box
quarter butt
quarter cask
quarter crack
quarter day
quarter deck
quarter dollar
quarter eagle
quarter evil
quarter face
quarter fast
quarter gallery
quarter galley
quarter grain
quarter hollow
quarter horse
quarter hour
quarter ill
quarter iron
quarter ladder
quarter lift
quarter light
quarter line
quarter miler
quarter nelson
quarter note
quarter of a century
quarter of a hundred
quarter pillar
quarter pitch
quarter plate
quarter point
quarter points
quarter rail
quarter rest
quarter round
quarter rudder
quarter screw
quarter section
quarter semitone
quarter sessions
quarter step
quarter stock
quarter tie
quarter tone
quarter watch
quarter-bound
quarter-breed
quarter-cast
quarter-cleft
quarter-cut
quarter-day
quarter-deck
quarter-decker
quarter-dollar
quarter-faced
quarter-final
quarter-finalist
quarter-foot
quarter-gallery
quarter-hollow
quarter-hoop
quarter-horse race
quarter-hour
quarter-inch
quarter-left
quarter-mile
quarter-miler
quarter-minute
quarter-month
quarter-moon
quarter-phase
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 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 consultation
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 depression
quasi deputy
quasi despair
quasi destination
quasi destruction
quasi detention
quasi development
quasi devil
quasi devotion
quasi diamond
quasi difference
quasi dinner
quasi diplomacy
quasi disadvantage
quasi disappearance
quasi disaster
quasi discipline
quasi discovery
quasi discrimination
quasi disgrace
quasi disgust
quasi dismissal
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 justification
quasi kindred
quasi king
quasi knowledge
quasi labor
quasi lady
quasi lament
quasi league
quasi legacy
quasi legality
quasi legislation
quasi liability
quasi liberty
quasi limit
quasi literature
quasi loan
quasi lord
quasi loss
quasi luxury
quasi magic
quasi maintenance
quasi majority
quasi management
quasi manager
quasi market
quasi masterpiece
quasi maximum
quasi melancholy
quasi member
quasi memory
quasi mercy
quasi merit
quasi message
quasi method
quasi millionaire
quasi minimum
quasi minister
quasi miracle
quasi misery
quasi mishap
quasi missionary
quasi monopoly
quasi mystery
quasi navy
quasi need
quasi neglect
quasi negligence
quasi neighbor
quasi neutrality
quasi news
quasi nobleman
quasi nomination
quasi notice
quasi novel
quasi obedience
quasi objection
quasi objective
quasi obligation
quasi observance
quasi observation
quasi obstacle
quasi occupation
quasi offense
quasi offer
quasi official
quasi omission
quasi opponent
quasi opposition
quasi optimist
quasi orator
quasi outrage
quasi owner
quasi ownership
quasi painter
quasi panic
quasi paradise
quasi pardon
quasi participation
quasi partisan
quasi partner
quasi patron
quasi payment
quasi penalty
quasi perfection
quasi person
quasi perusal
quasi philosopher
quasi pity
quasi plea
quasi pleasure
quasi pledge
quasi plenty
quasi poem
quasi policy
quasi politician
quasi possession
quasi poverty
quasi power
quasi praise
quasi preference
quasi prejudice
quasi preparation
quasi prepositional
quasi pressure
quasi prestige
quasi prevention
quasi principal
quasi principle
quasi prisoner
quasi privilege
quasi problem
quasi product
quasi profit
quasi progress
quasi prohibition
quasi promise
quasi prophecy
quasi proposal
quasi prosecution
quasi prosperity
quasi protection
quasi provocation
quasi punishment
quasi pupil
quasi purchase
quasi purity
quasi pursuit
quasi qualification
quasi quarantine
quasi quarrel
quasi quotation
quasi reality
quasi realization
quasi reason
quasi rebellion
quasi receipt
quasi recognition
quasi recollection
quasi reconciliation
quasi record
quasi recreation
quasi reduction
quasi reference
quasi refinement
quasi reform
quasi refusal
quasi registration
quasi rejection
quasi relief
quasi religion
quasi remedy
quasi reminder
quasi remittance
quasi remorse
quasi renewal
quasi rent
quasi repair
quasi replacement
quasi reply
quasi report
quasi representative
quasi request
quasi requirement
quasi rescue
quasi residence
quasi resident
quasi resistance
quasi response
quasi restoration
quasi result
quasi retirement
quasi revolution
quasi reward
quasi rival
quasi romance
quasi safety
quasi sagacity
quasi saint
quasi sale
quasi salvation
quasi sanction
quasi sarcasm
quasi satisfaction
quasi savings
quasi scarcity
quasi scholar
quasi science
quasi search
quasi sentence
quasi sentiment
quasi seriousness
quasi service
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
quasi-
quasi-American
quasi-Americanized
quasi-English
quasi-French
quasi-German
quasi-Grecian
quasi-Greek
quasi-Jacobean
quasi-Japanese
quasi-Latin
quasi-Spanish
quasi-absolute
quasi-absolutely
quasi-academic
quasi-academically
quasi-acceptance
quasi-accepted
quasi-accidental
quasi-accidentally
quasi-acquainted
quasi-active
quasi-actively
quasi-adequate
quasi-adequately
quasi-adjusted
quasi-admire
quasi-admired
quasi-admiring
quasi-adopt
quasi-adopted
quasi-adult
quasi-advantageous
quasi-advantageously
quasi-affectionate
quasi-affectionately
quasi-affirmative
quasi-affirmatively
quasi-alternating
quasi-alternatingly
quasi-alternative
quasi-alternatively
quasi-amateurish
quasi-amateurishly
quasi-amiable
quasi-amiably
quasi-amusing
quasi-amusingly
quasi-ancient
quasi-anciently
quasi-angelic
quasi-angelically
quasi-antique
quasi-anxious
quasi-anxiously
quasi-apologetic
quasi-apologetically
quasi-appealing
quasi-appealingly
quasi-appointed
quasi-appropriate
quasi-appropriately
quasi-artistic
quasi-artistically
quasi-aside
quasi-asleep
quasi-athletic
quasi-athletically
quasi-attempt
quasi-audible
quasi-audibly
quasi-authentic
quasi-authentically
quasi-authorized
quasi-automatic
quasi-automatically
quasi-awful
quasi-awfully
quasi-bad
quasi-bankrupt
quasi-basic
quasi-basically
quasi-beneficial
quasi-beneficially
quasi-benevolent
quasi-benevolently
quasi-biographical
quasi-biographically
quasi-blind
quasi-blindly
quasi-brave
quasi-bravely
quasi-brilliant
quasi-brilliantly
quasi-bronze
quasi-brotherly
quasi-calm
quasi-calmly
quasi-candid
quasi-candidly
quasi-capable
quasi-capably
quasi-careful
quasi-carefully
quasi-characteristic
quasi-characteristically
quasi-charitable
quasi-charitably
quasi-cheerful
quasi-cheerfully
quasi-civil
quasi-civilly
quasi-classic
quasi-classically
quasi-clerical
quasi-clerically
quasi-collegiate
quasi-colloquial
quasi-colloquially
quasi-comfortable
quasi-comfortably
quasi-comic
quasi-comical
quasi-comically
quasi-commanding
quasi-commandingly
quasi-commercial
quasi-commercialized
quasi-commercially
quasi-common
quasi-commonly
quasi-compact
quasi-compactly
quasi-competitive
quasi-competitively
quasi-complete
quasi-completely
quasi-complex
quasi-complexly
quasi-compliant
quasi-compliantly
quasi-complimentary
quasi-compound
quasi-comprehensive
quasi-comprehensively
quasi-compromising
quasi-compromisingly
quasi-compulsive
quasi-compulsively
quasi-compulsorily
quasi-compulsory
quasi-confident
quasi-confidential
quasi-confidentially
quasi-confidently
quasi-confining
quasi-conforming
quasi-congenial
quasi-congenially
quasi-congratulatory
quasi-connective
quasi-connectively
quasi-conscientious
quasi-conscientiously
quasi-conscious
quasi-consciously
quasi-consequential
quasi-consequentially
quasi-conservative
quasi-conservatively
quasi-considerate
quasi-considerately
quasi-consistent
quasi-consistently
quasi-consolidated
quasi-constant
quasi-constantly
quasi-constitutional
quasi-constitutionally
quasi-constructed
quasi-constructive
quasi-constructively
quasi-consuming
quasi-content
quasi-contented
quasi-contentedly
quasi-continual
quasi-continually
quasi-continuous
quasi-deliberate
quasi-deliberately
quasi-delicate
quasi-delicately
quasi-delighted
quasi-delightedly
quasi-demanding
quasi-demandingly
quasi-democratic
quasi-democratically
quasi-dependence
quasi-dependent
quasi-dependently
quasi-depressed
quasi-desolate
quasi-desolately
quasi-desperate
quasi-desperately
quasi-despondent
quasi-despondently
quasi-determine
quasi-devoted
quasi-devotedly
quasi-difficult
quasi-difficultly
quasi-dignified
quasi-dignifying
quasi-diplomatic
quasi-diplomatically
quasi-disadvantageous
quasi-disadvantageously
quasi-disastrous
quasi-disastrously
quasi-discreet
quasi-discreetly
quasi-discriminating
quasi-discriminatingly
quasi-disgraced
quasi-disgusted
quasi-disgustedly
quasi-distant
quasi-distantly
quasi-distressed
quasi-diverse
quasi-diversely
quasi-diversified
quasi-divided
quasi-dividedly
quasi-double
quasi-doubly
quasi-doubtful
quasi-doubtfully
quasi-dramatic
quasi-dramatically
quasi-dreadful
quasi-dreadfully
quasi-dumb
quasi-dumbly
quasi-duplicate
quasi-dutiful
quasi-dutfully
quasi-dying
quasi-eager
quasi-eagerly
quasi-economic
quasi-economical
quasi-economically
quasi-educated
quasi-educational
quasi-educationally
quasi-effective
quasi-effectively
quasi-efficient
quasi-efficiently
quasi-elaborate
quasi-elaborately
quasi-elementary
quasi-eligible
quasi-eligibly
quasi-eloquent
quasi-eloquently
quasi- eminent
quasi-eminently
quasi-emotional
quasi-emotionally
quasi-empty
quasi-endless
quasi-endlessly
quasi-energetic
quasi-energetically
quasi-enforced
quasi-engaging
quasi-engagingly
quasi-entertaining
quasi-enthused
quasi-enthusiastic
quasi-enthusiastically
quasi-envious
quasi-enviously
quasi-episcopal
quasi-episcopally
quasi-equal
quasi-equally
quasi-equitable
quasi-equitably
quasi-equivalent
quasi-equivalently
quasi-erotic
quasi-erotically
quasi-essential
quasi-essentially
quasi-established
quasi-eternal
quasi-eternally
quasi-ethical
quasi-everlasting
quasi-everlastingly
quasi-evil
quasi-evilly
quasi-exact
quasi-exactly
quasi-exceptional
quasi-exceptionally
quasi-excessive
quasi-excessively
quasi-exempt
quasi-exiled
quasi-existent
quasi-expectant
quasi-expectantly
quasi-expedient
quasi-expeditently
quasi-expensive
quasi-expensively
quasi-experienced
quasi-experimental
quasi-experimentally
quasi-explicit
quasi-explicitly
quasi-exposed
quasi-expressed
quasi-external
quasi-externally
quasi-exterritorial
quasi-extraterritorial
quasi-extraterritorially
quasi-extreme
quasi-fabricated
quasi-fair
quasi-fairly
quasi-faithful
quasi-faithfully
quasi-false
quasi-falsely
quasi-familiar
quasi-familiarly
quasi-famous
quasi-famously
quasi-fascinated
quasi-fascinating
quasi-fascinatingly
quasi-fashionable
quasi-fashionably
quasi-fatal
quasi-fatalistic
quasi-fatalistically
quasi-fatally
quasi-favorable
quasi-favorably
quasi-favourable
quasi-favourably
quasi-federal
quasi-federally
quasi-feudal
quasi-feudally
quasi-fictitious
quasi-fictitiously
quasi-final
quasi-financial
quasi-financially
quasi-fireproof
quasi-fiscal
quasi-fiscally
quasi-fit
quasi-foolish
quasi-foolishly
quasi-forced
quasi-foreign
quasi-forgetful
quasi-forgetfully
quasi-forgotten
quasi-formal
quasi-formally
quasi-formidable
quasi-formidably
quasi-fortunate
quasi-fortunately
quasi-frank
quasi-frankly
quasi-fraternal
quasi-fraternally
quasi-free
quasi-freely
quasi-fulfilling
quasi-full
quasi-fully
quasi-gallant
quasi-gallantly
quasi-gaseous
quasi-gay
quasi-generous
quasi-generously
quasi-genteel
quasi-genteelly
quasi-gentlemanly
quasi-genuine
quasi-genuinely
quasi-glad
quasi-gladly
quasi-glorious
quasi-gloriously
quasi-good
quasi-gracious
quasi-graciously
quasi-grateful
quasi-gratefully
quasi-grave
quasi-gravely
quasi-great
quasi-greatly
quasi-guaranteed
quasi-guiltily
quasi-guilty
quasi-habitual
quasi-habitually
quasi-happy
quasi-harmful
quasi-harmfully
quasi-healthful
quasi-healthfully
quasi-heartily
quasi-hearty
quasi-helpful
quasi-helpfully
quasi-hereditary
quasi-heroic
quasi-heroically
quasi-historic
quasi-historical
quasi-historically
quasi-honest
quasi-honestly
quasi-honorable
quasi-honorably
quasi-human
quasi-humanistic
quasi-humanly
quasi-humble
quasi-humbly
quasi-humorous
quasi-humorously
quasi-ideal
quasi-idealistic
quasi-idealistically
quasi-ideally
quasi-identical
quasi-identically
quasi-ignorant
quasi-ignorantly
quasi-immediate
quasi-immediately
quasi-immortal
quasi-immortally
quasi-impartial
quasi-impartially
quasi-important
quasi-importantly
quasi-improved
quasi-inclined
quasi-inclusive
quasi-inclusively
quasi-increased
quasi-independent
quasi-independently
quasi-indifferent
quasi-indifferently
quasi-induced
quasi-indulged
quasi-industrial
quasi-industrially
quasi-inevitable
quasi-inevitably
quasi-inferior
quasi-inferred
quasi-infinite
quasi-ininitely
quasi-influential
quasi-influentially
quasi-informal
quasi-informally
quasi-informed
quasi-inherited
quasi-initiated
quasi-injured
quasi-injurious
quasi-injuriously
quasi-innocent
quasi-innocently
quasi-innumerable
quasi-innumerably
quasi-insistent
quasi-insistently
quasi-inspected
quasi-inspirational
quasi-installed
quasi-instructed
quasi-insulted
quasi-intellectual
quasi-intellectually
quasi-intelligent
quasi-intelligently
quasi-intended
quasi-interested
quasi-interestedly
quasi-internal
quasi-internalized
quasi-internally
quasi-international
quasi-internationalistic
quasi-internationally
quasi-interviewed
quasi-intimate
quasi-intimated
quasi-intimately
quasi-intolerable
quasi-intolerably
quasi-intolerant
quasi-intolerantly
quasi-introduced
quasi-intuitive
quasi-intuitively
quasi-invaded
quasi-investigated
quasi-invisible
quasi-invisibly
quasi-invited
quasi-irregular
quasi-irregularly
quasi-jocose
quasi-jocosely
quasi-jocund
quasi-jocundly
quasi-jointly
quasi-judicial
quasi-kind
quasi-kindly
quasi-knowledgeable
quasi-knowledgeably
quasi-laborious
quasi-laboriously
quasi-lamented
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quasi-lawfully
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quasi-legislated
quasi-legislative
quasi-legislatively
quasi-legitimate
quasi-legitimately
quasi-liberal
quasi-liberally
quasi-literary
quasi-living
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quasi-logically
quasi-loyal
quasi-loyally
quasi-luxurious
quasi-luxuriously
quasi-mad
quasi-madly
quasi-magic
quasi-magical
quasi-magically
quasi-malicious
quasi-maliciously
quasi-managed
quasi-managerial
quasi-managerially
quasi-marble
quasi-material
quasi-materially
quasi-maternal
quasi-maternally
quasi-mechanical
quasi-mechanically
quasi-medical
quasi-medically
quasi-medieval
quasi-mental
quasi-mentally
quasi-mercantile
quasi-metaphysical
quasi-metaphysically
quasi-methodical
quasi-methodically
quasi-mighty
quasi-militaristic
quasi-militaristically
quasi-military
quasi-ministerial
quasi-miraculous
quasi-miraculously
quasi-miserable
quasi-miserably
quasi-modern
quasi-modest
quasi-modestly
quasi-moral
quasi-moralistic
quasi-moralistically
quasi-morally
quasi-mourning
quasi-municipal
quasi-municipally
quasi-musical
quasi-musically
quasi-mutual
quasi-mutually
quasi-mysterious
quasi-mysteriously
quasi-mythical
quasi-mythically
quasi-nameless
quasi-national
quasi-nationalistic
quasi-nationally
quasi-native
quasi-natural
quasi-naturally
quasi-nebulous
quasi-nebulously
quasi-necessary
quasi-negative
quasi-negatively
quasi-neglected
quasi-negligent
quasi-negligible
quasi-negligibly
quasi-neutral
quasi-neutrally
quasi-new
quasi-newly
quasi-normal
quasi-normally
quasi-notarial
quasi-nuptial
quasi-obedient
quasi-obediently
quasi-objective
quasi-objectively
quasi-obligated
quasi-observed
quasi-offensive
quasi-offensively
quasi-official
quasi-officially
quasi-opposed
quasi-ordinary
quasi-organic
quasi-organically
quasi-oriental
quasi-orientally
quasi-original
quasi-originally
quasi-partisan
quasi-passive
quasi-passively
quasi-pathetic
quasi-pathetically
quasi-patient
quasi-patiently
quasi-patriarchal
quasi-patriotic
quasi-patriotically
quasi-patronizing
quasi-patronizingly
quasi-peaceful
quasi-peacefully
quasi-perfect
quasi-perfectly
quasi-periodic
quasi-periodically
quasi-permanent
quasi-permanently
quasi-perpetual
quasi-perpetually
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quasi-personably
quasi-personal
quasi-personally
quasi-perusable
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quasi-philosophically
quasi-physical
quasi-physically
quasi-pious
quasi-piously
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quasi-pleasurable
quasi-pleasurably
quasi-pledge
quasi-pledged
quasi-pledging
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quasi-plentifully
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quasi-politically
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quasi-poorly
quasi-popular
quasi-popularly
quasi-positive
quasi-positively
quasi-powerful
quasi-powerfully
quasi-practical
quasi-practically
quasi-precedent
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quasi-preferentially
quasi-prejudiced
quasi-prepositional
quasi-prepositionally
quasi-prevented
quasi-private
quasi-privately
quasi-privileged
quasi-probable
quasi-probably
quasi-problematic
quasi-productive
quasi-productively
quasi-progressive
quasi-progressively
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quasi-prompt
quasi-promptly
quasi-proof
quasi-prophetic
quasi-prophetical
quasi-prophetically
quasi-prosecuted
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quasi-prospectively
quasi-protected
quasi-proud
quasi-proudly
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quasi-provincially
quasi-provocative
quasi-provocatively
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quasi-publicly
quasi-punished
quasi-pupillary
quasi-purchased
quasi-qualified
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quasi-radically
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quasi-rationally
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quasi-realistically
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quasi-reasonably
quasi-rebellious
quasi-rebelliously
quasi-recent
quasi-recently
quasi-recognized
quasi-reconciled
quasi-reduced
quasi-refined
quasi-reformed
quasi-refused
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quasi-regular
quasi-regularly
quasi-regulated
quasi-rejected
quasi-reliable
quasi-reliably
quasi-relieved
quasi-religious
quasi-religiously
quasi-remarkable
quasi-remarkably
quasi-renewed
quasi-repaired
quasi-replaced
quasi-reported
quasi-represented
quasi-republican
quasi-required
quasi-rescued
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quasi-residentially
quasi-resisted
quasi-respectable
quasi-respectably
quasi-respected
quasi-respectful
quasi-respectfully
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quasi-responsibly
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quasiresponsively
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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-sadly
quasi-safe
quasi-safely
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quasi-sagaciously
quasi-saintly
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quasi-sanguine
quasi-sanguinely
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quasi-sarcastically
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quasi-satirically
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quasi-savagely
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quasi-scholastically
quasi-scientific
quasi-scientifically
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quasi-secretively
quasi-secretly
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quasi-securely
quasi-sentimental
quasi-sentimentally
quasi-serious
quasi-seriously
quasi-settled
quasi-similar
quasi-similarly
quasi-sincere
quasi-sincerely
quasi-single
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
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quasi-sympathetically
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quasi-systematically
quasi-systematized
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quasi-tangibly
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quasi-temporally
quasi-territorial
quasi-territorially
quasi-testamentary
quasi-theatrical
quasi-theatrically
quasi-thorough
quasi-thoroughly
quasi-tolerant
quasi-tolerantly
quasi-total
quasi-totally
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quasi-tragically
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quasi-tribally
quasi-truthful
quasi-truthfully
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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
quaternian algebra
quaternion algebra
quaternion unit
quatre point
quatre premiers
quay punt
que sera sera
quean-cat
queen anne
queen anne's lace
queen bee
queen blue
queen bolt
queen butterfly
queen cactus
queen cage
queen cat
queen cattleya
queen cell
queen closer
queen conch
queen consort
queen dowager
queen excluder
queen fern
queen fritter
queen gold
queen mother
queen note
queen of heaven
queen of night
queen of puddings
queen of the meadow
queen of the prairie
queen olive
queen palm
queen post
queen regent
queen regnant
queen rod
queen shell
queen snake
queen staysail
queen stitch
queen substance
queen truss
queen's English
queen's birthday
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
queueing 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
clear ear
clear exit
clear fire
clear freezing
clear grass
clear hunch
clear inspection
clear kick
clear look
clear march
clear on the draw
clear on the trigger
clear on the uptake
clear one
clear parts
clear pull
clear sight
clear sighted
clear step
clear stick
clear temper
clear thinking
clear time
clear to take offense
clear trick
clear water
clear wit
clear-acting
clear-break switch
clear-burning
clear-change
clear-change artist
clear-coming
clear-compounded
clear-conceiving
clear-decaying
clear-designing
clear-devouring
clear-drawn
clear-eared
clear-fading
clear-falling
clear-fire
clear-firer
clear-firing
clear-flowing
clear-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
quickset hedge
quicksilver weed
quickstep march
quicumque vult
quid pro quo
quid pro quos
quids pro quo
quiet as a mouse
quiet as a street at night
quiet day
quiet death
quiet down
quiet ecstasy
quiet end
quiet good manners
quiet hour
quiet life
quiet mind
quiet please
quiet pleasure
quiet spell
quiet 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
quinine bush
quinine cherry
quinine flower
quinine herb
quinine plant
quinine tree
quinine water
quinnaat salmon
quino-
quinaline dye
quinoline yellow
quinone diazide
quinone diimine
quinone oxime
quinova bitter
quinque-
quince-angle
quinque-angled
quinque-angular
quinque-annulate
quinque-articulate
quinsy woodruff
quint major
quint minor
quint-
quinti-
quintuple counterpoint
quintuple point
quintuple time
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
raccoon perch
race against time
race board
race boat
race car
race card
race cloth
race cup
race extermination
race glass
race ground
race hatred
race horse
race horses
race knife
race meeting
race memory
race of man
race off
race plate
race prejudice
race problem
race psychology
race relations
race riot
race rotation
race runner
race snobbery
race stand
race suicide
race through the mind
race tool
race track
race week
race with
race with time
race your motor
race-begotten
race-course
race-horse
race-maintaining
race-murder
race-riding
race-running
race-track
race-wide
race-winning
racehorse grass
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
racomo-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
radiat-
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-
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
raggle block
raggle-taggle
raging fire
raging passion
raglan sleeve
ragman roll
ragman rolls
ragsorter's disease
ragtag and bobtail
ragtime band
ragtime music
ragweed family
rah-rah
raid the market
rail at
rail bead
rail car
rail chair
rail clip
rail dumper
rail ender
rail fence
rail filler
rail fork
rail guard
rail in
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
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rail-cutting
rail-laying
rail-ocean
rail-ridden
rail-sawing
rail-splitter
rail-splitting
railroad center
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
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rain-beat
rain-beaten
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rain-fraught
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rain-scented
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rain-sodden
rain-soft
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rain-swept
rain-threatening
rain-washed
rain-water
rain-water fish
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rainbow cactus
rainbow chaser
rainbow chasing
rainbow cordial
rainbow darter
rainbow fish
rainbow herring
rainbow moss
rainbow parrotfish
rainbow perch
rainbow runner
rainbow seaperch
rainbow snake
rainbow trout
rainbow-arched
rainbow-clad
rainbow-colored
rainbow-edged
rainbow-girded
rainbow-hued
rainbow-large
rainbow-painted
rainbow-sided
rainbow-skirted
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aise 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
raked bow
raker tooth
raking bond
raking cornice
raking course
raking fire
raking over the coals
raking shore
raking-down
raking-over
ralli-car
rally around
rally round
rallying cry
rallying device
rallying point
rallying theme
ram bow
ram cat
ram down
ram down your throat
ram effect
ram in
ram leather
ram pressure
ram rocket
ram schooner
ram's horn
ram's-head lady's-slipper
ram's-horn
ram-air turbine
ram-cat
ram-headed
ram-jam
ram-jet engine
ram-jet propulsion
ram-line
ramrod
ramage hawk
ramble on
ramble-scramble
ramjet engine
rammed earth
ramp along
ramp valley
rampant arch
rampant will
ramper eel
ramrod-stiff
ran-tan
ranch company
ranch country
ranch economics
ranch hand
ranch house
ranch life
ranch owner
ranch rider
ranch wagon
rand machine
randall grass
random access
random access memory
random bond
random data
random line
random motion
random point
random sample
random sampling
random shot
certain jointed
generate angle
generate finder
generate finding
generate grass
generate horse
generate itself
generate light
generate line
generate mark
generate marker
generate masonry
generate of accommodation
generate of meaning
generate of view
generate of vision
generate out
generate over
generate paralysis
generate pole
generate rake
generate rider
generate stove
generate table
generate the coast
generate the world
generate through
generate with
generate wool
generate yourself on the side of
generate yourself with
generate-bred
generate-marker generator
generate-sweep amplifier
generate-sweep generator
generating 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
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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
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raspberry root rot
raspberry sawfly
raspberry wine
raspberry yellows
raspberry-jam
rasphead rockfish
rat cheese
rat claw foot
rat flea
rat goose
rat hare
rat kangaroo
rat mite
rat mole
rat pineapple
rat poison
rat race
rat rhyme
rat snake
rat stop
rat tail
rat terrier
rat unit
rat's nest
rat's-tail
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rat-catcher
rat-colored
rat-deserted
rat-eyed
rat-faced
rat-gnawn
rat-infested
rat-inhabited
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rat-kangaroos
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rat-lin
rat-ridden
rat-riddled
rat-skin
rat-stripper
rat-tail
rat-tail cactus
rat-tail file
rat-tail spoon
rat-tailed
rat-tailed maggot
rat-tat
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rat-tattle
rat-tight
rat-trap
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ratatat-tat
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ratbite fever
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ratchet chain
ratchet clock
ratchet coupling
ratchet crank
ratchet drill
ratchet jack
ratchet stop
ratchet thread
ratchet tooth
ratchet wheel
ratchet-toothed
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rate base
rate cap
rate determination
rate highly
rate low
rate maker
rate making
rate of exchange
rate of interest
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rate-cutting
rate-fixing
rate-of-climb indicator
rate-raising
rate-setting
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rather than
rating badge
rating flume
rating nut
ratio arm
ratio cognoscendi
ratio test
ration out
rational animal
rational calorie
rational faculty
rational form
rational function
rational ground
rational horizon
rational mechanics
rational number
rational psychology
rational theology
rational treatment
rational-emotive therapy
ratline down
ratline stuff
rato unit
rattail cactus
rattail comb
rattail fescue
rattail file
rattan vine
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rattle barrel
rattle grass
rattle on
rattle the windows
rattle-bush
rattle-head
rattle-pate
rattle-top
rattlesnake bean
rattlesnake fern
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rattlesnake grass
rattlesnake leaf
rattlesnake master
rattlesnake plantain
rattlesnake root
rattlesnake weed
rattlesnake-bite
rattley-bang
rattling pace
rattrap pedal
raucous happiness
raus mit dir
ravage with fire and sword
ravaged with age
ravages of time
rave about
rave against
rave hook
rave-up
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ravel out
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raven cockatoo
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raven-colored
raven-feathered
raven-haired
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raving lunatic
raving mad
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ray floret
ray flower
ray fungus
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ray gun
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ray of sunshine
ray pod
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ray-girt
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ray-strewn
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rayon stockings
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raze to the ground
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raze bomb
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razor clam
razor fish
razor grass
razor saw
razor shell
razor stone
razor strap
razor temper
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razor-backed
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razor-billed
razor-billed auk
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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
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
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ready-mounted
ready-penned
ready-prepared
ready-reference
ready-sanded
ready-sensitized
ready-shapen
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ready-wittedness
ready-worded
ready-written
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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
rear area
rear echelon
rear end
rear guard
rear its head
rear light
rear projection
rear sight
rear up
rear vault
rear-
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
rearing bit
rearview mirror
reason about
reason behind
reason for
reason for being
reason ill
reason in a circle
reason out
reason speciously
reason that
reason the point
reason to believe
reason why
reason with
reasonable charge
reasonable ground
reasonable hope
reasonable presumption
reasonable price
reasoning faculty
reasoning power
rebate plane
rebel clover
rebel yell
rebound clip
rebound leaf
rebus sic stantibus
rec room
recalcescence point
recall dose
recall knowledge of
recall of ambassadors
recall to life
recall to mind
recapitulation theory
recapture clause
receipt book
receipt in full
receipt in full of all demands
receive Christ
receive a false impression
receive absolution
receive an impression
receive credit
receive instruction
receive pleasure from
receive the Sacrament
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
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recitativi accompagnati
recitativi secchi
recitativo accompagnato
recitativo secco
recitativo stromentato
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reciting note
reciting the rosary
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
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recommended price
reconcile yourself to
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reconnaissance mission
reconnaissance plane
reconnaissance rocket
reconnaissance ship
reconstructive operation
reconstructive surgery
record book
record changer
record clerk
record holder
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record vote
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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
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rectangular coordinates
rectangular data
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rectifier instrument
rectifier tube
rectilinear number
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recto-urethral
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rectus abdominus
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red alder
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red bay
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red brush
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red bug
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red calla lily
red cap
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red cedar
red cent
red chalk
red chokeberry
red clay
red clover
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red colors and pigments
red coral
red corpuscle
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red drum
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red indian
red jasmine
red jungle fowl
red kauri
red kowhai
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red larkspur
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red lead
red leaf
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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-bloode
dred-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-fruited
red-gemmed
red-gilled
red-girdled
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-heeled
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-twagged
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 earring
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
reel and bead
reel back
reel borer
reel foot
reel in
reel man
reel off
reel oven
reel-fed
reel-fitted
reel-footed
reel-to-reel
reeled silk
reeling hammer
reeming beetle
reeming 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
regular old fogy
regular payments
regular play
regular solid
regular tertiaries
regular wave motion
regular year
regular-bred
regular-built
regular-featured
regular-growing
regular-lay rope
regular-shaped
regular-sized
regulate by
regulating box
regulating button
regulation-proof
regulative first principle
regulator gene
regulator pin
rehearse a play
rehearse in extenso
reheat the ashes
reheating furnace
rei persecutoria
rei-ntrant
reign of Saturn
reign of St
reign of terror
reigning beauty
reim-kennar
rein in
rein orchis
reindeer flower
reindeer lichen
reindeer moss
reindeer pest
reinforced bow
reinforced concrete
reins of government
reinsurance fund
reisner work
reject authority
reject back
rejection slip
rejoice in
rejoice in a seller’s market
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
relax your grip
relax your hold
relaxation of tension
relay broadcast
relay fast
relay governor
relay hunger strike
relay links
relay race
relay receiver
relay register
relay station
relay stations
relay transmitters
relayer rail
release copy
release date
release therapy
released time
relegate to a place
relevant fact
relevant instance
reliability coefficient
reliance in
reliance on
relic area
relic of the past
relic-covered
relic-vending
relief etching
relief frame
relief map
relief method
relief motion
relief pallet
relief payments
relief pitcher
relief printing
relief ship
relief tube
relief valve
relief well
relief-carving
relieve the mind of
relieve you of
relieve your mind
relieve yourself
relieving arch
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
remenant 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
research establishment
research facility
research installation
research laboratory
research library
research material
research monograph
research paper
research plane
research professor
research rocket
research satellite
research station
research study
research worker
reserve account
reserve bank
reserve buoyancy
reserve city
reserve currency
reserve forces
reserve fund
reserve militia
reserve officer
reserve price
reserve ratio
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
resonance box
resonance 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
resurrection-tasting liquid
resurrection body
resurrection bolly
resurrection fern
resurrection gate
resurrection man
resurrection pie
resurrection plant
resurrection woman
retail dealer
retail gossip
retail merchant
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
return bend
return blow for blow
return card
return crease
return day
return evil for evil
return for answer
return game
return like for like
return match
return of evil for evil
return piece
return receipt
return shock
return signal
return thanks
return the compliment
return the like
return ticket
return to
return to dust
return to life
return to mind
return to reality
return to the earth
return to the fold
return to the soil
return to the starting point
return trap
return wall
return-cocked
return-day
return-flue boiler
return-tubular boiler
returning board
returning officer
rev counter
reveal a secret
reveal yourself
revealed religion
revealed truth
revel in
revel master
revel-rout
revenge in kind
revenge tragedy
revenue account
revenue bond
revenue cutter
revenue expenditure
revenue stamp
revenue tariff
reverberatory furnace
reverberation chamber
reverberation time
reverberatory furnace
reverberatory kiln
reverend sir
reverential regard
reversal film
reversal plate
reversal process
reverse bar
reverse bevel
reverse bid
reverse discard
reverse discrimination
reverse of fortune
reverse plate
reverse shot
reverse split
reverse transcriptase
reverse transfer resistance
reverse turn
reverse your field
reverse yourself
reverse-angle shot
reverse-charge
reverse-phase relay
reversed collar
reversed feedback
reversible reaction
reversible-disk plow
reversing light
reversing prism
reversing switch
reversing thermometer
reversion duty
reversion pendulum
reversion spectroscope
reversionary annuity
revert to
review copy
review in retrospect
review of things past
revise your thoughts
revised edition
revised standard version
revised version
revival meeting
revolt at
revolting with
revolting with endured
revolution control
revolutionary calendar
revolutionary junta
revolutionary war
revolutions per minute
revolve in the mind
revolve on
revolve upon
revolving bookcase
revolving bookstand
revolving credit
revolving door
revolving fund
revolving lever
revolving on
revolving stage
revolving-jaw box chuck
revolving-jaw chuck
rewa-rewa
reward claim
reworked wool
rewrite man
rewrite rule
rex begonia
rez-de-chaussee
rh factor
rh-negative
rh-positive
rhabdo-
rhaeto-romanic
rheims version
rhein-berry
rheo-
rhesus baby
rhesus factor
rhesus monkey
rhetorical accent
rhetorical question
rhetorical stress
rheumatic disease
rheumatic fever
rheumatic heart disease
rheumatism of the heart
rheumatism root
rheumatism weed
rheumatism-root
rheumatoid arthritis
rhin-
rhine wine
rhino-
rhinoceros auklet
rhinoceros beetle
rhinoceros bird
rhinoceros bush
rhinoceros hide
rhinoceros hornbill
rhinoceros viper
rhinoceros-shaped
rhinolalia aperta
rhinolalia clausa
rhiz-
rhizo-
rhizoctonia 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
rhub 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-porphry
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
rib-wel ted
riband-shaped
riband-wreathed
ribband carvel
ribband lines
ribbed and smoked sheet
ribbed toad
ribble-rabble
ribbon brake
ribbon building
ribbon bush
ribbon candy
ribbon conveyer
ribbon copy
ribbon development
ribbon fern
ribbon grass
ribbon gum
ribbon isinglass
ribbon jasper
ribbon lightning
ribbon maker
rice mouse
rice paddy
rice paper
rice planter
rice polish
rice polisher
rice polishings
rice powder
rice rat
rice shell
rice tenrec
rice water
rice weevil
rice wine
rice-bird
rice-cleaning
rice-clipping
rice-eating
rice-field eel
rice-grading
rice-grain decoration
rice-grinding
rice-growing
rice-hulling
rice-paper
rice-paper tree
rice-planting
rice-polishing
rice-pounding
rice-root grass
rice-seed body
rice-water
rich as Croesus
rich harvest
rich hat
rich imagination
rich lode
rich man
rich man's panic
rich ore
rich rhyme
rich soil
rich source
rich uncle
rich vein
rich, the
rich-appareled
rich-attired
rich-bedight
rich-bound
rich-built
rich-burning
rich-clad
rich-colored
rich-conceited
rich-distilled
rich-embroidered
rich-figured
rich-flavored
rich-fleeced
rich-fleshed
rich-glittering
rich-haired
rich-jeweled
rich-laden
rich-looking
rich-minded
rich-ored
rich-robed
rich-set
rich-soiled
rich-tasting
rich-toned
rich-voiced
rich-weed
rich-wrought
richard roe
richel bird
richly deserve
richly deserved
richness of meaning
ricinoleic acid
ricinus oil
rick carrier
rick-barton
rick-burton
rick-yard
rickettsial disease
ricochet fire
rictal bristle
rid of
rid yourself of
riddle ballad
riddle cake
riddle canon
riddle of the Sphinx
ride a broomstick
ride a hobby
ride a hobbyhorse
ride a storm
ride and tie
ride at anchor
ride bareback
ride down
ride easy
ride for a fall
ride full tilt against
ride gain
ride hard
ride hawse full
ride herd on
ride high
ride it out
ride on a rail
ride out
ride out a storm
ride out the storm
ride over
ride roughshod over
ride shank's mare
ride shank's pony
ride shotgun for
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
rider embolus
rider 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 flock
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
rig up
rig-out
rig-up
rig-veda
rigged jury
rigged market
rigged oar
rigged out
rigger's knife
rigging angle of incidence
rigging loft
rigging plan
rigging screw
right about
right about face
right along
right along there with
right amount
right and left
right and proper
right angle
right as rain
right ascension
right away
right belief
right bower
right boys
right center
right circular cone
right circular cylinder
right conduct
right cylinder
right doctrine
right face
right field
right fielder
right five degrees rudder
right full rudder
right half rudder
right hand
right handsomely
right in the head
right itself
right line
right mind
right mood
right now
right of angry
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-away
right-bank
right-believed
right-believing
right-born
right-bout
right-brained
right-bred
right-center
right-central
right-down
right-drawn
right- eared
right-eyed
right-eyedness
right-footed
right-footer
right-forward
right-framed
right-hand
right-hand man
right-hand side
right-hand tool
right-handed
right-handedly
right-handedness
right-hander
right-handwise
right-ho
right-laid
right-lay
right-left handed
right-lined
right-made
right-meaning
right-minded
right-mindedly
right-mindedness
right-of-way
right-of-way signal
right-oh
right-onward
right-principled
right-running
right-shaped
right-shapen
right-side
right-sided
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
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
rip cord
rip current
rip from
rip hook
rip into
rip off
rip open
rip out
rip out an oath
rip panel
rip tide
rip to pieces
rip up
rip van winkle
rip-off
rip-rap
rip-roaring
rip-roaring drunk
rip-roarious
rip-saw
riparian right
ripe age
ripe for instruction
ripe idea
ripe old age
ripe rot
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
road fettler
road gang
road grader
road guard
road harrow
road hog
road horse
road layer
road maker
road making
road map
road mender
road metal
road monkey
road oil
road pen
road plow
road race
road racer
road racing
road rash
road repairer
road roller
road runner
road scraper
road show
road sign
road tar
road test
road train
road wagon
road wheel
road works
road-bike
road-faring
road-fund licence
road-grading
road-hoggish
road-hoggism
road-maker
road-oiling
road-ready
road-test
road-testing
road-train
road-weary
road-wise
roan-tree
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 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-drilling
rock-dusted
rock-dwelling
rock-eel
rock-embosomed
rock-encircled
rock-encumbered
rock-enthroned
rock-faced
rock-fallen
rock-fast
rock-fill
rock-fill dam
rock-firm
rock-firmed
rock-fish
rock-forming
rock-free
rock-frequenting
rock-girded
rock-girt
rock-hard
rock-hewn
rock-inhabiting
rock-loving
rock-melting
rock-piercing
rock-pigeon
rock-piled
rock-plant
rock-pulverizing
rock-razing
rock-reared
rock-ribbed
rock-roofed
rock-rooted
rock-rose
rock-rushing
rock-salt
rock-scarped
rock-shaft
rock-sheltered
rock-steady
rock-strewn
rock-studded
rock-throned
rock-thwarted
rock-torn
rock-weed
rock-wombed
rock-work
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
roller-milled
roller-milling
roller-reefing gear
roller-skate
roller-skated
roller-skating
roller-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
rood arch
rood beam
rood cloth
rood goose
rood ladder
rood loft
rood screen
rood spire
rood stair
rood stairs
rood steeple
rood tower
rood-day
roof beam
roof board
roof bracket
roof cover
roof covering
roof dome
roof door
roof fixer
roof garden
roof gardener
roof guard
roof high
roof in
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
root-inwoven
root-mean-square
root-neck
root-parasitic
root-parasitism
root-prune
root-pruned
root-stock
root-torn
rooted belief
rooting out
rope belting
rope brake
rope bridge
rope brown
rope dancer
rope enough to hang yourself
rope greaser
rope house
rope in
rope ladder
rope machine
rope maker
rope molding
rope of sand
rope off
rope race
rope railway
rope shoes
rope socket
rope spinner
rope stitch
rope twine
rope yarn
rope's end
rope-band
rope-bound
rope-closing
rope-dancer
rope-driven
rope-driving
rope-end
rope-fastened
rope-girt
rope-laying
rope-muscled
rope-pulling
rope-reeved
rope-shod
rope-sight
rope-spinning
rope-stock
rope-stropped
rope-work
rope-yarn
rope-yarn knot
roped off
roping horse
roping palm
ropy lava
rory-cum-tory
rory-tory
ros solis
rosa solis
rosa solises
rosary pea
rosary plant
rosary ring
rosary shell
rose acacia
rose aphid
rose apple
rose beetle
rose beige
rose bengale
rose blush
rose box
rose campion
rose carnation
rose chafer
rose champagne
rose chestnut
rose cold
rose comb
rose cross
rose cut
rose cutter
rose d'Anvers
rose daphne
rose diamond
rose drill
rose engine
rose fever
rose fever n
rose geranium
rose gray
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-hedged
rose-hued
rose-leaf
rose-leaved
rose-lipped
rose-lit
rose-loving
rose-nail
rose-petty
rose-pink
rose-podded
rose-red
rose-tringed
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
roseo-
rosetta stone
rosetta wood
rosetta-wood
rosette plate
rosewood oil
rosh hashanah
rosin grease
rosin jack
rosin oil
rosin plant
rosin rose
rosin soap
rosin spirit
rosso antico
rostral column
rosy era
rosy expectation
rosy finch
rosy outlook
rosy pastor
rosy-armed
rosy-blushing
rosy-bosomed
rosy-checkered
rosy-colored
rosy-crimson
rosy-dancing
rosy-eared
rosy-faced
rosy-finger'd morn
rosy-fingered
rosy-hued
rosy-lipped
rosy-purple
rosy-red
rosy-tinted
rosy-tipped
rosy-toed
rosy-warm
rot grass
rot-gut
rot-steep
rotary cultivator
rotary current
rotary drill
rotary engine
rotary gap
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
rough diamond
rough draft
rough edges
rough fish
rough go
rough guess
rough in
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
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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
royal-souled
royal-spirited
royal-towered
royston crow
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rub against the grain
rub along
rub away
rub down
rub elbows with
rub in
rub iron
rub it in
rub noses
rub off
rub off corners
rub on
rub out
rub salt in the wound
rub the lamp
rub the picture off a nickel
rub the print off a dollar bill
rub the right way
rub the ring
rub the wrong way
rub up
rub your eyes
rub your hands
rub-a-dub
rub-dub
rubaiyat stanza
rubarth's disease
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rubber band
rubber bandage
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rubbing varnish
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rubbish heap
rubbish unloader
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rubble masonry
rubble-work
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rube town
rubella vaccine
rubicon bezique
rubicon piquet
rubidium-strontium dating
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ruby copper
ruby fly
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ruby grass
ruby pin
ruby port
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ruby roller
ruby silver
ruby spaniel
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ruby-tinted
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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-haired
ruddy-headed
ruddy-leaved
ruddy-purple
ruddy-spotted
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rude health
rude justice
rude reproach
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rude-fanged
rude-fashioned
rude-featured
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rug maker
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rug-cutting
rug-gowned
rugby league
rugby union
rugged health
rugged individualism
rugged individualist
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rugose-leaved
rugose-punctate
ruhmkorff coil
ruin agate
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ruin-breathing
ruin-crowned
ruin-heaped
ruin-hurled
ruin-loving
rule against
rule by terror
rule joint
rule nisi
rule of action
rule of conduct
rule of deduction
rule of eleven
rule of might
rule of nature
rule of the road
rule of the sword
rule of three
rule of thumb
rule off
rule out
rule over
rule the roost
rule with a rod of iron
rule with an iron fist
rule with an iron hand
rule-joint
rulebook slowdown
ruled out
ruled surface
ruled-out
ruler of th' inverted year
rump steak
rump-fed
rumpled feathers
rumpus room
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run a deficit
run a good chance
run a race
run a sample
run a specimen
run a temperature
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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
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run-down
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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
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running board
running bond
running bowsprit
running broad jump
running commentary
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running-out of the sands
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rush marsh grass
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safety belt
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safety nut
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safety pinion
safety plug
safety rail
safety razor
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safety setscrew
safety shoes
safety spring
safety squeeze
safety squeeze play
safety stop
safety switch
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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
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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
sage tea
sage thrasher
sage tree
sage willow
sage wine
sage wormwood
sage-colored
sage-covered
sage-leaf
sage-leaf mullein
sage-leaved
sagging in folds
sagging market
sagittal suture
sago fern
sago flour
sago grass
sago palm
sago plant
sago spleen
sago tree
sahuca bean
sail against the wind
sail arm
sail away
sail away from
sail before the wind
sail burton
sail by the wind
sail canvas
sail carrier
sail close to the wind
sail close-hauled
sail closer to the wind
sail coast-wise
sail down the wind
sail drill
sail duck
sail fine
sail fluke
sail for
sail free
sail full and by
sail furler
sail gang
sail grommet
sail ho
sail hook
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
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sailing car
sailing cruiser
sailing day
sailing dinghy
sailing instructions
sailing launch
sailing master
sailing match
sailing orders
sailing packet
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sailing sucker
sailing trawler
sailing trim
sailing vessel
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sailmaker's needle
sailmaker's palm
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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
sailor-train
sailors' snug harbor
saint agnes's eve
saint andrews's cross
saint anthony's cross
saint anthony's fire
saint bernard
saint elmo's fire
saint louis encephalitis
saint maker
saint making
saint martin's summer
saint valentine's day
saint's day
saint's legend
saint-errant
saint-errantry
saint-john's-wort
saker falcon
sal alembroth
sal ammoniac
sal ammoniac
sal soda
sal tartari
sal tree
sal volatile
sal-ammoniac
sal-prunella
salaam aleikum
salad bowl
salad burnet
salad course
salad days
salad dish
salad dressing
salad fork
salad herb
salad nicoise
salad oil
salad plate
salad rocket
salad server
salad spoon
salad tree
salai tree
salamander stove
salaried worker
salary deduction
salary savings insurance
sale and leaseback
sale at auction
sale block
sale by auction
sale note
sale price
sale to the highest bidder
sale-over
saleratus weed
sales account
sales agency
sales agent
sales book
sales campaign
sales check
sales engineer
sales floor
sales force
sales journal
sales ledger
sales manager
sales note
sales personnel
sales pitch
sales promotion
sales register
sales resistance
sales talk
sales tax
salfern stoneseed
sali-
salic law
salicyl alcohol glucoside
salicylic acid
salicylic aldehyde
salient angle
salient fact
salient point
salino-
salisbury steak
salivary digestion
salivary gland
salivary glands
salivary secretion
salk vaccine
salle a manger
salle d'armes
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-ovariitis
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 crushe
salt crys
salt dom
salt dow
salt dr
salt dry
salt dut
salt eel
salt elev
salt evapor
salt fill
salt filt
salt fir
salt flat
salt furna
salt gar
salt gua
salt glaz
salt gla
salt graine
salt grape
salt grass
salt grind
salt hay
salt heave
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
saltwater sailor
saltwater taffy
saltwort family
salus populi suprema 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-sized
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
sand-hiller
sand-lime
sand-lime brick
sand-lot
sand-paper
sand-red
sand-strewn
sand-struck
sand-warped
sandal brick
sandal tree
sandalwood family
sandalwood oil
sandalwood tan
sandarac tree
sandbeach grape
sandbox tree
sanders blue
sandhill crane
sanding machine
sandpaper fig
sandpaper starwort
sandpaper tree
sands of the sea
sands of time
sandwich batten
sandwich beam
sandwich board
sandwich boy
sandwich cake
sandwich coin
sandwich compound
sandwich course
sandwich girder
sandwich man
sandwich shop
sandwich tern
sandy blight
sandy loam
sandy-bearded
sandy-bottomed
sandy-colored
sandy-flaxen
sandy-haired
sandy-pated
sandy-red
sandy-rufous
sane-minded
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-stripped
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
sauva ant
sauve qui peut
sauve-qui-peut
sauvignon blanc
savage-featured
savage-fierce
savage-hearted
savage-looking
savage-spoken
savage-wild
savanilla 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
scaloped-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-leg 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-bearing
scapho-
scapolite group
scapolite-gabbro
scapular medal
scapular-shaped
scapul-
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
scarcey any
scarcey anything
scarcey ever
scarcey heard
scarcey like
scarcey to be anticipated
scarcey to be expected
scarcey 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 lycnhs
scarlet madder
scarlet monkey flower
scarlet ocher
scarlet pimpernel
scarlet plume
scarlet runner
scarlet runners
scarlet sage
scarlet tanager
scarlet woman
scarlet-ariled
scarlet-barred
scarlet-berred
scarlet-blossomed
scarlet-breasted
scarlet-circled
scarlet-clad
scarlet-coated
scarlet-colored
scarlet-crestd
scarlet-day
scarlet-faced
scarlet-flowerd
scarlet-fruited
scarlet-gowned
scarlet-haired
scarlet-lined
scarlet-lipped
scarlet-red
scarlet-robed
scarlet-tipped
scarlet-vermillion
scarp wall
scarp joint
scat singing
scat-
scato-
scatological literature
scatter diagram
scatter pin
scatter pins
scatter rug
scatter seed
scatter shot
scatter to the winds
scatter-brain
scatter-brained
scatter-gun
scaup duck
scaup-duck
scavenger beetle
scavenger hunt
scavenger's daughter
scenario writer
scene cloth
scene dock
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
schlock rock
schlock shop
schmidt system
schola cantorum
scholae cantorum
scholarly edition
scholastic institution
scholastic theology
school account
school age
school agent
school airship
school aptitude
school argument
school author
school badge
school bass
school bell
school bench
school board
school brush
school building
school bus
school case
school chalk
school chapel
school chart
school child
school chum
school clamp
school clerk
school clock
school commissioner
school committee
school companion
school crayon
school day
school desk
school dictionary
school district
school divine
school divinity
school doctor
school door
school drilling
school edition
school emblem
school equipment
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 ranking
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
dschooner bark
dschooner ketch
dschooner rig
dschooner-rigged
schorl-granite

dschorl-rock

dscheriner finish

dsci-fi
dsciara army worm
dsciatic artery
dsciatic foramen

dsciatic neuritis
dscience dictionary
dscience fiction
dscience in the flesh
dscience of being
dscience of discursive thought
dscience of human behavior
dscience of language
dscience of man
dscience of mind
dscience of the mind
dscience of war
dscience-fiction novel
dscientia est potentia
dscientia scientiarum
dscientific education
dscientific exactness
dscientific humanism
dscientific management
dscientific method
dscientific name
dscientific socialism
dscientifically exact
dscimitar foot
dscimitar-shaped
dscintillation counter
dscintillation spectrometer
dscire facias
dscissor blade
dscissor case
dscissor chain
dscissor kick
dscissor maker
dscissor making
dscissor screw
dscissor 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-
scops 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
scrape-gut
scrape-shoe
scrape-trencher
scrape conveyor
scrape mat
scrap plane
scrap ring
scrap con
scratch awl
scratch brusher
scratch carving
scratch coat
scratch comma
scratch cradle
scratch division
scratch each other's back
scratch feed
scratch figure
scratch gauge
scratch grass
scratch hit
scratch line
scratch out
scratch pad
scratch paper
scratch player
scratch sheet
scratch test
scratch the surface
scratch together or up
scratch wig
scratch-brush
scratch-coated
scratch-pad
scratch-penny
scratching post
scratching shed
scrawny horse
scream defiance
scream therapy
screaming color
screaming meemies, the
screaming-meemies
screech hawk
screech martin
screech owl
screech-owl
screen boy
screen door
screen facade
screen gate
screen grid
screen maker
screen making
screen memory
screen out
screen pass
screen plate
screen process
screen test
screen, the
screen-faced
screen-grid tube
screen-grid voltage
screen-plate process
screen-test
screen-wall counter
screen-wiper
screening constant
screening effect
screw alley
screw anchor
screw arbor
screw around
screw auger
screw axis
screw back
screw bean
screw bell
screw blower
screw bolt
screw box
screw bunter
screw cap
screw chain
screw collar
screw conveyer
screw conveyor
screw coupling
screw driver
screw eye
screw fern
screw gear
screw gearing
screw hook
screw jack
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-gear
screw-lifted
screw-piled
screw-pin
screw-pine
screw-pine family
screw-pitch
screw-pitch gauge
screw-pod mesquite
scroll gear
scroll lathe
scroll pediment
scroll saw
scroll step
scroll wheel
scroll-cut
scroll-like
scroll-shaped
scrooch down
scrootch 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 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-
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 quagmire
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 whiptail
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-circled
sea-cliff
sea-coal
sea-coast
sea-cock
sea-compelling
sea-convulsing
sea-cow
sea-cut
sea-deep
sea-deserted
sea-devil
sea-divided
sea-dog
sea-dragon
sea-driven
sea-eagle
sea-ear
sea-elephant
sea-encircled
sea-faring
sea-fern
sea-fight
sea-fighter
sea-fish
sea-flower
sea-foam
sea-food
sea-form
sea-fowl
sea-framing
sea-front
sea-gait
sea-gate
sea-girt
sea-god
sea-goddess
sea-going
sea-grape
sea-grass
sea-gray
sea-green
sea-gull
sea-heath
sea-heath family
sea-hedgehog
sea-hen
sea-holly
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-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-wildered
sea-wolf
sea-wrack
sea-wrecked
seabeach morning-glory
seabeach sandwort
seacoast angelica
seacoast laburnum
seafaring man
seakale beet
seal brown
seal character
seal coat
seal cutter
seal cutting
seal cylinder
seal fisher
seal fisherman
seal fishery
seal fishing
seal hole
seal lock
seal maker
seal making
seal of approval
seal of confession
seal of secrecy
seal off
seal oil
seal point
seal press
seal ring
seal the doom of
seal up
seal your infamy
seal your lips
seal-brown
seal-point
sealed book
sealed move
sealed off
sealed orders
sealed-beam
sealing hole
sealing nut
sealing off
sealing tape
sealing wax
sealing-wax
sealyham terrier
seam blasting
seam face
seam lace
seam presser
seam roller
seam set
seam stitch
seam strip
seam weld
seam welding
seam-rent
seam-ripped
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
seat maker
seat making
seat of affections
seat of authority
seat of government
seat of justice
seat of life
seat of power
seat of state
seat of thought
seat of war
seat owner
seat worm
seat yourself
seat-mile
seaweed fern
seaweed glue
seaweed green
seaweed isinglass
seaweed marquetry
sebaceous cyst
sebaceous gland
sebaceous glands
sebacic acid
sebi-
seborrheic dermatitis
secale cornutum
seclude yourself
seclusive personality
seobarbital sodium
second axiom of countability
second ballot
second banana
second base
second baseman
second best
second birth
second blessing
second carbon
second category
second chamber
second childhood
second class
second coming
second cousin
second crop
second derivative
second detector
second draft
second edition
second empire
second estate
second fiddle
second floor
second growth
second hand
second helping
second in command
second intention
second job
second law of motion
second law of thermodynamics
second lieutenant
second line of defense
second look
second man
second mate
second mortgage
second mortgage bond
second nature
second officer
second paper
second papers
second person
second philosophy
second position
second prize
second rank
second reader
second reading
second self
second sex
second sight
second stomach
second story
second string
second stringer
second team
second thought
second thoughts
second to none
second wind
second youth
second-best
second-class
second-class mail
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
security analyst
security blanket
security clearance
security council
security force
security guard
security risk
sed-festival
sedan chair
sedan clock
sedan cruiser
sedan delivery truck
sedan landaulet
sedan limousine
sedative salt
edge bird
edge cane
edge family
edge fly
edge grass
edge hen
edge root
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
sego lily
sei whale
seidlitz powders
seif dune
seine gang
seir-fish
seis-ing
seismic wave
seismo-
seize on
seize one of the facts
seize power
seize quartiers
seize the crown
seize the day
seize the mantle
seize the meaning
seize the mind
seize the present hour
seize the throne
seize upon
seize your mind
seized of
seized with
seizing stuff
seizing truck
seizure of power
sejant-erect
sejeant-erect
sel- dom
seldom ever
seldom if ever
seldom met with
seldom seen
select committee
selected passage
selected short subject
selected works
selection forest
selection principle
selection rule
selection system
selection value
selective assembly
selective attention
selective calculator
selective service
selective transmission
selective-head
selective-head lathe
selector switch
selen-
selenic acid
selenio-
selenious acid
selenium cell
seleno-
selenographic 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
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self-registration
self-regulate
self-regulated
self-regulating
self-regulating market
self-regulation
self-regulative
self-regulatory
self-relation
self-reliance
self-reliant
self-reliantly
self-relish
self-relying
self-renounced
self-renunciation
self-renouncing
self-renunciation
self-repeating
self-repelling
self-repelling
self-repelling
self-repose
self-representation
self-repressed
self-repressing
self-repression
self-reproach
self-reproached
self-reproachful
self-reproachfulness
self-reproaching
self-reproachingly
self-reproachingness
self-reproducing
self-reproduction
self-reproof
self-reproval
self-reproved
self-reproving
self-reprovingly
self-repugnance
self-repugnancy
self-repugnant
self-repulsive
self-reputation
self-rescuer
self-resentment
self-resigned
self-resourceful
self-resourcefulness
self-respect
self-respectful
self-respectfulness
self-respecting
self-respectingly
self-resplendent
self-responsibility
self-restoring
self-restrained
self-restraining
self-restraint
self-restricted
self-restriction
self-retired
self-revealed
self-revealing
self-revealment
self-revelation
self-revelative
self-revelatory
self-reverence
self-reverent
self-reward
self-rewarded
self-rewarding
self-right
self-righteous
self-righteously
self-righteousness
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
self-satisfied
self-satisfiedly
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
self-secure
self-security
self-sedimentation
self-sedimented
self-seeded
self-seeker
self-seeking
self-seekingness
self-selection
self-sent
self-sequestered
self-serve
self-server
self-service
self-serving
self-set
self-severe
self-shadowed
self-shadowing
self-shelter
self-sheltered
self-shine
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
self-spaced
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
self-stimulated
self-stimulating
self-stimulation
self-stowing
self-strength
self-stripper
self-strong
self-stuck
self-study
self-styled
self-styled lawyer
self-subdual
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-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-torment
self-tormented
self-tormenter
self-tormenting
self-tormentingly
self-tortmentor
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-unscabbarded
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-vaunting
self-vendition
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
self-liquidating 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
seller four
seller's market
sellers' market
selling account
selling agent
selling point
selling price
selling race
selling-plater
seltzer water
semantic cluster
semantic field
semantic history
semantic tone
semantic unit
semaphore flag
semaphore plant
semaphore telegraph
semasiological unit
semei-
semen cinae
semen contra
semester hour
semi-
semi-Augustinianism
semi-abstract
semi-abstraction
semi-annual
semi-arian
semi-aridity
semi-armor-piercing
semi-chorus
semi-circle
semi-cubical
semi-demi-
semi-detached
semi-diesel
semi-diurnal
semi-double
semi-form
semi-idiocy
semi-idiotic
semi-idleness
semi-ignorance
semi-illiteracy
semi-illiterate
semi-illiterately
semi-illiterateness
semi-illuminated
semi-imbricated
semi-immersed
semi-impressionistic
semi-incandescent
semi-independence
semi-independent
semi-independently
semi-indirect
semi-indirectly
semi-indirectness
semi-inductive
semi-indurate
semi-indurated
semi-industrial
semi-industrialized
semi-industrially
semi-inertness
semi-infidel
semi-infinite
semi-inhibited
semi-inhibition
semi-insoluble
semi-instinctive
semi-instinctively
semi-instinctiveness
semi-insular
semi-intellectual
semi-intellectualized
semi-intellectually
semi-intelligent
semi-intelligently
semi-intercostal
semi-internal
semi-internalized
semi-internally
semi-interosseous
semi-intoxication
semi-intrados
semi-invalid
semi-inverse
semi-ironic
semi-ironical
semi-ironically
semi-isolated
semi-learning
semi-lune
semi-mat
semi-matte
semi-metal
semi-nocturnal
semi-opal
semi-ped
semi-pelagian
semi-private room
semi-saxon
semi-unabridged dictionary
semi-uncial
semiRussian
semaire-cooled
semiautomatic control
semiautomatic rifle
semibreve rest
semicircular canal
semicircular canals
semi-classical music
semico-operative
semicolon butterfly
semiconductor circuit
semiconductor device
semiconductor physics
semidrying oil
semilatus rectum
semilunar valve
semimajor axis
semiminor axis
seminal duct
seminal fluid
seminal imagination
seminal principle
semiotic unit
semipalmated plover
semipalmated sandpiper
semiprecious stone
semirigid airship
semisimple algebra
semiswater gas
semor sem
semper eadem
semper et ubique
semper fidelis
semper idem
semper paratus
semper-
sen robber
senate house
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 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
sense 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
sensum theory
sensuous desire
sensuous 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
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-
esequipedalian 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 phrase
set piece
set pin
set point
set pot
set purpose
set right
set sail
set shot
set side by side
set someone on his feet
set speech
set square
set store by
set straight
set task
set temper
set term
set terms
set the Thames on fire
set the brain to work
set the date
set the echoes ringing
set the fashion
set the law at defiance
set the law at naught
set the limit
set the mind to
set the mood
set the pace
set the price tag too high
set the river on fire
set the stage
set the style
set the table on a roar
set the teeth on edge
set the time
set the tone
set the wits to work
set the world on fire
set theory
set to
set to music
set to one side
set to rights
set to sleep
set to the account of
set to work
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-hundreds
seventeen-year
seventeen-year locust
seventh chord
seventh day
seventh heaven
seventh nerve
sewing awl
sewing basket
sewing bench
sewing bird
sewing board
sewing cabinet
sewing circle
sewing class
sewing cotton
sewing machine
sewing needle
sewing press
sewing room
sewing school
sewing silk
sewing society
sewing table
sewing teacher
sewing thread
sewing tray
sewing twine
sewing wire
sewing woman
sewing work
sewing-machine needle
sex act
sex appeal
sex behavior
sex cell
sex characteristic
sex chromosome
sex crime
sex criminal
sex deviant
sex deviate
sex discrimination
sex drive
sex fiend
sex goddess
sex hormone
sex hygiene
sex kitten
sex linkage
sex object
sex organ
sex organs
sex pervert
sex queen
sex ratio
sex-
sex-intergrade
sex-limited
sex-linkage
sex-linked
sex-starved
sexagesimal scale
sexagesimal system
sexagesimo-quarto
sexed-up
sexi-
sextant altitude
sexto-decimo
sexton beetle
sextuple press
sextuple time
sexual abnormality
sexual abstinence
sexual advance
sexual approach
sexual assault
sexual attraction
sexual attractiveness
sexual climax
sexual commerce
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
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
shame-eaten
shame-shrunk
shame-stricken
shame-swollen
shameless falsehood
shammy leather
shamrock green
shamrock pea
shamrock-pea
shangri-la
shank bone
shank cutter
shank grass
shank mill
shank of the afternoon
shank of the evening
shank painter
shank’s mare
shank’s pony
shank-painter
shanks’ mare
shanks’ pony
shanks's pony
shanty boat
shanty boy
shanty-boater
shape a course
shape note
shape out a course
shape shifting
shape target
shape the hair
shape up
shape your course for
shape-knife
shape-shifting
shape-up
shaped charge
shaped note
shaping dies
shaping imagination
shaping planer
shard beetle
shard-born
shard-borne
share and share alike
share around
share beam
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-eared
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-nebbed
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
shearing machine
shearing plane
shearing punch
shearing stress
shearing tool
sheath gown
sheath knife
sheath moth
sheath pieffield
sheath pile
sheath-fish
sheath-winged
sheathe the sword
sheathing board
sheathing copper
sheathing felt
sheathing lead
sheathing lumber
sheathing nail
sheathing paper
sheave hole
shed a luster on
shed blood
shed burn
shed dormer
shed fresh light upon
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 bottfly
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
sheepswool 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
shelf bracket
shelf catalogue
shelf fungus
shelf ice
shelf ladder
shelf life
shelf list
shelf mark
shelf plate
shelf rest
shelf warmer
shelf-room
shell auger
shell back
shell bark
shell bean
shell bit
shell boiler
shell button
shell carver
shell cast
shell chuck
shell construction
shell couching
shell crest
shell cut
shell dove
shell down
shell drill
shell edging
shell expansion
shell eye
shell feed
shell fire
shell game
shell gland
shell gray
shell heap
shell hole
shell hooks
shell ibis
shell ice
shell jacket
shell limestone
shell marble
shell money
shell mound
shell out
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
shepherds-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
shiffle-shuffle
shift about
shift ballast
shift bid
shift boss
shift for yourself
shift into
shift joint
shift key
shift lock
shift marriage
shift of structure
shift of tense
shift off
shift place
shift the blame
shift the control
shift the responsibility
shift the rudder
shift the scene
shift with
shift your ground
shifter fork
shifting course
shifting cultivation
shifting path
shifting pedal
shifting sands
shifting scene
shifting spanner
shifting trust
shifting use
shifty-eyed
shih-tzu
shilling mark
shilling shocker
shilly-shallied
shilly-shallies
shilly-shally
shilly-shallyer
shilly-shallying
shilly-shallyingly
shim plow
shim-sham
shimmer with heat
shin guard
shin oak
shin up
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-mindedly
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
shire 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
shit in your pants
shit-headed
shittah tree
shittim wood
shive wheel
shiver my timbers
shiver spar
shoal duck
shoal water
shock absorber
shock action
shock battalion
shock bump
shock cord
shock corps
shock dog
shock force
shock pad
shock reaction
shock soldier
shock tactics
shock therapy
shock treatment
shock troops
shock tube
shock wave
shock-bucker
shock-dog
shock-head
shocking pink
shoe blacking
shoe block
shoe board
shoe boil
shoe bolt
shoe box
shoe buckle
shoe button
shoe cleaner
shoe dauber
shoe dealer
shoe department
shoe drill
shoe dye
shoe fastener
shoe findings
shoe last
shoe laster
shoe leather
shoe lifter
shoe machinery
shoe mender
shoe merchant
shoe nail
shoe peg
shoe piece
shoe polish
shoe polisher
shoe repaired
shoe shiner
shoe silver
shoe stone
shoe store
shoe tie
shoe tree
shoe trimmer
shoe-button spider
shoe-cleaning
shoe-horn
shoe-leather
shoe-make
shoe-spoon
shoeblack plant
shoeing-horn
shoeless horse
shoestring catch
shoestring fern
shoestring fungus
shoestring lily
shoestring margin
shoestring potato
shoestring weed
shoggy-shoo
shoo-fly pie
shoo-in
shoofly finger
shoofly pie
shook swarming
shook up
shook-up
shoot ahead
shoot ahead of
shoot apex
shoot at
shoot back
shoot ballast
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
shore pine
shore pipit
shore snipe
shore spurge
shore terrace
shore up
shore whiting
shore-going
shored up
shorn of
short account
short allowance
short and
short and sweet
short answer
short ballot
short bill
short bob
short circuit
short column
short commons
short covering
short cross
short cut
short demy
short distance
short division
short duration
short end
short extension
short field
short fuse pepperiness
short game
short haul
short hundredweight
short interest
short iron
short jenny
short leet
short leg
short line
short list
short loin
short measure
short memory
short memory span
short odds
short of
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 shif""""t
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-fruited
short-grained
short-growing
short-hair
short-hair plume grass
short-haired
short-handed
short-handled
short-haul
short-headed
short-headedness
short-keeled
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-suieter
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-stified
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
shrift-father
shrike thrush
shrike tit
shriek
shrill sound
shrill-edged
shrill-gorged
shrill-toned
shrill-tongued
shrill-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
shrivel 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-bar rule
side-beam engine
side-bended
side-bone
side-box
side-by-side
side-by-sideness
side-cast
side-chain theory
side-cut
side-door
side-dress
side-dressed
side-dressing
side-end
side-end line
side-flowing
side-glance
side-graft
side-handed
side-hanging
side-kick
side-lever
side-lever engine
side-light
side-line
side-liner
sidelook
side-looker
side-lying
side-necked
side-on
side-post
side-saddle
side-seen
side-show
side-skip
side-slip
side-splitting
side-step
side-stepped
side-stepper
side-stepping
side-stick
side-stitched
side-table
side-taking
side-track
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
siege perilous
siege piece
siege train
siege wagon
siege warfare
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
siliceo-
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-robed
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-stockinged
silk-tail
silk-tassel tree
silk-winder
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 smilesilly-billy
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-colored
silver-coloured
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-shrunken
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-caped
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-heartened
single-heartedly
single-heartenedness
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-moutheed
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
single-stroke
single-surfaced
single-swing
single-swing joint
single-tap
single-tax
single-thoughted
single-threaded
single-throw
single-throw switch
single-tongue
single-tonguing
single-track
single-tree
single-trip
single-trunked
single-twist
single-twisted
single-valued
single-walled
single-wheel
single-wheeled
single-whip
tackle
single-wicket
single-wire
single-wired
singled out
tsinged-out
singleness of heart
singleness of purpose
singles court
singular point
singular proposition
sinister influence
sinister-handed
sinistro-
sink away
sink back
sink boat
sink box
sink down
sink in
sink in the mind
sink into despair
sink into oblivion
sink into the mind
sink like lead
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
sinuoso-
 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-cylindere
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-o'clock
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
six-three-three
six-time
six-ton
six-week
six-weeks grass
six-wheel
six-wheeled
six-wheeler
six-winged
six-yard
six-yard area
six-yard line
six-year
six-year-old
sixpenny bit
sixteen-foot
sixteen-foot stop
sixteen-pounder
sixteenth note
sixteenth rest
sixth chord
sixth column
sixth form
sixth nerve
sixth sense
sixth-floor
sixth-form
sixth-grade
sixth-rate
sixty per cent
sixty-eight
sixty-eighth
sixty-fifth
sixty-first
sixty-five
sixty-four
sixty-four-dollar question
sixty-fourmo
sixty-fourmos
sixty-fourth
sixty-fourth note
sixty-fourth rest
sixty-nine
sixty-ninth
sixty-one
sixty-second
sixty-seven
sixty-seventh
sixty-six
sixty-sixth
sixty-third
sixty-third
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
skinny as a lath
skinny 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-rope
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
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
slave-carrying
slave-collecting
slave-cultured
slave-deserted
slave-drive
slave-driver
slave-enlarging
slave-got
slave-grown
slave-labor
slave-making
slave-making ant
slave-merchant
slave-owning
slave-peopled
slave-trade
slaver over
slavo-
slay en masse
sleave silk
sleave-silk
sled cultivator
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
slicked up
slicker 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
slide out of
slide over
slide pole
slide projector
slide rail
slide rest
slide rod
slide rule
slide shaft
slide stacker
slide tongs
slide tool
slide trombone
slide valve
slide viewer
slide-
slide-action
slide-easy
slide-groat
slide-rest
slide-rest lathe
slide-rock
slide-rule
slide-rule warfare
slide-valve
slide-valve engine
slide-wire
slide-wire bridge
slider crank
slider-crank chain
sliding board
sliding fit
sliding friction
sliding keel
sliding scale
sliding seat
sliding vector
sliding way
sliding-gear
sliding-scale
sliding-scale premium
slight knowledge
slight over
slight stretching
slight wrong
slight-billed
slight-bottomed
slight-built
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
cable
collar
memory
through
your fingers
through your hands
tongue
up
ware
washer
wool
you a Mickey
you a Mickey Finn
cable
your mind
-
along
knot
on
rail
ring
sheet
shelled
shoe
skin
slop
stitch
string
tongue wheel
top
up
way
coat cheese
wool
disc
disk
tendon
wing
animalcule
animalcules
bath
block
boat
brake
chair
drag
foot
slipper limpet
slipper orchid
slipper piston
slipper plant
slipper satin
slipper shell
slipper sock
slipper-foxed
slipper-root
slipper-shaped
slippered ease
slippery as an eel
slippery dip
slippery elm
slippery-bellied
slippery-breeched
slippery-looking
slippery-shod
slippery-sleek
slippery-tongued
slipping away
slipping back
slipshod construction
slit band
slit deal
slit lamp
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
stocking 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 book
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-endeavoring
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
small-boyhood
small-boyish
small-brained
small-caliber
small-celled
small-claims court
small-clawed
small-clothes
small-college
small-colleger
small-cornered
small-craft warning
small-crowned
small-debts court
small-diameter
small-drink
small-eared
small-eyed
small-faced
small-feed
small-finned
small-flowered
small-footed
small-framed
small-fruited
small-fry
small-grain
small-grained
small-habited
small-handed
small-headed
small-hipped
small-horned
small-jointed
small-leaved
small-letter
small-lettered
small-limbed
small-looking
small-lunged
small-minded
small-mindedly
small-mindedness
small-nailed
small-natured
small-paneled
small-paper
small-part
small-pattern
small-petaled
small-pored
small-preferred
small-reasoned
small-scale
small-scaled
small-shelled
small-size
small-sized
small-souled
small-spaced
small-spotted
small-sword
small-tailed
small-talk
small-threaded
small-timbered
small-time
small-timer
small-tired
small-toned
small-tooth
small-toothed
small-topped
small-town
small-towner
small-trunked
small-type
small-visaged
small-visioned
small-ware
small-wheeled
small-windowed
smallmouth bass
smallpox plant
smallpox-proof
smalt green
smalt-blue
smart aleck
smart as a whip
smart ass
smart crack
smart money
smart operator
smart pace
smart saying
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
smock-frocked
smoke agent
smoke arch
smoke ball
smoke blue
smoke bomb
smoke cat
smoke chamber
smoke curtain
smoke dome
smoke explosion
smoke gray
smoke grenade
smoke helmet
smoke hole
smoke jumper
smoke kiln
smoke like a chimney
smoke like a furnace
smoke out
smoke passage
smoke pipe
smoke plant
smoke pot
smoke proof
smoke quartz
smoke rocket
smoke room
smoke sail
smoke screen
smoke shelf
smoke shop
smoke stop
smoke talk
smoke the pipe of peace
smoke tree
smoke washer
smoke-ball
smoke-begotten
smoke-black
smoke-bleared
smoke-blinded
smoke-blue
smoke-bound
smoke-brown
smoke-burning
smoke-colored
smoke-condensing
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-billed
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-fruitied
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 bite
snake blenny
snake boat
snake buzzard
snake cactus
snake cane
snake charmer
snake crane
snake cucumber
snake dance
snake doctor
snake eel
snake eggplant
snake eyes
snake feeder
snake fence
snake fern
snake fly
snake foot
snake gentian
snake gourd
snake guide
snake hole
snake idol
snake in the grass
snake juice
snake killer
snake leaf
snake lily
snake line
snake mackerel
snake medicine
snake melon
snake moss
snake nut
snake oil
snake palm
snake pit
snake star
snake violet
snake wire
snake worship
snake worshiper
snake's head
snake's-head
snake-bitten
snake-bodied
snake-devouring
snake-drawn
snake-eater
snake-eating
snake-encircled
snake-engirdled
snake-eyed
snake-goddess
snake-grass
snake-hairied
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
snapper-back
snapper-up
snapping beetle
snapping point
snapping tool
snapping turtle
snappy comeback
snappy pace
snare drum
snare strainer
snarl defiance
snarl up
snarl-up
snarled up
snarling iron
snatch at
snatch block
snatch from
snatch from the jaws of death
snatch hitch
snatch team
snatch-
sneak attack
sneak boat
sneak box
sneak current
sneak in
sneak off
sneak out
sneak out of
sneak preview
sneak shooting
sneak thief
sneak thievery
sneak through
sneak-
sneak-cup
sneak-up
sneaking suspicion
sneaky pete
sneck band
sneck drawer
sneck harling
sneck hook
sneck posset
sneck-drawer
sneer at
sneeshing box
sneeshing mill
sneeshing mull
sneeze at
sneeze gas
sneeze weed
sneezewort tansy
sneezewort yarrow
sneezing gas
snick and snee
snick drawer
snick-a-snee
snick-and-snee
snick-and-snee knife
snick-snarl
snicker at
sniff at
sniff out
sniffle valve
sniftles, the
snifter valve
snifting valve
snow cup
snow devil
snow dust
snow eater
snow eyes
snow fence
snow field
snow finch
snow flea
snow flurry
snow fly
snow gem
snow glare
snow glory
snow gnat
snow goggles
snow goose
snow grains
snow grass
snow ground
snow grouse
snow guard
snow gum
snow hut
snow ice
snow in
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-blown
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-haired
snow-hung
snow-in-summer
snow-laden
snow-limbed
snow-line
snow-lined
snow-loaded
snow-man
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-fleece
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
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 secretary
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 adjutant 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
sod culture
sod grass
sod house
sod mulch
sod off
sod oil
sod plow
sod webworm
sod-bound
sod-build
sod-cutting
sod-forming
sod-roofed
soda alum
soda ash
soda ball
soda biscuit
soda bread
soda cracker
soda crystals
soda feldspar
soda fountain
soda jerk
soda lake
soda lime
soda lye
soda mesolite
soda mica
soda niter
soda nitre
soda plant
soda pop
soda pulp
soda saleratus
soda siphon
soda soap
soda waste
soda water
soda-granite
soda-lime
soda-lime feldspar
soda-potash
soda-potash feldspar
sodalite-syenite
sodden-faced
sodden-headed
sodden-minded
sodden-witted
sodio-
sodium acetate
sodium acid car
sodium acid carbonate
sodium alum
sodium aluminate
sodium amide
sodium ammonium phosphate
sodium arsenate
sodium arsenite
sodium arsphenamine
sodium barbital
sodium benzoate
sodium biborate
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 hyposulfi
sodium hyposulfite
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 suing agent
sodium sulfate
sodium sulfide
sodium sulfite
sodium sulphate
sodium sulphide
sodium sulphite
sodium tetrabor
sodium tetraborate
sodium thiocyanate
sodium thiopenal
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-beded
soft-bellied
soft-bill
soft-billed
soft-blowing
soft-board
soft-bodies
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-heartedness
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
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
sole-lying
sole-ruling
sole-saving
sole-seated
sole-shaped
sole-stitching
sole-sufficient
sole-thoughted
sole-walking
solemn affirmation
solemn declaration
solemn form
solemn mass
solemn mockery
solemn oath
solemn observance
solemn secret
solemn silence
solemn vow
solemn word
solemn-breathing
solemn-browed
solemn-cadenced
solemn-eyed
solemn-garbed
solemn-looking
solemn-mannered
solemn-measured
solemn-proud
solemn-seeming
solemn-shaded
solemn-sounding
solemn-thoughted
solemn-toned
solemn-visaged
solemnly mark
soleno-
solenoid brake
solent goose
solera sherry
solferino red
soli-deo
solicit advice
solicit attention
solicit votes
solicitor general
solicitors general
solid angle
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
solo organ
solo part
solo stop
solo whist
solomon's seal
solomon-gundy
solstitial colure
solubility product
soluble RNA
soluble glass
solution plane
solution pressure
solution set
solution tension
solution-proof
solvate theory
solvay process
solvent naphtha
soma plant
somat-
somatic cell
somatic death
somatization reaction
somato-
somber-clad
somber-colored
somber-looking
somber-minded
somber-seeming
somber-toned
some fine day
some fine morning
some five or six
some hope
some of these days
some one
some such way
some sweet day
some time ago
some time back
some time since
some way
somehow or another
somehow or other
someplace or other
something awful
something between
something between the lines
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
somni-
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
sorbidic 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-pressed
sore-pressed
sore-taxied
sore-taxied
sore-toed
sore-tried
sore-vexed
sore-wearied
sore-won
sore-worn
sore-di-
sorely disappointed
sorely pressed
sorghum brown
sorghum midge
sorghum smut
sorority girl
sorority house
sorority woman
sorrel dock
sorrel family
sorrel salt
sorrel tree
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
sostenente 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-enthralling
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 post
sound pressure
sound projector
sound proof
sound propagation
sound ranging
sound reasoning
sound recorder
sound recording
sound reproduction system
sound screen
sound sense
sound shadow
sound shift
sound shifting
sound shrill
sound similar
sound sleep
sound slidefilm
sound spectrogram
sound spectrograph
sound stage
sound taps
sound the alarm
sound the death knell of
sound the horn
sound the keynote
sound the note of preparation
sound the praises of
sound the tocsin
sound the trumpet
sound together
sound track
sound truck
sound true
sound understanding
sound units
sound wave
sound wormy
sound-absorbing
sound-absorbing material
sound-board
sound-conducting
sound-effects man
sound-exulting
sound-group
sound-hole
sound-judging
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
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
sow-thistle
sow-tit
sower type
sowing with salt
soy flour
soy frame
soy pea
soy sauce
soya bean
soya sauce
soya-bean oil
soybean fibers
soybean oil
soyez le bienvenu
sp gr
sp ht
spa-water
space age
space airport
space bar
space between
space bullets
space capsule
space centrode
space charge
space crew
space curvature
space curve
space dock
space docking
space doctor
space engineering
space error
space exploration
space factor
space fiction
space flight
space formula
space frame
space group
space hazard
space heater
space heating
space helmet
space island
space isomerism
space key
space laboratory
space lat
space lattice
space line
space linkage
space man
space mark
space medicine
space mirror
space motion
space navigation
space observatory
space opera
space out
space perception
space platform
space probe
space probes
space quadrature
space rate
space ratio
space research
space rocket
space rule
space satellite
space science
space shuttle
space stage
space station
space suit
space technology
space telegraphy
space telephony
space terminal
space travel
space traveler
space variation
space velocity
space walk
space washer
space writer
space-bar
space-charge effect
space-crammed
space-embosomed
space-filling
space-lattice
space-occupying
space-penetrating
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
spae-man
spaghetti Western
spaghetti and meat balls
spaghetti western
spall off
spalling hammer
span blocks
span dog
span iron
span loading
span of apprehension
span of attention
span of meaning
span roof
span shackle
span-
span-counter
span-farthing
span-hapenny
span-long
span-new
span-roof
spandrel frame
spandrel step
spandrel wall
spang-new
spangle-baby
spangled glass
spanish american
spanish bayonet
spanish broom
spanish fly
spanish heel
spanish influenza
spanish mackerel
spanish moss
spanish needles
spanish omelet
spanish paprika
spanish rice
spank along
spanker boom
spanker gaff
spanker peak halyard
spanker sheet
spanker vang
spanking new
spanking pace
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-handedly
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
sparkle metal
sparkle-blazing
sparkle-drifting
sparkle-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
spattering 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 inopportunely
speak one's mind
speak one's piece
speak out
speak plainly
speak poorly
speak slightingly 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
specialty 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
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
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-spermatophore sac sperm-spermicidal jelly spermo-spew out spewing sickness spey cast sphae-ropsidaceous sphaero-sphagnnum bog sphagnnum frog sphagnnum 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-
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 anesthesia
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
spindle-shanked
spindle-shaped
spindle-shinned
spindle-side
spindle-tree
spindling sprout
spine cell
spine-ache
spine-bashing
spine-breaking
spine-broken
spine-chiller
spine-chilling
spine-clad
spine-covered
spine-finned
spine-headed
spine-pointed
spine-protected
spine-rayed
spine-tail
spine-tailed
spine-tailed swift
spine-tipped
spinel group
spinel pink
spinel ruby
spinel-red
spinet desk
spini-
spinnaker boom
spinnaker pole
spinnaker staysail
spinner of yarns
spinner play
spinning axis
spinning box
spinning electrons
spinning frame
spinning gland
spinning head
spinning house
spinning jenny
spinning lathe
spinning machine
spinning mammilla
spinning mite
spinning mule
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-branched
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-geared
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-prompted
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
pleno-
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
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-ear
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
sport-affording
sport-giving
sport-hindering
sport-loving
sport-making
sport-starved
sporting blood
sporting book
sporting chance
sporting dog
sporting editor
sporting girl
sporting goods
sporting goods store
sporting house
sporting lady
sporting man
sporting page
sporting section
sporting-wise
sports car
sports clothes
sports day
sports editor
sports jacket
sports page
sports parachutist
sports plane
sports section
sports shirt
sports suit
spot announcement
spot ball
spot blotch
spot board
spot card
spot cards
spot cash
spot check
spot cotton
spot dyeing
spot grain
spot height
spot illustration
spot lamp
spot lens
spot lighting
spot line
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-eared
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-breath
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-loon
spray can
spray carburetor
spray drain
spray gun
spray nozzle
spray outfit
spray strip
spray-casting
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 cowslip
spring cress
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
spring harrow
spring heath
spring heel
spring herring
spring hoe
spring hook
spring iris
spring key
spring lamb
spring latch
spring leaf
spring ligament
spring lily
spring line
spring lock
spring mattress
spring molding
spring mushroom
spring needle
spring nut
spring oats
spring onion
spring open
spring orange
spring orchid
spring pad
spring padlock
spring peeper
spring perch
spring pin
spring plate
spring pole
spring rail
spring rains
spring ring
spring rye
spring safety valve
spring sage
spring saxifrage
spring scale
spring scorpion grass
spring seat
spring snow
spring snowflake
spring starflower
spring stay
spring steel
spring stripper
spring switch
spring temper
spring the eye
spring tide
spring to your feet
spring tool
spring tooth
spring training
spring up
spring upon
spring valve
spring vetch
spring vetchling
spring vise
spring wagon
spring washer
spring water
spring weir
spring wheat
spring wheel
spring-
spring-beam
spring-blooming
spring-blossoming
spring-board
spring-born
spring-budding
spring-clean
spring-cleaner
spring-cleaning
spring-driven
spring-flood
spring-flowering
spring-framed
spring-gathered
spring-grown
spring-habited
spring-head
spring-headed
spring-heeled
spring-jointed
spring-loaded
spring-lock
spring-made
spring-peering
spring-planted
spring-plow
spring-rail frog
spring-raised
spring-seated
spring-set
spring-snecked
spring-sowed
spring-sown
spring-spawning
spring-stricken
spring-tail
spring-taught
spring-tempered
spring-tide
spring-tight
spring-tooth harrow
spring-touched
spring-trip
spring-trip hoe
spring-well
spring-wood
springer spaniel
springing cow
springing line
spur bit
spur blight
spur bunting
spur chuck
spur dike
spur forger
spur fowl
spur gall
spur gear
spur gear wheel
spur gearing
spur grass
spur mortise gear
spur on
spur pepper
spur pinion
spur pruning
spur royal
spur ryal
spur shell
spur shore
spur stone
spur timber
spur track
spur tree
spur valerian
spur whang
spur wheel
spur-bearing
spur-clad
spur-driven
spur-finned
spur-gall
spur-galled
spur-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
squander-squash
square accounts
square things
square tin
square up
square wave
square with
square with the evidence
square with the facts
square yourself with
square-John
square-barred
square-based
square-bashing
square-bladed
square-bodied
square-bottomed
square-browed
square-built
square-butted
square-cheeked
square-chinned
square-countered
square-cut
square-dancer
square-dealing
square-draw
square-drill
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-sterned
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 quar ing the circle
squarroso-
squarroso-dentate
squarroso-laciniate
squarroso-pinnatipartite
squarroso-pinnatisect
squash beetle
squash bite
squash borer
squash bug
squash court
squash flea beetle
squash ladybird
squash rackets
squash racquets
squash tennis
squash vine borer
squash-
squash-vine borer
squashed flat
squat board
squat on
squat tag
squat-bodied
squat-built
squat-hatted
squatter sovereignty
squatter's right
squaw carpet
squaw corn
squaw duck
squaw huckleberry
squaw man
squaw mint
squaw vine
squaw waterweed
squaw winter
squaw-drops
squawk box
squawk duck
squeak by
squeak through
squeal on
squegee roller
squeeze bottle
squeeze box
squeeze in
squeeze joint
squeeze out
squeeze out a living
squeeze play
squeeze shut
squeeze your hand
squeeze-box
squeeze-up
squeezed joint
squeezed shut
squeezing out
squelch circuit
squelette clock
squid hound
squid-jigger
squid-jigging
squill blue
squill-like
quinancy berry
squinch arch
squinch-eyed
squint brick
squint eyes
squint the eye
squint-eye
squint-eyed
squint-eyedness
squinting construction
squire snapper
squirm out of
squirm with embarrassment
squirm with self-consciousness
squirrel away
squirrel cage
squirrel cage rotor motor
squirrel corn
squirrel cup
squirrel food
squirrel frog
squirrel grass
squirrel hake
squirrel hawk
squirrel monkey
squirrel mouse
squirrel phalanger
squirrel plague
squirrel rifle
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
squirreltail grass
squirt can
squirt gun
squirt-fire
squiritng 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-handled
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 managemen
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
stage scenery
stage screw
stage set
stage setter
stage setting
stage show
stage technician
stage wagon
stage wait
stage whisper
stage world
stage, the
stage-blanks
stage-bleed
stage-coach
stage-frighten
stage-manage
stage-managed
stage-manager
stage-managing
stage-set
stage-struck
stagger along
stagger belief
stagger grass
stagger head
stagger on
stagger spokes
stagger wire
stagger wires
staggered head
staggering belief
staggering blow
staggering bob
staggering drunk
staghorn coral
staghorn fern
staghorn moss
staghorn sumac
staging area
staging nail
stagnant market
stagnant water
stagnant-blooded
stagnant-minded
stagnant-souled
stagnation mastitis
staight-bred
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
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 aghast
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-gauge
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
star of david
star pagoda
star pepper
star phlox
star pine
star place
star plate
star plum
star point
star polygon
star position
star quartz
star ratio
star reed
star route
star ruby
star sapphire
star saxifrage
star scout
star shake
star shell
star shifter
star shower
star skunk
star slough
star spectroscope
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-brodered
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-prying
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 thresher
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
steamship traffic
steamship travel
steamship voyage
stearic acid
stearo-
stearoyl group
stearoyl radical
steat-
steato-
steel band
steel bar
steel baron
steel blue
steel bronze
steel company
steel concrete
steel construction
steel drawer
steel dresser
steel electrotypes
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-riveted
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
steneo saurys
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 along
step aside
step backward
step bearing
step box
step by step
step chair
step cut
step dance
step dancer
step along
step aside
step backward
step bearing
step box
step by step
step chair
step cut
step dance
step dancer
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-
stereo 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 aroundor 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-itiveness
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-itiveness
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-udderred
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
stilbine color
stiletto fly
stiletto 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 footage
stock gillyflower
stock gold
stock guard
stock hawk
stock horse
stock in trade
stock insurance company
stock issue
stock ledger
stock list
stock lock
stock manipulation
stock margin
stock market
stock market quotations
stock note
stock of words
stock option
stock owl
stock pass
stock pigeon
stock pile
stock power
stock price
stock price index
stock prices
stock pump
stock purse
stock rail
stock raiser
stock raising
stock rate
stock receipt
stock record
stock room
stock saddle
stock saying
stock shot
stock soap
stock solution
stock speculation
stock speculator
stock split
stock station
stock still
stock tackle
stock the mind
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
stoech-
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-qualified
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 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-floor
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-wall
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-heartenedness
stony-jointed
stony-pitiless
stony-toed
stony-winged
stooe around
stool ball
stool end
stool land
stool pigeon
stool-ball
stoo-gallant
stoo-shouldered
stooping from your high place
stop at nothing
stop bath
stop bead
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 inor 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-wrecked
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-girded
stout-hearted
stout-heartedly
stout-heartedness
stout-legged
stout-limbed
stout-looking
stout-minded
stout-ribbed
stout-sided
stout-soled
stout-stalked
stout-stomached
stout-winged
stout-worded
stove black
stove bolt
stove coal
stove distillate
stove enamel
stove glass
stove heating
stove in
stove length
stove lifter
stove oil
stove plant
stove poker
stove polish
stove-dried
stove-heated
stove-pipe
stove-warmed
stoved salt
stovepipe hat
stow away
stow down
stow it
stow net
stow-blade
stow-boating
straddle carrier
straddle mill
straddle pipe
straddle the fence
straddle truck
straddle-face
straddle-fashion
straddle-legged
straggle tooth
straggle-brained
stragling money
straight accent
straight across
straight ahead
straight and narrow
straight and narrow, the
straight angle
straight arch
straight arm lift
straight as a ruler
straight as an arrow
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-cut
straight-drawn
straight-edge
straight-edged
straight-faced
straight-falling
straight-fibered
straight-flung
straight-flute
straight-fluted
straight-from-the-shoulder
straight-front
straight-going
straight-grained
straight-growing
straight-grown
straight-haired
straight-hairedness
straight-hemmed
straight-horned
straight-jointed
straight-laced
straight-lacedly
straight-leaved
straight-legged
straight-limbed
straight-line
straight-line-frequency
straight-lined
straight-made
straight-minded
straight-necked
straight-nosed
straight-out
straight-pull
straight-ribbed
straight-shaped
straight-shooting
straight-side
straight-sided
straight-sliding
straight-spoken
straight-stemmed
straight-stocked
straight-tail dog
straight-tailed
straight-thinking
straight-trunked
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-embroveled
straw-hatted
straw-laid
straw-necked
straw-plaider
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 fleabed
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
strobe light
strobe 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-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 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
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 ass
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
styyour throw
styptic pencil
styrally 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-
subhymenial 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 ducem 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
suffering dread
suffering from amnesia
suffering nausea
suffice to yourself
sufficient condition
sufficient for
sufficient to
sufficient unto
suffused with light
sugar almond
sugar ant
sugar apple
sugar ash
sugar bag
sugar baker
sugar bakery
sugar basin
sugar bean
sugar beet
sugar bird
sugar bowl
sugar brake
sugar bush
sugar cake
sugar camp
sugar candy
sugar cane
sugar cookie
sugar corn
sugar daddy
sugar diabetes
sugar engineering
sugar fish
sugar glider
sugar grape
sugar grass
sugar grove
sugar gum
sugar jack
sugar jack process
sugar loaf
sugar maker
sugar making
sugar maple
sugar mill
sugar mite
sugar mule
sugar nippers
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
suit the time
suit yourself
suit-dress
suitable for
suitable occasion
suitable time
suite of dances
suite of rooms
sujee-mujee
suji-muji
sulcato-
sulf-
sulfa drug
sulfa drugs
sulfanilic acid
sulfanilyl radical
sulfate paper
sulfate process
sulfate pulp
sulfide dye
sulfinyl group
sulfinyl radical
sulfite paper
sulfite process
sulfite pulp
sulfo group
sulfo radical
sulfonic acid
sulfuryl chloride
sulfur black
sulfur butterfly
sulfur dioxide
sulfur dye
sulfur trioxide
sulfur-bottom
sulfur-bottom whale
sulfur-colored
sulfur-flower
sulfur-yellow
sulfurated potash
sulfureted hydrogen
sulfuric acid
sulfuric anhydride
sulfuric ether
sulfurous acid
sulfurifted potash
sulfuryl chloride
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-blanch
summer-breathing
summer-brewed
summer-bright
summer-cloud
summer-dried
summer-fallow
summer-fed
summer-felled
summer-flowering
summer-grazed
summer-house
summer-leaping
summer-like
summer-lived
summer-loving
summer-made
summer-ripening
summer-seeming
summer-shrunken
summer-staying
summer-stir
summer-stricken
summer-sweet
summer-swelling
summer-threshed
summer-tide
summer-tilled
summer-time
summer-up
summer-weight
summing register
summing up
summing-up
summit canal
summit conference
summit level
summit yard
summit-level canal
summon forth
summon spirits
summon up
summon up courage
summons case
summons of death
summons-proof
summum bonum
summum genus
summum jus
sump cut
sump fuse
sump pit
sump pump
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-begotten
sun-blackened
sun-blanchened
sun-blanched
sun-blind
sun-blistered
sun-blown
sun-born
sun-bred
sun-bright
sun-bringing
sun-broad
sun-bronzed
sun-brown
sun-browned
sun-clear
sun-confronting
sun-courted
sun-cracked
sun-crowned
sun-cure
sun-cured
sun-dazzling
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
suō jure
suō 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
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suppurative inflammation
supra-
supra-abdominal
supra-acromial
supra-aerial
supra-anal
supra-angular
supra-arytenoid
supra-auditory
supra-auricular
supra-axillary
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
suraanal 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
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sure-refuged
sure-seeing
sure-set
sure-settled
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sure-steeled
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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
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surf-vexed
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surf-worn
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surface appearance
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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
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surface-active agent
surface-bent
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surface-coated
surface-damaged
surface-deposited
surface-dressed
surface-dry
surface-dwelling
surface-feeding
surface-hold
surface-printing
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surface-scratching
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surface-to-surface
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surfeit water
surfeit-gorged
surfeit-slain
surfeit-swelled
surfeit-swollen
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surge chamber
surge gap
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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
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surplice fee
surplus state
surplus value
surplus- age
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surprise ending
surprise package
surprise party
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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
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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
suspensive veto
suspensory ligament
suspensory 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
cswamp 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-poorn
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
swell out
swell pedal
swell piece
swell shark
swell the ranks of
swell with emotion
swell-
swell-butted
swell-front
swell-headed
swell-headedness
swell-mobsman
swelled head
swelled-gelatin
swelled-gelatin process
swelled-headed
swelled-headedness
swelling utterance
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swept-back
swept-forward
swift as an arrow
swift boat
swift fox
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
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-
swinging bar
swinging boom
swinging both ways
swinging basin
swinging compass
swinging door
swinging post
swinging ring
swinging toward
swinging voter
swingle staff
swingle tow
swingle-
swinging to
swinish gluttony
swinish 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
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sword-armed
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sword-girt
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sword-play
sword-shaped
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swordfish sucker
sworn and affirmed
sworn enemy
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swot up
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sycamore anthracnose
sycamore fig
sycamore maple
sycee silver
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syenitic gneiss
syllabic accent
syllabic character
syllabic meter
syllabic nucleus
syllabic peak
syllabic symbol
syllable name
syllogistic reasoning
sylvan deity
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sym-
symbol-using animal
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symmetric difference
symmetric function
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symmetric matrix
symmetric polynomial
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symmetry class
symmetry element
symmetry plane
sympathetic chord
sympathetic contact
sympathetic ink
sympathetic introspection
sympathetic ma
sympathetic magic
sympathetic nervous system
sympathetic ophthalmia
sympathetic response
sympathetic strike
sympathetic string
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sympathize with
sympathy strike
symphonic conductor
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symphonic music
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symphony band
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symptom complex
symptomatic anthrax
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syn-
synaposematic mimicry
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synchronic linguistics
synchronized shifting
synchronizing generator
synchronizing pulse
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synchronizing signal
synchronous converter
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syncopated music
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synectics group
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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
tRNA
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
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table tomb
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table work
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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
tables of the memory	taboo language
taboo word	tabor pipe
tabs of
tabs on	tabucki grass	tabula rasa	tabular iceberg	tacca arrowroot	tacheo-
tachina fly
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
tacnode Rare	
tactical air force
tactical bombing
tactical evolutions
tactical maneuvers
tactical nuclear weapons
tactical plan
tactical police
tactical unit
tactical support 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
tail group
tail gunner
tail hook
tail house
tail in a gate
tail joist
tail lamp
tail lock
tail off
tail pipe
tail pit
tail plane
tail print
tail rhyme
tail rod
tail rope
tail rotor
tail set
tail shaft
tail skid
tail slide
tail spin
tail spindle
tail stinger
tail tackle
tail unit
tail water
tail wheel
tail wind
tail-board
tail-chasing
tail-cropped
tail-decorated
tail-docked
tail-end
tail-glide
tail-heavy
tail-high landing
tail-joined
tail-low landing
tail-piece
tail-pipe burner
tail-race
tail-rhymed
tail-rope
tail-switching
tail-tied
tail-wagging
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 at
take 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
taxe shape
taxe shelter
taxe ship
taxe short
taxe sick
taxe sides
taxe sides with
taxe silk
taxe snuff
taxe some doing
taxe something in your stride
taxe soundings
taxe steps
taxe steps and measures
taxe stock
taxe stock in
taxe stock of
taxe ten
taxe the Lord's name in vain
taxe the air
taxe the air line
taxe the attitude
taxe the average
taxe the back track
taxe the bait
taxe the ball on the rebound
taxe the bit in
taxe the bit in the teeth
taxe the bit in your teeth
taxe the bite out
taxe the blame
taxe the breath away
taxe the bull by the horns
taxe the cake
taxe the chair
taxe the chance
taxe the chances of
taxe the chill off
taxe the consequences
taxe the count
taxe the cross
taxe the cure
taxe the dimensions of
taxe the edge off
taxe the edge off of
taxe the fancy of
taxe 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
talent money
talent scout
talent show
talented person
talha 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-talky
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-elled
tall-growing
tall-looking
tall-masted
tall-master
tall-necked
tall-pilled
tall-sceptered
tall-sitting
tall-spired
tall-stalked
tall-stemmed
tall-trunked
tall-tussocked
tall-wheeled
tallith katan	allow bayberry	allow candle	allow catch	allow chandler	allow chandlery	allow chandling	allow cooler	allow crackling	allow cup	allow 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

tallow-white

tally board

tally card

tally clerk

tally iron

tally of

tally plan

tally room

tally sheet

tally shop

tally stick

tally trade

tally up

tally walk

tally with

tally-ho

tallyho back

tallyho coach

tallyho over

talmi gold

talon-tipped

tam o' shanter
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	angible assets
tangle picker
tangle up with
tangle with	angle-haired	angle-headed	angle-legs
tangle-tail
tangle-tailed	angled in	angled skein	ank car	tank circuit	tank corps	tank corpsman	tank crewman	tank destroyer	tank dome	tank drama	tank driver	tank engine	tank farm	tank farming
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
tap-off
tap-pickle
tap-room
tap-root
tap-tap
tap-tap-tap
tapa cloth	
tape cartridge
tape cassette
tape deck
tape fern
tape grass
tape machine
tape measure
tape memory
tape needle
tape player
tape price
tape reader
tape reading
tape recorder
tape recording
tape sizer
tape sizing
tape thermometer
tape-bound
tape-grass family
tape-printing
tape-record
tape-slashing
tape-tied
tape-tying
taped program
taped show	
taper drill
taper file
taper gauge
taper jack
taper mandrel
taper off
taper pin
taper pipe thread
taper reamer	
taper reducer sleeve
taper tap
taper to a point
taper tool	
taper-bored	
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
tapsal-teerie
tapsie-teerie	
tar acid
tar and feather
tar baby
tar base
tar boy	
tar bucket
tar camphor
tar cancer
tar concrete	
tar distillate
tar distiller
tar drum

tar kettle	
tar macadam
tar number

tar oil
tar on
tar paper

tar pavior
tar pool
tar putty
tar sand
tar soap
tar spot
tar sprayer
tar still
tar water
tar well
tar-and-feathering
tar-barrel
tar-bedaubed
tar-bind
tar-black
tar-boiling
tar-brand
tar-brush
tar-burning
tar-clotted
tar-coal
tar-dipped
tar-heating
tar-laid
tar-paint
tar-paved
tar-removing
tar-roofed
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 anounty	
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
tariff treaty
tariff wall
tariff-born
tariff-bound
tariff-fed
tariff-protected
tariff-raised
tariff-raising
tariff-reform
tariff-regulating
tariff-ridden
tariff-tinkering
tariff-wise
tarn-brown
tarpaulin muster
tarpaulin-covered
tarpaulin-lined	
tarragon oil
tarragon vinegar	
tarred with the same brush	
tarry for	
tarry-breeks
tarry-fingered
tarry-jacket
tarrying irons
tarso-
tarso-metatarsal
tarso-metatarsus
tarso-orbital
tart up
tartan velvet
tartan-purry
tartar emetic
tartar sauce
tartar steak
tartar yeast
tartare sauce
tartare steak
tartaric acid
tartro-
task force
task group
task the mind with
task time
task wage
task with
task-work
tasmanian devil
tasmanian wolf	tassel bush
tassel flower
tassel grass
tassel hand
tassel hyacinth
tassel mold
tassel plant
tassel pondweed
tassel stitch
tassel tree
tassel weaver
tassel-hung	taste beaker	taste blood	taste bud	taste bulb	taste cell	taste cup	taste goblet	taste good	taste hair
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-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	axable land	axable property	axi dancer	axi driver	axi horn	axi radar	axi strip	axi truck	axi-bordered	axi-cab	aximeter cab	ch ch
tcheck out
t deum
t eigitur
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 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-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
 teak-brown
 teak-built
 teak-complexioned
 teak-lined
 teak-producing
 teal blue
 teal duck
 teal 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-
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tear-wrung
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tearing down
tearing out
tearing passion
tearing up root and branch
tease out
tease tenon
tease up
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teasel cutter
teasel family
teasel frame
teasel gourd
teasel grower
teasel merchant
teasel packer
teasel sorter
 teaser artist
 teaser curtain
 teat cup
tease 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
teil tree
teind boll
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tele-
tele-action
tele-iconograph
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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
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telegraph instrument
telegraph insulator
telegraph jack
telegraph key
telegraph laborer
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telegraph mechanic
telegraph messenger
telegraph operator
telegraph plant
telegraph pole
telegraph protector
telegraph recorder
telegraph recorders
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telegraph sounder
telegraph superintendent
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telegraph tubing
telegraph wire
telegraph wireman
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teleological proof
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telepathic hallucination
telepathic transmission
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telephone area
telephone arm
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telephone bell
telephone book
telephone booth
telephone box
telephone cabinet
telephone cable
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telephone case
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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
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telephone table
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telephone terminal
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telescope shell
telescope sight
telescope stack
telescope table
telescope tube
telescope word
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telescopic sight
telestial kingdom
television audience
television broadcast
television camera
television channel
television drama
television engineer
television mast
television play
television radar air navigation
television receiver
television receiver parts
television reception
television relay
television set
television show
television station
television studio
television technician
television transmission
television transmitter
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
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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
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tempestuous wind
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template jig
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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
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tempo primo
tempo rubato
tempo turn
temporal bone
temporal hour
temporal lobe
temporal summation
temporary arrangement
temporary duty
temporary employee
temporary expedient
temporary life annuity
temporary lodger
temporary measure	
tempero-
temps lie
tempt Providence
tempt fortune
tempt the appetite
temptation-proof
temps edax rerum
temps fugit
ten best-dressed
ten cents
ten commandments
ten million
ten o’clock
ten strike
ten thousand
ten to one
ten-
ten-a-penny
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ten-acred
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ten-barreled
ten-bore
ten-cell
ten-cent
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ten-coupled
ten-course
ten-cylindere
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ten-footed
ten-forties
ten-gallon hat
ten-gauge
ten-grain
ten-guinea
ten-headed
ten-horned
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
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 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
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tender-boweled
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tender-skinned
tender-souled
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tender-tempered
tender-witted
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tendinous arch
tendon reflex
tendon sense
tendril climber
tendril-climbing
tene-bricose
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tenement district
tenement house
tenement of clay
tennessee walking horse
tennis ball
tennis bum
tennis court
tennis elbow
tennis marker
tennis play
tennis player
tennis playing
tennis racket
tennis shoe
tennis shoes
tennis-ball
tennis-court
tennis-play
teno-
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	
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tense logic
tense phrase
tense readiness
tense-drawn
tense-eyed
tense-fibered
tensile strength
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tension element
tension fatigue
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tension rod
tension roller
tension zone
tent bed
tent caterpillar
tent dress
tent fly
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tent pegger
tent pegging
tent pin
tent pole
tent show
tent stake
tent stitch
tent stripe
tent tree
tent worm
tent-clad
tent-dotted
tent-dwelling
tent-fashion
tent-fly
tent-peg
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tent-stitch
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tentative method
tentative poke
tentatively suggest
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tenth's place
tenth-rate
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tenure by free alms
tenure in chivalry
tenure in free alms
tenure in office
tenure of office
teo-nong
tepary bean
ter-
ter-equivalent
ter-sacred
ter-sanctus
tera-
tera hat
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tercel-gentle
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terbinic acid
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tereti-
tergo-
term attendant
term day
term fee
term hour
term insurance
term loan
term of imprisonment
term paper
term policy
term rate
term settlement
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terminal case
terminal date
terminal figure
terminal leave
terminal market
terminal moraine
terminal point
terminal speed
terminal velocity
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terminus ad quem
termite-proof
terms of trade
tern schooner
tern-plate
ternary form
ternate-pinnate
terne metal
terne plate
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terpin hydrate
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terra alba
terra cariosa
terra catechu
terra cotta
terra damnata
terra firma
terra foliata
terra incognita
terra japonica
terra miraculosa
terra muriatica
terra orellana
terra pinguis
terra ponderosa
terra porcellanea
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terra rosa
terra rossa
terra salitrosa
terra sienna
terra sigillata
terra umbra
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terra-cotta
terra-cotta lumber
terrace maker
terrace-banked
terrace-fashion
terrace-mantling
terrace-steepled
terraced house
terae filii
terae 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
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terrestrial guidance
terrestrial kingdom
terrestrial planet
terrestrial telescope
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terror-weakened
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terry cloth
tersy-versy
tertia tone
tertiary college
tertiary color
tertiary stress
tertiary syphilis
terium quid
terus-tero
terza rima
tesla coil
tessara-
test act
test animal
test ban
test bar
test blank
test bow
test boy
test case
test clerk
test cutter
test driver
test flight
test frame
test furnace
test game
test glass
test height
test hop
test house
test indicator
test instrument vehicle
test kitchen
test lead
test man
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textus receptus
th-
thalamo-
thalamo-olivary
thall-
thallous sulfate
thallium oxysulfide
thalloid shoot
thallium sulfate
thalofide cell
thallous sulfate
thanato-
thanato-
thank God
thank offering
thank you
thank you kindly
thank your stars
thank-offering
thank-you
thank-you-ma'am
thank-you-maam
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
don't overcontinent
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
thatch cloak
thatch grass
thatch palm
thatch peg
thatch pin
thatch rake
thatch rod
thatch tree
thatch-browed
thatch-headed
thatch-roofed
thatched roof
thaumato-
thaw out
thaw-drop
the Abbey
the Absolute
the Absolute Being
the Absolute Idea
the Academy
the Acropolis
the Adjutant General
the Admiralty
the Adversary
the Advocate
the Air Pump
the All-father
the All-holy
the All-knowing
the All-merciful
the All-powerful
the All-wise
the Almighty
the Altar
the Americas
the Anointed
the Antarctic
the Apocalypse
the Arch-fiend
the Archer
the Archipelago
the Arctic
the Argentine
the Arrow
the Ascension
the Assumption
the Author of Evil
the Axis
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
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<th>the Dirae</th>
<th>the Directory</th>
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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
the big smoke
the big stick
the big time
the big top
the bird
the biter bit
the black art
the blahs
the blaze of noon
the blessed
the blind
the blind leading the blind
the block
the blood of life
the bludgeon
the blue
the blue planet
the blue serene
the blues
the boards
the book
the boondocks
the boot
the boot in the face
the border
the bosom of our rest
the bottle
the bottom line
the bottomless pit
the bounce
the bounding main
the boyhood of the year
the brandy of the damned
the brass
the brave
the breaks
the brine
the briny
the briny deep
the brush
the bubble reputation
the buff
the bum's rush
the bunch
the burning tapers of the sky
the bush
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
the couch
the count
the country
the courage of your convictions
the course of events
the courts
the cradle
the creed
the creeps
the cricket no relief
the crippled
the crowd
the crown
the crown of life
the cud
the cunning of the serpent
the cup
the cup that cheers
the curse
the curse of Eve
the daily round
the 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
defeated
depth
depths
desk
details
devil you say
device and all
deil and the deep blue sea
deil to pay
deil you say
devoirer of things
die is cast
dim past
direct opposite
disadvantaged
dismal science
dismals
dispossessed
distance
distressed
dizzy rounds
doldrums
dolefuls
domain of the impossible
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 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 immortals
the impossible
the in thing
the incalculable
the individual
the ineffable
the inenarrable
the inexpressible
the infirm
the information
the ingroup
the inner circle
the ins
the intelligent
the intense inane
the interests
the intrinsic truth
the invisible
the iron entering the soul
the irrevocable Past
the jackboot
the jaundice of the soul
the jerks
the jig is up
the jimjams
the journey's end
the jumps
the kibosh on
the king of terrors
the knife
the know
the knowing
the koine
the lam
the lambent easy light
the lame
the last extremity
the last refuge of a scoundrel
the last straw
the last thing civilized by man
the last thing you expect
the last word
the latest
the latest thing
the latest wrinkle
the latter end
the law
the law of the jungle
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
the microscope of the judgment
the middle of nowhere
the middle years
the mighty
the military
the millennium
the million
the mind's immodesty
the ministry
the minor deities
the minority
the minors
the mirror image
the mirror of all courtesy
the mirror of the soul
the mob
the moon
the moon personified
the more it changes
the more it's the same thing
the mores
the morn
the morrow
the mosaic of the Air
the most
the mother of devotion
the mother of prejudice
the movies
the multitude
the mundane
the music of the soul
the music of the spheres
the mystic wine of Night
the mystical jewels of God
the naked ape
the naked truth
the native hue of resolution
the nature of the beast
the nature of things
the necessary
the neck up
the needful
the needle
the needy
the negative
the new look
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 blusses
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 quick and the dead
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 top
the top of your bent
the tops
the touch
the toy of fortune
the trade of kings
the tragic
the transgression of the law
the treadmill
the treasury of everlasting joy
the tribute due unto nature
the tropics
the trots
the true
the true church
the truth
the truth of the matter
the tullies
the turf
the two
the unalloyed truth
the unconscious
the undead
the underground
the underprivileged
the undersigned
the understanding
the underworld
the unemployable
the unemployed
the underprivileged
the unforeseen
the unholy
the unique
the universal sovereign
the unknowable
the unknown
the unlooked-for
the unqualified truth
the unrighteous
the unrolled scroll of prophecy
the unseeing
the unseen
the unspeakable
the unutterable
the unvarnished truth
the unwritten law
the urban poor
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
teatre-in-the-round
theatrical agent
theatrical makeup
theatrical performance
theatrical season
theatro-
theco-
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-bosomed
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-girded
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-spreading
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-featureed
thin-film
thin-flanked
thin-fleshed
thin-flowing
thin-frozen
thin-fruitied
thin-grown
thin-haired
thin-headed
thin-hipped
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-
thion-
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-ringled
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-twinning
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-abhorrering
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
thread spinner
thread splicer
thread spooler
thread tangle
thread winder
thread your way
thread-cutting
thread-leaved
thread-legged
thread-legged bug
thread-lettered
thread-line fishing
thread-marked
thread-measuring
thread-mercerizing
thread-milling
thread-needle
thread-paper
thread-shaped
thread-the-needle
thread-waisted
thread-winding
thread-worn
threaded glass
threader-up
threading lathe
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-mouthed
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-pint
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-ringed	hree-ring circus
three-roll
three-room
three-roomed
three-row
three-rowed
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-step
three-step rocket
three-sticker
three-storied
three-story
three-strand
three-stranded
three-stringed
three-stripped
three-stripper
three-styled
three-suited
three-syllable
three-syllable law
three-syllabled
three-tailed
three-thorned
three-thorned acacia
three-thread
three-throw
three-tie
three-tie joint
three-tier
three-tiered
three-time
three-tined
three-toed
three-toed woodpecker
three-toes
three-ton
three-tongued
three-toothed
three-toothed cinquefoil
three-torque
three-tripod
three-up
three-valued
three-valved
three-volume
three-way
three-way receiver
three-way spread
three-way switch
three-wayed
three-week
three-weekly
three-wheeled
three-wheeler
three-winged
three-wire
three-wire cable
three-wire generator
three-wire system
three-wive
three-woods
three-wormed
three-year
three-year-old
three-years
threefold block
threefold purchase
threefold 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
thrifty person
thrill killer
thrill of fear
thrill seeker
thrill to
thrill-crazed
thrill-exciting
thrill-less
thrill-pursuing
thrill-sated
thrill-seeking
thriller-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
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
through-shoot
through-splint
through-stone
through-swim
through-thrill
through-toll
through-tube
through-tube boiler
throughout the ages
throughout the course of
throughout the world
throw a curve
throw a curve ball
throw a fight
throw a fit
throw a game
throw a lot of weight
throw a party
throw a pass
throw a pot
throw a scare into
throw a sop to
throw a stone at
throw a wet blanket on
throw a whammy
throw a wrench in the machinery
throw about
throw at
throw away
throw away the opportunity
throw away the prepared text
throw away the scabbard
throw away the speech
throw back
throw blind fear into
throw cold water on
throw doubt upon
throw down
throw down the gage
throw down the gauntlet
throw down the glove
throw down your arms
throw downstairs
throw dust in your eyes
throw forth
throw good money after bad
throw in
throw in prison
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-stick
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 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-split
thunder-splitter
thunder-splitting
thunder-stone
thunder-storm
thunder-teeming
thunder-throwing
thunder-thwarted
thunder-tipped
thunder-tongued
thunder-voiced
thunder-wielding
thunderstorm cirrus
thus and so
thus and thus
thus far
thus far and no farther
thwacking frame
thwacking horse
thwacking knife
thwacking stool
thwaite shad
thwart motion
thwart-marks
thwart-ship
thwartwise motion
thy name is woman
thy nature's weakness
thyine wood
thym-
thyme camphor
thyme dodder
thyme oil
thyme-capped
thyme-fed
thyme-flavored
thyme-grown
thyme-leaved
thyme-scented
thymeric acid
thymo-
thymol blue
thymonucleic acid
thymus death
thymus gland
thymus histone
thyr-
thyr- 
thyro-
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 doleru
tick farcy
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-tossed
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
tiller bow
tiller chains
tiller lines
tiller of the soil
tiller rope
tilleul green
tilly-fally
tilly-vally	ill 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
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 and a half
time and again
time and motion
time and motion study
time and time again
time at bat
time at your command
time at your disposal
time azimuth
time ball
time bargain
time belt
time bill
time bomb
time book
time capsule
time card
time chart
time charter
time charter party
time clerk
time clock
time constant
time constants
time control
time copy
time delay
time deposit
time derivative
time detector
time discount
time draft
time drawing on
time enough
time error
time exposure
time fire
time flies
time fuse
time globe
time gun
time hanging on your hands
time hit
time immemorial
time in
time interval
time just ahead
time killer
time lag
time lamp
time lead
time limit
time loan
time lock
time machine
time marches on
time measurement
time money
time note
time of day
time of life
time of year
time of your life
time off
time on your hands
time out
time out of mind
time out of time
time pattern
time policy
time-binding
time-blackened
time-blanched
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-ending
time-expired
time-exposure
time-fused
time-gnawn
time-halting
time-hastening
time-honored
time-honored practice
time-honoured
time-interval meter
time-keeper
time-killing
time-lag
time-lapse
time-lapse photography
time-lasting
time-limit
time-marked
time-measuring
time-mellowed
time-motion study
time-noting
time-out
time-pressed
time-rent
time-rusty
time-saver
time-saving
time-scarred
time-served
time-server
time-serving
time-sharing

time-shrouded

time-space

time-spirit

time-table

time-taught

time-temperature

time-temperature curve

time-tested

time-tried

time-wasted

time-wasting

time-wearied

time-white

time-withered

time-worn

timeo Danaos et dona ferentes

times of old

times of yore

times past

times without number

times, the

timing chain

timing gears

timing pulse

timing screw

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	inder fungus	inder-cloaked	inder-dry	inea barbae	ting ware	ting-a-ling	tingle with excitement	inhorn 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-slipperened
   tint block
   tint for tant
   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-curlered
   tip-eared
   tip-finger
   tip-in
   tip-off
   tip-on
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
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 smitherens
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
/toacco addiction
/toacco bagger
/toacco barn
/toacco 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
tobacco machinery
tobacco mildew
tobacco molder
tobacco mosaic
tobacco mosaic virus
tobacco panner
tobacco pipe
tobacco pouch
tobacco press
tobacco rack
tobacco retainer
tobacco road
tobacco roller
tobacco shaver
tobacco shed
tobacco shop
tobacco smoker
tobacco smoking
tobacco sprayer
tobacco spreader
tobacco stick
tobacco stopper
tobacco store
tobacco stripper
tobacco thrips
tobacco tongs
tobacco twister
tobacco user
tobacco water
tobacco wilt
tobacco worm
tobacco-abusing
tobacco-box
tobacco-box skate
tobacco-breathed
tobacco-growing
tobacco-pipe
tobacco-pipe clay
tobacco-plant
tobacco-sick
tobacco-smoking
tobacco-stained
tobacco-stemming	
tobin's tube
tobira family
toboggan cap	
toboggan slide
tobosa grass
toby jug
toc-toe
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
topt-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
toire de jouy
toilet article
toilet atomizer
toilet bottle
toilet bowl
toilet brush
toilet cabinet
toilet case
toilet cloth
toilet cup
toilet glass
toilet goods
toilet hardware
toilet mirror
toilet paper
toilet powder
toilet room
toilet seat
toilet service
toilet set
toilet soap
toilet sponge
toilet table
toilet tissue
toilet training
toilet water
toiling class
toison d'or
tok-tokkie
token book
token coin
token gesture
token money
token of esteem
token of remembrance
token payment
token punishment
token ring
token sheet
token silver
token strike
token vote
token-money
tol de rol
tol-
tol-de-rol
tol-lol
tol-lol-de-rol
tol-lol-lish	
tolerance limits
toll agent
toll bait
toll bar
toll board
toll bridge
toll call
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 gall
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 scalding
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-robber
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-baited

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
tool press
tool rack
tool reclamer
tool regrinding
tool repairer
tool rest
tool roll
tool set
tool sharpener
tool shed
tool shop
tool socket
tool spindle
tool stamper
tool stand
tool steel
tool storekeeper
tool subject
tool table
tool temper
tool tray
tool treating
tool truck
tool turner
tool wagon
tool whetter
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
tothing 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-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
torrent of Tantalus
torrentor wing
torn-down
tornado belt
tornado cellar
tornado cloud
tornado insurance
tornado lamp
tornado lantern
tornado-breeding
tornado-haunted
tornado-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-borne
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
toro 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	osh 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	otty-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
tournaline pink
tournaline 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
tow sack
tow team
tow truck
tow wheel
tow-colored
tow-coloured
tow-feeder
tow-haired
tow-headed
tow-line
tow-made
tow-net
tow-netter
tow-netting
tow-path
tow-pung
tow-rope
tow-row
tow-spinning
towel gourd
towel horse
towel rack
towel rail
tower above
tower away
tower bastion
tower bolt
tower cap
tower chime
tower clock
tower cress
tower hill
tower house
tower light
tower mustard
tower of Pisa
tower of silence
tower of strength
tower over
tower owl
tower pound
tower projector
tower shell
tower stamp
tower telescope
tower wagon
tower window
tower-bearing
tower-capped
tower-crested
tower-crowned
tower-dwelling
tower-encircled
tower-flanked
tower-high
tower-mill
tower-razing
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
town-made
town-major
town-meeting
town-pent
town-planning
town-sick
town-talk
town-tied
town-trained
town-weary
townhall clock
township line
township road
towrope horsepower
tox-
toxic goiter
toxic inflammation
toxic psychosis
toxic shock syndrome
toxic-
toxic-
toxin-anatoxin
toxin-antitoxin

**toxin-antitoxin immunity**

toxin-antitoxin immunization

toxo-
toxophore group

**toy dog**

toy manchester

toy poodle

toy shop

toy soldier

toy spaniel

toy terrier

toy with

toy-loving

toy-shop

toy-sized

tr-ties

tra-la

tra-la-la

trace buckle

trace chain

trace connector

trace down

trace element

trace fastener

trace holder

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
track map
track mark
track meet
track of
track oven
track punch
track race
track record
track road
track rod
track roller
track scale
track shim
track shoe
track shot
track spike
track sports
track sprocket
track suit
track switch
track tank
track tool
track wrench
track-
track-and-field
track-clearing
track-laying
track-mile
track-walking
tracked vehicle
tracker action
tracker bar
tracker-action organ
tracking down
tracking shot
tracking station
trackless trolley
tract index
tract of time
traction engine
traction fiber
traction sprayer
traction wheel
traction-engine
tractive effort
tractive power
tractor airplane
tractor airscrew
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-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
trammell net
trammell wheel
trammel-net
tram pick
tramp ship
tramp steamer
tram down
tramle in the dust
tram on
tram out
tram under foot
tram underfoot
tram upon
trampling down
transe speaking
transe state
transe 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-Tiberian
trans-Ural
trans-Uralian
trans-Volga
class-border
class-continental
class-etherian
class-frontier
class-oceanic
class-pacific
class-shape
class-shift
class-sonic
class-subjective
classact business
classact 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
transient cause
transient guest
transient lodging
transient state
transistor circuit
transistor hearing aid
transistor physics
transistor radio
transit camp
transit certificate
transit circle
transit compass
transit department
transit duty
transit floater
transit instrument
transit pass
transit prism
transit privileges
transit rot
transit station
transit theodolite
transit time
transition curve
transition element
transition fit
transition form
transition mission
transition point
transition probability
transition sound
transition strip
transition temperature
transition tint
transitive verb
transitive visit number
transitory action
translate into
translate into action
translating roller
translation of axes
translucent things
transmigration of souls
transmission bands
transmission belting
transmission cable
transmission case
transmission chain
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
tрансоеаnic 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
transom stern
transom window
transom-stered
transonic barrier
transparent color
transparent item
transparent substance
transparent things
transpartisan leadership
transpersonal therapy
transphysical science
transpiration current
transport caf
transport number
transport rider
transport riding
transport ship
transport vessel
transportation corps
transportation engineer
transportation insurance
transportation map
transporter bridge
transposed conjug
transposed conjugate
transposed matrix
transposing instrument
transposition cipher
transposition method
transsonic speed
transverse colon
transverse flute
transverse magnification
transverse presentation
transverse process
transverse section
transverse vibrations
transverse wave
trap bat
trap bat and ball
trap brilliant
trap bushing
trap car
trap clamp
trap cleaner
trap cover
trap crop
trap cut
trap door
trap driver
trap drummer
trap fisher
trap hatch
trap lever
trap line
trap match
trap nest
trap net
trap on the ropes
trap play
trap screw
trap shot
trap stair
trap tree
trap tuff
trap vent
trap weir
trap window
trap-ball
trap-cut
trap-door
trap-door spider
trap-nester
trapeze artist
trapeze dress
trapezoid ligament
trapezoidal rule
trash bag
trash barrel
trash can
trash farming
trash gatherer
trash ice
trash pile
trash shield
trash turner
traumatic epilepsy
traumatic fever
traumatic inflammation
traumatic memory
traumatic neurosis
traumatic shock
traumatic trace
traumato-
travail and bring forth
travel agency
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
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  
tray agriculture  
tray boy  
tray cloth  
tray conveyer  
tray elevator  
tray emptier  
tray filler  
tray frame  
tray handle  
tray maker  
tray table  
tray-shaped  
tray-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 trimmer
tree trunk
tree veld
tree violet
tree viper
tree wax
tree wool
tree wormwood
tree worship
tree worshiper
tree yucca
tree-banding
tree-bordered
tree-boring
tree-clad
tree-climbing
tree-covered
tree-creeper
tree-crowned
tree-dotted
tree-dwelling
tree-embowered
tree-feeding
tree-fern
tree-form frame
tree-fringed
tree-garnished
tree-girt
tree-god
tree-goddess
tree-goose
tree-great
tree-haunting
tree-hewing
tree-inhabiting
tree-lined
tree-living
tree-locked
tree-loving
tree-marked
tree-moss
tree-planted
tree-pruning
tree-ripe
tree-run
tree-runner
tree-sawing
tree-shaded
tree-shaped
tree-skirted
tree-sparrow
tree-spraying
tree-surgeon
tree-toad
tree-top
trefoiled 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
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 aldeh
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
trick-or-treater
tricked out
trickle away
trickle charge
trickle charger
trickle-down theory
tricks of the trade
tricky spot
tricolor camera
tricot stitch
tricuspid insufficiency
tricuspid stenosis
tricuspid valve
tricyanic acid
tridarn cupboard
trident bat
trident-shaped
tridymite-trachyte
tried and true
tried-and-trueness
triethyl orthoformate
trifacial neuralgia
trifid foot
trifle away
trifle away time
trifle with
trifle with the truth
trifles light as air
trifling amount
trifling matter
trifoliate orange
trig loop
trig up
trigeminal nerve
trigeminal neuralgia
trigesimo-secundo
trigger a mine
trigger circuit
trigger finger
trigger guard
trigger hair
trigger man
trigger mechanism
trigger plant
trigger pulse
trigger tube
trigger-happy
trigger-men
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
trimming punch
trimming store
trimming tab
trimming tank
trine immersion
trinitro-
trinity column
trinity field
trinity lily
trinity violet
trinkum-trankum
trinomial name
trio sonata
triode-heptode
trip catch
trip charter party
trip dial
trip die
trip dog
trip engine
trip gear
trip hammer
trip hook
trip line
trip money
trip over your own feet
trip over your tongue
trip piece
trip pin
trip rate
trip shaft
trip slip
trip system
trip the light fantastic
trip to Mars
trip to the moon
trip train
trip up
trip-free
trip-hammer
trip-madam
trip-toe
tripartite and pretty
tripe de roche
tripe dresser
tripe seller
tripe-de-roche
tripe-eating
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
tripping link
tripping relay
tripping transformer
trippingly on the tongue
trismus cynicus
trisodium phosphate
tristimulus computer
tristimulus values
trit-trot
trite expression
trite joke
trite saying
trito-
triumph over
triumphal arch
trivalent carbon
trivet table
trivial affair
trivial name
trobar clus
trocar-shaped
trochlear nerve
trocho-
trodden flat
troilus butterfly
trois point
trojan horse
trojan war
troll plate
troll-drum
troll-madam
trolley attendant
trolley block
trolley bracket
trolley bus
trolley car
trolley carrier
trolley catcher
trolley clip
trolley coach
trolley cord
trolley fork
trolley frog
trolley gong
trolley guard
trolley harp
trolley hoist
trolley insulator
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
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-
troapaolin 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
trough 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
trousered
trout bass
trout brook
trout fishing
trout fly
trout lily
trout perch
trout shad
trout stream
trout-colored
trout-famous
trout-haunted
trout-perch
trowel bayonet
trowel-shaped
troy ounce
troy pound
troy weight
truant officer
truant school
truce flag
truce-hating
truce-seeking
truck box
truck car
truck crop
truck driver
truck farm
truck farmer
truck farming
truck garden
truck gardener
truck gardening
truck horse
truck house
truck jobber
truck shot
truck 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
ture fresco
ture grit
ture heading
ture horizon
ture inwardness
ture jade
ture laurel
ture level
ture lover's knot
ture meaning
ture north
ture rib
ture skin
ture time
ture to form
ture to life
ture to nature
ture to reality
ture to the facts
ture to the letter
ture to the spirit
ture to type
ture to your colors
ture up
ture vocal cord
ture 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-heartedness
true-heroic
true-life
true-love
true-love knot
true-lover's knot
true-made
true-mannered
true-meaning
true-meant
true-noble
true-paced
true-ringing
true-run
true-seeming
true-souled
true-speaking
true-spelling
true-spirited
true-spoken
true-stamped
true-strung
true-sublime
true-sweet
true-thought
true-to-lifeness
true-toned
true-tongued
truelove knot
trump 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
trust in God
trust indenture
trust institution
trust maker
trust mortgage
trust officer
trust receipt
trust territory
trust to
trust to chance
trust to luck
trust unto
trust upon
trust your word
trust-bolstering
trust-breaking
trust-controlled
trust-controlling
trust-ingly
trust-regulating
trust-ridden
trust-winning
trusted friend
trustee account
trustee bank
trustee in bankruptcy
trustee mortgage bond
trustee process
trustee savings bank
trustee security
trustee stock
trusting soul
trusty friend
trusty sword
truth claim
truth drug
truth in action
truth lover
truth or consequences
truth seeker
truth serum
truth set
truth speaker
truth table
truth to life
truth to nature
truth to the letter
truth-armed
truth-bearing
truth-cloaking
truth-cowed
truth-declaring
truth-denying
truth-desiring
truth-destroying
truth-dictated
truth-filled
truth-function
truth-functional
truth-functionally
truth-guarding
truth-instructed
truth-led
truth-loving
truth-mocking
truth-passing
truth-perplexing
truth-revealing
truth-seeking
truth-shod
truth-speaking
truth-telling
truth-tried
truth-value
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
tyer-out
trying for
trying plane
trypan flavine neut
trypan blue
trypan red
trygail gaff
tysail mast
tysting day
tysting 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	ub boat	ub butter	ub chair	ub desk	ub drubber	ub front	ub maker	ub of lard	ub preacher	ub preaching	ub thumper	ub thumping	ub wheel	ub-brained	ub-coopering	ub-fast	ub-keeping	ub-preach	ub-preacher	ub-shaped	ub-size	ub-sized	ub-t	ub-thump	ub-thumper	ubal pregnancy	ube brazer	ube casts	ube coral	ube counter	ube culture	ube door	ube drawer	ube foot	ube generator	ube mill	ube of electric force	ube 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-scrapping
tube-shaped
tube-straightening
tube-weaving
tubeless tire
tubeless tyre	uber aster	uber fern	uber indexing	uber moth	uber root
tubercle bacillus
tuberculin-
tuberculin test
tuberculo-
tuberculosis cutis
tuberculosis luposa	uberculosis of the intestines	uberculosis of the larynx	uberculous arthritis	uberculous meningitis	uberculous rheumatism	uberous root	uberous-rooted	ubi-
tubo-
tubo-uterine
tubular bells
tubular floret
tubular girder
tubular goods
tubular skate
tubular-flowered
tubular-pneumatic organ
tubuli-
tuck away
tuck box
tuck in
tuck in a reef
tuck net
tuck plate
tuck pointer
tuck pointing
tuck seine
tuck shop
tuck your tail
tuck-in
tuck-net
tuck-out
tuck-point
tuck-pointed
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	umble car	tumble cart	tumble drier	tumble for	tumble grass
tumble home
tumble mustard
tumble on
tumble through the mind
tumble to
tumble-
tumbledown
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
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	urboprop engine
turboprop-jet
turboprop-jet engine
turboram-jet
turboramjet engine	urbulent 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
turkey blossom
turkey bur
turkey buzzard
turkey call
turkey carpet
turkey claw
turkey cock
turkey corn
turkey fig
turkey foot
turkey gnat
turkey gobbler
turkey grape
turkey grass
turkey hen
turkey louse
turkey mullein
turkey oak
turkey pea
turkey pod
turkey red
turkey shoot
turkey stone
turkey trot
turkey vulture
turkey-cock
turkey-feather
turkey-feather fucus
turkey-foot
turkey-hen
turkey-trot
turkey-trotted
turkey-trotting
turkey-worked
turkish bath
turkish coffee
turkish delight
turkish tobacco
turkish towel
turmeric paper
turmeric root
turmeric tree
turn a blind eye
turn a blind eye to
turn a cold shoulder to
turn a cold shoulder upon
turn a corner
turn a deaf ear
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-out
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
tumip aphid
tumip bean
tumip cabbage
tumip flea
tumip flea beetle
tumip fly
tumip foot
tumip grass
tumip jack
tumip leaf miner
tumip louse
tumip maggot
tumip nigger
tumip parsnip
tumip radish
tumip sawfly
tumip shell
tumip tops
tumip-bearing
tumip-eating
tumip-fed
tumip-growing
tumip-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	usk shell
tusk tenon
tussah silk
tussock grass
tussock moth	ussock sedge	ussock-grass	ut money	ut-mouthed	ut-tut	ut-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	waite shad
twanging nerves
twattle-basket	weak the devil's nose	weak the nose	weed-clad	weed-covered	weed-suited	weedle-
tween-brain	ween-deck	ween-watch	tweet-tweet	weet-tweet	weezer-woofer	weezer-case
twelfhynde man	welfth day	welfth man	welfth night	welfth-cake	welfth-day	welfth-night	welfth-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
twelwhynde 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-fifth
twenty-first
twenty-five
twenty-five cents
twenty-five percent
twenty-foot
twenty-four
twenty-four carat
twenty-four-hour
twenty-fourmo
twenty-fourmos
twenty-fourth
twenty-gauge
twenty-grain
twenty-gun
twenty-hour
twenty-inch
twenty-knot
twenty-line
twenty-man
twenty-mark
twenty-mesh
twenty-meter
twenty-mile
twenty-minute
twenty-nigger
twenty-nine
twice-adapted
twice-adjourned
twice-adjusted
twice-admitted
twice-adopted
twice-affirmed
twice-agreed
twice-alarmed
twice-alleged
twice-allied
twice-altered
twice-amended
twice-angered
twice-announced
twice-answered
twice-anticipated
twice-appealed
twice-appointed
twice-appropriated
twice-approved
twice-arbitrated
twice-arranged
twice-assaulted
twice-asserted
twice-assessed
twice-assigned
twice-associated
twice-assured
twice-attained
twice-attempted
twice-attested
twice-audited
twice-authorizered
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-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-destroyed
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-essayd
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-kidnapped
twice-knighted
twice-laid
twice-lamented
twice-leagued
twice-learned
twice-left
twice-lengthened
twice-levied
twice-liaible
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-provided
twice-provoked
twice-published
twice-punished
twice-pursued
twice-qualified
twice-questioned
twice-quoted
twice-raided
twice-re-elected
twice-read
twice-realized
twice-rebuilt
twice-recognized
twice-reconciled
twice-reconsidered
twice-recovered
twice-redeemed
twice-refined
twice-reformed
twice-refused
twice-regained
twice-regretted
twice-rehearsed
twice-reimbursed
twice-reinstated
twice-rejected
twice-released
twice-relieved
twice-remedied
twice-remembered
twice-remitted
twice-removed
twice-rendered
twice-rented
twice-repaired
twice-repeated
twice-replaced
twice-reported
twice-reprinted
twice-requested
twice-required
twice-reread
twice-resented
twice-resisted
twice-restored
twice-restrained
twice-resumed
twice-revenged
twice-reversed
twice-revised
twice-revived
twice-revolted
twice-rewritten
twice-rich
twice-right
twice-risen
twice-roasted
twice-robbed
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-sketched
twice-soiled
twice-sold
twice-soled
twice-solicited
twice-solved
twice-sought
twice-sounded
twice-spared
twice-specified
twice-spent
twice-sprung
twice-stabbed
twice-staged
twice-stated
twice-stolen
twice-stopped
twice-straightened
twice-stress
twice-stretched
twice-stricken
twice-struck
twice-upset
twice-used
twice-uttered
twice-vacant
twice-vamped
twice-varnished
twice-ventured
twice-verified
twice-vetoed
twice-victimized
twice-violated
twice-visited
twice-voted
twice-waged
twice-waived
twice-wanted
twice-warped
twice-wasted
twice-weaned
twice-welcomed
twice-whipped
twice-widowed
twice-wished
twice-withdrawn
twice-witnessed
twice-won
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
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	witch grass	witch of conscience	witch road
twite finch
twitter-twatter	wittle-twattle	wizzle-twig
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 striker
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-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-needled
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 ing 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
typewriter brush
typewriter cabinet
typewriter case
typewriter cover
typewriter desk
typewriter eraser
typewriter holder
typewriter key
typewriter mat
typewriter oil
typewriter pad
typewriter paper
typewriter ribbon
typewriter roller
typewriter stand
typewriter table
typewriter type
typewriting telegraph
typh fever
typhlo-
typhlo-ureterostomy
typho-
typhoid bacillus
 typhoid carrier
 typhoid fever
 typhoid spine
 typhus fever
 typical case
 typical example
 typical man
 typing machine
 typing paper
 typist's error
 typo-
 typographical error
 tyrannize over
 tyranny of the majority
 tyrant bird
 tyrant flycatcher
 tyrant sparing none
 tyrant wren
 tyrant-bought
 tyrant-hating
 tyrant-quelling
 tyrant-ridden
 tyrant-scourging
 tyrian purple
 tyrolean hat
 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
ujaamaa 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
umbro-
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-able-ness
un-come-at-ably
un-english
un-first-class
un-free-trade
un-frenchify
un-get-at-able
un-get-at-able-ness
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'
able 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
unblinking eye
unbloody sacrifice
unblushing
unblessed with
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
uncertainty relation
unchaste man
unchaste person
unchaste woman
unchecked will
unciform process
uncinate process
uncle sam
unclean spirit
uncoguid
uncollected accounts
uncome-at-able
uncommitted amplifier
uncommitted person
uncommitted voter
uncommonly like
uncommunicative person
uncomplimentary remark
unconditional convergence
unconditioned free will
unconditioned reflex
unconditioned response
unconfirmed report
unconscionable price
unconscious drive
unconscious knowledge
unconscious memory
unconscious mind
unconscious of
unconscious urge
uncontrolled growth
uncontrolled spin
unconversant with
uncover yourself
uncreated being
uncritical acceptance
uncross-examined
und so weiter
unda maris
undec-
undecided issue
undecided voter
undeclared war
undecylenic acid
undeniable fact
under a charm
under a cloud
under a spell
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
union down
union dye
union elbow
union flag
union grass
union house
union jack
union jet burner
union joint
union label
union language
union list
union local
union member
union nut
union officer
union orange
union organizer
union pipes
union school
union shop
union station
union suit
union tannage
union tee
union territory
union-made
unipolar transistor
unique factorization domain
unique factorization theorem
uniqueness theorem
unisex clothing
unison interval
unissued capital stock
unit banking
unit carrier
unit cell
unit character
unit cost
unit element
unit factor
unit fraction
unit insignia
unit investment trust
unit line
unit lock
unit magnetic pole
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
unpardonable sin
unparliamentary language
unpath'd waters
unplanned t
unpleasant taste
unpolished rice
unpossessed of
unpracticed in
unprepared for
unprovoked assault
unquestioning belief
unreal hope
unreasonable behaviour
unreasoning impulse
unrefined flour
unrefined mineral
unregistered bank account
unregistered securities
unrelenting attention
unrepeatable expressions
unrestricted propellant
unrhymed poetry
unripe acceptation
unsanctioned behavior
unsaturated fat
unsavory reputation
unsecured bond
unsecured loan
unself-assertive
unself-centered
unself-centred
unself-changing
unself-confident
unself-conscious
unself-consciously
unself-consciousness
unself-denying
unself-determined
unself-evident
unself-indulgent
unself-knowing
unself-opinionated
unself-possessed
unself-reflecting
unself-righteous
unself-righteously
unself-righteousness
unself-sacrificial
unself-sacrifically
unself-sacrificing
unself-sufficiency
unself-sufficient
unself-sufficiently
unself-supported
unself-valuing
unself-willed
unself-willedness
unsent-for
unshakable nerves
unshaken confidence
unsheath your weapon
unsighed-for
unsilled in
unsilled labor
unsilled laborer
unskillful person
unslaked lime
unsorted mass
unsound mind
unsoundness of mind
unspiring 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
unwished 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 attic
up for
up for discussion
up for grabs
up for hearing
up for investigation
up for sale
up helm
up in arms
up in the air
up in the world
up left
up north
up oars
up on
up on end
up quark
up right
up steps
up the creek
up the river
up the spout
up the wind
up till
up to
up to date
up to expectation
up to grade
up to now
up to par
up to scratch
up to snuff
up to standard
up to the ears
up to the elbows
up to the eyes
up to the hilt
up to the mark
up to the minute
up to the notch
up to the present
up to the time of
up to this time
up to your ears
up to your ears in
up to your ears in debt
up to your elbows
up to your elbows in
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-
uranousouranic 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
use hindsight
use ill
use inadmissible grammar
use inappropriate grammar
use informal speech
use informal style
use inheritance
use language
use loosely
use materials
use money
use of words
use one's head
use radar
use reason
use tax
use terror tactics
use terrorist tactics
use the gray matter
use the mails
use the mind
use the occasion
use the old bean
use time
use to advantage
use to the full
use tobacco
use unadvisedly
use up
use violence
use your endeavor
use your fine Italian hand
use your good offices
use your head
use your influence
use your option
use your palate
use your wits
use-money
used to
used to keep two parts separated
used up
used with the
used-car lot
used-up
useful consciousness
useful lift
useful load
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 supra
uterine brother
uterine kin
uterine sister
uterine-
uti possidetis
util 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 detest
uva grass
uva-ursi
uvi yam
uviol glass
uviol lamp
uzara root
v aux
v sign
v-day
v-eight
v-engine
v-particle
vCechy
vCeskd
vCeskoslovensko
va' via
va-et-vien
va-t'-en
vacancy clause
vacant possession
vacant post
vacant-brained
vacant-eyed
vacant-headed
vacant-looking
vacant-minded
vacant-mindedness
vacant-seeming
vacation barrister
vacation church school
vacation school
vaccinal fever
vaccine lymph
vaccine point
vaccine rash
vaccine therapy
vaccino-syphilis
vachette clasp
vacuum boiler
vacuum bottle
vacuum brake
vacuum breaker
vacuum bulb
vacuum can
vacuum cleaner
vacuum cleaning
vacuum coffee maker
vacuum concrete
vacuum condenser
vacuum crystallizer
vacuum desiccator
vacuum distillation
vacuum drier
vacuum engine
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
valley oak
valley of the shadow of death
valley partridge
valley quail
valley rafter
valley roof
valley tile
valley train
valley white oak
valley wind
valonia oak
valuable consideration
valuation account
valuation survey
value added
value added tax
value date
value judgment
value received
value stress
value system
value theory
value-added tax
valued at
valued policy
valued-policy law
valve view
valve body
valve box
valve cage
valve cap
valve casing
valve casting
valve chamber
valve chest
valve control
valve coupling
valve cup
valve diagram
valve ellipse
valve file
valve filter
valve fitting
valve gear
valve generator
valve grinder
valve handle
valve housing
valve indicator
valve key
valve line
valve motion
valve plate
valve ring
valve rod
valve seat
valve spring
valve stem
valve tool
valve travel
valve trombone
valve trumpet
valve view
valve washer
valve wrench
valve-grinding
valve-in-head engine
valve-shaped
valvular incompetence
valvular insufficiency
vamp up
vampire bat
van Eyck
van Gogh
van Ruisdael
van attendant
van boy
van builder
van de graaff generator
van der Rohe
van der Waals equation
van der Waals forces
van der Waals' forces
van der Weyden
van driver
van load
van loader
van owner
van't Hoff
van-courier
van-foss
van-john
van-winged hawk
vanadic acid
vanadium bronze
vanadium family
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
vapour pressure
vapour trail
vapour-bath
vare widgeon
vari-
vari-coloured
varia lectio
variable annuity
variable capacitor
variable condenser
variable cost
variable density system
variable error
variable field
variable star
variable time fuze
variable-mu tube
variable-reluctance microphone
variable-speed gear
variable-speed motor
variable-time fuse
variae lectiones
variance analysis
variant reading
variation chart
variation compass
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
vas deferens
vas-
vasa deferentia
vasa murrhina
vasa parrot
vascular bundle
vascular cylinder
vascular hemophilia
vascular plant
vascular ray
vascular tissue
vase clock
vase painter
vase painting
vase rug
vase-shaped
vase-vine
vaso-
vaso-motor
vassal state
vast knowledge
vast-dimensioned
vast-rolling
vast-skirted
vastus intermedius
vastus lateralis
vastus medialis
vat builder
vat color
vat dye
vat keeper
vat liquor
vat setter
vat waste
vat-dyed
vat-net
vates sacer
vau consecutive
vau conversive
vaudeville circuit
vaudeville show
vaudeville theater
vault light
vault mount
vault of heaven
vault rib
vault up
vaulting ambition
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
velvet bean
velvet bent
velvet bur
velvet cap
velvet carpet
velvet cork
velvet darkness
velvet dock
velvet duck
velvet finish
velvet fish
velvet flower
velvet glove
velvet grass
velvet green
velvet groundsel
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
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
veni-
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
ventr-
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
vermin-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
vernix 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 combinatioticalness
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
very likely
very low frequency
very many
very model
very much
very much alive
very picture
very pistol
very reverend
very same
very seldom
very thing
very top
very truth
very well
very-high-frequency
vesica piscis
vesicatory gas
vesico-
vesico-umbilical
vesico-urethral
vesico-urethral
vesico-uterine
vesicular exanthema
vesicular stomatitis
vesper bird
vesper mouse
vesper sparrow
vest in
vest with
vest-pocket
vest-pocket camera
vestal virgin
vested authority
vested estate
vested interest
vested interests
vested right
vestibule car
vestibule latch
vestibule of Day
vestibule school
vestibule train
vestibulo-urethral
vestigial transmission
vesting order
vestry board
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
vicariates apostolic
vicarious authority
vicars capitular
vicars choral
vicars forane
vicars-general
vice admiral
vice chancellor
vice presidency
vice president
vice squad
vice versa
vice-
vice-abbot
vice-admiral
vice-advairality
vice-admiralship
vice-admiralty
vice-admiralty court
vice-agent
vice-apostle
vice-apostolical
vice-architect
vice-begotten
vice-bishop
vice-bitten
vice-burgomaster
vice-butler
vice-caliph
vice-cancellarian
vice-chair
vice-chairman
vice-chairmen
vice-chamberlain
vice-chancellor
vice-chancellorship
vice-collector
vice-commodore
vice-constable
vice-consul
vice-consular
vice-consultate
vice-consulship
vice-corrupted
vice-county
vice-created
vice-dean
vice-deity
vice-detesting
vice-dictator
vice-director
vice-emperor
vice-freed
vice-general
vice-government
vice-governor
vice-governorship
vice-guilty
vice-haunted
vice-headmaster
vice-imperial
vice-king
vice-kingdom
vice-laden
vice-legate
vice-legateship
vice-librarian
vice-lieutenant
vice-loathing
vice-marred
vice-marshal
vice-master
vice-ministerial
vice-nature
vice-palatine
vice-papacy
vice-patron
vice-patronage
vice-polluted
vice-pope
vice-porter
vice-postulator
vice-prefect
vice-premier
vice-pres
vice-presidency
vice-president
vice-presidential
vice-presidentship
vice-priest
vice-principal
vice-principalship
vice-prior
vice-prone
vice-protector
vice-provost
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-
vinaigrette sauce
vincent's angina
vincent's infection
vincit omnia veritas
vinculum matrimonii
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-robed
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
violet tip
violet water
violet wood
violet wood sorrel
violet-black
violet-blind
violet-blindness
violet-bloom
violet-blue
violet-brown
violet-colored
violet-coloured
violet-crimson
violet-crowned
violet-dyed
violet-ear
violet-eared
violet-embroidered
violet-flowered
violet-garlanded
violet-gray
violet-green
violet-green swallow
violet-headed
violet-horned
violet-hued
violet-inwoven
violet-purple
violet-rayed
violet-red
violet-ringed
violet-scented
violet-shrouded
violet-stoled
violet-striped
violet-sweet
violet-tailed
violet-throated
violin bow
violin case
violin clef
violin diapason
violin piano
violin string
violin-shaped
violino piccolo
violoncello piccolo
viper broth
viper gourd
viper grass
viper lozenge
viper wine
viper's bugloss
viper's grass
viper-bit
viper-curved
viper-haunted
viper-headed
viper-mouthed
viper-nourished
vir et uxor
viral dysentery
virgin birth
virgin bower
virgin dip
virgin forest
virgin honey
virgin knot
virgin land
virgin mary
virgin moth
virgin parchment
virgin rosin
virgin scammony
virgin soil
virgin spawn
virgin state
virgin territory
virgin tree
virgin wax
virgin widow
virgin wool
virgin's bower
virgin's milk
virgin's-bower
virgin-born
virgin-eyed
virgin-minded
virgin-vested
virginia cowslip
virginia creeper
virginia fence
virginia reel
virginibus puerisque
virgo intacta
viridine green
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
vitamin shot
vitamin-deficiency diet
vitamin-free
vitelline membrane
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
vitriol chamber
vitriol stone
vitriolated tartar
vitriolized 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
volt-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
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
voussoir-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
wage fund
wage labor
wage level
wage paying
wage peace
wage rate
wage reduction
wage rollback
wage scale
wage slave
wage slavery
wage system
wage war
wage-fund theory
wage-plug
wager policy
wagering contract
wages after deductions
wages after taxes
wages fund
wages plus fringe benefits
wages-man
waggish trick
wagon-headed
wagh down
waging board
wagon bed
wagon boiler
wagon boss
wagon box
wagon breast
wagon ceiling
wagon filler
wagon greaser
wagon gun
wagon hammer
wagon jobber
wagon lock
wagon master
wagon road
wagon roof
wagon seat
wagon shed
wagon shoe
wagon soldier
wagon table
wagon tent
wagon tongue
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 phallus
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 salt peter
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
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-appareled
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
warp sizer
warp stitch
warp tier
warp-knit
warp-knitted
warp-net frame
warp-proof
warped conception
warped judgment
warping bank
warping bridge
warping chock
warping hook
warping-frame
warple way
warrant of arrest
warrant of attorney
warrant officer
warrant trying
warrants off
warrants on
warranty deed
warrior ant
warrior bush
warsaw grouper
wart cress
wart disease
wart grass
wart hog
wart snake
wart spurge
warted gourd
warted grass
warted spurge
wartime footing
warts and all
warty egg
warty-faced honey eater
wary-eyed
wary-footed
wary-looking
wash and wear
wash ball
wash barrel
wash bear
wash boiler
wash boring
wash coat
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
washing soda
washing tub
washing up
washing-up
washington pie
washington's birthday
washout process
washrag gourd
wasp ant
wasp bee
wasp beetle
wasp fly
wasp nest
wasp spider
wasp waist
wasp's nest
wasp-barbed
wasp-minded
wasp-stung
wasp-waisted
wasp-waistedness
wassail bowl
wassail cup
wassermann reaction
wassermann test
waste away
waste baling
waste bank
waste bin
waste book
waste box
waste boy
waste breaker
waste bundler
waste heat
waste leaf
waste lot
waste matter
waste mold
waste no words
waste nut
waste of breath
waste of labor
waste of time
waste pallet
waste pipe
waste product
waste the opportunity
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 bouquet
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 strider
water supply
water system
water table
water tare grass
water target
water telescope
water thrush
water ton
water tortoise
water torture
water tower
water trap
water travel
water treatment
water vapor
water vapour
water vole
water wagon
water wagtail
water wave
water wheel
water willow
cwater wings
cwater witch
cwater witcher
cwater witching
cwater works
cwater-bag
cwater-bailage
cwater-bailiff
cwater-base paint
cwater-bath
cwater-bearer
cwater-bearing
cwater-beaten
cwater-bed
cwater-bind
cwater-borne
cwater-bound
cwater-brain
cwater-break
cwater-breathing
cwater-broken
cwater-buck
cwater-butt
cwater-can
cwater-carriage
cwater-carrier
cwater-cart
cwater-caster
cwater-clock
cwater-closet
cwater-color
cwater-colored
cwater-colorist
cwater-colour
cwater-commanding
cwater-consolidated
cwater-cool
cwater-cooled
cwater-cress
cwater-cressy
cwater-cure
cwater-dog
cwater-drinker
cwater-drinking
cwater-drop
cwater-dwelling
cwater-engine
water-fast
water-fennel oil
water-finished
water-flood
water-flowing
water-free
water-front
water-fronter
water-furrow
water-gall
water-galled
water-gas
water-gas tar
water-gate
water-gild
water-girt
water-glass
water-glass painting
water-gray
water-growing
water-gruel
water-gruellish
water-hammer
water-hen
water-hole
water-horse
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
water-ski
water-skied
water-skiing
water-slaked lime
water-smoke
water-soak
water-soaked
water-soluble
water-souchy
water-spout
water-spring
water-standing
water-starwort family
water-stream
water-struck
water-supply
water-supply engineer
water-supply engineering
water-sweet
water-table
water-tube boiler
water-vascular
water-vascular system
water-wagtail
water-washed
water-wave
water-waved
water-waving
water-way
water-weed
water-wheel
water-white
water-witch
waterborne infection
watered fabric
watered silk
watered steel
watered stock
watered-down
waterglass painting
watering can
watering hole
watering place
watering pot
watering-place
watering-pot
watering-pot shell
waterless cooker
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-secreted
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-stripped
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
weedy-haired
weedy-looking
week work
week-end
week-long
week-old
week-work
weekend bag
weekly newspaper
weekly payments
weeny-bopper
weep for
weep hole
weep over
weep with
weep with them that weep
weeping and gnashing of teeth
weeping ash
weeping beech
weeping cross
weeping eczema
weeping golden bell
weeping honey locust
weeping lantana
weeping myall
weeping pea tree
weeping willow
weeping-ripe
weese-allan
weet-weet
weft fork
weft knitting
weft sorter
weft-knit
weft-knitted
weigh against
weigh anchor
weigh beam
weigh down
weigh heavy
weigh heavy on
weigh heavy upon
weigh in
weigh in the balance
weigh lightly
weigh on
weigh one thing against another
weigh out
weigh 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-accompanied
well-accomplished
well-accepted
well-according
well-accoutered
well-accredited
well-accumulated
well-accommodated
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
well-analysed
well-analyzed
well-ancestored
well-anchored
well-aneur
well-ankled
well-annealed
well-annotated
well-announced
well-anointed
well-answered
well-anticipated
well-appareled
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
well-armoured
well-aroused
well-arranged
well-arrayed
well-articulated
well-ascertained
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-haled
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
well-beloved
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-committed
well-communicated
well-compacted
well-compared
well-compassed
well-compensated
well-compiled
well-completed
well-complexioned
well-composed
well-comprehended
well-concealed
well-conceded
well-conceived
well-concentrated
well-concerted
well-concluded
well-concocted
well-concorded
well-condensed
well-conditioned
well-conducted
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-defended
well-deferred
well-defined
well-delayed
well-deliberated
well-delineated
well-delivered
well-demeaned
well-demonstrated
well-denied
well-depicted
well-derived
well-descended
well-described
well-deserved
well-deserved punishment
well-deservedly
well-deserver
good
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
well-drained
well-dramatized
well-drawn
well-dressed
well-dried
well-drilled
well-driven
well-drugged
well-duged
well-dusted
well-dying
well-eared
well-earned
well-earthed
well-eased
well-economized
well-edited
well-educated
well-effected
well-elaborated
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
well-exploded
well-exposed
well-expressed
well-fabricated
well-faced
well-faded
well-famed
well-fancied
well-farmed
well-fashioned
well-fastened
well-fatted
well-favored
well-favorably
well-favorableness
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
well-fitting
well-fixed
well-flanked
well-flattered
well-flavored
well-flavoured
well-fledged
well-fleeced
well-fleshed
well-flooded
well-floored
well-floured
well-flowered
well-flowering
well-focused
well-focussed
well-folded
well-followed
well-fooled
well-foreseen
well-forested
well-forewarned
well-forewarning
well-forged
well-forgotten
well-formed
well-formulated
well-fortified
well-fought
well-found
well-founded
well-foundedly
well-foundedness
well-framed
well-fraught
well-freckled
well-freighted
well-frequented
well-fried
well-friended
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
well-guiding
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-husbandled
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-languaged
well-larded
well-launched
well-laundered
well-led
well-learned
well-leased
well-leaved
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-moduleed
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-polled
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-rulled
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-schmed
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
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well-spent
well-spiced
well-splitting
well-spoken
well-sprayed
well-spread
well-spring
well-spun
well-spurred
well-squared
well-stabilized
well-stacked
well-staffed
well-staged
well-stained
well-stamped
well-starred
well-stated
well-stationed
well-steered
well-stirred
well-stitched
well-stocked
well-stopped
well-stored
well-straightened
well-strained
well-strapped
well-stressed
well-stretched
well-striven
well-stroked
well-strung
well-studied
well-stuffed
well-styled
well-subscribed
well-succeeding
well-sufficing
well-sugared
well-suggested
well-suited
well-summarised
well-summarized
well-sunburned
well-sung
well-superintended
well-supervised
well-supplemented
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-thrashed
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-tossed
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
well-wedded
well-weighed
well-weighing
well-whipped
well-wigged
well-willed
well-willer
well-willing
well-winded
well-windowed
well-winged
well-winnowed
well-wired
well-wish
well-wisher
well-wishing
well-witnessed
well-witted
well-won
well-wooing
well-wooled
well-worded
well-worked
well-worked-out
well-worn
groove
well-woven
well-wreathed
well-written
well-wrought
well-yoked
welsh boot
welsh corgi
welsh harp
welsh hook
welsh rabbit
welsh rarebit
welsh springer spaniel
welsh terrier
welt seam
welter in your own blood
welter weight
wen-li
wend your way
were it not
were it not that
were-
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-ardy
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 diamondb
western diamondback rattlesnake
western frame
western hemisphere
western hemlock
western juniper
western mountain ash
western omelet
western paper birch
western red cedar
western roll
western sandwich
western swing
western tanager
western wool
western yellow pine
westphalian ham
westward-looking
wet behind the ears
wet blanket
wet bulb
wet cell
wet chinook
wet cleaner
wet compass
wet contact
wet cooper
wet dock
wet down
wet dream
wet fly
wet look
wet moon
wet nurse
wet pack
wet pleurisy
wet puddling
wet rot
wet season
wet snow
wet squib
wet strength
wet suit
wet to the skin
wet wash
wet weather
wet weathers
wet with sweat
wet your whistle
wet-air
wet-air pump
wet-and-dry-bulb thermometer
wet-blanket
wet-blanketing
wet-bulb
wet-bulb thermometer
wet-cell
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
what you may fitly call
what you may properly call
what you may well call
what you merit
what you will
what's happening
what's in
what's in it for one
what's it to you
what's its name
what's the diff
what's the difference
what's the odds
what's what
what's-her-name
what's-his-face
what's-his-name
what's-its-name
what-d'ye-call-'em
what-d'ye-call-it
what-d'you-call-it
what-do-you-call-it
what-eer
what-for
what-is-it
what-like
what-you-call-it
what-you-may call-it
what-you-may--call-it
what-you-may-call-em
whatever comes
whatever may happen
whatever the cost
whats-her-name
whats-his-name
whats-it
whats-its-name
wheaf take-all
wheaf-head
wheat aphid
wheat aphis
wheat beetle
wheat belt
wheat berry
wheat bread
wheat bug
wheat bulb fly
wheat bulb worm
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-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
whettle-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
wing-ding
whip along
whip and spur
whip antenna
whip away
whip bird
whip crane
whip crop
whip gin
whip graft
craft 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 wood aster
white-acre
white-alder
white-alder family
white-ankled
white-ant
white-anted
white-armed
white-ash
white-backed
white-barked
white-barred
white-beaked
white-bearded
white-bellied
white-berried
white-billed
white-blood
white-blooded
white-blue
white-bodied
white-bone
white-boned
white-bordered
white-bosomed
white-breasted
white-brick
white-browed
white-brown
white-burning
white-capped
white-cell
white-cell blood
white-cheeked
white-chinned
white-churned
white-clad
white-clothed
white-coated
white-collar
white-collar intellectual
white-collar thief
white-collar worker
white-colored
white-cotton
white-cotton tree
white-crested
white-cross
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-fruit
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-heart
white-heart hickory
white-hoofed
white-hooved
white-horned
white-horsed
white-hot
white-jacketed
white-laced
white-leaf
white-leaved
white-legged
white-lie
white-lined
white-linen
white-lipped
white-list
white-listed
white-livered
white-liveredly
white-liveredness
white-loaf
white-looking
white-maned
white-mantled
white-marked
white-mooned
white-mottled
white-mouthed
white-mustard
white-mustard oil
white-necked
white-nosed
white-painted
white-paneled
white-petaled
white-pickle
white-pickle mosaic
white-pine
white-pine blister rust
white-pine rust
white-pine weevil
white-piped
white-plumed
white-rag
white-railed
white-rayed
white-red
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
whitish-flowered
whitish-green
whitish-lavender
whitish-red
whitish-tailed
whitish-yellow
whitley council
whitlow grass
whitlowwort family
whitten tree
whitty-tree
whity-brown
whity-gray
whity-green
whity-yellow
whiz about
whiz kid
whiz off
whiz-bang
whizz-bang
whizzling stick
who cares
who feel great truths
who knows
who would have thought it
who's who
who-does-what
who-whoop
whole amount
whole attention
whole ball of wax
whole bit
whole blood
whole brother
whole bunch
whole caboodle
whole deal
whole gale
whole hog
whole kit and caboodle
whole kit and kaboodle
whole life insurance
whole megillah
whole mess
whole milk
whole note
whole number
whole offering
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-mouther
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
whooppee cup
hooper swan
whooping cough
hooping crane
hooping-cough
hoore'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
widbin 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-awakeness
wide-banked
wide-bottomed
wide-branched
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-streeted
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-woggle
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-billowing
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-waught
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
willy-mufty
willy-nilly
willy-waa
willy-wagtail
willy-waw
willy-wicket
willy-willies
willy-willy
wilt disease
wilting coefficient
wilting percentage
wilting point
wily device
win away
win back
win by a fluke
win by a neck
win easily
win freedom
win friends
win friends and influence people
win going away
win hands down
win in a canter
win in a walk
win in a waltz
win out
win over
win the affections of
win the battle
win the bays
win the day
win the laurels
win the love of
win the palm
win the prize
win the regard of
win the start
win through
win your heart
win your spurs
wince pit
wince pot
winch driver
wincing machine
wind and weather permitting
wind around your little finger
wind arrow
wind band
wind beam
wind belt
wind blast
wind box
wind brace
wind burn
wind catcher
wind chest
wind cloud
wind colic
wind component table
wind cone
wind contusion
wind cripple
wind cutter
wind direction
wind down
wind drift
wind dropsy
wind eddy
wind egg
wind engine
wind erosion
wind flapper
wind force
wind furnace
wind gap
wind gauge
wind god
wind gods
wind guard
wind gun
wind gust
wind harp
wind hawk
wind herb
wind house
wind in
wind in and out
wind indicator
wind instrument
wind load
wind machine
wind mantle
wind marker
wind motor
wind music
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
windshield wiper
windsor chair
windsor knot
windsor tie
windstorm insurance
windward ebb
windward flood
windward side
windward tide
windy-aisled
windy-blowing
windy-clear
windy-footed
windy-headed
windy-looking
windy-mouthed
windy-voiced
windy-worded
wine acid
wine and dine
wine apple
wine bag
wine bar
wine biscuit
wine black
wine bush
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-drunk
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
wipe break
wipe breaker
wipe joint
wipe off
wipe off old scores
wipe off the map
wipe out
wipe the floor with
wipe the slate clean
wipe the smile off your face
wipe up
wipe up the floor with
wipe-off
wiped away
wiped out
wiper shaft
wiper wheel
wiping contact
wiping out
wiping rod
wiping up
wire agency
wire basket
wire bender
wire bent
wire birch
wire bridge
wire brush
wire cartridge
wire chief
wire chisel
wire cloth
wire coat
wire communication
wire coverer
wire cutter
wire cutting
wire drawer
wire drawing
wire edge
wire entanglement
wire former
wire galvanizer
wire gauge
wire gauze
wire glass
wire grama
wire grass
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 wave communication
wire weaver
wire welder
wire wheel
wire winder
wire wool
wire-bending
wire-blocking
wire-borne
wire-bound
wire-brushing
wire-caged
wire-cloth
wire-coiling
wire-crimping
wire-cut
wire-draw
wire-drawer
wire-drawn
wire-edged
wire-feed
wire-feeding
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-foundered
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 moth
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 skinful
with a sneer
with a snootful
with a sparing hand
with a stiff neck
with a straight face
with a string to it
with a strong hand
with a tight 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 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 pitapat
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-
withdrawn
with-it
withdraw from
withdraw from the field
withdraw the charge
withdraw your support
withdrawal of attention
withdrawal sickness
withdrawal symptom
withdrawal symptoms
withdrawal 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-besee
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-revolved
woe-sorning
woe-sprung
woe-stricken
woe-stricken
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
wolfrian 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
woman-grown
woman-hater
woman-hating
woman-headed
woman-loving
woman-mad
woman-made
woman-man
woman-murdering
woman-proud
woman-ridden
woman-servant
woman-shy
woman-suffrage
woman-suffragist
woman-tended
woman-vested
woman-wary
womb-enclosed
womb-enclosed
womb-to-tomb security
women's clothing
women's hairdos
women's lib
women's libber
women's liberation
women's liberation activist
women's liberation adherent
women's liberation advocate
women's liberation movement
women's liberationist
women's magazine
women's rightist
women's rights
women's room
women's suffrage
womens' chorus
won ton
won ton soup
wonder about
wonder drug
wonder drugs
wonder whether
wonder-beaming
wonder-bearing
wonder-charmed
wonder-dumb
wonder-exciting
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-teeming
wonder-waiting
wonder-work
wonder-worker
wonder-working
wonder-wounded
wonder-writing
wonderful thing
wonders of the world
wondrous strange
wonga-wonga
wont-believer
wont-learn
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 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-quest
wood-quest
wood-ray parenchyma
wood-rip
wood-roofed
wood-sear
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
wooden-soled
wooden-tined
wooden-walled
wooden-wheeled
woodgate rust
woodland brown
woodland caribou
woodland goldenrod
woodland primrose
woodland star
woodland sunflower
woods and fields
woods colt
woods cranberry
woods phlox
woods run
woodwind choir
woodwind instrument
woodwind quartet
woodwind section
woodworking chisel
woodworking lathe
woody nightshade
woody-stemmed
wooer-bab
wool breaker
wool burler
wool card
wool carder
wool carding
wool classer
wool classing
wool clip
wool comb
wool comber
wool combing
wool crepe
wool driver
wool extract
wool extractor
wool fast dye
wool fat
wool feeder
wool fell
wool fiber
wool former
wool grade
wool grader
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
wool-picking
wool-producing
wool-rearing
wool-sorter's disease
wool-staple
wool-stapling
wool-white
wool-witted
wool-woofed
wool-work
woolen draper
woolen drapery
woolen mill
woolen-clad
woolen-frocked
woolen-stockinged
woollen draper
woolly aphid
woolly bear
woolly beard grass
woolly foot
woolly mammoth
woolly manzanita
woolly worm
woolly-butted
woolly-coated
woolly-haired
woolly-haried
woolly-head
woolly-headed
woolly-headedness
woolly-leaved
woolly-looking
woolly-minded
woolly-mindedness
woolly-pated
woolly-podded
woolly-tailed
woolly-white
woolly-witted
woolsorter's disease
woolsorters' disease
woolly-headed
wootz steel
worcester china
worcester porcelain
worcestershire sauce
word accent
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
work-study
work-study-play plan
work-study-play school
work-up
work-wan
work-weary
work-worn
worked out
worked up
worked up into a lather
worked-up
worker cell
worker comb
worker major
worker minor
worker of evil
worker of ill
worker-correspondent
worker-guard
worker-priest
workhouse sheeting
workhouse test
working asset
working beam
working capital
working card
working class
working day
working dog
working drawing
working face
working fit
working fluid
working force
working gauge
working girl
working hypothesis
working into a lather
working jib
working line
working load
working on
working order
working out a deal
working papers
working party
working pattern
working people
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 of finance
world of good
world of the dead
world point
world politics
world pound
world power
world premiere
world principle
world process
world series
world soul
world speech
world spirit
world state
world to come
world travel
world tree
world view
world war
world without end
world's oldest profession
world-abhorring
world-abiding
world-abstracted
world-accepted
world-acknowledged
world-adored
world-adorning
world-advancing
world-advertised
world-affecting
world-agitating
world-alarming
world-altering
world-amazing
world-amusing
world-animating
world-anticipated
world-applauded
world-appreciated
world-apprehended
world-approved
world-argued
world-arousing
world-arresting
world-assuring
world-astonishing
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-excitng
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
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-geared
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-rulled
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-
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
wrestling 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
wriinger 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
writing paper
writing reed
writing room
writing set
writing 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
wrong-minded
wrong-mindedly
wrong-mindedness
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
wry-neckedness
wry-nosed
wry-set
wry-tailed
wry-toothed
wu-su
wu-wei
wung-out
wych elm
wych-elm
wych-hazel
wye level
x chromosome
x height
x in
x number
x out
x ray
x rays
x-axis
x-disease
x-ed
x-height
x-high
x-ing
x-line
x-out
x-radiation
x-ray
x-ray astronomy
x-ray crystallography
x-ray photograph
x-ray photography
x-ray star
x-ray therapy
x-ray tube
x-shaped
x-stretcher
x-unit
xanth-
xanthd-
xanthene dye
xanthic acid
xantho-
xanthoproteic acid
xaverian brother
xen-
xenic acid
xeno-
xenon hexafluoride
xenon tetrafluoride
xer-
xero-
xeroderma pigmentosum
xi-particle
xipi-
xiphoid process
xyl-
xylem parenchyma
xylem ray
xylene blue
xylic acid
xylite oil
xylo-
xyloglyphic artist
xylonic acid
y chromosome
y tile
y-
y-axes
y-axis
y-bake
y-blend
y-blinies
y-blenty
y-clept
y-cast
y-clept
y-end
y-painted
y-pointing
y-rapt
y-scalded
y-ssed
y-warn
ya-ta-ta
yaba bark
yacca gum
yacht berth
yacht builder
yacht chair
yacht club
yacht decorator
yacht designer
yacht engineer
yacht ensign
yacht gear
yacht propeller
yacht race
yacht racing
yacht rigging
yacht rope
yacht squadron
yacht-built
yachtman's anchor
yackety-yack
yackety-yak
yackety-yakked
yackety-yakking
yak-yak
yakety-yak
yakety-yakked
yakety-yakking
yakity-yak
yakkety-yak
yam bean
yam family
yam potato
yam stick
yam tree
yam-root
yammer yawp
yang-kin
yankee-doodle
yap at
yapp binding
yard boy
yard cleaner
yard donkey
yard engineer
yard foreman
yard goods
yard grass
yard inspector
yard laborer
yard locomotive
yard lumber
yard of ale
yard porter
yard regulator
yard rope
yard rush
yard scavenger
yard signalman
yard slings
yard sweeper
yard tackle
yard trader
yard up
yard-arm
yard-broad
yard-deep
yard-long
yard-long bean
yard-measure
yard-of-ale
yard-square
yard-thick
yard-wand
yard-wide
yardarm to yardarm
yarding engine
yarn baller
yarn bleacher
yarn boiler
yarn buncher
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
yarn stripper
yarn tester
yarn twister
yarn warper
yarn washer
yarn waste
yarn weigher
yarn winder
yarn-boiling
yarn-cleaning
yarn-dye
yarn-dyed
yarn-measuring
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
yellow belly
yellow bile
yellow birch
yellow blindness
yellow book
yellow brass
yellow bush
yellow cake
yellow calla lily
yellow camomile
yellow carmine
yellow cedar
yellow complexion
yellow copper ore
yellow cypress
yellow daisy
yellow dog
yellow enzyme
yellow fever
yellow flag
yellow foxglove
yellow gentian
yellow goatfish
yellow gold
yellow granadilla
yellow grass
yellow grease
yellow honeysuckle
yellow jack
yellow jacket
yellow jasmine
yellow jaundice
yellow jessamine
yellow journal
yellow journalism
yellow journalist
yellow lady’s-slipper
yellow lead ore
yellow light
yellow line
yellow locust
yellow loosestrife
yellow madder
yellow man
yellow mandarin
yellow medick
yellow melilot
yellow mercuric oxide
yellow metal
yellow mombin
yellow ocher
yellow pages
yellow perch
yellow peril
yellow perilla
yellow pikeperch
yellow pine
yellow pitcher pla
yellow pitcher plant
yellow poplar
yellow prussiate of potash
yellow puccoon
yellow race
yellow rust
yellow skin
yellow spot
yellow star
yellow stonecrop
yellow streak
yellow stuff
yellow trillium
yellow tuft
yellow warbler
yellow water lily
yellow-aproned
yellow-armed
yellow-backed
yellow-banded
yellow-bark
yellow-bark oak
yellow-barked
yellow-barred
yellow-beaked
yellow-bearded
yellow-bellied
yellow-bellied sapsucker
yellow-bellied woodpecker
yellow-belly
yellow-billed
yellow-billed cuckoo
yellow-billed magpie
yellow-black
yellow-blossomed
yellow-blotched
yellow-bodied
yellow-breasted
yellow-breasted chat
yellow-browed
yellow-brown
yellow-capped
yellow-centered
yellow-checked
yellow-cheeked
yellow-chinned
yellow-collared
yellow-colored
yellow-complexioned
yellow-covered
yellow-crested
yellow-cross
yellow-cross liquid
yellow-crowned
yellow-crowned night heron
yellow-daisy
yellow-dog
yellow-dog contract
yellow-dotted
yellow-dun
yellow-dye
yellow-dye tree
yellow-dyed
yellow-eared
yellow-earth
yellow-eye
yellow-eyed
yellow-eyed grass
yellow-eyed-grass family
yellow-faced
yellow-feathered
yellow-fever
yellow-fever fly
yellow-fever mosquito
yellow-fin
yellow-fingered
yellow-finned
yellow-flagged
yellow-fleeced
yellow-fleshe
yellow-flowered
yellow-flowering
yellow-footed
yellow-fringed
yellow-fronted
yellow-fruitless
yellow-funneled
yellow-girted
yellow-gloved
yellow-green
yellow-green alga
yellow-haired
yellow-hammer
yellow-handed
yellow-headed
yellow-headed blackbird
yellow-hilted
yellow-horned
yellow-hosed
yellow-jerkined
yellow-labeled
yellow-leaved
yellow-legged
yellow-legger
yellow-legginged
yellow-lettered
yellow-lit
yellow-locked
yellow-lustered
yellow-maned
yellow-marked
yellow-necked
yellow-nosed
yellow-olive
yellow-orange
yellow-painted
yellow-papered
yellow-pinioned
yellow-pyed
yellow-rayed
yellow-red
yellow-ringed
yellow-ringleted
yellow-ripe
yellow-robed
yellow-rooted
yellow-rumped
yellow-sallow
yellow-seal
yellow-sealed
yellow-shafted
yellow-shafted flicker
yellow-shanked
yellow-shouldered
yellow-skinned
yellow-skirted
yellow-speckled
yellow-splotched
yellow-spotted
yellow-sprinkled
yellow-stained
yellow-starched
yellow-striped
yellow-tailed
yellow-throated
yellow-throated vireo
yellow-tinged
yellow-tinging
yellow-tinted
yellow-tipped
yellow-toed
yellow-tressed
yellow-tufted
yellow-vented
yellow-washed
yellow-white
yellow-winged
yellowfin tuna
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
yelly-hoo
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
yeshiva bocher
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
young duck
young frog
young fry
young fustic
young generation
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zone catalogue
zone fire
zone line
zone melting
zone of communications
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zone of interior
zone of no signal
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zoom lens
zoom shot
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zygo-
zygomatic arch
zygomatic bone
zygomatic process
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17 May 93

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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 best-selling novel by Amy Tan in 1990.

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' does not mark the accent on the initial 'e'.

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from a designated place, then offering equivalent access to copy the
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therefore falls outside the scope of this License.

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creates an executable that is a derivative of the Library (because it
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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
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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.
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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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Version 3.1, 31 March 2009

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1.114 libfastjson 0.99.4 3.el7

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1.115 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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*/

1.116 libteam 1.27 5.el7

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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.

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 decompresser 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.

Frequently Asked Questions regarding (re)distribution of Zip and UnZip are near the end of this file.

There are no known patents on any of the code in UnZip. Unisys claims a patent on LZW encoding and on LZW decoding _in an apparatus that performs LZW encoding_, but the patent appears to exempt a stand-alone decoder (as in UnZip's unshrink.c). Unisys has publicly claimed otherwise, but the issue has never been tested in court. Since this point is unclear, unshrinking is not enabled by default. It is the responsibility of the user to make his or her peace with Unisys and its licensing requirements. (unshrink.c may be removed from future releases altogether.)

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 License. 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 as a separate distribution (the restricted copyright of this code is cited below in the "historical" section).

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*  
* A collection of File Manager and related routines
*  
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*  
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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 remaining code was written by many people associated with the Info-ZIP group, with large contributions from (but not limited to): 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 others. See the file CONTRIBUTIONS in the source distribution for a much more complete list of contributors.

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

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1.129 perl-pathtools 3.4
1.129.1 Available under license :
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.

=head2 getcwd and friends

Each of these functions are called without arguments and return the absolute path of the current working directory.

=item getcwd

my $cwd = getcwd();

Returns the current working directory.

Exposes the POSIX function getcwd(3) or re-implements it if it's not available.

=item 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).

=item 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.

=item fastgetcwd

my $cwd = fastgetcwd();

The fastgetcwd() function is provided as a synonym for cwd().

=item getdcwd

my $cwd = getdcwd();
my $cwd = getdcwd('C:');

The getdcwd() 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 _getdcwd() function.

=back

=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.

=over 4

=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

=over 4

=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>

=head1 COPYRIGHT

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=head1 SEE ALSO

L<File::chdir>

=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.

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

SKIP

=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.

=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_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>
</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 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

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Version 2.x, Copyright (C) 2001, Paul Marquess.

Version 1.x, Copyright (C) 1999, Kenneth Albanowski.

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=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 =~ /\([\w.]+)\$/;
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.\n";
}

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 { /^\([^]*\)|([^\^]+)\([^\^]+\)]\([^\^]+\)]\([^\^]+\)]$/
  ? ( $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\]|p
BhkDISABLE\5.014000\]|p
BhkENABLE\5.014000\]|p
BhkENTRY_set\5.014000\]|p
BhkENTRY\]|p
BhkFLAGS\]|p
CALL_BLOCK_HOOKS\]|p
CLASS\]|p
CPERLscope\5.005000\]|p
CX_CURPAD_SAVE\]|p
CX_CURPAD_SV\]|p
CopFILEAV\5.006000\]|p
CopFILEGV_set\5.006000\]|p
CopFILEGV\5.006000\]|p
CopFILEset\5.006000\]|p
CopFILE\5.006000\]|p
CopSTASHPV_set\5.006000\]|p

Open Source Used In Cisco VSM 7.14.2 18181
PAD_DUP
PAD_RESTORE_LOCAL
PAD_SAVE_LOCAL
PAD_SAVE_SETNULLPAD
PAD_SETSV
PAD_SET_CUR_NOSAVE
PAD_SET_CUR
PAD_SV
PAD_SV
PERLIO_FUNCS_CAST
PERLIO_FUNCS_DECL
PERL_ABS
PERL_BCDVERSION
PERL_GCC_BRACE_GROUPS_FORBIDDEN
PERL_HASH
PERL_INT_MAX
PERL_INT_MIN
PERL_LONG_MAX
PERL_LONG_MIN
PERL_MAGIC_arylen
PERL_MAGIC_backref
PERL_MAGIC_bm
PERL_MAGIC_collxfrm
PERL_MAGIC_dbfile
PERL_MAGIC_dbline
PERL_MAGIC_defelem
PERL_MAGIC_envelem
PERL_MAGIC_env
PERL_MAGIC_ext
PERL_MAGIC_fmem
PERL_MAGIC_glob
PERL_MAGIC_isaelem
PERL_MAGIC_isa
PERL_MAGIC_mutex
PERL_MAGIC_nkeys
PERL_MAGIC_overload_elem
PERL_MAGIC_overload_table
PERL_MAGIC_overload
PERL_MAGIC_pos
PERL_MAGIC_qref
PERL_MAGIC_regdata
PERL_MAGIC_regdatum
PERL_MAGIC_regex_global
PERL_MAGIC_shared_scalar
PERL_MAGIC_shared
PERL_MAGIC_sigelem
PERL_MAGIC_sig
PERL_MAGIC_substr
PERL_MAGIC_sv|5.007002||p
PERL_MAGIC_taint|5.007002||p
PERL_MAGIC_tie|5.007002||p
PERL_MAGIC_tied|5.007002||p
PERL_MAGIC_tiedscalar|5.007002||p
PERL_MAGIC_tiedelem|5.007002||p
PERL_MAGIC_utf8|5.008001||p
PERL_MAGIC_uvar|5.007003||p
PERL_MAGIC_uvar_elem|5.007003||p
PERL_MAGIC_vec|5.007002||p
PERL_MAGIC_vstring|5.008001||p
PERL_PV_ESCAPE_ALL|5.009004||p
PERL_PV_ESCAPE_FIRSTCHAR|5.009004||p
PERL_PV_ESCAPE_NOBACKSLASH|5.009004||p
PERL_PV_ESCAPE_NOCLEAR|5.009004||p
PERL_PV_ESCAPE_QUOTE|5.009004||p
PERL_PV_ESCAPE_RE|5.009005||p
PERL_PV_ESCAPE_UNI_DETECT|5.009004||p
PERL_PV_ESCAPE_UNI|5.009004||p
PERL_PV_PRETTY_DUMP|5.009004||p
PERL_PV_PRETTY_ELLIPSES|5.010000||p
PERL_PV_PRETTY_LTGT|5.009004||p
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taint_env||
taint_proper||
tied_method||v
tmps_grow|5.006000|
toLOWER||
toUPPER||
to_byte_substr||
to_uni_fold|5.007003|
to_uni_lower_lc|5.006000|
to_uni_lower|5.007003|
to_uni_title_lc|5.006000|
to_uni_title|5.007003|
to_uni_upper_lc|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||
token_getmad||
tokenize_use||
tokeq||
tokereport||
too_few_arguments||
too_many_arguments||
try_amagic_bin||
try_amagic_un||
uiv_2buf|n
unlnk||
unpack_rec||
unpack_str|5.007003|
unpackstring|5.008001|
unreferenced_to_tmp_stack||
unshare_hek_or_pvn||
unshare_hek||
unsharepvn|5.004000|
unwind_handler_stack||
update_debugger_info||
upg_version|5.009005|
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}), "un";
    }
    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 = $hint->[0] eq 'Hint' ? %hints : %warnings;
        ...
if (m{^\s*\^\s*(\d+)?\s*$}) {
    for (@{[Hint->[1]]}) {
        $h->[$_] ||= ";";  # suppress warning with older perls
        $h->[$_] .= "$1\n"
    }
} else { undef $Hint }

$Hint = [S1, [split /,?s+/, $2]]
    if m{^\s*\s*rccs\s+(Hint|Warning):\s+(\w+(?:,?s+\w+)*)\s*$};

if ($define) {
    if ($define->[1] =~ /\$/) {
        $define->[1] .= $_;
    }
    else {
        if (exists $API{$define->[0]} && $define->[1] !~ /^DPPP_\s/)
        {
            my @n = find_api($define->[1]);
            push @{$depends{$define->[0]}}, @n if @n
        }
        undef $define;
    }
}

$define = [S1, $2] if m{^\s*\s*rccs\s+(define):\s+(\w+(?:,?s+\w+)*)\s*$};

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 = [S1, ""] if m{^DPPP_\(my_(\w+)\)};

$replace = $1 if m{^\s*\s*rccs\s+Replace:\s+(?w+)+\s+$rcce\s*$};
$replace = $1 if $replace and m{^\s*\s*\$\s+(\w+)?(\w+)\s*$};
$replace = $1 if m{^\s*\s*rccs\s+Replace \s+(\w+)+\s+$rcce\s*$};
$replace = $1 if m{^\s*\s*rccs\s+Replace \s+(\w+)+\s+$rcce\s*$};
$replace = $1 if m{^\s*\s*rccs\s+Replace \s+(\w+)+\s+$rcce\s*$};
$replace = $1 if m{^\s*\s*rccs\s+Replace \s+(\w+)+\s+$rcce\s*$};
$replace = $1 if m{^\s*\s*rccs\s+Replace \s+(\w+)+\s+$rcce\s*$};
$replace = $1 if m{^\s*\s*rccs\s+Replace \s+(\w+)+\s+$rcce\s*$};
$replace = $1 if m{^\s*\s*rccs\s+Replace \s+(\w+)+\s+$rcce\s*$};
if (m{^\s*\s*rccs\s+Replace \s+(\w+)+\s+$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{$_}++, @$_];
}

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: \n\n", @[$depends{$f}], "\n\n" if exists $depends{$f};
            print "\n\nWARNING:\n\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'}":."
    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 { /(^\).*\$f/ ? ($1.c => 1, "$1.cc" => 1) : () } @files;
for (@files) {
    my $out = exists $xsc{$_} || /\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: $!
"; 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{\n\( ^\$HS*\#$HS*include\b[^\r\n]+\b(?:\Q$ppport\E|XSUB.h)\b[^\r\n]* \n\| ^\$HS*\#$HS*(?:define|elif|if(?:def)?)\b[^\r\n]* \n\| ^\$HS*\#$HS*[\^\r\n]* \n\| ^\$HS*\#$HS*[^\r\n]+\b(?:\Q$ppport\E|XSUB.h)\b[^\r\n]* \n\| / (?: \*[^\*]*\*+(?:[^$ccs]\[^*]*\*+)* / | \[^\r\n]* ) \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[^\r\n]/
    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 $file{uses}{$_};
}
}
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

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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}}) {
warning("Uses $func instead of $replace{$func}");
$file{changes} += ($c =~ s/\b$func\b/$replace{$func}/g);
}

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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/^$HS*#define$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/^(?=$HS*#define$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/^(?=$HS*#define$HS+NEED_\w\w+)/$pp/m)
            || ($c =~ s/^(?=$HS*#include.*Q$ppport\E)/$pp/m)
            || ($c =~ s/^(?=$HS*#include.*XSUB.*s*?)/$pp/m)
            || ($c =~ s/^/$pp/);
    }
else {
    if ($file{has_inc_ppport}) {
        diag("No need to include \'$ppport\'");
        $file{changes} += ($c =~ s/^(?=$HS*?#HS*include.*Q$ppport\E.*?SLF//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} += $c =~ s/$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: $!");
            }
        }
    } elseif (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

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 $tmp |") {
        while (<F>) {
            s/\Q$\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+/) { return ($1, $2, $3); } 
    elsif ($ver !~ /^\d+/) { die "cannot parse version '$ver'\n"; } 
    $ver =~ s/\d+/\d{3}/g;
    $ver =~ s/\d{3}/000000/;
    my($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/\d+/\d{3}/g;
    $ver =~ s/\d{3}/000000/;
    return ($r, $v, $s);
}
my($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.d.03d", $r, $v;
    $s > 0 and $ver .= sprintf "_02d", $s;

    return $ver;
}

return sprintf "%d.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 };
\$@ 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";

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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]\[^*]*\*+)* / | /\[^
\]*#| ( "[^"\\]*(?:\\.[^"\\]*)*" | '[^'\\]*(?:\\.[^'\\]*)*' )#| ($HS+) # defined $2 ? ' ' : ($1 || '') #gsex;
$c =~ s!\s+$!!mg;
$c =~ 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):
No license file was found, but licenses were detected in source scan.

=back
=head1 AUTHORS
See the authors list in I<File::Spec>. Mac OS support by Paul Schinder
<schinder@pobox.com> and Thomas Wegner <wegner_thomas@yahoo.com>.

=head1 COPYRIGHT
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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/1103681451_1_604394359.21/0/perl-PathTools-3.40-5.el7.src.rpm-cosi-expand-archive-DpVjNfWn/PathTools-3.40.tar.gz-cosi-expand-archive-fwcuewDv/PathTools-3.40/lib/File/Spec/Mac.pm
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=back

=begin

=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.
SEE ALSO

- `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).

- `Test`: is the old testing module. Its main benefit is that it has been distributed with Perl since 5.004_05.

- `Test::Harness`: for details on how your test results are interpreted by Perl.

- `Test::Differences`: for more ways to test complex data structures. And it plays well with `Test::More`.

- `Test::Class`: is like XUnit but more perlish.

- `Test::Deep`: gives you more powerful complex data structure testing.

- `Test::Unit`: is XUnit style testing.

- `Test::Inline`: shows the idea of embedded testing.

- `Bundle::Test`: installs a whole bunch of useful test modules.

AUTHORS

Michael G Schwern <schwern@pobox.com> 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.

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See F<http://www.perl.com/perl/misc/Artistic.html>
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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...

  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 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 $btaste = Film->new({ Title    => 'Bad Taste',
                        Director => 'Peter Jackson',
                        Rating   => 'R',
                        NumExplodingSheep => 1
                    });
ok( defined($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->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.

=heading1 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

=heading1 AUTHORS

Idea by Tony Bowden and Paul Johnson, code by Michael G Schwern
E<lt>schwern@pobox.comE<gt>, wardrobe by Calvin Klein.

=heading1 COPYRIGHT

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 * for the details of why the BSD license is compatible with the
 * AL/GPL standard perl license.
 */

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 * SUCH DAMAGE.
 */

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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...

<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 number</td>
<td>how many failed (including missing or extras)</td>
</tr>
</tbody>
</table>

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
E<lt>schwern@pobox.comE<gt>

=head1 COPYRIGHT

Copyright 2002 by chromatic E<lt>chromatic@wgz.orgE<gt>,
Michael G Schwern E<lt>schwern@pobox.comE<gt>.

This program is free software; you can redistribute it and/or
modify it under the same terms as Perl itself.

See F<http://www.perl.com/perl/misc/Artistic.html>
For File::Spec::Win32 Maintainers

Novell NetWare inherits its File::Spec behaviour from File::Spec::Win32.

=head1 COPYRIGHT

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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

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

Test::Tutorial - A tutorial about writing really basic tests

=head1 DESCRIPTION

I<AHHHHHHHH!!!! 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.
use Test::Simple tests => 2;
ok( 1 + 1 == 2 );
ok( 2 + 2 == 5 );

from that comes

1..2
ok 1
not ok 2
#   Failed test (test.pl at line 5)
# Looks like you failed 1 tests of 2.

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
congratulations, you've written your first useful test.

=head2 Names

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

=head2 Test the manual

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()> function, 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.
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, 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 C<%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 C<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 C<plan()>
function.

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<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" );

is( $t2->epoch, 0, " and back to ICal" );
}

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". Hmm, 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. 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.

=head2 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 I<all> code in your program and I<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 C<-T> into the C<#!> line. Test::Harness will read the switches in C<#!> and use them to run your tests.

    #!/usr/bin/perl -Tw

    ...test normally here...

So when you say C<make test> it will be run with taint mode and warnings on.

=head1 FOOTNOTES

=over 4

=item 1

The first number doesn't really mean anything, but it has to be 1. It's the second number that's important.

=item 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.

=item 3

You can actually take this one step further and test the manual itself. Have a look at B<Test::Inline> (formerly B<Pod::Tests>).

=item 4
Yes, there's a mistake in the test suite. What! Me, contrived?

=item 5

We'll get to testing the contents of lists later.

=item 6

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.

=item 7

I cleaned it up a little.

=item 8

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.

=item 9

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.

=item 10

As long as the code inside the SKIP block at least compiles. Please don't ask how. No, it's not a filter.

=item 11

Do NOT be tempted to use TODO tests as a way to avoid fixing simple bugs!

=back

=head1 AUTHORS

Michael G Schwern <lt>schwern@pobox.comE<gt> and the perl-qa dancers!

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=head1 SEE ALSO

See \texttt{File::Spec} and \texttt{File::Spec::Unix}. This package overrides the implementation of these methods, not the semantics.
An explanation of VMS file specs can be found at

=cut

Found in path(s):
* /opt/cola/permits/1103681451_1604394359.21/0/perl-PathTools-3.40-5.el7.src.rpm-cosi-expand-archive-
  DpVjNfWn/PathTools-3.40.tar.gz-cosi-expand-archive-fwcuewDv/PathTools-3.40/lib/File/Spec/VMS.pm
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L<File::Spec>

=cut

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  DpVjNfWn/PathTools-3.40.tar.gz-cosi-expand-archive-fwcuewDv/PathTools-3.40/lib/File/Spec/Unix.pm
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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 6.62, 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:
**NAME**

File::Spec - portably perform operations on file names

**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');

**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 König, 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

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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( $opath );

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 :-)

$path = 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

$path = File::Spec->catfile( @directories, $filename );

=item curdir
X<curdir>

Returns a string representation of the current directory.

$curdir = File::Spec->curdir();

=item devnull
X<devnull>

Returns a string representation of the null device.

$devnull = File::Spec->devnull();

=item rootdir
X<rootdir>

Returns a string representation of the root directory.

$rootdir = File::Spec->rootdir();

=item tmpdir
X<tmpdir>

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();

=item updir
X<updir>

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.)

```perl
@paths = File::Spec->no_upwards( @paths );
```

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.

```perl
$is_case_tolerant = File::Spec->case_tolerant();
```

Takes as its argument a path, and returns true if it is an absolute path.

```perl
$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>).

Takes no argument. Returns the environment variable C<PATH> (or the local platform's equivalent) as a list.

```perl
@PATH = File::Spec->path();
```

join is the same as catfile.

Splits a path in to volume, directory, and filename portions. On systems with no concept of volume, returns " for volume.

```perl
($volume,$directories,$file) = File::Spec->splitpath( $path );
($volume,$directories,$file) = File::Spec->splitpath( $path, $no_file );
```
For systems with no syntax differentiating filenames from directories, assumes that the last file is a path unless \texttt{C<$no_file> is true or a trailing separator or F</> or F</.> is present. On Unix, this means that \texttt{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 \texttt{L</catpath()> to get back a path equivalent to (usually identical to) the original path.

\item splitdir
\item catpath()
\item abs2rel

The opposite of \texttt{L</catdir>.

\item @dirs = File::Spec->splitdir( $directories );

\texttt{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<"">) can be returned, because these are significant on some OSes.

\item $full_path = File::Spec->catpath( $volume, $directory, $file );

\item $rel_path = File::Spec->abs2rel( $path ) ;

\item $rel_path = File::Spec->abs2rel( $path, $base ) ;

If \texttt{C<$base> is not present or ", then L<Cwd::cwd()Cwd> is used. If \texttt{C<$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()Cwd>.}
On systems with the concept of volume, if \(<$path>\) and \(<$base>\) appear to be on two different volumes, we will not attempt to resolve the two paths, and we will instead simply return \(<$path>\). Note that previous versions of this module ignored the volume of \(<$base>\), which resulted in garbage results part of the time.

On systems that have a grammar that indicates filenames, this ignores the \(<$base>\) filename as well. Otherwise all path components are assumed to be directories.

If \(<$path>\) 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()

|rel2abs| absolute, path| relative, path|

Converts a relative path to an absolute path.

```
$abs_path = File::Spec->rel2abs( $path ) ;
$abs_path = File::Spec->rel2abs( $path, $base ) ;
```

If \(<$base>\) is not present or ", then L</Cwd::cwd()> is used. If \(<$base>\) 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 \(<$path>\) and \(<$base>\) appear to be on two different volumes, we will not attempt to resolve the two paths, and we will instead simply return \(<$path>\). Note that previous versions of this module ignored the volume of \(<$base>\), which resulted in garbage results part of the time.

On systems that have a grammar that indicates filenames, this ignores the \(<$base>\) filename as well. Otherwise all path components are assumed to be directories.

If \(<$path>\) 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.
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

L<File::Spec::Unix>, L<File::Spec::Mac>, L<File::Spec::OS2>,
L<File::Spec::Win32>, L<File::Spec::VMS>, L<File::Spec::Functions>,
L<ExtUtils::MakeMaker>

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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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  DpVjnWn/PathTools-3.40.tar.gz-cosi-expand-archive-fwcuewDv/PathTools-3.40/lib/File/Spec.pm
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=head1 NAME

File::Spec::OS2 - methods for OS/2 file specs
SYNOPSIS

require File::Spec::OS2; # Done internally by File::Spec if needed

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.

$ENV{TMPDIR}
$ENV{TEMP}
$ENV{TMP}
/tmp
/

-item splitpath

Volumes can be drive letters or UNC sharenames (\server\share).

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=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
rootdir
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.

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=head1 SEE ALSO

File::Spec, File::Spec::Unix, File::Spec::Mac, File::Spec::OS2,
File::Spec::Win32, File::Spec::VMS, ExtUtils::MakeMaker

=cut

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* /opt/cola/permits/1103681451_1604394359.21/0/perl-PathTools-3.40-5.el7.src.rpm-cosi-expand-archive-
  DpVjNfWn/PathTools-3.40.tar.gz-cosi-expand-archive-fwcuewDv/PathTools-3.40/lib/File/Spec/Functions.pm

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1.131 perl-text-parsewords 3.29
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--

1.132 yum 3.4.3
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1.133 stax 3.1.4
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1.134 hibernate 3.5.3

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<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

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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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Public License instead of this License.

1.151 redhat-indexhtml 7
1.151.1 Available under license:
No license file was found, but licenses were detected in source scan.

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Found in path(s):
* /opt/cola/permits/1103681523_1604394559.59/0/redhat-indexhtml-7-13.el7-1.src.rpm-cosi-expand-archive-
JvdD79ge/redhat-indexhtml-7-5.tar.gz-cosi-expand-archive-xNg1Q2bf/HTML/common/fonts/overpass_bold-
web.svg
No license file was found, but licenses were detected in source scan.

Summary: Browser default start page for Red Hat Enterprise Linux
Name: redhat-indexhtml
Version: 7
Release: 13%{?dist}
Source: %{name}-%{version}-5.tar.gz
License: Distributable
Group: Documentation
BuildArchitectures: noarch
Obsoletes: indexhtml <= 2:5-1

%description
The indexhtml package contains the welcome page shown by your Web browser,
which you'll see after you've successfully installed Red Hat Enterprise Linux.

The Web page provided by indexhtml tells you how to register your Red
Hat software and how to get any support that you might need.

%prep
%setup -q -n HTML

%build
%install
mkdir -p $RPM_BUILD_ROOT/%{_defaultdocdir}/HTML
cp -a . $RPM_BUILD_ROOT/%{_defaultdocdir}/HTML/

%files
%{_defaultdocdir}/HTML/*

%changelog
* Tue May 29 2018 Petr Kovar <pkovar@redhat.com> - 7-13
  - New content tarball to update links in translations
  - Remove unsupported translations

* Thu Apr 12 2018 Petr Kovar <pkovar@redhat.com> - 7-12
  - New content tarball to fix broken links

* Wed May 21 2014 Paul W. Frields <pfrields@redhat.com> - 7-11
  - Bump release for rebuild

* Wed May 21 2014 Paul W. Frields <pfrields@redhat.com> - 7-10
  - Fix for unsupported locale

* Thu May 15 2014 Paul W. Frields <pfrields@redhat.com> - 7-9
  - New content tarball to fix errant translation files (Resolves: rhbz1055849)
  - Remove obsolete feedback.html and unsupported locale

* Fri Mar 28 2014 Paul W. Frields <pfrields@redhat.com> - 7-8
  - Strip obsolete HTML files (BZ#1059300)

* Wed Mar 05 2014 Paul W. Frields <pfrields@redhat.com> - 7-7
  - New content tarball

* Fri Dec 27 2013 Daniel Mach <dmach@redhat.com> - 7-5
  - Mass rebuild 2013-12-27

* Tue Nov 19 2013 Ruediger Landmann <rlandmann@redhat.com> - 7-4
  - update URLs for 7-Beta (BZ#1031104)

* Tue Aug 27 2013 Jens Petersen <petersen@redhat.com> - 7-3
  - move common/ subdirs into HTML/

* Fri Feb 22 2013 Ruediger Landmann <rlandmann@redhat.com> - 7-2
  - rm stray tarball (BZ#799063)

* Tue Jun 26 2012 Ruediger Landmann <rlandmann@redhat.com> - 7-1
  - Rebuild for RHEL7 (BZ#799063)

* Fri Aug 27 2010 Parag Nemade <pnemade AT redhat.com> - 6-1
- Respin the tarball to include translated pages (#626997)

* Thu Aug 26 2010 Parag Nemade <pnemade AT redhat.com> - 6-0.7
  - final English content (#626997)

* Thu Jul 29 2010 Parag Nemade <pnemade AT redhat.com> - 6-0.6
  - Resolves: rh#578072-index.html page is not localized. Showing en-US/index.html page

* Wed May 12 2010 Michael Hideo <mhideo@redhat.com> - 6-0.5
  - BZ#578072
  - New content payload from pm group

* Thu Apr 15 2010 Jens Petersen <petersen@redhat.com>
  - don't install the tarball
  - update localized index.html files to show "6 Beta"

* Mon Feb 15 2010 Michael Hideo <mhideo@redhat.com> - 6-0.2
  - enabling i18n

* Thu Feb 4 2010 Jens Petersen <petersen@redhat.com> - 6-0.1
  - rename from indexhtml to redhat-indexhtml
  - redirect to beta page

* Tue Aug 08 2006 Phil Knirsch <pknirsch@redhat.com> 5-1
  - Minor cleanup to specfile
  - Bumped version and release properly for RHEL5

* Fri Jul 29 2005 Bill Nottingham <notting@redhat.com> 4.1-1
  - Russian (#160605)

* Tue Nov 30 2004 Bill Nottingham <notting@redhat.com> 4-2
  - initial translations

* Mon Nov 22 2004 Bill Nottingham <notting@redhat.com> 4-0.1
  - initial build for RHEL 4

Found in path(s):
* /opt/cola/permits/1103681523_1604394559.59/0/redhat-indexhtml-7-13.el7-1.src.rpm-cosi-expand-archive-JvdD79ge/redhat-indexhtml.spec
  No license file was found, but licenses were detected in source scan.

*/
* Bootstrap v3.0.3 (http://getbootstrap.com)
* Copyright 2013 Twitter, Inc.
* Licensed under http://www.apache.org/licenses/LICENSE-2.0
*/

Found in path(s):
1.152 perl-version 0.99.07

1.152.1 Available under license:

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

version 0.9907
==================================
Full version object support, with patch for bug in Perl 5.10.0 core version support.

YOU SHOULD INSTALL THIS RELEASE WHEN USING VERSION OBJECTS IN PERL 5.10.0.
There was a bug caused by objects serialized by YAML that will cause Perl 5.10.0 to segfault. As long as some module calls 'use version', then the replacement code will take effect and Perl will not crash.

Major Changes in 0.9907 - 2014-01-12
=====================================
Lots of optimizations of XS and C code courtesy of Daniel Dragan (bulk88@hotmail.com). Lots of minor tweaks as well.

Resolves:
https://rt.cpan.org/Ticket/Display.html?id=91892
https://rt.cpan.org/Ticket/Display.html?id=91867
https://rt.cpan.org/Ticket/Display.html?id=91987
https://rt.cpan.org/Ticket/Display.html?id=92051

IMPORTANT CHANGE - 0.9906 is the last release that fully supports Perl releases prior to 5.6.2. It is just too much trouble to continue to fight to maintain full backward compatibility.

Major Changes in 0.9906 - 2014-01-04
=====================================
Applied C89 compatibility fix from Karl Williamson to vxs.inc. Added back support for $version::LAX and $version::STRICT to resolve:

https://rt.cpan.org/Ticket/Display.html?id=88458
https://rt.cpan.org/Ticket/Display.html?id=91858
https://rt.cpan.org/Ticket/Display.html?id=91868

Major Changes in 0.9905 - 2014-01-04
=====================================
Major rewrite of XS code to permit easier inclusion in core Perl (mostly written by Father Chrysostomos <sprout@cpan.org>). XS code is no longer
supported for any Perl < v5.10, although the pure Perl code still works going back to 5.005_04.

In addition, the version::vpp class is now completely independent and can be used exactly like the base version class. It is still better to use the base class for compatibility purposes.

Major Changes in 0.9904 - 2013-08-20
===================================== Final upstream changes from bleadperl. Resolves RT tickets:

https://rt.cpan.org/Ticket/Display.html?id=87513
https://rt.cpan.org/Ticket/Display.html?id=87983

Major Changes in 0.9903 - 2013-08-18
===================================== Upstream test changes from bleadperl. Include version::vpp even when installing XS version. Subtle locale test changes.

Major Changes in 0.9902 - 2013-03-05
===================================== Upstream test changes from bleadperl. Support env PERL_ONLY=1 as well as --perl-only. version::new with no arguments reads past the end of the stack.

Major Changes in 0.9901 - 2012-04-26
===================================== Fix problem with short floating point alpha versions (e.g. 0.52_0).

Major Changes in 0.99 - 2012-04-26
==================================== Apply missing patch from core Perl to prevent overflow with ludicrous versions.

Major Changes in 0.98 - 2012-04-25
==================================== Apply patch from core Perl to prevent overflow with ludicrous versions.

Major Changes in 0.97 - 2012-02-28
==================================== Minor tweak to locale test to skip if no locales are installed at all.

Major Changes in 0.96 - 2012-02-06
==================================== Merge in upstream changes from bleadperl. Improved locale tests.

Major Changes in 0.95 - 2011-11-12
Restore compatibility in replacement UNIVERSAL::VERSION with the behavior of Perl 5.14.x, essentially by reverting the changes in


Fix segfault error with strings that begin with 'v', especially the string 'version'. Resolves:

https://rt.cpan.org/Ticket/Display.html?id=72365

Forbid all math operations on version objects in base class (this was already the case for XS code but the pure Perl was lacking). Resolves:

https://rt.cpan.org/Public/Bug/Display.html?id=70950

Major Changes in 0.94 - 2011-08-21

Clarify documentation on advisability of using leading 'v' (it isn't mandatory, but it is much more likely to DTRT). Resolves:

https://rt.cpan.org/Public/Bug/Display.html?id=70120

Use a localized DIE handler when attempting to load the XS code, in case the caller has its own DIE handler. Resolves:

https://rt.cpan.org/Public/Bug/Display.html?id=70260

Major Changes in 0.93 - 2011-07-27

Fix problem with UNIVERSAL::VERSION noted by Father Chrysostomos.

Major Changes in 0.92 - 2011-07-26

Forbid negative versions. Make replacement UNIVERSAL::VERSION return the original $VERSION scalar if called without a requested version. Resolves


Rewrite code so that we just override all subs for Perl >= 5.9.0 (when version.pm was added to the core).

Major Changes in 0.91 - 2011-06-05

Fix compilation/linking on Strawberry Perl, resolves

https://rt.cpan.org/Ticket/Display.html?id=68611
Major Changes in 0.90 - 2011-06-01
=======================================
Make all tests pass even with older Test::More releases. Resolves

https://rt.cpan.org/Ticket/Display.html?id=68588

Major Changes in 0.89 - 2011-05-31
=======================================
Change behavior of pure Perl qv/declare to match the core/XS behavior; do not use parent's new() class for derived classes. This breaks encapsulation but I can justify it because qv/declare is a very specific thing that shouldn't be casually overridden (unless you do it directly in the subclass).

Major Changes in 0.88 - 2010-12-19
=======================================
Fix Makefile.PL to make Strawberry Perl happy. Resolves:

https://rt.cpan.org/Public/Bug/Display.html?id=63991

Major Changes in 0.87 - 2010-12-09
=======================================
Remove Build.PL since there are modules in the Module::Build tool chain that require version.pm, leading to circular dependencies. This also allows Module::Build itself to depend on version.pm.

Major Changes in 0.86 - 2010-11-26
=======================================
is_strict/is_lax were not exported correctly (which no one noticed). Also pull in strict/lax tests from core.

Major Changes in 0.85 - 2010-10-25
=======================================
Don't include MYMETA.yml file in distro

Major Changes in 0.84 - 2010-10-24
=======================================
Restore public API vcmp() broken in 0.83

Major Changes in 0.83 - 2010-10-17
=======================================
Changed vverify API (David Golden). Improved heuristic for non-magical v-strings (Perl 5.6.0-5.8.0). Install in proper patch post-@INC reordering.

Major Changes in 0.82 - 2010-04-13
=======================================
Still more changes to sync with Perl 5.12.0-asreleased. Rewritten POD
thanks to many hands, but mostly David Golden. Vastly improved Regex
definitions from Zephram.

Major Changes in 0.81 - 2010-02-01
=====================================  
Merge in changes from bleadperl that will be part of Perl 5.12.0.  
Completely rewrite pure Perl code to operate exactly like the XS code,  
through the creation of a character-array class called charstar. Now  
the pure Perl code and XS code can be more easily be synchronized.

Major Changes in 0.80 - 2010-01-21
=====================================  
No outwardly visible changes. This release is to fix an assertion error  
with certain picky/older compilers. NOTE: this is not the version object  
code that will be part of Perl 5.12.0, which will be released shortly as  
0.81.

Major Changes in 0.79 - 2010-01-03
=====================================  
No outwardly visible changes. This release is to match the code that  
will part of Perl 5.12.0, but which doesn't affect the external API of  
the CPAN release.

Major Changes in 0.78 - 2009-10-12
=====================================  
More changes to improve the non-magic v-string heuristics, this time  
affecting both the pure Perl and XS backends. NOTE: these fixes only  
matter if you are running Perl 5.6.x to 5.8.0 (inclusive). Beginning  
with Perl 5.8.1, v-strings are now magical and version.pm no longer has  
to guess. Resolves:

https://rt.cpan.org/Ticket/Display.html?id=50347  

Also resolve the issue where attempting to install CPAN releases on top  
of core releases (e.g. 5.10.0 and 5.10.1) would not DTRT. Resolves:

https://rt.cpan.org/Ticket/Display.html?id=49667  

Major Changes in 0.7702 - 2009-09-07  
=====================================  
Add additional contraints to the code which tries to guess whether something  
is a v-string or not for Perl 5.6.0 through 5.8.0 (inclusive). Resolves:

https://rt.cpan.org/Ticket/Display.html?id=49348  

Major Changes in 0.7701 - 2009-07-28
=====================================
Special RHEL4.x/Fedora4.x Are Too Stupid to Live Release. Those distros have never updated beyond Perl 5.8.5/5.8.6 respectively. Consequently, they contain a complete broken Test::More::use_ok which doesn't load the package into the correct namespace:

https://rt.cpan.org/Ticket/Display.html?id=48268

thus causing mysterious test failures. No version.pm code was changed at all. :(

Major Changes in 0.77 - 2009-07-26
===================================

Complete POD rewrite to document common usage in version.pod and put all of the implementation details into version::Internals.

Resolve a number of RT tickets:
RT#48135 - Compilation failure using MS VC++ 7.0.
RT#47980 - Remove need for runtime class loading in pure Perl code
RT#46921 - locale and eval action at a distance.
RT#45241 - mistaken regex to convert large exponential numbers to non-exponential form before scanning.

Please read the POD documentation for usage/details. See the CHANGES file for full details of all changes to the module behavior.

INSTALLATION

To install this module type the following:

    $ perl Makefile.PL
    $ make
    $ make test
    # make install

This release includes an optional pure Perl implementation (in case you don't have a C-compiler or if some reason you want your code to be much slower). You can test it by replacing the first line above with:

    $ perl Makefile.PL --perl_only

and it will install the Perl only version.

DEPENDENCIES

The same C compiler used to build Perl (or not). Module::Build 0.2611 or better.
Module::Build installs fine under 5.005_03 or better, though the optional
dependency Archive::Tar doesn’t. If you install Module::Build without any
of the optional dependencies, you can safely install version.pm.

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---

directory: - t

requires:
  File::Temp: 0.13
  Test::More: 0.45
  parent: 0.221
  perl: 5.006002
version: 0.9907

Found in path(s):
* /opt/cola/permits/1103682131_1604395604.92/0/perl-version-0.99.07-3.el7-1.src.rpm-cosi-expand-archive-
YTRMcK63/version-0.9907.tar.gz-cosi-expand-archive-oO6aqdHu/version-0.9907/META.yml
No license file was found, but licenses were detected in source scan.

=head1 NAME

version::Internals - Perl extension for Version Objects

=head1 DESCRIPTION

Overloaded version objects for all modern versions of Perl. This documents
the internal data representation and underlying code for version.pm. See
F<version.pod> for daily usage. This document is only useful for users
interested in the gory details.

=head1 WHAT IS A VERSION?

For the purposes of this module, a version "number" is a sequence of
positive integer values separated by one or more decimal points and
optionally a single underscore. This corresponds to what Perl itself
uses for a version, as well as extending the "version as number" that
is discussed in the various editions of the Camel book.

There are actually two distinct kinds of version objects:

=over 4

=item Decimal Versions

Any version which "looks like a number", see L<Decimal Versions>. This
also includes versions with a single decimal point and a single embedded
underscore, see L<Alpha Versions>, even though these must be quoted
to preserve the underscore formatting.

=item Dotted-Decimal Versions

Also referred to as "Dotted-Integer", these contains more than one decimal
point and may have an optional embedded underscore, see L<Dotted-Decimal
Versions>. This is what is commonly used in most open source software as
the "external" version (the one used as part of the tag or tarfile name).
A leading 'v' character is now required and will warn if it missing.

=back

Both of these methods will produce similar version objects, in that
the default stringification will yield the version L</Normal Form> only
if required:

$\text{v} = \text{version->new(1.002);} \quad \# 1.002, \text{but compares like 1.2.0}
$\text{v} = \text{version->new(1.002003);} \quad \# 1.002003
$\text{v2} = \text{version->new("v1.2.3");} \quad \# v1.2.3

In specific, version numbers initialized as L</Decimal Versions> will
stringify as they were originally created (i.e. the same string that was
passed to C<new>). Version numbers initialized as L</Dotted-Decimal Versions>
will be stringified as L</Normal Form>.

=head2 Decimal Versions

These correspond to historical versions of Perl itself prior to 5.6.0,
as well as all other modules which follow the Camel rules for the
$\text{VERSION}$ scalar. A Decimal version is initialized with what looks like
a floating point number. Leading zeros B<are> significant and trailing
zeros are implied so that a minimum of three places is maintained
between subversions. What this means is that any subversion (digits
to the right of the decimal place) that contains less than three digits
will have trailing zeros added to make up the difference, but only for
purposes of comparison with other version objects. For example:

<table>
<thead>
<tr>
<th># Prints</th>
<th>Equivalent to</th>
</tr>
</thead>
<tbody>
<tr>
<td>$v = \text{version-&gt;new(0.02);} \quad # 0.02 \quad v0.0200</td>
<td></td>
</tr>
<tr>
<td>$v = \text{version-&gt;new(0.2);} \quad # 0.2 \quad v0.2000</td>
<td></td>
</tr>
<tr>
<td>$v = \text{version-&gt;new(0.0203);} \quad # 0.0203 \quad v0.2030</td>
<td></td>
</tr>
<tr>
<td>$v = \text{version-&gt;new(0.020333);} \quad # 0.020333 \quad v0.2033</td>
<td></td>
</tr>
</tbody>
</table>

All of the preceding examples are true whether or not the input value is
quoted. The important feature is that the input value contains only a
single decimal. See also L</Alpha Versions>.

IMPORTANT NOTE: As shown above, if your Decimal version contains more
than 3 significant digits after the decimal place, it will be split on
each multiple of 3, so 0.0003 is equivalent to v1.0.300, due to the need
to remain compatible with Perl’s own 5.005_03 == 5.5.30 interpretation.
Any trailing zeros are ignored for mathematical comparison purposes.

=head2 Dotted-Decimal Versions

These are the newest form of versions, and correspond to Perl’s own
version style beginning with 5.6.0. Starting with Perl 5.10.0,
and most likely Perl 6, this is likely to be the preferred form. This
method normally requires that the input parameter be quoted, although
Perl's after 5.8.1 can use v-strings as a special form of quoting, but this is highly discouraged.

Unlike L<Decimal Versions>, Dotted-Decimal Versions have more than a single decimal point, e.g.:

```
# Prints
$v = version->new("v1.200");  # v1.200.0  
v = version->new("v1.20.0"); # v1.20.0
$v = qv("v1.2.3");            # v1.2.3
$v = qv("1.2.3");             # v1.2.3
$v = qv("1.20");             # v1.20.0
```

In general, Dotted-Decimal Versions permit the greatest amount of freedom to specify a version, whereas Decimal Versions enforce a certain uniformity.

Just like L<Decimal Versions>, Dotted-Decimal Versions can be used as L<Alpha Versions>.

=head2 Alpha Versions

For module authors using CPAN, the convention has been to note unstable releases with an underscore in the version string. (See L<CPAN>.) version.pm follows this convention and alpha releases will test as being newer than the more recent stable release, and less than the next stable release. Only the last element may be separated by an underscore:

```
# Declaring
use version 0.77; our $VERSION = version->declare("v1.2_3");

# Parsing
$v1 = version->parse("v1.2_3");
v1 = version->parse("1.002_003");
```

Note that you B<must> quote the version when writing an alpha Decimal version. The stringified form of Decimal versions will always be the same string that was used to initialize the version object.

=head2 Regular Expressions for Version Parsing

A formalized definition of the legal forms for version strings is included in the C<version::regex> class. Primitives are included for common elements, although they are scoped to the file so they are useful for reference purposes only. There are two publicly accessible scalars that can be used in other code (not exported):

=over 4

=item C<$version::LAX>

This regexp covers all of the legal forms allowed under the current version string parser. This is not to say that all of these forms are recommended, and some of them can only be used when quoted.

For dotted decimals:

v1.2
1.2345.6
v1.23_4

The leading 'v' is optional if two or more decimals appear. If only a single decimal is included, then the leading 'v' is required to trigger the dotted-decimal parsing. A leading zero is permitted, though not recommended except when quoted, because of the risk that Perl will treat the number as octal. A trailing underscore plus one or more digits denotes an alpha or development release (and must be quoted to be parsed properly).

For decimal versions:

1
1.2345
1.2345_01

an integer portion, an optional decimal point, and optionally one or more digits to the right of the decimal are all required. A trailing underscore is permitted and a leading zero is permitted. Just like the lax dotted-decimal version, quoting the values is required for alpha/development forms to be parsed correctly.

=item C<$version::STRICT>

This regexp covers a much more limited set of formats and constitutes the best practices for initializing version objects. Whether you choose to employ decimal or dotted-decimal for is a personal preference however.

=over 4

=item v1.234.5

For dotted-decimal versions, a leading 'v' is required, with three or more sub-versions of no more than three digits. A leading 0 (zero) before the first sub-version (in the above example, '1') is also prohibited.
For decimal versions, an integer portion (no leading 0), a decimal point, and one or more digits to the right of the decimal are all required.

Both of the provided scalars are already compiled as regular expressions and do not contain either anchors or implicit groupings, so they can be included in your own regular expressions freely. For example, consider the following code:

```perl
($pkg, $ver) =~ /
^[ 	]*use [ 	]+($PKGNAME)
(?:[ 	]+($version::STRICT))?
[ 	]*; /x;
```

This would match a line of the form:

`use Foo::Bar::Baz v1.2.3;` # legal only in Perl 5.8.1+

where C<$PKGNAME> is another regular expression that defines the legal forms for package names.

=head1 IMPLEMENTATION DETAILS

=head2 Equivalence between Decimal and Dotted-Decimal Versions

When Perl 5.6.0 was released, the decision was made to provide a transformation between the old-style decimal versions and new-style dotted-decimal versions:

```
5.6.0    == 5.006000
5.005_04 == 5.5.40
```

The floating point number is taken and split first on the single decimal place, then each group of three digits to the right of the decimal makes up the next digit, and so on until the number of significant digits is exhausted, `B<plus>` enough trailing zeros to reach the next multiple of three.

This was the method that version.pm adopted as well. Some examples may be helpful:

`equivalent`
decimal    zero-padded    dotted-decimal
--------    -----------    --------------
1.2        1.200          v1.200.0
1.02       1.020          v1.20.0
1.002      1.002          v1.2.0
1.0023     1.002300       v1.2.300
1.00203    1.002030       v1.2.30
1.002003   1.002003       v1.2.3

=head2 Quoting Rules

Because of the nature of the Perl parsing and tokenizing routines, certain
initialization values must be quoted in order to correctly parse as the intended
version, especially when using the declare or L</qv()> methods. While you do not have
to quote decimal numbers when creating version objects, it is always safe to quote all initial values
when using version.pm methods, as this will ensure that what you type is what is used.

Additionally, if you quote your initializer, then the quoted value that goes in will be exactly what comes out when your $VERSION is printed (stringified). If you do not quote your value, Perl's normal numeric handling comes into play and you may not get back what you were expecting.

If you use a mathematic formula that resolves to a floating point number, you are dependent on Perl's conversion routines to yield the version you expect. You are pretty safe by dividing by a power of 10, for example, but other operations are not likely to be what you intend. For example:

$VERSION = version->new((qw$Revision: 1.4))[1]/10;
print $VERSION; # yields 0.14
$V2 = version->new(100/9); # Integer overflow in decimal number
print $V2; # yields something like 11.111.111.100

Perl 5.8.1 and beyond are able to automatically quote v-strings but that is not possible in earlier versions of Perl. In other words:

$version = version->new("v2.5.4"); # legal in all versions of Perl
$newvers = version->new(v2.5.4); # legal only in Perl >= 5.8.1

=head2 What about v-strings?

There are two ways to enter v-strings: a bare number with two or more decimal points, or a bare number with one or more decimal points and a leading 'v' character (also bare). For example:

$vs1 = 1.2.3; # encoded as \1\2\3
$vs2 = v1.2; # encoded as \1\2
However, the use of bare v-strings to initialize version objects is
B<strong>strongly</strong> discouraged in all circumstances. Also, bare
v-strings are not completely supported in any version of Perl prior to
5.8.1.

If you insist on using bare v-strings with Perl > 5.6.0, be aware of the
following limitations:

1) For Perl releases 5.6.0 through 5.8.0, the v-string code merely guesses,
based on some characteristics of v-strings. You B<must> use a three part
version, e.g. 1.2.3 or v1.2.3 in order for this heuristic to be successful.

2) For Perl releases 5.8.1 and later, v-strings have changed in the Perl
core to be magical, which means that the version.pm code can automatically
determine whether the v-string encoding was used.

3) In all cases, a version created using v-strings will have a stringified
form that has a leading 'v' character, for the simple reason that sometimes
it is impossible to tell whether one was present initially.

=head2 Version Object Internals

version.pm provides an overloaded version object that is designed to both
encapsulate the author's intended $VERSION assignment as well as make it
completely natural to use those objects as if they were numbers (e.g. for
comparisons). To do this, a version object contains both the original
representation as typed by the author, as well as a parsed representation
to ease comparisons. Version objects employ L<overload> methods to
simplify code that needs to compare, print, etc the objects.

The internal structure of version objects is a blessed hash with several
components:

```perl
bless( {
  'original' => 'v1.2.3_4',
  'alpha' => 1,
  'qv' => 1,
  'version' => [ 1,
    2,
    3,
    4
  ],
}, 'version' );
```

=end
=item original

A faithful representation of the value used to initialize this version object. The only time this will not be precisely the same characters that exist in the source file is if a short dotted-decimal version like v1.2 was used (in which case it will contain 'v1.2'). This form is B<STRONGLY> discouraged, in that it will confuse you and your users.

=item qv

A boolean that denotes whether this is a decimal or dotted-decimal version. See L<version/is_qv()>.

=item alpha

A boolean that denotes whether this is an alpha version. NOTE: that the underscore can only appear in the last position. See L<version/is_alpha()>.

=item version

An array of non-negative integers that is used for comparison purposes with other version objects.

=back

=head2 Replacement UNIVERSAL::VERSION

In addition to the version objects, this modules also replaces the core UNIVERSAL::VERSION function with one that uses version objects for its comparisons. The return from this operator is always the stringified form as a simple scalar (i.e. not an object), but the warning message generated includes either the stringified form or the normal form, depending on how it was called.

For example:

    package Foo;
    $VERSION = 1.2;

    package Bar;
    $VERSION = "v1.3.5"; # works with all Perl's (since it is quoted)

    package main;
    use version;

    print $Foo::VERSION; # prints 1.2

    print $Bar::VERSION; # prints 1.003005
eval "use foo 10";
print $@; # prints "foo version 10 required..."
eval "use foo 1.3.5; # work in Perl 5.6.1 or better
print $@; # prints "foo version 1.3.5 required..."

eval "use bar 1.3.6";
print $@; # prints "bar version 1.3.6 required..."
eval "use bar 1.004"; # note Decimal version
print $@; # prints "bar version 1.004 required..."

IMPORTANT NOTE: This may mean that code which searches for a specific string (to determine whether a given module is available) may need to be changed. It is always better to use the built-in comparison implicit in C<use> or C<require>, rather than manually poking at C<< class->VERSION >> and then doing a comparison yourself.

The replacement UNIVERSAL::VERSION, when used as a function, like this:

print $module->VERSION;

will also exclusively return the stringified form. See L</Stringification> for more details.

=head1 USAGE DETAILS

=head2 Using modules that use version.pm

As much as possible, the version.pm module remains compatible with all current code. However, if your module is using a module that has defined C<$VERSION> using the version class, there are a couple of things to be aware of. For purposes of discussion, we will assume that we have the following module installed:

package Example;
use version; $VERSION = qv('1.2.2');
...module code here...
1;

=over 4

=item Decimal versions always work

Code of the form:

use Example 1.002003;
will always work correctly. The $use will perform an automatic
$version comparison using the floating point number given as the first
term after the module name (e.g. above 1.002.003). In this case, the
installed module is too old for the requested line, so you would see an
error like:

Example version 1.002003 (v1.2.3) required--this is only version 1.002002 (v1.2.2)...

=item Dotted-Decimal version work sometimes

With Perl >= 5.6.2, you can also use a line like this:

use Example 1.2.3;

and it will again work (i.e. give the error message as above), even with
releases of Perl which do not normally support v-strings (see L<What about v-strings?> above). This has to do with
that fact that $use only checks
to see if the second term looks like a number and passes that to the
replacement L<UNIVERSAL::VERSION|UNIVERSAL/VERSION>. This is not true in Perl 5.005_04,
however, so you are B<strongly encouraged> to always use a Decimal version
in your code, even for those versions of Perl which support the Dotted-Decimal
version.

=back

=head2 Object Methods

=over 4

=item new()

Like many OO interfaces, the new() method is used to initialize version
objects. If two arguments are passed to $new(), the second one will be
used as if it were prefixed with "v". This is to support historical use of the
qw operator with the CVS variable $Revision, which is automatically
incremented by CVS every time the file is committed to the repository.

In order to facilitate this feature, the following
code can be employed:

.VERSION = version->new(qw$Revision: 2.7 $);

and the version object will be created as if the following code
were used:

.VERSION = version->new("v2.7");

In other words, the version will be automatically parsed out of the
string, and it will be quoted to preserve the meaning CVS normally carries for versions. The CVS $Revision$ increments differently from Decimal versions (i.e. 1.10 follows 1.9), so it must be handled as if it were a Dotted-Decimal Version.

A new version object can be created as a copy of an existing version object, either as a class method:

```perl
$v1 = version->new(12.3);
$v2 = version->new($v1);
```

or as an object method:

```perl
$v1 = version->new(12.3);
$v2 = $v1->new(12.3);
```

and in each case, $v1 and $v2 will be identical. NOTE: if you create a new object using an existing object like this:

```perl
$v2 = $v1->new();
```

the new object will not be a clone of the existing object. In the example case, $v2 will be an empty object of the same type as $v1.

=back

=over 4

=item qv()

An alternate way to create a new version object is through the exported qv() sub. This is not strictly like other q? operators (like qq, qw), in that the only delimiters supported are parentheses (or spaces). It is the best way to initialize a short version without triggering the floating point interpretation. For example:

```perl
$v1 = qv(1.2);         # v1.2.0
$v2 = qv("1.2");      # also v1.2.0
```

As you can see, either a bare number or a quoted string can usually be used interchangeably, except in the case of a trailing zero, which must be quoted to be converted properly. For this reason, it is strongly recommended that all initializers to qv() be quoted strings instead of bare numbers.

To prevent the C<qv()> function from being exported to the caller's namespace, either use version with a null parameter:
use version();

or just require version, like this:

require version;

Both methods will prevent the import() method from firing and exporting the C<qv()> sub.

=back

For the subsequent examples, the following three objects will be used:

$ver   = version->new("1.2.3.4"); # see "Quoting Rules"
$alpha = version->new("1.2.3_4"); # see "Alpha Versions"
$nver  = version->new(1.002);     # see "Decimal Versions"

=over 4

=item Normal Form

For any version object which is initialized with multiple decimal places (either quoted or if possible v-string), or initialized using the L<qv()> operator, the stringified representation is returned in a normalized or reduced form (no extraneous zeros), and with a leading 'v':

print $ver->normal;         # prints as v1.2.3.4
print $ver->stringify;      # ditto
print $ver;                 # ditto
print $nver->normal;        # prints as v1.2.0
print $nver->stringify;     # prints as 1.002,
                           # see "Stringification"

In order to preserve the meaning of the processed version, the normalized representation will always contain at least three sub terms. In other words, the following is guaranteed to always be true:

my $newver = version->new($ver->stringify);
if ($newver eq $ver) # always true
  {...}

=back

=over 4

=item Numification

Although all mathematical operations on version objects are forbidden
by default, it is possible to retrieve a number which corresponds to the version object through the use of the \$obj->numify method. For formatting purposes, when displaying a number which corresponds a version object, all sub versions are assumed to have three decimal places. So for example:

```perl
print $ver->numify; # prints 1.002003004
print $nver->numify; # prints 1.002
```

Unlike the stringification operator, there is never any need to append trailing zeros to preserve the correct version value.

=back

=over 4

=item Stringification

The default stringification for version objects returns exactly the same string as was used to create it, whether you used \C<new()> or \C<qv()> , with one exception. The sole exception is if the object was created using \C<qv()> and the initializer did not have two decimal places or a leading 'v' (both optional), then the stringified form will have a leading 'v' prepended, in order to support round-trip processing.

For example:

<table>
<thead>
<tr>
<th>Initialized as</th>
<th>Stringifies to</th>
</tr>
</thead>
<tbody>
<tr>
<td>version-&gt;new(&quot;1.2&quot;)</td>
<td>1.2</td>
</tr>
<tr>
<td>version-&gt;new(&quot;v1.2&quot;)</td>
<td>v1.2</td>
</tr>
<tr>
<td>qv(&quot;1.2.3&quot;)</td>
<td>1.2.3</td>
</tr>
<tr>
<td>qv(&quot;v1.3.5&quot;)</td>
<td>v1.3.5</td>
</tr>
<tr>
<td>qv(&quot;1.2&quot;)</td>
<td>v1.2</td>
</tr>
</tbody>
</table>

See also \L<UNIVERSAL::VERSION|UNIVERSAL/VERSION>, as this also returns the stringified form when used as a class method.

IMPORTANT NOTE: There is one exceptional cases shown in the above table where the "initializer" is not stringwise equivalent to the stringified representation. If you use the \C<qv()> operator on a version without a leading 'v' \B<and> with only a single decimal place, the stringified output will have a leading 'v', to preserve the sense. See the \L</qv()> operator for more details.

IMPORTANT NOTE 2: Attempting to bypass the normal stringification rules by manually applying \L<numify()>|version/numify()> and \L<normal()>|version/normal()> will sometimes yield surprising results:
print version->new(version->new("v1.0"))->numify()->normal; # v1.0.0

The reason for this is that the L<numify()|version/numify()> operator will turn "v1.0" into the equivalent string "1.000000". Forcing the outer version object to L<normal()|version/normal()> form will display the mathematically equivalent "v1.0.0".

As the example in L</new()> shows, you can always create a copy of an existing version object with the same value by the very compact:

$v2 = $v1->new($v1);

and be assured that both C<$v1> and C<$v2> will be completely equivalent, down to the same internal representation as well as stringification.

=back

=over 4

=item Comparison operators

Both C<cmp> and C<E<lt>=E<gt>> operators perform the same comparison between terms (upgrading to a version object automatically). Perl automatically generates all of the other comparison operators based on those two. In addition to the obvious equalities listed below, appending a single trailing 0 term does not change the value of a version for comparison purposes. In other words "v1.2" and "1.2.0" will compare as identical.

For example, the following relations hold:

<table>
<thead>
<tr>
<th>As Number</th>
<th>As String</th>
<th>Truth Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>$ver &gt;  1.0</td>
<td>$ver gt &quot;1.0&quot;</td>
<td>true</td>
</tr>
<tr>
<td>$ver &lt;  2.5</td>
<td>$ver lt</td>
<td>true</td>
</tr>
<tr>
<td>$ver != 1.3</td>
<td>$ver ne &quot;1.3&quot;</td>
<td>true</td>
</tr>
<tr>
<td>$ver == 1.2</td>
<td>$ver eq &quot;1.2&quot;</td>
<td>false</td>
</tr>
<tr>
<td>$ver == 1.2.3.4</td>
<td>$ver eq &quot;1.2.3.4&quot;</td>
<td>see discussion below</td>
</tr>
</tbody>
</table>

It is probably best to chose either the Decimal notation or the string notation and stick with it, to reduce confusion. Perl6 version objects B<may> only support Decimal comparisons. See also L<Quoting Rules>.

WARNING: Comparing version with unequal numbers of decimal points (whether explicitly or implicitly initialized), may yield unexpected results at first glance. For example, the following inequalities hold:

version->new(0.96) > version->new(0.95); # 0.960.0 > 0.950.0
version->new("0.96.1") < version->new(0.95); # 0.096.1 < 0.950.0
For this reason, it is best to use either exclusively L<Decimal Versions> or L<Dotted-Decimal Versions> with multiple decimal points.

=back

=over 4

=item Logical Operators

If you need to test whether a version object has been initialized, you can simply test it directly:

$vobj = version->new($something);
if ( $vobj )   # true only if $something was non-blank

You can also test whether a version object is an alpha version, for example to prevent the use of some feature not present in the main release:

$vobj = version->new("1.2_3"); # MUST QUOTE
...later...
if ( $vobj->is_alpha )   # True

=back

=head1 AUTHOR

John Peacock E<lt>jpeacock@cpan.orgE<gt>

=head1 SEE ALSO

L<perl>.

cut

Found in path(s):
* /opt/cola/permits/1103682131_1604395604.92/0/perl-version-0.99.07-3.el7-1.src.rpm-cosi-expand-archive-YTRMcK63/version-0.9907.tar.gz-cosi-expand-archive-oO6aqdHu/version-0.9907/lib/version/Internals.pod
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 5.012000.
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 SYNOPISIS

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.
Open Source Used In Cisco VSM 7.14.2 18405

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.

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=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:

```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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</tbody>
</table>
To avoid namespace conflicts, you can change the namespace of the explicitly exported functions / variables using the `DPPP_NAMESPACE` macro. Just `#define` the macro before including `ppport.h`:

```
#define DPPP_NAMESPACE MyOwnNamespace_
#include "ppport.h"
```

The default namespace is `DPPP_`.

=back

The good thing is that most of the above can be checked by running `ppport.h` on your source code. See the next section for details.

=head1 EXAMPLES

To verify whether `ppport.h` is needed for your module, whether you should make any changes to your code, and whether any special defines should be used, `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
perl ppport.h --copy=.new
```

To display portability information for the `newSVpvn` function, use:

```perl
perl ppport.h --api-info=newSVpvn
```

Since the argument to `--api-info` can be a regular expression, you can use

```perl
perl ppport.h --api-info=/_nomg$/
```

to display portability information for all `<_nomg>` functions or

```perl
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) 2004-2010, 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\]";            # 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\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 ) : ())
    });
PL_modglobal|5.005000|n
PL_now|5.004050|pn
PL_no_modify|5.006000|p
PL_ofsgv|n
PL_opfreehook|5.011000|n
PL_parser|5.009005|5.009005|p
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magic_freeovrld
magic_getarylen
magic_getdelelem
magic_getnkeys
magic_getpack
magic_getpos
magic_getsig
magic_getsubstr
magic_gettaint
magic_getuvar
magic_getvec
magic_get
magic_killbackrefs
magic_len
magic_methcall
magic_methpack
magic_nextpack
my_exit||
my_failure_exit||5.004000|
my_fflush_all||5.006000|
my_fork||5.007003|
my_htobe16||n
my_htobe32||n
my_htobe64||n
my_htobei||n
my_htobell||n
my_htobes||n
my_htole16||n
my_htole32||n
my_htole64||n
my_htolei||n
my_htolell||n
my_htoles||n
my_hton1||
my_kid||
my_letoh16||n
my_letoh32||n
my_letoh64||n
my_letohi||n
my_letohl||n
my_letohs||n
my_lstat||
my_memccmp||5.004000|
my_memset||n
my_ntohl||
my_pclose||5.004000|
my_popen_list||5.007001|
my_popen||5.004000|
my_setenv||
my_snprintf||5.009004|pvn
my_socketpair||5.007003|
my_sprintf||5.009003|pvn
my_stat||
my_strftime||5.007002|
my_strlcat||5.009004|pn
my_strlcpy||5.009004|pn
my_swapn||n
my_swap||
my_unexec||
my_vsprintf||5.009004|
need_utf8||n
newANONATTRSUB||5.006000|
newANONHASH||
newANONLIST||
newANONSUB||
newSVpvn[5.010001]p
newSVpvn_share[5.007001]p
newSVpvn_utf8[5.010001]p
newSVpvn[5.004050]p
newSVpvs_flags[5.010001]p
newSVpvs_share[5.009003]p
newSVpvs[5.009003]p
newSVpvn[]
newSVr[[]
newSVsv[]
newSVuv[5.006000]p
newSVv[[]
newSVrv[]
newSVsv[]
newSVuv[5.006000]p
newSV[[]
newTOKEN[]
newUNOP[]
newWHENOP[5.009003]
newWHILEOP[5.009003]
newXS_flags[5.009004]
newXSproto[5.006000]
newXS[5.006000]
new_collate[5.006000]
new_constant[]
new_cctype[5.006000]
new_cctype[]
new_logop[]
new_numeric[5.006000]
new_stackinfo[5.005000]
new_version[5.009000]
new_warnings_bitfield[]
next_symbol[]
nextargv[]
nextchar[]
ninstr
no_bareword_allowed[]
no_fh_allowed[]
no_op[]
not_a_number[]
nothreadhook[5.008000]
nuke_stacks[]
um_overflow[n
offer_nice_chunk[]
oopsAV[]
oopsHV[]
op_clear[]
op_const_sv[]
op_dump[5.006000]
op_free[]
op_getmad_weak[]
perl_alloc
perl_clone
perl_construct
perl_destruct
perl_free
perl_parse
perl_run
pidgone
pm_description
pmflag
pmop_dump
pmop_xmldump
pmruntime
pmtrans
pop_scope
pregcomp
pregexec
pregfree2
pregfree
prepend_elem
prepend_madprops
prescan_version
printf_nocontext
printf
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
unpackstring[5.008001]
unshare_hek_or_pvn[]
unshare_hek[]
unsharepvn[5.004000]
unwind_handler_stack[]
update_debugger_info[]
upg_version[5.009005]
usage[]
utf16_textfilter[]
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_uvchr[5.007001]
utf8_to_uvuni[5.007001]
utf8n_to_uvchr[]
utf8n_to_uvuni[5.007001]
utilize[]
uvchr_to_utf8_flags[5.007003]
uvchr_to_utf8[]
uvuni_to_utf8_flags[5.007003]
uvuni_to_utf8[5.007001]
validate_suid[]
varname[]
vcmp[5.009000]
vicroak[5.006000]
vdeb[5.007003]
vdie_common[]
vdie_croak_common[]
vdie[]
vform[5.006000]
visit[]
vivify_defelem[]
vivify_ref[]
vload_module[5.006000]p
vmess[5.006000]
vnewSVpTv[5.006000]5.004000p
vnormal[5.009002]
vnumify[5.009000]
vstringify[5.009000]
vverify[5.009003]
vwarner[5.006000]
vwarn[5.006000]
wait4pid[]
warn_nocontext[]vn
warn

write_no_mem
write_to_stderr
xmldump_all_perl
xmldump_all
xmldump_attr
xmldump_eval
xmldump_form
xmldump_indent
xmldump_packsubs_perl
xmldump_packsubs
xmldump_sub_perl
xmldump_sub
xmldump_vindent
yerror
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 "$f 
      \40-length($f))", " 
      format_version($API{$f}{todo}), "un";
  }
  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]\[^*]*\*+)* / | \\[^

  grep { exists $API{$_} } $code =~ /\w+/mg;
}
while (<DATA>) {
    if ($hint) {
        my $h = $hint->[0] eq 'Hint' ? \%hints : \%warnings;
        if ($hint && $h->{$_} ||= '') {  # suppress warning with older perls
            $h->{$_} .= "$1
";
        }
    } 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*$};
$replace{$2} = $1 if $replace and m{^\s*#\s*define\s+(\w+)(?:\(\[^\)]*\))\s+(\w+)};
$replace{S2} = S1 if m{^(?s+\*=\*define\(s+\(\w+\)
\(\w+\)?\s+\(s+ Replace\(s+\$rcce\$\))\s+$rcce\$\})
$replace{S1} = S2 if m{^(?s+\$rcce\$s+Replace \(w+\) with \(w+\)s+\$rcce\$s+\$)}

if (m{^(?s+\$rcce\$s+\(w+\(\w+,\w+\)\)\s+\$rcce\$\})
my @deps = map { s/\$+/g; \$_ } split /, /, S3;
my $d;
for $d (map { s/\$+/g; \$_ } split /, /, S1) {
push @$depends{$d}, @deps;
}

Sneed{S1} = 1 if m{^#if \$defined\(\$need\(\_GLOBAL\)\)$}/

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 : "\$matches{api-info}\$";
for $f (sort { lc $a cmp lc $b } keys %API) {
next unless $f =~ /$match/;
print "$=== $f ===

modifies denoted by perl-$base or perl-$todo.
print "Support needs to be explicitly requested by NEED_$f\nif exists $need{f};
print ""Depends on: \$depends{f} \$n" if exists $depends{f};
print "\$shints{f} if exists $shints{f};
print "\$warnings{f} if exists $warnings{f};
$info++;
}
print "No portability information available\n" unless $info;
$count++;
}
$count or print "Found no API matching $opt{api-info}".
print "$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
";
    }
    exit 0;
}

my @files;
my @srcext = qw( .xs .c .h .cc -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.
" }
        } else {
            my @new = grep { -f } glob $_
                or warn "$_ does not exist.
";
            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;

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$file{code} = $c;
$have_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 =~ /Ab\(?Perl\)?\($match\)/) {
    $file{uses_replace}{$1}++ if exists $revreplace{$func} & $1 eq $revreplace{$func};
    $file{uses Perl}{$func}++ if $c =~ /AbPerl{$func}/;
    if (exists $API{$func}{provided}) {
      $file{uses_provided}{$func}++;
    }
    if (!exists $API{$func}{base} || $API{$func}{base} > $opt{compat-version}) {
      my @deps = rec_depend($func);
      if (@deps) {
        $file{uses_deps}{$func} = \@deps;
        for (@deps) {
          $file{uses}{$_} = 0 unless exists $file{uses}{$_};
        }
      }
    }
    if (exists $need{$2}) {
      $file{defined $3 ? 'needed_global' : 'needed_static'}{$2}++;
    } else { warning("Possibly wrong #define $1 in $filename") }
  }

while ($c =~ /\^\$HS*\^\$HS*\^\$define\^\$NEED_\(\w+\)?\(_GLOBAL\)\b/mg) {
  if (exists $need{S2}) {
    $file{defined S3 ? 'needed_global' : 'needed_static'}{S2}++;
  } 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’\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";  
    }  
  }  
  if ($message) {  
    diag($message);  
    $file{changes} += ($c =~ s/^$HS*#$HS*define$HS+NEED_$func\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/^($HS*#$HS*define$HS+NEED_\w+.*?)$Spp/m)
            || ($c =~ s/^($HS*#$HS*include.*XSUB.*\s*?)$Spp/m)
            || ($c =~ s/^$/pp/);
    }
}
else {

}
if ($file{has_inc_ppport}) {
    diag("No need to include '$ppport'");
    $file{changes} += ($c =~ s/^$HS*?#$HS*\winclude.*\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 $opt{patch}) {
  unless ($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 {
    !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 $tmp |") {
            while (<F>) {
                s/$tmp\$/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 ($ver =~ /\d+/(\.\d+\d+\d+)/$) {
        return ($1, $2, $3);
    }
    elsif ($ver !~ /^\d+\[\d_\]+$/) {
        die "cannot parse version '$ver'";
    }
    $ver =~ s/_//g;
    $ver =~ s/$/000000/;
    my($r,$v,$s) = $ver =~ /\d+/(\d\d\d)\d\d\d/;$
    $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\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 };
\$@ and die "Cannot require Devel::PPPort, please install.\\n";

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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{
    / (?: \^[^]*\^[^]+(?:[^\^]\^[^]*\^[^]+)* / | /[^
]*
}| ( [\^\^]\^[^\^]*\^[^\^]+)* | [\^\^]\^[^\^]*\^[^\^]+*\^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\n";
exit 0;
}

__DATA__
*/

Found in path(s):
* /opt/cola/permits/1103682131_1604395604.92/0/perl-version-0.99.07-3.el7-1.src.rpm-cosi-expand-archive-YTRMcK63/version-0.9907.tar.gz-cosi-expand-archive-oO6aqdHu/version-0.9907/vutil/ppport.h

1.153 jetty-quickstart 9.2.26.v20180806
1.154 gir1.2-gdkpixbuf-2.0 2.36.12-3.el7

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1.155 systemd-shim 219 67.el7_7.1

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J. M. G. Elliott
15-Jul-2000

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//
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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 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/

From the original distribution:

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It is part of the main e2fsprogs distribution, which can be found at:

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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)
(cd pic; ld -Bshareable -o $@ $(LDFLAGS) $(OBJ))
$(MV) pic/$@ $(SHLIBDIR)
$(RM) -f ../$(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 ss command-line interface parsing library 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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Sources were obtained from http://sourceforge.net/projects/e2fsprogs

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1.163 libmnl 1.0.3 7.el7

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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.

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.

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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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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,
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1.174 xml-pull 1.1.3.1

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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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'zlib' general purpose compression library
version 1.2.3, July 18th, 2005

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1.181 javax-transaction 1.1

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1.182 tomcat-extras-juli-adapters 7.0.82

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1.195 hardlink 1

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1.197 jetty-jaspi 9.2.26.v20180806

1.198 rhnlib 2.5.65

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\texttt{ispell-local-pdict: \textquote{ispell-dict}}
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1.213 ffmpeg 4.3.1

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Specifically, the GPL parts of FFmpeg are:

- libpostproc
- optional x86 optimization in the files
  - `libavcodec/x86/flac_dsp_gpl.asm`
  - `libavcodec/x86/idct_mmx.c`
- `libavfilter/x86/vf_removegrain.asm`
- the following building and testing tools
  - `compat/solaris/make_sunver.pl`
  - `doc/i2h.pm`
  - `doc/text2pod.pl`
  - `libswresample/tests/swresample.c`
  - `tests/checkasm/*`
  - `tests/tiny_ssim.c`
- the following filters in libavfilter:
  - `signature_lookup.c`
  - `vf_blackframe.c`
  - `vf_boxblur.c`
  - `vf_colormatrix.c`
  - `vf_cover_rect.c`
  - `vf_cropdetect.c`
  - `vf_delogo.c`
  - `vf_eq.c`
  - `vf_find_rect.c`
  - `vf_fspp.c`
  - `vf_histeq.c`
  - `vf_hqdn3d.c`
  - `vf_kerddeint.c`
  - `vf_lendif.c` (GPL version 3 or later)
  - `vf_mmcdeint.c`
  - `vf_mpdecimate.c`
  - `vf_mnvedi.c`
- `vf_owdenoise.c`
- `vf_perspective.c`
- `vf_phase.c`
- `vf_pp.c`
- `vf_pp7.c`
- `vf_pullup.c`
- `vf_repeatfields.c`
- `vf_sab.c`
- `vf_signature.c`
- `vf_smartblur.c`
- `vf_spp.c`
- `vf_stereo3d.c`
- `vf_super2xsai.c`
- `vf_tinterlace.c`
- `vf_uspp.c`
- `vf_vaguedenoiser.c`
- `vsrc_mptestsrc.c`

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There are a handful of files under other licensing terms, namely:

* The files `libavcodec/jfdctfst.c`, `libavcodec/jfdctint_template.c` and `libavcodec/jrevdct.c` are taken from libjpeg, see the top of the files for licensing details. Specifically note that you must credit the IJG in the documentation accompanying your program if you only distribute executables. You must also indicate any changes including additions and deletions to those three files in the documentation.

* `tests/reference.pnm` is under the expat license.

## External libraries

FFmpeg can be combined with a number of external libraries, which sometimes affect the licensing of binaries resulting from the combination.

### Compatible libraries

The following libraries are under GPL version 2:
- avisynth
- frei0r
- libcdio
- libdavs2
- librubberband
- libvidstab
- libx264
- libx265
- libxavs
- libxavs2
- libxvid

When combining them with FFmpeg, FFmpeg needs to be licensed as GPL as well by passing `--enable-gpl` to configure.

The following libraries are under LGPL version 3:
- gmp
- libaribb24
- libblensfun

When combining them with FFmpeg, use the configure option `--enable-version3` to upgrade FFmpeg to the LGPL v3.

The VMAF, mbedtls, RK MPI, OpenCORE and VisualOn libraries are under the Apache License 2.0. That license is incompatible with the LGPL v2.1 and the GPL v2, but not with version 3 of those licenses. So to combine these libraries with FFmpeg, the license version needs to be upgraded by passing `--enable-version3` to configure.

The smbc library is under the GPL v3, to combine it with FFmpeg, the options `--enable-gpl` and `--enable-version3` have to be passed to configure to upgrade FFmpeg to the GPL v3.

### Incompatible libraries

There are certain libraries you can combine with FFmpeg whose licenses are not compatible with the GPL and/or the LGPL. If you wish to enable these libraries, even in circumstances that their license may be incompatible, pass `--enable-nonfree` to configure. This will cause the resulting binary to be unredistributable.

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License Mixing
==============

libcurl can be built to use a fair amount of various third party libraries, libraries that are written and provided by other parties that are distributed using their own licenses. Even libcurl itself contains code that may cause problems to some. This document attempts to describe what licenses libcurl and the other libraries use and what possible dilemmas linking and mixing them all can lead to for end users.

I am not a lawyer and this is not legal advice!

One common dilemma is that [GPL](https://www.gnu.org/licenses/gpl.html) licensed code is not allowed to be linked with code licensed under the [Original BSD license](https://spdx.org/licenses/BSD-4-Clause.html) (with the announcement clause). You may still build your own copies that use them all, but distributing them as binaries would be to violate the GPL license - unless you accompany your license with an
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### 1.220 python-setuptools 1.19.11

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1.221 commons-http-client 3.1
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1.222 python-dateutil 1.5

1.222.1 Available under license :

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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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```

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```

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```

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Accompany the work with the complete corresponding
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1.227 jaxb-runtime 2.2.11
1.228 wms 2.3.4

1.228.1 Available under license:

DXFOutputFormat WFS Output for GeoServer
Mauro Bartolomeoli, Esalab Srl - http://www.esalab.it

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J. M. G. Elliott
15-Jul-2000

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1.231 eclipse-compiler 3.10.2.v20150120 1634
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*******************************************************************************
package org.eclipse.text.edits;

import org.eclipse.jface.text.BadLocationException;
import org.eclipse.jface.text.IDocument;

/**
 * A <code>CopyingRangeMarker</code> can be used to track positions when executing
 * text edits. Additionally a copying range marker stores a local copy of the
 * text it captures when it gets executed.
 *
 * @since 3.0
 */
public final class CopyingRangeMarker extends TextEdit {

    private String fText;

    /**
     * Creates a new <tt>CopyRangeMarker</tt> for the given
     * offset and length.
     *
     * @param offset the marker's offset
     * @param length the marker's length
     */
    public CopyingRangeMarker(int offset, int length) {
        super(offset, length);
    }

    /* non Java-doc
     * @see TextEdit#doCopy
     */
    protected TextEdit doCopy() {
        return new CopyingRangeMarker(this);
    }

    /*
     * Copy constructor
     */
    private CopyingRangeMarker(CopyingRangeMarker other) {
        super(other);
        fText = other.fText;
    }

    /* non Java-doc
     * @see TextEdit#accept0
     */
    protected void accept0(TextEditVisitor visitor) {
        boolean visitChildren = visitor.visit(this);
        if (visitChildren) {
            /*
             * @see TextEdit#accept0
             */
            boolean visitChildren = visitor.visit(this);
            if (visitChildren) {

acceptChildren(visitor);

/* non Java-doc
* @see TextEdit#performDocumentUpdating
*/
/* package */ int performDocumentUpdating(IDocument document) throws BadLocationException {
    fText= document.get(getOffset(), getLength());
    fDelta= 0;
    return fDelta;
}

/* non Java-doc
* @see TextEdit#deleteChildren
*/
/* package */ boolean deleteChildren() {
    return false;
}

<?xml version="1.0" encoding="ISO-8859-1" ?>
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN"
"http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">
<html xmlns="http://www.w3.org/1999/xhtml">
<head>
<meta http-equiv="Content-Type" content="text/html; charset=ISO-8859-1" />
<title>Eclipse Public License - Version 1.0</title>
<style type="text/css">
  body {
    size: 8.5in 11.0in;
    margin: 0.25in 0.5in 0.25in 0.5in;
    tab-interval: 0.5in;
  }
  p {
    margin-left: auto;
    margin-top: 0.5em;
    margin-bottom: 0.5em;
  }
  p.list {
    margin-left: 0.5in;
    margin-top: 0.05em;
    margin-bottom: 0.05em;
  }
</style>
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1.242 cvs 1.11.23-35.el7

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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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<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.

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) 19xx 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.
```

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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!

### 1.243 jt-attributeop 1.3.1

#### 1.243.1 Available under license:

```
<OWNER> = Regents of the University of California
<ORGANIZATION> = University of California, Berkeley
<YEAR> = 1998
```

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1.244 libsemanage 2.5 14.el7

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machine-readable source code for the Library including whatever
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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
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to use the modified definitions.)

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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will operate properly with a modified version of the library, if
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```
Local Variables:
ispell-local-pdict: "ispell-dict"
End:
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1.249 gamin 0.1.10

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1.251 bash 4.2.46 31.el7
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From spcecdt@armory.com Wed May 10 10:21:11 1995
Flags: 10
Return-Path: spcecdt@armory.com
Received: from po.cwru.edu (root@po.CWRU.Edu [129.22.4.2]) by odin.INS.CWRU.Edu with ESMTP (8.6.10+cwru/CWRU-2.1-ins)
   id KAA22876; Wed, 10 May 1995 10:21:10 -0400 (from spcecdt@armory.com for <chet@odin.INS.CWRU.Edu>)
Received: from deepthought.armory.com (mmdf@deepthought.armory.com [192.122.209.42]) by po.cwru.edu with SMTP (8.6.10+cwru/CWRU-2.3)
   id BAA16354; Wed, 10 May 1995 01:33:22 -0400 (from spcecdt@armory.com for <chet@po.cwru.edu>)
From: John DuBois <spcecdt@armory.com>
Date: Tue, 9 May 1995 22:33:12 -0700
In-Reply-To: Chet Ramey <chet@odin.ins.cwru.edu>
   "ksh scripts" (May 9, 1:36pm)
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

On May 9, 1:36pm, Chet Ramey wrote:

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

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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

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Mesa 3-D graphics library
Version: 7.0

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<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!
1.258 ftp 0.17

1.258.1 Available under license:

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

Summary: The standard UNIX FTP (File Transfer Protocol) client
Name: ftp
Version: 0.17
Release: 67% [?dist]
License: BSD with advertising
Group: Applications/Internet
Patch1: netkit-ftp-0.17-pre20000412.pasv-security.patch
Patch2: netkit-ftp-0.17-acct.patch
Patch3: netkit-ftp.usagi-ipv6.patch
Patch4: netkit-ftp-0.17-segv.patch
Patch5: netkit-ftp-0.17-volatile.patch
Patch6: netkit-ftp-0.17-runique_mget.patch
Patch7: netkit-ftp-locale.patch
Patch8: netkit-ftp-0.17-printf.patch
Patch9: netkit-ftp-0.17-longint.patch
Patch10: netkit-ftp-0.17-vsftp165083.patch
Patch11: netkit-ftp-0.17-C-Frame121.patch
Patch12: netkit-ftp-0.17-data.patch
Patch13: netkit-ftp-0.17-multihome.patch
Patch14: netkit-ftp-0.17-longnames.patch
Patch15: netkit-ftp-0.17-multiipv6.patch
Patch16: netkit-ftp-0.17-nodebug.patch
Patch17: netkit-ftp-0.17-stamp.patch
Patch18: netkit-ftp-0.17-sigseg.patch
Patch19: netkit-ftp-0.17-size.patch
Patch20: netkit-ftp-0.17-fdleak.patch
Patch21: netkit-ftp-0.17-fprintf.patch
Patch22: netkit-ftp-0.17-bitrate.patch
Patch23: netkit-ftp-0.17-arg_max.patch
Patch24: netkit-ftp-0.17-case.patch
Patch25: netkit-ftp-0.17-chkmalloc.patch
Patch26: netkit-ftp-0.17-man.patch
Patch27: netkit-ftp-0.17-acct_oval.patch
Patch28: netkit-ftp-0.17-remove-nested-include.patch
Patch29: netkit-ftp-0.17-linelen.patch
Patch30: netkit-ftp-0.17-active-mode-option.patch
Patch31: netkit-ftp-0.17-commands-leaks.patch
Patch32: netkit-ftp-0.17-lsn-timeout.patch
Patch33: netkit-ftp-0.17-getlogin.patch
Patch34: netkit-ftp-0.17-token.patch
Patch35: netkit-ftp-0.17-arg_max1.patch

BuildRequires: glibc-devel, readline-devel, ncurses-devel

%description
The ftp package provides the standard UNIX command-line FTP (File Transfer Protocol) client. FTP is a widely used protocol for transferring files over the Internet and for archiving files.

If your system is on a network, you should install ftp in order to do file transfers.

%prep
%setup -q -n netkit-ftp-%{version}
%patch1 -p1
%patch2 -p1 -b .acct
%patch3 -p1 -b .ipv6
%patch4 -p1 -b .segv
%patch5 -p1 -b .volatile
%patch6 -p1 -b .runique_mget
%patch7 -p1 -b .locale
%patch8 -p1 -b .printf
%patch9 -p1 -b .longint
%patch10 -p1 -b .vsftp165083
%patch11 -p1 -b .C-Frame121
%patch12 -p1 -b .data
%patch13 -p1 -b .multihome
%patch14 -p1 -b .patch
%patch15 -p1 -b .multiipv6
%patch16 -p1 -b .nodebug
%patch17 -p1 -b .stamp
%patch18 -p1 -b .sigseg
%patch19 -p1 -b .size
%patch20 -p1 -b .fdleak
%patch21 -p1 -b .fprintf
%patch22 -p1 -b .bitrate
%patch23 -p1 -b .arg_max
%patch24 -p1 -b .case
%patch25 -p1 -b .chkmalloc
%patch26 -p1 -b .man
%patch27 -p1 -b .acct_ovl
%patch28 -p1
%patch29 -p1 -b .linelen
%patch30 -p1 -b .activemode
%patch31 -p1 -b .cmds-leaks
%patch32 -p1 -b .lsn-timeout
%patch33 -p1 -b .getlogin
%patch34 -p1 -b .token
%patch35 -p1 -b .arg_max1

%build
sh configure --with-c-compiler=gcc --enable-ipv6
perl -pi -e '
    s,^CC=.*$,CC=cc,;
    s,-O2,\$(RPM_OPT_FLAGS) -D_GNU_SOURCE -D_LARGEFILE_SOURCE -D_LARGEFILE64_SOURCE -D_FILE_OFFSET_BITS=64,;
    s,^BINDIR=.*$,BINDIR=%{_bindir},;
    s,^MANDIR=.*$,MANDIR=%{_mandir},;
    s,^SBINDIR=.*$,SBINDIR=%{_sbindir},;
    ' MCONFIG

make %{?_smp_mflags}

%install
mkdir -p ${RPM_BUILD_ROOT}%{_bindir}
mkdir -p ${RPM_BUILD_ROOT}%{_mandir}/man1
mkdir -p ${RPM_BUILD_ROOT}%{_mandir}/man5

make INSTALLROOT=${RPM_BUILD_ROOT} install

%files
%{_bindir}/ftp
%{_bindir}/pftp
%{_mandir}/man1/ftp.*
%{_mandir}/man1/pftp.*
%{_mandir}/man5/netrc.*

%changelog
* Wed Feb 3 2016 Jan Synek <jsynacek@redhat.com> - 0.17-67
  - fix 'Out of memory' message when stacksize is set to unlimited (#1304064)

* Fri Jan 24 2014 Daniel Mach <dmach@redhat.com> - 0.17-66
  - Mass rebuild 2014-01-24

* Fri Dec 27 2013 Daniel Mach <dmach@redhat.com> - 0.17-65
  - Mass rebuild 2013-12-27

* Wed Feb 13 2013 Fedora Release Engineering <rel-eng@lists.fedoraproject.org> - 0.17-64
  - Rebuilt for https://fedoraproject.org/wiki/Fedora_19_Mass_Rebuild

* Tue Oct 30 2012 Jan Synek <jsynacek@redhat.com> - 0.17-63
  - Fix buffer overflow in token parsing
  - Resolves: #871296

* Tue Oct 30 2012 Jan Synek <jsynacek@redhat.com> - 0.17-62
  - Fix linelen patch
- Resolves: #871290

* Wed Oct 03 2012 Jan Synek <jsynacek@redhat.com> - 0.17-61
- Fix: FTP client does not expand home directory correctly after sudo or su
- Resolves: #861113

* Tue Sep 25 2012 Jan Synek <jsynacek@redhat.com> - 0.17-60
- Plug leaks in "put", "send", "append"
- Add listening timeout

* Tue Aug 28 2012 Jan Synek <jsynacek@redhat.com> - 0.17-59
- Add active mode option

* Fri Aug 03 2012 Jan Synek <jsynacek@redhat.com> - 0.17-58
- Extend the input line buffer and the argument storage buffer
- Prettify spec some more and remove trailing space

* Fri Jul 20 2012 Jan Synek <jsynacek@redhat.com> - 0.17-57
- Remove nested include (fix compilation in rawhide)

* Thu Jul 19 2012 Jan Synek <jsynacek@redhat.com> - 0.17-56
- Fixed Source0 and URL
- Make spec fedora-review-friendly

* Thu Jul 19 2012 Fedora Release Engineering <rel-eng@lists.fedoraproject.org> - 0.17-56
- Rebuilt for https://fedoraproject.org/wiki/Fedora_18_Mass_Rebuild

* Fri Jan 13 2012 Fedora Release Engineering <rel-eng@lists.fedoraproject.org> - 0.17-55
- Rebuilt for https://fedoraproject.org/wiki/Fedora_17_Mass_Rebuild

* Fri Sep 09 2011 Jiri Skala <jskala@redhat.com> - 0.17-54
- fixes #737016 - ftp: off-by-one in account command parsing

* Tue Mar 29 2011 Jiri Skala <jskala@redhat.com> - 0.17-53
- fixes #673850 - ftp(1) manpage fixes

* Tue Feb 08 2011 Fedora Release Engineering <rel-eng@lists.fedoraproject.org> - 0.17-52
- Rebuilt for https://fedoraproject.org/wiki/Fedora_15_Mass_Rebuild

* Fri Jul 24 2009 Fedora Release Engineering <rel-eng@lists.fedoraproject.org> - 0.17-51
- Rebuilt for https://fedoraproject.org/wiki/Fedora_12_Mass_Rebuild

* Tue Feb 24 2009 Fedora Release Engineering <rel-eng@lists.fedoraproject.org> - 0.17-50
- Rebuilt for https://fedoraproject.org/wiki/Fedora_11_Mass_Rebuild

* Mon Dec 01 2008 Jiri Skala <jskala@redhat.com> - 0.17-49
- Resolves: #473491 unchecked malloc
* Wed Apr 23 2008 Martin Nagy <mnagy@redhat.com> - 0.17-48
  - fix mget when using case
  - Resolves: #442712

* Mon Apr 07 2008 Martin Nagy <mnagy@redhat.com> - 0.17-47
  - Use sysconf to get ARG_MAX instead of a macro (#440782)

* Tue Feb 19 2008 Fedora Release Engineering <rel-eng@fedoraproject.org> - 0.17-46
  - Autorebuild for GCC 4.3

* Mon Jan 28 2008 Marcela Maslanova <mmaslano@redhat.com> - 0.17-45
  - changed bitrate from 1e+03 KBytes/sec to 1000 kBytes/sec
  - Resolves: rhbz#430457

* Thu Nov 15 2007 Marcela Maslanova <mmaslano@redhat.com> - 0.17-44
  - using fprintf instead of printf

* Mon Oct 22 2007 Marcela Maslanova <mmaslano@redhat.com> - 0.17-43
  - feature: for cmd size is switching to TYPE_I automatized
  - bug: ftp leaks socket fds when it fails to open a file (#315241)
  - rhbz#306191

* Fri Aug 24 2007 Marcela Maslanova <mmaslano@redhat.com> - 0.17-42
  - rebuilt (for mass rebuild)
  - license tag checked

* Tue Aug 07 2007 Marcela Maslanova <mmaslano@redhat.com> - 0.17-41
  - #251074 add patch from Jan Kratochvil

* Wed Feb 15 2007 Marcela Maslanova <mmaslano@redhat.com> - 0.17-40
  - review again

* Wed Feb 14 2007 Marcela Maslanova <mmaslano@redhat.com> - 0.17-39
  - review again

* Mon Feb 7 2007 Marcela Maslanova <mmaslano@redhat.com> - 0.17-38
  - add gpl
  - spec fix
  - rhbz#225774

* Tue Jan 30 2007 Marcela Maslanova <mmaslano@redhat.com> - 0.17-35
  - nodebug package

* Wed Sep 13 2006 Marcela Maslanova <mmaslano@redhat.com> - 0.17-33
  - rebuilt

* Wed Aug 2 2006 Marcela Maslanova <mmaslano@redhat.com> - 0.17-32.1.2.4
  - fix (#199145) patch for IPv6 multihome
* Thu Jul 25 2006 Marcela Maslanova <mmaslano@redhat.com> - 0.17-32.1.2.3
  - fix (#196103) patch for long filenames

* Wed Jul 12 2006 Jesse Keating <jkeating@redhat.com> - 0.17-32.1.2.1
  - rebuild

* Fri Feb 10 2006 Jesse Keating <jkeating@redhat.com> - 0.17-32.1.2
  - bump again for double-long bug on ppc(64)

* Tue Feb 07 2006 Jesse Keating <jkeating@redhat.com> - 0.17-32.1.1
  - rebuilt for new gcc4.1 snapshot and glibc changes

* Thu Jan 12 2006 Petr Raszyk <praszyk@redhat.com> - 0.17-32
  - support for multi-homed clients
  See #171621, netkit-ftp-0.17-multihome.patch

* Fri Dec 09 2005 Jesse Keating <jkeating@redhat.com>
  - rebuilt

* Fri Dec 2 2005 Petr Raszyk <praszyk@redhat.com> - 0.17-31
  - ftp does not close socket descriptor (if the remote file
does not exist).
  See #174599, netkit-ftp-0.17-data.patch

* Wed Oct 26 2005 Petr Raszyk <praszyk@redhat.com> - 0.17-30
  - The patch netkit-ftp-0.17-C-Frame121.patch adds some
    comments/hints for C-Frame 121. It can be removed any time.

* Tue Aug 30 2005 Petr Raszyk <praszyk@redhat.com> - 0.17-29
  - rebuild

* Tue Aug 30 2005 Petr Raszyk <praszyk@redhat.com> - 0.17-28
  - This 'hack' will avoid a bug in ftp-server
    ( < vsftpd-2.0.1-5   ). See #165083 (server prints the
    '150 FILE:...' line twice).
    This patch can be (later ?) removed.

* Mon Aug 22 2005 Petr Raszyk <praszyk@redhat.com> - 0.17-27
  - overflow using 'hash mode' (printing '#' but
    not reading data from network - #79367)

* Tue May 24 2005 Miloslav Trmac <mitr@redhat.com> - 0.17-26
  - Fix passive mode with SELinux (#158234, patch by Nalin Dahyabhai)
  - Fix format string mismatch

* Fri Mar 04 2005 Jiri Ryska <jryska@redhat.com>
  - rebuilt
* Wed Jan 12 2005 Tim Waugh <twaugh@redhat.com> 0.17-24
  - Rebuilt for new readline.

* Wed Dec 15 2004 Tim Waugh <twaugh@redhat.com>
  - Call setlocale() so that readline works correctly (bug #142265).

* Tue Dec 7 2004 Thomas Woerner <twoerner@redhat.com> 0.17-23
  - fixed mget with runique (#79367)

* Tue Jun 15 2004 Elliot Lee <sopwith@redhat.com>
  - rebuilt

* Mon Jun 14 2004 Alan Cox <alan@redhat.com>
  - Re-arranged some totally bogus old bezerkly code that could
    segfault ftp on connection loss. (BZ #122295)

* Fri Feb 13 2004 Elliot Lee <sopwith@redhat.com>
  - rebuilt

* Wed Jun 04 2003 Elliot Lee <sopwith@redhat.com>
  - rebuilt

* Wed Jan 22 2003 Tim Powers <timp@redhat.com>
  - rebuilt

* Fri Dec 13 2002 Elliot Lee <sopwith@redhat.com>
  - Rebuild

* Fri Jun 21 2002 Tim Powers <timp@redhat.com>
  - automated rebuild

* Thu May 23 2002 Tim Powers <timp@redhat.com>
  - automated rebuild

* Fri Apr 12 2002 Bernhard Rosenkraenzer <bero@redhat.com> 0.17-13
  - Recompile with support for files > 2 GB

* Mon Jun 25 2001 Bernhard Rosenkraenzer <bero@redhat.com> 0.17-12
  - Add some Build dependencies (#45007)

* Fri May 18 2001 Bernhard Rosenkraenzer <bero@redhat.com> 0.17-11
  - Actually apply Patch #3

* Fri May 11 2001 Bernhard Rosenkraenzer <bero@redhat.com> 0.17-10
  - Rebuild with new readline

* Sun Apr 15 2001 Bernhard Rosenkraenzer <bero@redhat.com>
- Add IPv6 patch (RFE #35642)

* Wed Apr 4 2001 Jakub Jelinek <jakub@redhat.com>
- don't let configure to guess compiler, it can pick up egcs

* Sun Jan 21 2001 Bernhard Rosenkraenzer <bero@redhat.com>
- Update to 0.17 final
- Fix up ACCT support in netrc (Bug #17353)

* Wed Aug 16 2000 Philipp Knirsch <pknirsch@redhat.com>
- Switched the default transfer protocol from PORT to PASV as proposed on bugzilla (#16134)
- Fixed a small compiler warning in ftp.c line 886

* Fri Jul 14 2000 Jeff Johnson <jbj@redhat.com>
- add netrc man page (#7443).
- fix possible buffer overflows in ftp client.

* Wed Jul 12 2000 Prospector <bugzilla@redhat.com>
- automatic rebuild

* Sun Jun 18 2000 Jeff Johnson <jbj@redhat.com>
- FHS packaging.
- update to 0.17-pre20000412.

* Wed Apr 5 2000 Bernhard Rosenkraenzer <bero@redhat.com>
- rebuild with current libreadline

* Fri Mar 24 2000 Bernhard Rosenkraenzer <bero@redhat.com>
- 0.17

* Fri Feb 4 2000 Bill Nottingham <notting@redhat.com>
- handle compressed man pages

* Tue Jan 4 2000 Bill Nottingham <notting@redhat.com>
- the ftp client does not require inetd

* Wed Dec 22 1999 Jeff Johnson <jbj@redhat.com>
- update to 0.16.

* Mon Aug 30 1999 Jeff Johnson <jbj@redhat.com>
- update to 0.15.
- enable readline support (#3796).

* Sun Mar 21 1999 Cristian Gafton <gafton@redhat.com>
- auto rebuild in the new build environment (release 22)

* Mon Mar 15 1999 Jeff Johnson <jbj@redhat.com>
- compile for 6.0.

* Tue Aug 11 1998 Jeff Johnson <jbj@redhat.com>
- build root

* Mon Apr 27 1998 Prospector System <bugs@redhat.com>
- translations modified for de, fr, tr

Found in path(s):
* /opt/cola/permits/1103682221_1604381210.73/0/ftp-0.17-67.el7.src.rpm-cosi-expand-archive-
BGBWssNi/ftp.spec

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*
*from: @(#)pathnames.h5.2 (Berkeley) 6/1/90
*/
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from: @(#)ftp.16.18 (Berkeley) 7/30/91

from: ftp.1,v 1.2 1997/06/08 20:01:35 dholland Exp

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from: @(#)ftp.16.18 (Berkeley) 7/30/91

Found in path(s):
* /opt/cola/permits/1103682221_1604381210.73/0/ftp-0.17-67.el7.src.rpm-cosi-expand-archive-BGBWssNi/netkit-ftp-0.17.tar.gz-cosi-expand-archive-rLSfJla9/netkit-ftp-0.17/ftp/ftp.1
No license file was found, but licenses were detected in source scan.

diff -uNr netkit-ftp-0.17/CVS/Entries netkit-ftp/CVS/Entries
diff -uNr netkit-ftp-0.17/ChangeLog netkit-ftp/ChangeLog
--- netkit-ftp-0.17/ChangeLogSun Jul 23 03:38:08 2000
+++ netkit-ftp/ChangeLogTue Nov 28 03:50:10 2000
@@ -1,3 +1,6 @@
8-Jul-2000:
+IPv6 support. (Hiroyuki YAMAMORI <h-yamamo@db3.so-net.ne.jp>)
+28-Nov-2000:
+IPv6 support. (Hiroyuki YAMAMORI <h-yamamo@db3.so-net.ne.jp>)
+28-Nov-2000:
+IPv6 support. (Hiroyuki YAMAMORI <h-yamamo@db3.so-net.ne.jp>)
+28-Nov-2000:
+IPv6 support. (Hiroyuki YAMAMORI <h-yamamo@db3.so-net.ne.jp>)
+28-Nov-2000:
Fix misused printf-function call (not %n-exploitable though).

diff -uNr netkit-ftp-0.17/configure netkit-ftp/configure
--- netkit-ftp-0.17/configureSat Jul 29 21:00:28 2000
+++ netkit-ftp/configureSat Jan 27 06:14:54 2001
@@ -24,6 +24,7 @@
     --binmode=mode     Mode for binaries [755]
     --manmode=mode     Mode for manual pages [644]
     --with-c-compiler=cc Program for compiling C source [guessed]
+    --enable-ipv6       Enable IPv6 support
EOF
exit 0;;
  --verbose) ;;
@@ -39,6 +40,11 @@
     --manmode=*) MANMODE=`echo $1 | sed 's/^[^=]*=//g'` ;;
     --with-c-compiler=*) CC=`echo $1 | sed 's/^[^=]*=//g'` ;;
     --without-readline|--disable-readline) WITHOUT_READLINE=1;;
+    +--disable-ipv6) ENABLE_IPV6=no;;
+    +--enable-ipv6=*) ENABLE_IPV6=`echo $1 | sed 's/^[^=]*=//g'`;;
+    +--enable-ipv6) ENABLE_IPV6=yes;;
+    +)
*) echo "Unrecognized option: $1"; exit 1;;
esac
shift
@@ -142,6 +148,42 @@
LDFLAGS=
LIBS=
+  rm -f __conftest*
+
+*****************************************************************************
+## Enable IPv6
+echo -n "Whether to enable IPv6 support... 
+if [ x"SENABLE_IPV6" = x"yes" ]; then
+    echo yes
+    CFLAGS="CFLAGS -DINET6"
+else
+    echo no
+fi
+  rm -f __conftest*
+
+*****************************************************************************
+## Search IPv6 Library / Headers
+if [ x"SENABLE_IPV6" = x"yes" ]; then
+    echo -n "Search for IPv6 library...
+    inet6libdirs="/usr/local/v6/lib /usr/local/lib /usr/inet6/lib"
+ inet6libs="inet6"
+ inet6found=no
+ for inet6libdir in $inet6libdirs; do
+     for inet6lib in $inet6libs; do
+         if [ -d $inet6libdir ] && [ -f $inet6libdir/lib$inet6lib.a ]; then
+             inet6found=yes
+             break 2
+         fi
+     done
+ fi
+ done
+ if [ x"$inet6found" = x"yes" ]; then
+     echo "$inet6libdir/lib$inet6lib.a"
+     LIBS="$LIBS -L$inet6libdir -l$inet6lib"
+ else
+     echo "not found"
+ fi
+fi

rm -f __conftest*

diff -uNr netkit-ftp-0.17/ftp/CVS/Entries netkit-ftp/ftp/CVS/Entries
--- netkit-ftp-0.17/ftp/CVS/Entries Thu Jan 1 02:00:00 1970
+++ netkit-ftp/ftp/CVS/Entries Mon Feb 19 06:50:49 2001
@@ -0,0 +1,16 @@
+.cvsignore/1.1.1.1/Fri Nov 3 19:18:15 2000/
+/Makefile/1.4/Sat Jan 27 05:57:08 2001/
+/cmds.c/1.3/Fri Jan 12 21:36:27 2001/
+/cmdtab.c/1.1.1.1/Fri Nov 3 19:18:15 2000/
+/cmdtab.c/1.1.1.1/Fri Nov 3 19:18:15 2000/
+/domacro.c/1.1.1.1/Fri Nov 3 19:18:15 2000/
+/ftp.1/1.1.1.1/Fri Nov 3 19:18:15 2000/
+/ftp.c/1.11/Sun Feb 11 12:26:59 2001/
+/ftp_var.h/1.3/Fri Jan 12 21:36:27 2001/
+/glob.c/1.1.1.1/Fri Nov 3 19:18:15 2000/
+/glob.h/1.1.1.1/Fri Nov 3 19:18:15 2000/
+/main.c/1.1.1.1/Fri Nov 3 19:18:15 2000/
+/netrc.5/1.1.1.1/Fri Nov 3 19:18:15 2000/
+/pathnames.h/1.1.1.1/Fri Nov 3 19:18:15 2000/
+/ruserpass.c/1.1.1.1/Fri Nov 3 19:18:15 2000/
+D

diff -uNr netkit-ftp-0.17/ftp/CVS/Repository netkit-ftp/ftp/CVS/Repository
--- netkit-ftp-0.17/ftp/CVS/Repository Thu Jan 1 02:00:00 1970
@@ -0,0 +1 @@
+usagi/src/netkit-ftp/ftp

diff -uNr netkit-ftp-0.17/ftp/CVS/Root netkit-ftp/ftp/CVS/Root
--- netkit-ftp-0.17/ftp/CVS/Root Thu Jan 1 02:00:00 1970
@@ -0,0 +1 @@
+pserver:anoncvs@anoncvs.linux-ipv6.org:/cvsroot/usagi

diff -uNr netkit-ftp-0.17/ftp/Makefile netkit-ftp/ftp/Makefile
--- netkit-ftp-0.17/ftp/MakefileSun Aug  1 09:00:12 1999
+++ netkit-ftp/ftp/MakefileSat Jan 27 07:57:08 2001
@@ -16,10 +16,13 @@
cmds.o glob.o: glob.h

install: ftp
+install -d $(INSTALLROOT)$(BINDIR)
install -s -m$(BINMODE) ftp $(INSTALLROOT)$(BINDIR)
ln -sf ftp $(INSTALLROOT)$(BINDIR)/pftp
+install -d $(INSTALLROOT)$(MANDIR)/man1
install -m$(MANMODE) ftp.1 $(INSTALLROOT)$(MANDIR)/man1
ln -sf ftp.1 $(INSTALLROOT)$(MANDIR)/man1/pftp.1
+install -d $(INSTALLROOT)$(MANDIR)/man5
install -m$(MANMODE) netrc.5 $(INSTALLROOT)$(MANDIR)/man5

clean:
diff -uNr netkit-ftp-0.17/ftp/cmds.c netkit-ftp/ftp/cmds.c
--- netkit-ftp-0.17/ftp/cmds.cSun Jul 23 04:36:59 2000
+++ netkit-ftp/ftp/cmds.cFri Jan 12 23:36:27 2001
@@ -1,3 +1,5 @@
+/* $USAGI$ */
+
/*
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@@ -35,7 +37,7 @@
*/
char cmds_rcsid[] =
 - "$Id: cmds.c,v 1.33 2000/07/23 01:36:59 dholland Exp $";
 + "$Id: cmds.c,v 1.3 2001/01/12 21:36:27 sekiya Exp $";

/*
 * FTP User Program -- Command Routines.
@@ -190,7 +192,7 @@
setpeer(int argc, char *argv[])
{
  char *host;
-unsigned short port;
+char *port;

  if (connected) {
    printf("Already connected to %s, use close first\n", 
@@ -205,22 +207,17 @@
    code = -1;

Open Source Used In Cisco VSM 7.14.2 19586
return;
}
-\tport = ftp_port;
+\tport = NULL;
if (argc > 2) {
-\t\tport = atoi(argv[2]);
-\t\tif (port < 1) {
-\t\t\tprintf("%s: bad port number-- %s\n", argv[1], argv[2]);
-\t\t\tprintf ("usage: %s host-name [port]\n", argv[0]);
-\t\t\t-code = -1;
-\t\t\treturn;
-\t\t}
-\t\tport = htons(port);
-\t\tport = argv[2];
-\t\t}
+\t\t}
host = hookup(argv[1], port);
if (host) {
int verbose;

connected = 1;
+\t\ttry_epsv = 1;
+\t\ttry_eprt = 1;
/*
* Set up defaults for FTP.
*/

diff -uNr netkit-ftp-0.17/ftp/cmdtab.c netkit-ftp/ftp/cmdtab.c
--- netkit-ftp-0.17/ftp/cmdtab.c Tue Sep 28 18:36:05 1999
@@ -35,7 +35,7 @@
* from: @(#)cmdtab.c	5.10 (Berkeley) 6/1/90
*/
char cmdtab_rcsid[] =
- "$Id: cmdtab.c,v 1.8 1999/09/28 15:36:05 dholland Exp $";
+ "$Id: cmdtab.c,v 1.1.1.1 2000/11/03 19:18:15 mk Exp $";

#include <string.h> /* for NULL */
#include "ftp_var.h"

diff -uNr netkit-ftp-0.17/ftp/domacro.c netkit-ftp/ftp/domacro.c
--- netkit-ftp-0.17/ftp/domacro.c Thu Aug 15 02:27:28 1996
@@ -35,7 +35,7 @@
* from: @(#)domacro.c 1.8 (Berkeley) 9/28/90
*/
char domacro_rcsid[] =
- "$Id: domacro.c,v 1.4 1996/08/14 23:27:28 dholland Exp $";
+ "$Id: domacro.c,v 1.1.1.1 2000/11/03 19:18:15 mk Exp $";

#include <errno.h>
#include <ctype.h>
diff -uNr netkit-ftp-0.17/ftp/ftp.1 netkit-ftp/ftp/ftp.1
--- netkit-ftp-0.17/ftp/ftp.1
Mon Jul 31 02:56:59 2000
+++ netkit-ftp/ftp/ftp.1
Fri Nov  3 21:18:15 2000
@@ -30,7 +30,7 @@
\" SUCH DAMAGE.
\"
\"from: @(#)/ftp.16.18 (Berkeley) 7/30/91
+\"$Id: ftp.1,v 1.1.1.1 2000/11/03 19:18:15 mk Exp $
\"
.Dd August 15, 1999
.Dt FTP 1
.diff -uNr netkit-ftp-0.17/ftp/ftp.c netkit-ftp/ftp/ftp.c
--- netkit-ftp-0.17/ftp/ftp.c
Mon Dec 13 22:33:20 1999
+++ netkit-ftp/ftp/ftp.c
Sun Feb 11 14:26:59 2001
@@ -1,3 +1,34 @@
+/* $USAGI$ */
+
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+ */
+
/*
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 * @ -35.7 +66.7 @
 * From: @(/#)ftp.c5.38 (Berkeley) 4/22/91
 */

char ftp_rcsid[] =
-  "$Id: ftp.c,v 1.25 1999/12/13 20:33:20 dholland Exp $";
+  "$Id: ftp.c,v 1.11 2001/02/11 12:26:59 yoshfuji Exp $";

#include <sys/param.h>
#include <sys/stat.h>
@@ -63,14 +94,38 @@
#include "ftp_var.h"
#include "cmds.h"

+ifdef _USAGI
+include "version.h"
+else
+include ".../version.h"
+endif
+
+union sockunion {
+struct sockinet {
+u_short si_family;
+u_short si_port;
+} su_si;
+struct sockaddr su_sa;
+struct sockaddr_in su_sin;
+#ifdef INET6
+struct sockaddr_in6 su_sin6;
+#endif
+su_family = su_sa.sa_family;
+#definesu_family su.sa_family
+#definesu_port su.si.port
+ +#ifdef INET6
++#define ex_af2prot(a) (a == AF_INET ? 1 : (a == AF_INET6 ? 2 : 0))
+#else
++#define ex_af2prot(a) (a == AF_INET ? 1 : 0)
+ +#endif

int data = -1;
off_t restart_point = 0;

-static struct sockaddr_in hisctladdr;
-static struct sockaddr_in data_addr;
-static struct sockaddr_in myctladdr;

Open Source Used In Cisco VSM 7.14.2 19589
static union sockunion hisctladdr;
static union sockunion data_addr;
static union sockunion myctladdr;
static int ptflag = 0;
static sigjmp_buf recvabort;
static sigjmp_buf sendabort;
@@ -96,79 +151,119 @@
static FILE *dataconn(const char *); 

char *
-hookup(char *host, int port)
+hookup(const char *host, const char *port)
{ 
 registering struct hostent *hp = 0;
-int s, tos;
+int s, tos, error;
 socklen_t len;
 static char hostnamebuf[256];
-
+struct addrinfo hints, *res, *res0;
+char hbuf[MAXHOSTNAMELEN], pbuf[NI_MAXSERV];
+char *cause = "ftp: unknown";
 +
 +if (port) {
 +strncpy(pbuf, port, sizeof(pbuf) - 1);
 +pbuf[sizeof(pbuf) - 1] = '\0';
 +} else {
 +sprintf(pbuf, "%d", ntohs(ftp_port));
 +}
 memset(&hisctladdr, 0, sizeof(hisctladdr));
-if (inet_aton(host, &hisctladdr.sin_addr)) {
 -hisctladdr.sin_family = AF_INET;
 -strncpy(hostnamebuf, host, sizeof(hostnamebuf));
 -hostnamebuf[sizeof(hostnamebuf)-1]=0;
 -} 
-else {
 -hp = gethostname(hostnamebuf);
 -if (hp == NULL) {
 -fprintf(stderr, "ftp: %s: ", host);
 -error = getaddrinfo(host, pbuf, &hints, &res0);
 +if (error) {
 +if (port) {
  

+strcpy(hbuf, " ");
+} else {
+hbuf[0] = '\0';
+pbuf[0] = '\0';
}

-hisctladdr.sin_family = hp->h_addrtype;
-if (hp->h_length > (int)sizeof(hisctladdr.sin_addr)) {
-hp->h_length = sizeof(hisctladdr.sin_addr);
}
-memcpy(&hisctladdr.sin_addr, hp->h_addr_list[0], hp->h_length);
-(void) strcpy(hostnamebuf, hp->h_name, sizeof(hostnamebuf));
-hostnamebuf[strlen(hostnamebuf)-1] = 0;
-
-hostname = hostnamebuf;
-s = socket(hisctladdr.sin_family, SOCK_STREAM, 0);
-if (s < 0) {
-pererror("ftp: socket");
+fprintf(stderr, "ftp: %s%s%s: %s
", host, hbuf, pbuf,
+gai_strerror(error));
code = -1;
return (0);
}

-hisctladdr.sin_port = port;
-while (connect(s, (struct sockaddr *)&hisctladdr, sizeof (hisctladdr)) < 0) {
-if (hp && hp->h_addr_list[1]) {
+int oerrno = errno;
-
-fprintf(stderr, "ftp: connect to address %s: ",
+inet_ntoa(hisctladdr.sin_addr));
-errno = oerrno;
-pererror((char *) 0);
-hp->h_addr_list++;
-memcpy(&hisctladdr.sin_addr, hp->h_addr_list[0],
-     hp->h_length);
-fprintf(stdout, "Trying %s...
",  
+inet_ntoa(hisctladdr.sin_addr));
-(void) close(s);
-s = socket(hisctladdr.sin_family, SOCK_STREAM, 0);
-if (s < 0) {
-pererror("ftp: socket");
-code = -1;
-return (0);
+
+if (res0->ai_canonname) {
+struct addrinfo h, *a;
+memset(&h, 0, sizeof(h));
+h.ai_family = PF_UNSPEC;
+h.ai_socktype = SOCK_STREAM;
+h.ai_flags = AI_NUMERICHOST;
+if (!getaddrinfo(res0->ai_canonname, NULL, &h, &a)) {
+strncpy(hostnamebuf, res0->ai_canonname, sizeof(hostnamebuf));
+freeaddrinfo(a);
+} else
+strncpy(hostnamebuf, host, sizeof(hostnamebuf));
+
+else
+strncpy(hostnamebuf, host, sizeof(hostnamebuf));
+
+hostnamebuf[sizeof(hostnamebuf) - 1] = '0';
+hostname = hostnamebuf;
+
+s = -1;
+for (res = res0; res; res = res->ai_next) {
+if (!ex_af2prot(res->ai_family)) {
+cause = "ftp: mismatch address family";
+errno = EPROTONOSUPPORT;
+continue;
+}
+if (((size_t)res->ai_addrlen > sizeof(hisctladdr))
+
+cause = "ftp: mismatch struct sockaddr size";
+errno = EPROTO;
+continue;
+
+}
+if (getnameinfo(res->ai_addr, res->ai_addrlen, hbuf, sizeof(hbuf), NULL, 0,
+NI_NUMERICHOST))
+strncpy(hbuf, "???");
+if (res0->ai_next)/* if we have multiple possibilities */
+fprintf(stdout, "Trying %s...\n", hbuf);
+s = socket(res->ai_family, res->ai_socktype, res->ai_protocol);
+if (s < 0) {
+cause = "ftp: socket";
+continue;
+}
+while ((error = connect(s, res->ai_addr, res->ai_addrlen)) < 0
+&& errno == EINTR) {
+}
+
+if (error) {
+/* this "if" clause is to prevent print warning twice */
+if (res->ai_next) {
+fprintf(stderr,
+"ftp: connect to address %s", hbuf);
+fprintf(stderr,
+"");
+cause = "ftp: connect";
+close(s);
s = -1;
continue;
}
-perror("ftp: connect");
+/* finally we got one */
+break;
+
+if (s < 0) {
+ perror(cause);
+ code = -1;
+ goto bad;
+ freeaddrinfo(res0);
+ return NULL;
}
-len = sizeof (myctladdr);
+len = res->ai_addrlen;
+ memcpy(&hisctladdr, res->ai_addr, len);
+ freeaddrinfo(res0);
if (getsockname(s, (struct sockaddr *)&myctladdr, &len) < 0) {
 perror("ftp: getsockname");
 code = -1;
 goto bad;
 }
#else

cin = fdopen(s, "r");
cout = fdopen(s, "w");
@@ -182,7 +277,7 @@
go to bad;
}
if (verbose)
-printf("Connected to %s\n", hostname);
+printf("Connected to %s (%s)\n", hostname, hbuf);
if (getreply(0) > 2) { /* read startup message from server */
if (cin)
 (void) fclose(cin);
@@ -392,8 +487,10 @@
}
if (dig < 4 && isdigit(c))
 code = code * 10 + (c - '0');
-if (!pflag && code == 227)
+if (!pflag && (code == 227 || code == 228))
pflag = 1;
+else if (pflag & code == 229)
+pflag = 100;
if (dig > 4 & pflag == 1 && isdigit(c))
pflag = 2;
if (pflag == 2) {
   @ @ -405,6 +502,8 @ @
pflag = 3;
   }
+if (pflag == 100 & c == ')
pflag = 2;
if (dig == 4 & c == '-') {
   if (continuation)
      code = 0;
   @ @ -1083,15 +1182,25 @ @
static int
initchannel(void)
{
   -register char *p, *a;
   +u_char *p, *a;
   int result, tmpno = 0;
   socklen_t len;
   int on = 1;
   -int tos;
   -u_long a1,a2,a3,a4,p1,p2;
   -
   +int tos, error = 0;
   +u_int ad[16], po[2], af, alen, plen;
   +char *pasvcmd = NULL;
   +char hbuf[MAXHOSTNAMELEN], pbuf[NL_MAXSERV];
   +
   +#ifdef INET6
   +if (myctladdr.su_family == AF_INET6
   + & (IN6_IS_ADDR_LINKLOCAL(&myctladdr.su_sin6.sin6_addr)
   + || IN6_IS_ADDR_SITELOCAL(&myctladdr.su_sin6.sin6_addr))) {
      +fprintf(stderr, "use of scoped address can be troublesome\n");
      +
      +#endif
   if (passivemode) {
      -data = socket(AF_INET, SOCK_STREAM, 0);
      +data_addr = hisctladdr;
      +data = socket(data_addr.su_family, SOCK_STREAM, 0);
      if (data < 0) {
         perror("ftp: socket");
         return(1);
         @ @ -1100,52 +1209,203 @ @
         setsockopt(data, SOL_SOCKET, SO_DEBUG, (char *)&on,
sizeof (on)) < 0)
perror("ftp: setsockopt (ignored)");
-if (command("PASV") != COMPLETE) {
+switch (data_addr.su_family) {
+case AF_INET:
+#elif 0
+if (try_epsv) {
+result = command(pasvcmd = "EPSV 1");
+if (code / 10 == 22 && code != 229) {
+fprintf(stderr,
+ "wrong server: return code must be 229\n");
+result = COMPLETE + 1;
+}
+} else {
+endif
+result = COMPLETE + 1;
+
+if (result != COMPLETE) {
+try_epsv = 0;
+result = command(pasvcmd = "PASV");
+}
+break;
+#ifdef INET6
+case AF_INET6:
+if (try_epsv) {
+result = command(pasvcmd = "EPSV 2");
+if (code / 10 == 22 && code != 229) {
+fprintf(stderr,
+ "wrong server: return code must be 229\n");
+result = COMPLETE + 1;
+}
+} else {
+result = COMPLETE + 1;
+}
+if (result != COMPLETE) {
+try_epsv = 0;
+result = command(pasvcmd = "LPSV");
+}
+break;
+} else {
+result = COMPLETE + 1;
+}
+if (result != COMPLETE) {
+try_epsv = 0;
+result = command(pasvcmd = "LPSV");
+}
+break;
+default:
+result = COMPLETE + 1;
+break;
+}
+if (result != COMPLETE) {
printf("Passive mode refused.\n");
-return(1);
+goto bad;
#define pack2(var)  
	(((var)[0] & 0xff) << 8) | ((var)[1] & 0xff) << 0)

#define pack4(var)  
	((((var)[0] & 0xff) << 24) | (((var)[1] & 0xff) << 16) |  
		((var)[2] & 0xff) << 8) | ((var)[3] & 0xff) << 0)

/*
 * What we've got at this point is a string of comma separated
 * one-byte unsigned integer values, separated by commas.
 * The first four are the an IP address. The fifth is the MSB
 * of the port number, the sixth is the LSB. From that we'll
 * prepare a sockaddr_in.
 */
-
-if (sscanf(pasv, "%ld,%ld,%ld,%ld,%ld,%ld",  
		&a1, &a2, &a3, &a4, &p1, &p2)  
		!= 6)  
-
-{  
-printf("Passive mode address scan failure. Shouldn't happen!\n");  
-return(1);  
+error = 0;  
+if (strcmp(pasvcmd, "PASV") == 0) {}  
+if (data_addr.su_family != AF_INET) {}  
+error = 2;  
+goto psv_done;  
+}  
+if (code / 10 == 22 && code != 227) {}  
+error = 227;  
+goto psv_done;  
+}  
+if (sscanf(pasv, "%u,%u,%u,%u,%u,%u",  
				&ad[0], &ad[1], &ad[2], &ad[3],  
				&po[0], &po[1]) != 6) {}  
+error = 1;  
+goto psv_done;  
+}  
+data_addr.su_sin.sin_addr.s_addr = htonl(pack4(ad));  
+data_addr.su_port = htons(pack2(po));  
+} else  
+ if (strcmp(pasvcmd, "LPSV") == 0) {}  
+if (code / 10 == 22 && code != 228) {}  
+error = 228;  
+goto psv_done;  
+}  
+switch (data_addr.su_family) {  
+case AF_INET:

if (sscanf(pasv, "%u,%u,%u,%u,%u,%u,%u,%u,%u",
    &af, &alen,
    &ad[0], &ad[1], &ad[2], &ad[3],
    &plen, &po[0], &po[1]) != 9) {
    error = 1;
    goto psv_done;
} +
if (af != 4 || alen != 4 || plen != 2) {
    error = 2;
    goto psv_done;
} +
data_addr.su_sin.sin_addr.s_addr =
    htonl(pack4(ad));
data_addr.su_port = htons(pack2(po));
break;
#ifdef INET6
+ case AF_INET6:
+ if (sscanf(pasv,
+ "%u,%u,%u,%u,%u,%u,%u,%u,%u,%u,%u,%u,%u,%u,%u,%u,%u,%u,%u,%u,%u",
+  &af, &alen,
+  &ad[0], &ad[1], &ad[2], &ad[3],
+  &ad[4], &ad[5], &ad[6], &ad[7],
+  &ad[8], &ad[9], &ad[10], &ad[11],
+  &ad[12], &ad[13], &ad[14], &ad[15],
+  &plen, &po[0], &po[1]) != 21) {
    error = 1;
    goto psv_done;
} +
if (af != 6 || alen != 16 || plen != 2) {
    error = 2;
    goto psv_done;
} +
data_addr.su_sin6.sin6_addr.s6_addr32[0] =
    htonl(pack4(ad));
data_addr.su_sin6.sin6_addr.s6_addr32[1] =
    htonl(pack4(ad+4));
data_addr.su_sin6.sin6_addr.s6_addr32[2] =
    htonl(pack4(ad+8));
data_addr.su_sin6.sin6_addr.s6_addr32[3] =
    htonl(pack4(ad+12));
data_addr.su_port = htons(pack2(po));
break;
#elseif
+ default:
+ error = 1;
+ }
+ else if (strncmp(pasvcmd, "EPSV", 4) == 0) {
+ char delim[4];
+u_int epsvpo;
+
+if (code / 10 == 22 && code != 229) {
+error = 229;
+goto psv_done;
+}
+
+if (sscanf(pasv, "%c%c%c%u%c", &delim[0], &delim[1],
+&delim[2], &epsvpo, &delim[3]) != 5) {
+error = 1;
+goto psv_done;
+}
+
+ || delim[0] != delim[3]) {
+error = 1;
+goto psv_done;
+}
+
+data_addr.su_port = htons(epsvpo);
+} else {
+error = 1;
+}
+
+psv_done:
+switch (error) {
+case 0:
+break;
+case 1:
+fprintf(stderr,
+  "Passive mode address scan failure. Shouldn't happen!\n");
+goto bad;
+case 2:
+fprintf(stderr,
+  "Passive mode AF mismatch. Shouldn't happen!\n");
+goto bad;
+case 227:
+case 228:
+case 229:
+fprintf(stderr,
+  "wrong server: return code must be %d\n", error);
+goto bad;
+default:
+fprintf(stderr, "Bug\n");
+}

-data_addr.sin_family = AF_INET;
-data_addr.sin_addr.s_addr = htonl((a1 << 24) | (a2 << 16) |
- (a3 << 8) | a4);
-data_addr.sin_port = htons((p1 << 8) | p2);
-
if (connect(data, (struct sockaddr *) &data_addr,
- sizeof(data_addr)<0) { 
+ (data_addr.sa_family == AF_INET ? 
+ sizeof(data_addr.sin) : 
+ sizeof(data_addr.sin6))<0) { 
  perror("ftp: connect"); 
  return(1); 
} 
#endif 
#if defined IP_TOS 
+if (data_addr.sa_family == AF_INET) 
+{ 
tos = IPTOS_THROUGHPUT; 
if (setsockopt(data, IPPROTO_IP, IP_TOS, (char *)&tos, 
    sizeof(tos)) < 0) 
  perror("ftp: setsockopt TOS (ignored)"); 
+} 
#endif 
return(0); 
} 
noport: 
data_addr = myctladdr; 
if (sendport) 
-data_addr.sin_port = 0;/* let system pick one */ 
+data_addr.su_port = 0;/* let system pick one */ 
if (data != -1) 
(void) close(data); 
-data = socket(AF_INET, SOCK_STREAM, 0); 
+data = socket(data_addr.su_family, SOCK_STREAM, 0); 
if (data < 0) { 
  perror("ftp: socket"); 
  if (!tmpno) 
    @ @ -1172,13 +1432,47 @@ 
  if (listen(data, 1) < 0) 
    perror("ftp: listen"); 
  if (sendport) { 
    -a = (char *)&data_addr.sin_addr; 
    -p = (char *)&data_addr.sin_port; 
    #@defineUC(b)(((int)b)&0xff) 
    -result = 
     -command("PORT %d,%d,%d,%d,%d,%d", 
       -UC(a[0]), UC(a[1]), UC(a[2]), UC(a[3]), 
       -UC(p[0]), UC(p[1])); 
+af = ex_af2prot(data_addr.sa_family); 
+if (try_eprt && af > 1) { /* only IPv6 */ 
+if (getnameinfo((struct sockaddr *)&data_addr, len, 
+hbuf, sizeof(hbuf), pbuf, sizeof(pbuf), 
+Nl_NUMERICHOST | Nl_NUMERICSERV) == 0) { 
+result = command("EPRT [%d] [%s] [%s]", 
+af, hbuf, pbuf); 

if (result != COMPLETE) {
    try_eprt = 0;
} else {
    result = ERROR;
}
else {
    result = COMPLETE + 1;
}
if (result == COMPLETE)
goto prt_done;

p = (u_char *)&data_addr.su_port;
switch (data_addr.su_family) {
    case AF_INET:
        a = (u_char *)&data_addr.su_sin.sin_addr;
        result = command("PORT %u,%u,%u,%u,%u,%u",
                         a[0], a[1], a[2], a[3], p[0], p[1]);
        break;
    #ifdef INET6
    case AF_INET6:
        a = (u_char *)&data_addr.su_sin6.sin6_addr;
        result = command("LPRT 6,16,%d,%d,%d,%d,%d,%d,%d,%d,%d,%d,%d,%d,%d,%d,2,%d,%d",
                         a[0], a[1], a[2], a[3], a[4], a[5], a[6], a[7],
                         a[8], a[9], a[10], a[11], a[12], a[13], a[14], a[15],
                         p[0], p[1]);
        break;
    #endif
    default:
        result = COMPLETE + 1; /* xxx */
}

prt_done:
if (result == ERROR && sendport == -1) {
    sendport = 0;
tmpno = 1;
    @ @ -1189.9 +1483.12 @@
    if (tmpno)
        sendport = 1;
    #ifdef IP_TOS
    if (data_addr.su_family == AF_INET)
        { on = IPTOS_THROUGHPUT;
            if (setsockopt(data, IPPROTO_IP, IP_TOS, (char *)&on, sizeof(int)) < 0)
                perror("ftp: setsockopt TOS (ignored)");
        }
    #endif
}
return (0);
bad:
@@ -1204,7 +1501,7 @@
static FILE *
dataconn(const char *lmode)
{
-struct sockaddr_in from;
+union sockunion from;
int s, tos;
socklen_t fromlen = sizeof(from);
@@ -1220,9 +1517,12 @@
(void) close(data);
data = s;
#ifdef IP_TOS
+if (from.su_family == AF_INET)
+{
tos = IPTOS_THROUGHPUT;
if (setsockopt(s, IPPROTO_IP, IP_TOS, (char *)&tos, sizeof(int)) < 0)
perror("ftp: setsockopt TOS (ignored)");
+
}
#endif
return (fdopen(data, lmode));
}
@@ -1284,8 +1584,8 @@
static struct comvars {
int connect;
char name[MAXHOSTNAMELEN];
-struct sockaddr_in mctl;
-struct sockaddr_in hctl;
+union sockunion mctl;
+union sockunion hctl;
FILE *in;
FILE *out;
int tpe;
@@ -1323,7 +1623,7 @@
connected = op->connect;
if (hostname) {
(void) strncpy(ip->name, hostname, sizeof(ip->name) - 1);
-ip->name[strlen(ip->name)] = '\0';
+ip->name[sizeof(ip->name) - 1] = '\0';
}
else {
ip->name[0] = 0;
@@ -1352,18 +1652,18 @@
ip->ntflg = ntflag;
ntflag = op->ntflg;
(void) strncpy(ip->nti, ntin, 16);
- (ip->nti)[strlen(ip->nti)] = '\0';
+ (ip->nti)[16] = '\0'; /* shouldn't use strlen */
(void) strncpy(ntin, op->nti);
(void) strncpy(ip->nto, ntout, 16);
- (ip->nto)[strlen(ip->nto)] = '\0';
+ (ip->nto)[16] = '\0';
(void) strcpy(ntout, op->nto);
ip->mapflg = mapflag;
mapflag = op->mapflg;
(void) strncpy(ip->mi, mapin, MAXPATHLEN - 1);
- (ip->mi)[strlen(ip->mi)] = '\0';
+ (ip->mi)[MAXPATHLEN - 1] = '\0';
(void) strcpy(mapin, op->mi);
(void) strncpy(ip->mo, mapout, MAXPATHLEN - 1);
- (ip->mo)[strlen(ip->mo)] = '\0';
+ (ip->mo)[MAXPATHLEN - 1] = '\0';
(void) strcpy(mapout, op->mo);
(void) signal(SIGINT, oldintr);
if (abrtflag) {
diff -uNr netkit-ftp-0.17/ftp/ftp_var.h netkit-ftp/ftp/ftp_var.h
--- netkit-ftp-0.17/ftp/ftp_var.h	Sat Oct  2 21:39:17 1999
+++ netkit-ftp/ftp/ftp_var.h	Fri Jan 12 23:36:27 2001
@@ -1,3 +1,5 @@
+/* $USAGI$ */
+
/*
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@@ -31,7 +33,7 @@
* SUCH DAMAGE.
*
*from: @(#)ftp_var.h 5.9 (Berkeley) 6/1/90
- *Id: ftp_var.h,v 1.12 1999/10/02 18:39:17 dholland Exp $
+ *Id: ftp_var.h,v 1.3 2001/01/12 21:36:27 sekiya Exp $
*/
/*
@@ -112,6 +114,8 @@
Extern intmflag;/* flag: if != 0, then active multi command */

Extern intoptions;/* used during socket creation */
+Extern intrty_epsv;/* try EPSV for this session */
+Extern intrty_eprt;/* try EPRT for this session */

/*
 * Format of command table.
@@ -140,7 +144,7 @@
 Extern char macbuf[4096];


#define MACBUF_SIZE 4096

- char *hookup(char *host, int port);
+ char *hookup(const char *host, const char *port);

struct cmd *getcmd(const char *);

char **makeargv(int *pargc, char **parg);

int dologin(const char *host);

Foimd in path(s):
* /opt/cola/permits/1103682221_1604381210.73/0/ftp-0.17-67.el7.src.rpm-cosi-expand-archive-BGBWssNi/netkit-ftp.usagi-ipv6.patch

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/* /opt/cola/permits/1103682221_1604381210.73/0/ftp-0.17-67.el7.src.rpm-cosi-expand-archive-BGBWssNi/netkit-ftp-0.17.tar.gz-cosi-expand-archive-rLSfJa9/netkit-ftp-0.17/ftp/cmdtab.c
*/

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* /opt/cola/permits/1103682221_1604381210.73/0/ftp-0.17-67.el7.src.rpm-cosi-expand-archive-BGBWssNi/netkit-ftp-0.17.tar.gz-cosi-expand-archive-rLSfJla9/netkit-ftp-0.17/ftp/glob.c

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*from: @(#$ftp_var.h.5.9 (Berkeley) 6/1/90
*$Id: ftp_var.h,v 1.12 1999/10/02 18:39:17 dholland Exp $
*/

Found in path(s):
*/opt/cola/permits/1103682221_1604381210.73/0/ftp-0.17-67.el7.src-cosi-expand-archive-BGBWssNi/netkit-
ftp-0.17.tar.gz-cosi-expand-archive-rLSIJla9/netkit-ftp-0.17/ftp/ftp_var.h
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  ftp-0.17.tar.gz-cosi-expand-archive-rLSfJla9/netkit-ftp-0.17/ftp/ftp.c

1.259 spring-context 4.3.25.RELEASE

1.260 harfbuzz 1.7.5-2.el7

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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_pton.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:

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1.272 libtdb 1.3.15

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1.285 bind 9.11.4 16.P2.el7

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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.

Author: Julio Merino <jmmv@users.sourceforge.net>

* 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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1.286 python-gudev 147.2

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1.287 numactl 2.0.9
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1.288 man-pages-overrides 7.6.2

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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.>
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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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Open Source Used In Cisco VSM 7.14,1 19755
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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.

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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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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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its purpose remains meaningful.

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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.

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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
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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 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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1.289 perl-pod-simple 3.28
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=head1 SEE ALSO

L<Pod::Simple>, L<Pod::Simple::Text>, L<Pod::Spell>

=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 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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Pod::Simple::XHTML was created by Allison Randal <allison@perl.org>.

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/1103682233_1604395580.92/0/perl-Pod-Simple-3.28-4.el7-1.src.rpm-cosi-expand-archive-LYjA44YB/Pod-Simple-3.28.tar.gz-cosi-expand-archive-sdQbSi82/Pod-Simple-3.28/lib/Pod/Simple/XHTML.pm
No license file was found, but licenses were detected in source scan.

=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) = @_; ...
}
1;

=head1 DESCRIPTION

This document is about using Pod::Simple to write a Pod processor, 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 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 »’s

In the following section, we use XML to represent the event structure associated with a particular construct. That is, TODO

=over

=item C<< $parser->_handle_element_start( I<element_name>, I<attr_hashref> ) >>

=item C<< $parser->_handle_element_end( I<element_name>  ) >>

=item 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:

<Document start_line="543">
...all events...
</Document>

The value of the $start_line$ 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:

<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:

<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:

The value of the $start_line$ attribute will be the line number of the start of the paragraph.

produces this event structure:

<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 \texttt{BE<lt>...E<gt>} formatting code (or of course any of its semantically identical syntactic variants  
\texttt{S<BE<lt>E<lt> ... E<gt>E<gt>}},  
or \texttt{S<BE<lt>E<lt>E<lt>E<lt> ... E<gt>E<gt>E<gt>E<gt>}}, etc.) produces this event structure:

\begin{verbatim}
<B>
...stuff...
</B>
\end{verbatim}

Currently, there are no attributes conveyed.

Parsing \texttt{C}, \texttt{F}, or \texttt{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 \texttt{B/C/F/I} codes -- i.e., without any attributes.

=item events with an element\_name of \texttt{S}

Normally, parsing an \texttt{SE<lt>...E<gt>} sequence produces this event structure, just as if it were a \texttt{B/C/F/I} code:

\begin{verbatim}
<S>
...stuff...
</S>
\end{verbatim}

However, Pod::Simple (and presumably all derived parsers) offers the \texttt{C<nbsp\_for\_S>} option which, if enabled, will suppress all \texttt{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 \texttt{SE<lt>...E<gt>}, but which has a code/character that means non-breaking space.

=item events with an element\_name of \texttt{X}

Normally, parsing an \texttt{XE<lt>...E<gt>} sequence produces this event structure, just as if it were a \texttt{B/C/F/I} code:

\begin{verbatim}
<X>
...stuff...
</X>
\end{verbatim}

However, Pod::Simple (and presumably all derived parsers) offers the \texttt{C<nix\_X\_codes>} option which, if enabled, will suppress all \texttt{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:

```markdown
<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:

```markdown
<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:

```markdown
<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 I<section> attribute. For example, this Pod source:

L<crontab(5)"ENVIRONMENT">

will produce this event structure:

<L content-implicit="yes" raw="crontab(5)"&quot;ENVIRONMENT&quot; section="ENVIRONMENT" to="crontab(5)" type="man">
"ENVIRONMENT" in crontab(5)
</L>

In the rare case where the Pod document has code like LE<lt>I<sometext>|I<manpage(section)>E<gt>, then the I<sometext> will appear as the content of the element, the I<manpage(section)> text will appear only as the value of the I<to> attribute, and there will be no C<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 I<not> have to infer the link text, because that L code explicitly specified some link text.)

For example, this Pod source:

L<hell itself!|crontab(5)>

will produce this event structure:

<L raw="hell itself!|crontab(5)" to="crontab(5)" type="man">
hell itself!
</L>

The last type of L structure is for links to/within Pod documents. It is the most complex because it can have a I<to> attribute, I<or> a I<section> attribute, or both. The C<type="pod"> attribute is always specified for this type of L code.

In the most common case, the simple case of a LE<lt>podpageE<gt> code
produces this event structure:

```xml
<L content-implicit="yes" raw="podpage" to="podpage" type="pod">
  podpage
</L>
```

For example, this Pod source:

`L<Net::Ping>`

produces this event structure:

```xml
<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 `LE<lt>I<sometext>|I<manpage(section)>E<gt>` case discussed above. For example, this Pod source:

`L<Perl Error Messages|perldiag>`

produces this event structure:

```xml
<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 `I<section>` attribute instead of a `I<to>` attribute. For example, this Pod source:

`L</"Member Data">`

produces this event structure:

```xml
<L content-implicit="yes" raw="/&quot;Member Data&quot;" section="Member Data" type="pod">
  "Member Data"
</L>
```

As another example, this Pod source:

`L<the various attributes|"Member Data">`

produces this event structure:

```xml
<L raw="the various attributes|"/&quot;Member Data&quot;" section="Member Data" type="pod">
```

---

Open Source Used In Cisco VSM 7.14.2 19853
the various attributes
</L>

In cases of links to a section in a different Pod document, there are both a I<section> attribute and a L<to> attribute.
For example, this Pod source:

L<perlsyn/"Basic BLOCKs and Switch Statements">

produces this event structure:

<L content-implicit="yes" raw="perlsyn/&quot;Basic BLOCKs and Switch Statements&quot;" section="Basic BLOCKs and Switch Statements" to="perlsyn" type="pod">
"Basic BLOCKs and Switch Statements" in perlsyn
</L>

As another example, this Pod source:

L<SWITCH statements|perlsyn/"Basic BLOCKs and Switch Statements">

produces this event structure:

<L raw="SWITCH statements|perlsyn/&quot;Basic BLOCKs and Switch Statements&quot;" section="Basic BLOCKs and Switch Statements" to="perlsyn" type="pod">
SWITCH statements
</L>

Incidentally, note that we do not distinguish between these syntaxes:

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:

<L content-implicit="yes" raw="$depends_on_syntax" section="Member Data" type="pod">
&amp;#34;Member Data&amp;#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.
Specifically, notice that the formatting codes are present and unescaped in `<raw>`.

There is a known bug in the `<raw>` attribute where any surrounding whitespace is condensed into a single `' '`. For example, given `<link>`   link, `<raw>` will be " link".

=item events with an element_name of E or Z

While there are Pod codes `<...>` and `<...>`, these `<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:

```xml
<Verbatim start_line="543" xml:space="preserve">
...text...
</Verbatim>
```

The value of the `<start_line>` attribute will be the line number of the first line of this verbatim block. The `<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:

```xml
<head1>
...stuff...
</head1>
```

For example, a directive consisting of this:

```xml
=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 not have the 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 Pod::Checker's source for an example of this
attribute being used.

The value of the 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 indent attribute has the value "4".

For example, this Pod source:

=over

=item *

Stuff

=item *

Bar 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">
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 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!), 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
produces this event structure:

```xml
<over-text indent="4" start_line="20">
  <item-text start_line="22">
    Foo
  </item-text>
  <Para start_line="24">
    Stuff
  </Para>
  <item-text start_line="26">
    Bar
  </item-text>
  <I>
    baz
  </I>
  !
</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:

```xml
<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:

```pods
=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">
<Para start_line="4">
  For cutting off our trade with all parts of the world
</Para>
<Para start_line="6">
  For transporting us beyond seas to be tried for pretended offenses
</Para>
<Para start_line="8">
  He is at this time transporting large armies of [...more text...]
</Para>
</over-block>

=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 `<over>` is a block because it has no `<item>`s but still has content: the inner `<over>`. The inner `<over>`, in turn, is completely empty, and is treated as such.

=item events with an element_name of item-bullet

See L</"events with an element_name of over-bullet">, above.

=item events with an element_name of item-number

See L</"events with an element_name of over-number">, above.

=item events with an element_name of item-text

See L</"events with an element_name of over-text">, above.

=item events with an element_name of for

TODO...

=item events with an element_name of Data

TODO...

=back

=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 `<for I<targetname>>` sections it's interested in, what extra `<lt>...E<gt>` codes it accepts beyond the ones described in the `<perlpod>`.

=over

=item C<< $parser->accept_targets( I<SOMEVALUE> ) >>

As the parser sees sections like:

=for html `<img src="fig1.jpg">`

=back
or

=end html

...the parser will ignore these sections unless your subclass has specified that it wants to see sections targeted to "html" (or whatever the formatter name is).

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->acceptDirectiveAsData( I<directive_name> ) >>

=item C<< $parser->acceptDirectiveAsVerbatim( I<directive_name> ) >>

=item C<< $parser->acceptDirectiveAsProcessed( 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
For example, to accept a new directive "=method", you'd presumably use:

```perl
$parser->accept_directive_as_processed("method");
```

so that you could have Pod lines like:

```
=method I<$whatever> thing B<um>
```

Making up your own directives breaks compatibility with other Pod formatters, in a way that using "=for I<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.

```perl
=item C<< $parser->nbsp_for_S( I<BOOLEAN> ); >>

Setting this attribute to a true value (and by default it is false) will turn "SE<lt>...E<gt>" sequences into sequences of words separated by C<<\xA0>> (non-breaking space) characters. For example, it will take this:

I like S<Dutch apple pie>, don't you?

and treat it as if it were:

I like DutchE<nbsp>appleE<nbsp>pie, don't you?

This is handy for output formats that don't have anything quite like an "SE<lt>...E<gt>" 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.

```perl
=item C<< $parser->version_report() >>

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 L<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:

```perl
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 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 "	") on them, not 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<die>!

=item C<< $parser->hide_line_numbers( I<SOMEVALUE> ) >>

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.

=item C<< $parser->no_whining( I<SOMEVALUE> ) >>

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 C<no_errata_section> and C<complain_stderr>.

=item C<< $parser->no_errata_section( I<SOMEVALUE> ) >>

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.

=item C<< $parser->complain_stderr( I<SOMEVALUE> ) >>

This attribute, if set to true will send complaints to STDERR. The default value is false -- i.e., complaints do not go to STDERR.

=item C<< $parser->bare_output( I<SOMEVALUE> ) >>

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 C<no_whining> or at least C<no_errata_section> to true.

=item C<< $parser->preserve_whitespace( I<SOMEVALUE> ) >>

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).

=item C<< $parser->parse_empty_lists( I<SOMEVALUE> ) >>

If this attribute is set to true, the parser will not ignore empty C<<over/C<<back>> 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

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>
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.

---

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

# 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<textlink>" 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 from Patrice Dumas (RT #74390).

2013-02-16   David E. Wheeler <david@justatheory.org>
* Release 3.25

Improved the warning when "=item" types mismatch within one "=over"/"=back" block.

2013-02-14   David E. Wheeler <david@justatheory.org>
* Release 3.24

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 Stauner 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 '[[:alnum:]-]+]'.
Thanks to Dave Rolsky and Kevin Ryde for the reports (RT #82975 &
RT #82972).

Fixed inverted mapping of "keyboard" to "kbd" in
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
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 encounted 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-insensitive, 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 new PullParser, 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 spelled "=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 perlodspec.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 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 ot 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 *\n 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

2002-09-11  Sean M. Burke <sburke@cpan.org>
* 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/1103682233_1604395580.92/0/perl-Pod-Simple-3.28-4.el7-1.src.rpm-cosi-expand-archive-LYjA44YB/Pod-Simple-3.28.tar.gz-cosi-expand-archive-sdQbSi82/Pod-Simple-3.28/ChangeLog
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?

__END__

=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/blIZ<<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

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!

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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/1103682233_1604395580.92/0/perl-Pod-Simple-3.28-4.el7-1.src.rpm-cosi-expand-archive-LYjA44YB/Pod-Simple-3.28.tar.gz-cosi-expand-archive-sdQbSi82/Pod-Simple-3.28/lib/Pod/Simple/LinkSection.pm

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>

=head1 SUPPORT

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=item *
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

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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Found in path(s):
  * /opt/cola/permits/1103682233_1604395580.92/0/perl-Pod-Simple-3.28-4.el7-1.src.rpm-cosi-expand-archive-LYjA44YB/Pod-Simple-3.28.tar.gz-cosi-expand-archive-sdQbSi82/Pod-Simple-3.28/README

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

=head1 NAME

Pod::Simple::PullParserStartToken -- start-tokens from Pod::Simple::PullParser

=head1 SYNOPSIS

(See L<Pod::Simple::PullParser>)

=head1 DESCRIPTION

When you do $parser->get_token on a L<Pod::Simple::PullParser> object, 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

=item $token->tagname
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".

=item $token->tagname(I<somestring>)

This changes the tagname for this start-token object.
You probably won't need
to do this.

=item $token->tag(...)

A shortcut for $token->tagname(...)

=item $token->is_tag(I<somestring>) or $token->is_tagname(I<somestring>)

These are shortcuts for C<< $token->tag() eq I<somestring> >>

=item $token->attr(I<attrname>)

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".

=item $token->attr(I<attrname>, I<newvalue>)

This sets the I<attrname> attribute for this start-token object to
I<newvalue>. You probably won't need to do this.

=item $token->attr_hash

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} >>

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

=head1 NAME
Pod::Simple::PullParserEndToken -- end-tokens from Pod::Simple::PullParser

=head1 SYNOPSIS
(See L<Pod::Simple::PullParser>)

=head1 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

=item $token->tagname

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(I<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(I<somestring>) or $token->is_tagname(I<somestring>)

These are shortcuts for C<< $token->tag() eq I<somestring> >>

=back
You're unlikely to ever need to construct an object of this class for yourself, but if you want to, call

```
Pod::Simple::PullParserEndToken->new( I<tagname> )
```

=head1 SEE ALSO

L<Pod::Simple::PullParserToken>, L<Pod::Simple>, L<Pod::Simple::Subclassing>

=head1 SUPPORT

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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 s too late to call Pod::Simple::Debug".
Note that the C\use Pod::Simple::Debug ($x, 1<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>


=head1 SUPPORT

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

=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<p/home/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<perlpspec> (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<C<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.

```perl
=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.

```perl
=item C<< $parser->parse_lines( I<...@lines...>, undef ); >>
```

This processes the lines in `C<@lines>` (where each list item must be a defined value, and must contain exactly one line of content -- so no items like `C<"foo\nbar">` are allowed). The final `C<undef>` is used to indicate the end of document being parsed.

The other `C<parser_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.

```perl
=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.

```perl
=item C<< I<SomeClass>-filter( I<$filename> ); >>
```

```perl
=item C<< I<SomeClass>-filter( I<*INPUT_FH> ); >>
```

```perl
=item C<< I<SomeClass>-filter( I<$document_content> ); >>
```

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 -MPod::Simple::Text -e "Pod::Simple::Text->filter('thingy.pod')"
```

=back
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 C<< $value = $parser->I<attribute> >> and set the attribute's value with C<< $parser->I<attribute>(I<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( I<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( I<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.

=item C<< $parser->no_errata_section( I<SOMEVALUE> ) >>

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.

=item C<< $parser->complain_stderr( I<SOMEVALUE> ) >>

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`.

=item C<< $parser->source_filename >>

This returns the filename that this parser object was set to read from.

=item C<< $parser->doc_has_started >>

This returns true if C<$parser> has read from a source, and has seen Pod content in it.

=item C<< $parser->source_dead >>

This returns true if C<$parser> has read from a source, and come to the end of that source.

=item C<< $parser->strip_verbatim_indent( I<SOMEVALUE> ) >>

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 a heuristic to determine 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 C<undef>. Say that you don’t want I<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 C<< $parser->abandon_output_fh() >>X<abandon_output_fh>

Cancel output to the file handle. Any POD read by the C<$parser> is not effected.

=item C<< $parser->abandon_output_string() >>X<abandon_output_string>

Cancel output to the output string. Any POD read by the C<$parser> is not effected.

=item C<< $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 ) >>

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 ) >>

Alias for L<< accept_targets >>.

=item C<< $parser->accept_target_as_text( @targets ) >>

Alias for L<< accept_target_as_text >>.

=item C<< $parser->accept_targets( @targets ) >>

Accepts targets for C<< =begin/=for/=end >> sections of the POD.

=item C<< $parser->accept_targets_as_text( @targets ) >>

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() >>

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() >>

Return the encoding corresponding to C<< =encoding >>, but only if the encoding was recognized and handled.

=item C<< $parser->encoding() >>

Return encoding of the document, even if the encoding is not correctly handled.

=item C<< $parser->parse_from_file( $source, $to ) >>
Parses from `C<$source>` file to `C<$to>` file. Similar to `Pod::Parser/parse_from_file`.

```perl
=item C<< $parser->scream( @error_messages ) >>X<scream>
Log an error that can't be ignored.
```

```perl
=item C<< $parser->unaccept_code( @codes ) >>X<unaccept_code>
Alias for `L<< unaccept_codes >>`.
```

```perl
=item C<< $parser->unaccept_codes( @codes ) >>X<unaccept_codes>
Removes `C<< @codes >>` as valid codes for the parse.
```

```perl
=item C<< $parser->unaccept_directive( @directives ) >>X<unaccept_directive>
Alias for `L<< unaccept_directives >>`.
```

```perl
=item C<< $parser->unaccept_directives( @directives ) >>X<unaccept_directives>
Removes `C<< @directives >>` as valid directives for the parse.
```

```perl
=item C<< $parser->unaccept_target( @targets ) >>X<unaccept_target>
Alias for `L<< unaccept_targets >>`.
```

```perl
=item C<< $parser->unaccept_targets( @targets ) >>X<unaccept_targets>
Removes `C<< @targets >>` as valid targets for the parse.
```

```perl
=item C<< $parser->version_report() >>X<version_report>
Returns a string describing the version.
```

```perl
=item C<< $parser->whine( @error_messages ) >>X<whine>
Log an error unless `C<< $parser->no_whining( TRUE );`.
```

=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 a `<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 `<perlpodspec>`.

If you set the `<parse_characters>` option to a true value the parser will expect characters rather than octets; will ignore any `<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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=head1 AUTHOR

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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

Documentation has been contributed by:

=over

=item * Gabor Szabo <szabgab@gmail.com>
=item * Shawn H Corey <SHCOREY at cpan.org>
=back

=cut

Found in path(s):
* /opt/cola/permits/1103682233_1604395580.92/0/perl-Pod-Simple-3.28-4.el7-1.src.rpm-cosi-expand-archive-LYjA44YB/Pod-Simple-3.28.tar.gz-cosi-expand-archive-sdQbSi82/Pod-Simple-3.28/lib/Pod/Simple.pod
No license file was found, but licenses were detected in source scan.

License: GPL+ or Artistic

Found in path(s):
* /opt/cola/permits/1103682233_1604395580.92/0/perl-Pod-Simple-3.28-4.el7-1.src.rpm-cosi-expand-archive-LYjA44YB/perl-Pod-Simple.spec
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:

    $batchconv->batch_convert( ",." , ...);
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 it 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.

(Non 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.

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 C<select>'d) 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>

=item $batchconv->contents_page_end( I<HTML_string> );

This specifies what string should be put at the end of the contents page.
The default is a string more or less like this:

<p class='contentsfooty'>Generated by
Pod::Simple::HTMLBatch v3.01 under Perl v5.008
<br >At Fri May 14 22:26:42 2004 GMT,
which is Fri May 14 14:26:42 2004 local time.</p>

=item $batchconv->add_css( $url );

TODO

=item $batchconv->add_javascript( $url );

TODO

=item $batchconv->css_flurry( I<true-or-false> );

If true (the default value), we autogenerate some CSS files in the
output directory, and set our HTML files to use those.
TODO: continue

=item $batchconv->javascript_flurry( I<true-or-false> );

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

=item $batchconv->no_contents_links( I<true-or-false> );

TODO

=item $batchconv->html_render_class( I<classname> );

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's it's loaded before
Pod::Simple::HTMLBatch tries loading it.

=item $batchconv->search_class( I<classname> );

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
C<require> or C<use> that class so that's it's loaded before Pod::Simple::HTMLBatch tries loading it.

=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

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=back

=cut

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sub dump { '[ ' . _esc( @{ $_[0] } ) . ' ]' }

# JUNK:
sub _esc {
    return " unless @_;  
    my @out;  
    foreach my $in (@_) {  
        push @out, "\"." . $in . "\"" ;  
        $out[-1] =~ s/([^- \:\\:\.,"\/\=\?\+\|\[\]\{\}_a-zA-Z0-9_\^\_\-\=\-\n\n])/ sprintf( (ord($1) < 256) ? "\x%02X" : "\x{%X}\", ord($1)) /
        /eg;  
        }  
    return join ', ', @out;  
}  

-END-

=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
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 C<< $token->type() eq "start" >>

This is a shortcut for C<< $token->type() eq "text" >>

This is a shortcut for C<< $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>
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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  /opt/cola/permits/1103682233_1604395580.92/0/perl-Pod-Simple-3.28-4.el7-1.src.rpm-cosi-expand-archive-LYjA44YB/Pod-Simple-3.28.tar.gz-cosi-expand-archive-sdQbSi82/Pod-Simple-3.28/lib/Pod/Simple/PullParserToken.pm

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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" \nthingy.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 L<Pod::Simple> and inherits all its methods.

=head1 FORMAT CONTROL ATTRIBUTES

You can set these attributes on the parser object before you call C<parse_file> (or a similar method) on it:

=over

=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<module name> 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<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)

=back

If you are particularly interested in customizing this module's output even more, see the source and/or write to me.

=head1 SEE ALSO

L<Pod::Simple>, L<RTF::Writer>, L<RTF::Cookbook>, L<RTF::Document>, L<RTF::Generator>

=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/1103682233_1604395580.92/0/perl-Pod-Simple-3.28-4.el7-1.src.rpm-cosi-expand-archive-LYjA44YB/Pod-Simple-3.28.tar.gz-cosi-expand-archive-sdQbSi82/Pod-Simple-3.28/lib/Pod/Simple/RTF.pm

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 $)
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 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, perlsub
Execution perlrun, perldoc
Functions perlfnc
Objects perlfref, perlmod, perlobj, perltie
Data Structures perlfref, perllo1, perlrs
Modules perlmod, perlmodlib, perlspsub
Regexeperlre, perlfnc, perlop, perllocale
Moving to perl5 perltap, perl
Linking w/C perlxstut, 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<perltoc>.

How can I use Perl interactively?

The typical approach uses the Perl debugger, described in the perldoc 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 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.

```perl
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:

```perl
use Benchmark;

@junk = `cat /etc/motd`
scpunt = 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:

    set ai sw=4
    map! ^O {^M}^O^T

Now put that in your F<.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 I<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/~demaille/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)).

=item The Object System

(http://www.castlelink.co.uk/object_system/) is a Perl web applications development IDE.

=item PerlBuilder

(http://www.solutionsoft.com/perl.htm) is an integrated development environment for Windows that supports Perl development.

=item Perl code magic

(http://www.petes-place.com/codemagic.html).

=item 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

=over 4

=item GNU Emacs

http://www.gnu.org/software/emacs/windows/ntemacs.html

=item MicroEMACS

http://members.nbci.com/uemacs/

=item XEmacs

http://www.xemacs.org/Download/index.html

=back

or a vi clone such as

=over 4

=item Elvis


=item Vile

http://vile.cx/

=item Vim

http://www.vim.org/


=back
For vi lovers in general, Windows or elsewhere:

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:

=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
ftp://ftp.astron.com/pub/tcsh/, see also
http://www.primate.wisc.edu/software/csh-tcsh-book/

=item 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).

=item BBEdit and BBEdit Lite
are text editors for Mac OS that have a Perl sensitivity mode
(http://web.barebones.com/).

=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/).

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 to the Athena Widget set. Both are available from CPAN. See the directory http://www.perl.com/CPAN/modules/by-category/08_User_Interfaces/.


=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 it. See the F<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 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 built-in 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: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-execute 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()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.

=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'',
Open Source Used In Cisco VSM 7.14.2  19931

(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 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.

=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 PATH$EXT=%PATH$EXT%;.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//*/.*?\*/s' 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 *NOT* do on Unix or Plan9 systems. You might also have to change a single % to a %%.

For example:

```perl
# Unix
perl -e 'print "Hello world\n"'
```

```perl
# DOS, etc.
perl -e "print \"Hello world\n\""
```

```perl
# Mac
print "Hello world\n"
(then Run "Myscript" or Shift-Command-R)
```

```perl
# 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
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/ .

=head2 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.

=head2 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>.

=head2 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;

=head2 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>.

=head1 AUTHOR AND COPYRIGHT

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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/1103682233_1604395580.92/0/perl-Pod-Simple-3.28-4.el7-1.src.rpm-cosi-expand-archive-LYjA44YB/Pod-Simple-3.28.tar.gz-cosi-expand-archive-sdQbSi82/Pod-Simple-3.28/t/perlfaq.pod
No license file was found, but licenses were detected in source scan.
NAME

Pod::Simple::Methody -- turn Pod::Simple events into method calls

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.

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.

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.
=head1 SEE ALSO
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
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L<https://github.com/theory/pod-simple/>. Feel free to fork and contribute, or
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Patches against Pod::Simple are welcome. Please send bug reports to
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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.

Open Source Used In Cisco VSM 7.14.2 19938


Pod::Simple is maintained by:

=item * Allison Randal C<allison@perl.org>
=item * Hans Dieter Pearcey C<hdp@cpan.org>
=item * David E. Wheeler C<dwheeler@cpan.org>

Found in path(s):
* /opt/cola/permits/1103682233_1604395580.92/0/perl-Pod-Simple-3.28-4.el7-1.src.rpm-cosi-expand-archive-LYjA44YB/Pod-Simple-3.28.tar.gz-cosi-expand-archive-sdQbSi82/Pod-Simple-3.28/lib/Pod/Simple/Methody.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" \n      thingy.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
Questions or discussion about POD and Pod::Simple should be sent to the
pod-people@perl.org mail list. Send an empty email to
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=item * David E. Wheeler <d wheeler@cpan.org>
=back

=cut

Found in path(s):
* /opt/cola/permits/1103682233_1604395580.92/0/perl-Pod-Simple-3.28-4.el7-1.src.rpm-cosi-expand-archive-LYjA44YB/Pod-Simple-3.28.tar.gz-cosi-expand-archive-sdQbSi82/Pod-Simple-3.28/lib/Pod/Simple/TextContent.pm

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

=head1 NAME

Pod::Simple::HTML - convert Pod to HTML
SYNOPSIS

perl -MPod::Simple::HTML -e Pod::Simple::HTML::go thingy.pod

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>.

CALLING FROM THE COMMAND LINE

TODO

perl -MPod::Simple::HTML -e Pod::Simple::HTML::go Thing.pod Thing.html

CALLING FROM PERL

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': $\n";
print $out $html;

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 B<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" "http://www.w3.org/TR/html4/loose.dtd">
};

Set the content-type in the HTML head: (defaults to ISO-8859-1)

$Pod::Simple::HTML::Content_decl = qq{
  <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 ")

$Pod::Simple::HTML::Computerese = 'class="some_class_name";

=head2 htmlCss

=head2 htmlJavascript

=head2 titlePrefix

=head2 titlePostfix

=head2 htmlHeaderBeforeTitle

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->htmlHeaderBeforeTitle('<html><head><title>');

=head2 htmlHLevel

Normally =head1 will become <h1>, =head2 will become <h2> etc.
Using the htmlHLevel method will change these levels setting the h level of =head1 tags:

$p->htmlHLevel(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 htmlHeaderAfterTitle

Includes the closing tag of </title> and through the rest of the head till the opening of the body

$p->htmlHeaderAfterTitle('</title>...</head><body id="my_id">');

=head2 htmlFooter

The very end of the document:
=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;
}

1;

Meanwhile in script.pl:

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

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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=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.

=head1 AUTHOR

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---
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
name: Pod-Simple
no_index:
directory:
  - t
  - inc
requires:
  Carp: 0
  Config: 0
=head1 NAME

Pod::Simple::DumpAsText -- dump Pod-parsing events as text

=head1 SYNOPSIS

perl -MPod::Simple::DumpAsText -e \
  "exit Pod::Simple::DumpAsText->filter(shift)->any_errata_seen" \
  thingy.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

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NAME
perlfaq3 - 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 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, perlsb
- Execution: perlrunk, perldebug
- Functions: perlfunc
- Objects: perlref, perlmod, perlobjc, perltime
- Data Structures: perlref, perllocl, perldsc
- Modules: perlmod, perlmodlib, perlsb
- Regexes: perlre, perlfunc, perllocl, perllocale
- Moving to perl5 perltrap, perl
- Linking w/C: perlxs, perlxs, perlcall, perlguts, perlembed

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
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.

```perl
open (FH, "> /etc/cantwrite")
```

or die "Couldn't write to /etc/cantwrite: $!");

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 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.

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.

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 {
^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 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/~demaille/a2ps/ does lots of things related to generating nicely printed output of documents.

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.
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
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
  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 vi offer an
embedded Perl.
The following are Win32 multilanguage editor/IDESs that support Perl:
  Codewright
  http://www.starbase.com/
  MultiEdit
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/


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::usemymalloc.

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], "\n";
print "@many";
```

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.


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 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.

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.)
# 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 singlequotes 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 -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.

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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/
- 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/RT/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

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 perlxs, xsubpp, and perlguts. If you want to call Perl from C, then read perlembded, 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 perlembded, 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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otherwise), this works is covered under Perl's Artistic License. For separate distributions of all or part of this FAQ outside of that, see 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/1103682233_1604395580.92/0/perl-Pod-Simple-3.28-4.el7-1.src.rpm-cosi-expand-archive-LYjA44YB/Pod-Simple-3.28.tar.gz-cosi-expand-archive-sdQbSi82/Pod-Simple-3.28/t/perlfaqo.txt

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.

=head1 SEE ALSO

L<Pod::Simple>, L<Pod::Simple::Text>, L<Pod::Checker>

=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/1103682233_1604395580.92/0/perl-Pod-Simple-3.28-4.el7-1.src.rpm-cosi-expand-archive-LYjA44YB/Pod-Simple-3.28.tar.gz-cosi-expand-archive-sdQbSi82/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::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,
extcept 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>

=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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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 "LWPUA 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 C<$self> when you call them as
C<< $self->I<whatever(value)> >>. That's so that you can chain
together set-attribute calls like this:

my $name2path =
  Pod::Simple::Search->new
  -> inc(0) -> verbose(1) -> callback(&blab)
  -> survey(@there);

...which works exactly as if you'd done this:

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 I<@INC> paths. This
automatically considers paths specified in the C<PERL5LIB> environment
as this is prepended to I<@INC> by the Perl interpreter itself.
This attribute's default value is B<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 C<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 C<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.
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<somopathdir/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.

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.

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.)

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")

=back

=item C<path2name>

A hash that maps from each Pod filespec to its pod-name (like "/whatever/plib/Stuff/Thing.pm" => "Stuff::Thing")

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 C<survey> saves its results in its C<name2path> and C<path2name> attributes.

E.g., when searching in F<$HOME/perl5lib>, the file F<$HOME/perl5lib/MyModule.pm> would get the POD name I<MyModule>, whereas F<$HOME/perl5lib/Myclass/Subclass.pm> would be 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. F<CPAN.pm> in different directories). This usually indicates duplicate occurrences of modules in the 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 $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 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.

=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.
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 $self->contains_pod( $file )

Returns true if the supplied filename (not POD module) contains some Pod documentation.

=head1 SUPPORT

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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> 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:

=over

=item * Allison Randal <allison@perl.org>

=item * Hans Dieter Pearcey <shdp@cpan.org>

=item * David E. Wheeler <dwheeler@cpan.org>
=back
=cut

Found in path(s):
* /opt/cola/permits/1103682233_1604395580.92/0/perl-Pod-Simple-3.28-4.el7-1.src.rpm-cosi-expand-archive-LYjA44YB/Pod-Simple-3.28.tar.gz-cosi-expand-archive-sdQbSi82/Pod-Simple-3.28/lib/Pod/Simple/Search.pm
No license file was found, but licenses were detected in source scan.

=head1 NAME

Pod::Simple::PullParser -- a pull-parser interface to parsing Pod

=head1 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.

=head1 METHODS

=head2 METHODS

=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 )
Or you can call these methods, which Pod::Simple::PullParser has defined to work just like Pod::Simple's same-named methods:

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:

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:

$parser->get_title on that document will return "Hoo::Boy::Wowza -- Stuff wow yeah!". If the document starts with:

$parser->get_title on that document will return "Hoo::Boy::Wowza -- Stuff wow yeah!". If the document starts with:
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\n\n[BIG BLOCK]\n" 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 <dwheeler@cpan.org>

=back

=cut

JUNK:

sub _old_get_title {  # some witchery in here
    my $self = $_[0];
    my $title;
    my @to_unget;

    # some witchery ends here
    $title = $self->get_field("Title");
    return $title;
}
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 {;
                ($_.->type eq 'start') ? ('<" . _.->tagname .">")
                : ($_.->type eq 'end') ? ('"</'. _.->tagname ."">")
                : ($_.->type eq 'text') ? ($_.->text =~ m<^([A-Z]+)$>s ? $1 : 'X')
                : "BLORP"
            ) @to_unget
        ) =~ m{<head1>NAME</head1><Para>(X|</\[BCIFLS\]>)\+</Para>$}s
    )
    { # Whee, it fits the pattern
        DEBUG and print "Seems to match =head1 NAME pattern.\n";
        $title = "";
        foreach my $t (reverse @to_unget) {
            last if $t->type eq 'start' and $t->tagname eq 'Para';
            $title = $t->text . $title if $t->type eq 'text';
        }
        undef $title if $title =~ m<^\s*$>; # make sure it's contentful!
        last;
    }
    elsif ($pattern =~ m{<head\d>(.+)</head\d>$}
        and !( $1 eq '1' and $2 eq 'NAME' )
    )
    { # Well, it fits a fallback pattern
        DEBUG and print "Seems to match NAMEless pattern.\n";
        $title = "";
        foreach my $t (reverse @to_unget) {
            last if $t->type eq 'start' and $t->tagname =~ m/^head\d$/s;
            $title = $t->text . $title if $t->type eq 'text';
        }
        undef $title if $title =~ m<^\s*$>; # make sure it's contentful!
        last;
    }
}
} else {
    DEBUG and $pattern and print "Leading pattern: $pattern\n";
}
}

# Put it all back:
$self->unget_token(@to_unget);

if(DEBUG) {
    if(defined $title) { print "  Returning title <$title>\n" }
    else { print "Returning title <>\n" }
}

return " unless defined $title;
return $title;

Found in path(s):
* /opt/cola/permits/1103682233_1604395580.92/0/perl-Pod-Simple-3.28-4.el7-1.src.rpm-cosi-expand-archive-LYjA44YB/Pod-Simple-3.28.tar.gz-cosi-expand-archive-sdQbSi82/Pod-Simple-3.28/lib/Pod/Simple/PullParser.pm

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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>

=head1 SUPPORT

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3.28/lib/Pod/Simple/XMLOutStream.pm
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)" \
p test.pod

$VAR1 = [
   'Document',
   { 'start_line' => 1 },
   [
=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<[ I'Document', \%attributes,
I<...subnodes...> ]>
SEE ALSO

Pod::Simple

perllol

The "Tree" subsubsection in XML::Parser/XML::Parser/"Tree"

SUPPORT

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=head1 NAME

Pod::Simple::PullParserTextToken -- text-tokens from Pod::Simple::PullParser

=head1 SYNOPSIS

(See L<Pod::Simple::PullParser>)

=head1 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

=item $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 >>

=item $token->text(I<somestring>)

This changes the string that this token holds. You probably won't need to do this.

=item $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...

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> )
>>

SEE ALSO

L<Pod::Simple::PullParserToken>, L<Pod::Simple>, L<Pod::Simple::Subclassing>

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
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=back

=cut

Found in path(s):
* /opt/cola/permits/1103682233_1604395580.92/0/perl-Pod-Simple-3.28-4.el7-1.src.rpm-cosi-expand-archive-LYjA44YB/Pod-Simple-3.28.tar.gz-cosi-expand-archive-sdQbSi82/Pod-Simple-3.28/lib/Pod/Simple/PullParserTextToken.pm

1.290 jcl-over-slf4j 1.7.25

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1.291 websocket 1.1.FR
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1.292 python-six 1.9.0

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1.296 commons-beanutils 1.6

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SpatiaLiteOutputFormat WFS Output for GeoServer

Pablo Velazquez, Geotekne - http://www.geotekne.com/

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1.298 python-augeas 0.5.0

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1.299 ruby 2.0.0.648-36.el7

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random.c

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A C-program for MT19937, with initialization improved 2002/2/10.
Coded by Takuji Nishimura and Makoto Matsumoto.
This is a faster version by taking Shawn Cokus's optimization,
Matthe Bellew's simplification, Isaku Wada's real version.

Before using, initialize the state by using init_genrand(seed)
or init_by_array(init_key, key_length).

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Storable is distributed as a module, but is also part of the official
Perl core distribution, as of perl 5.8.
Maintenance is now done by the perl5-porters. We thank Raphael
Manfredi for providing us with this very useful module.

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.

Thank you to (in chronological order):

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Marc Lehmann <pcg@opengroup.org>
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 Perl Resources Project <https://sourceforge.jp/projects/perldocjp/>.

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:

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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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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' );
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.

=head1 COPYRIGHT

Copyright 2001 by Michael G Schwern E<lt>schwern@pobox.comE<gt>.

This program is free software; you can redistribute it and/or
modify it under the same terms as Perl itself.
See F<http://www.perl.com/perl/misc/Artistic.html>

=cut

Found in path(s):
* /opt/cola/permits/1103682125_1604395135.62/0/perl-Storable-2.45-3.el7-1.src.rpm-cosi-expand-archive-
ChAcp0ZI/Storable-2.45.tar.gz-cosi-expand-archive-ZtTwWy0N/Storable-2.45/t/compat/Test/Simple.pm
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 5.012003.

 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.

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\text{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\text{ppport.h} if you intend to be backward compatible only down to a certain Perl version.

```
=head2 --cplusplus
```

Usually, F\text{ppport.h} will detect C++ style comments and replace them with C style comments for portability reasons. Using this option instructs F\text{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\text{ppport.h}. This reduces the size of F\text{ppport.h} dramatically and may be useful.
if you want to include \texttt{F<ppport.h>} in smaller modules without increasing their distribution size too much.

The stripped \texttt{F<ppport.h>} will have a \texttt{C--+unstrip>} option that allows you to undo the stripping, but only if an appropriate \texttt{C<Devel::PPPort>} module is installed.

=head2 --list-provided

Lists the API elements for which compatibility is provided by \texttt{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 \texttt{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 \texttt{I<name>}. If \texttt{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 \texttt{C<PL_>} prefix is deprecated. Also, some API functions used to have a \texttt{C<perl_>} prefix. Using this form is also deprecated. You can safely use the supported API, as \texttt{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_binGLOBAL</td>
</tr>
<tr>
<td>grok_hex()</td>
<td>NEED_grok_hex</td>
<td>NEED_grok_hexGLOBAL</td>
</tr>
<tr>
<td>grok_number()</td>
<td>NEED_grok_number</td>
<td>NEED_grok_numberGLOBAL</td>
</tr>
<tr>
<td>grok_numeric_radix()</td>
<td>NEED_grok_numeric_radix</td>
<td>NEED_grok_numeric_radixGLOBAL</td>
</tr>
<tr>
<td>grok_oct()</td>
<td>NEED_grok_oct</td>
<td>NEED_grok_octGLOBAL</td>
</tr>
<tr>
<td>load_module()</td>
<td>NEED_load_module</td>
<td>NEED_load_moduleGLOBAL</td>
</tr>
<tr>
<td>my_snprintf()</td>
<td>NEED_my_snprintf</td>
<td>NEED_my_snprintfGLOBAL</td>
</tr>
<tr>
<td>my_sprintf()</td>
<td>NEED_my_sprintf</td>
<td>NEED_my_sprintfGLOBAL</td>
</tr>
<tr>
<td>my_strlcat()</td>
<td>NEED_my_strlcat</td>
<td>NEED_my_strlcatGLOBAL</td>
</tr>
<tr>
<td>my_strlcpy()</td>
<td>NEED_my_strlcpy</td>
<td>NEED_my_strlcpyGLOBAL</td>
</tr>
<tr>
<td>newCONSTSUB()</td>
<td>NEED_newCONSTSUB</td>
<td>NEED_newCONSTSUBGLOBAL</td>
</tr>
<tr>
<td>newRV_noinc()</td>
<td>NEED_newRV_noinc</td>
<td>NEED_newRV_noincGLOBAL</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 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\n]'; # horizontal whitespace 

# Never use C comments in this file! 
my $ccs = '/\*'; 
my $ccee = '\*/'; 
my $rcce = quotemeta $ccs; 
my $rccee = quotemeta $ccee; 

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 (exists $opt{'compat-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: $\_" } qw(  
AvFILL$p[5.004050]|p  
AvFILL|||  
CLASS|||n  
CPERLscope[5.005000]|p  
CX_CURPAD_SAVE|||  
CX_CURPAD_SV|||  
CopFILEAV[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[5.011000]|p  
DEFSV[5.004050]|p  
END_EXTERN_C[5.005000]|p  
ENTER|||  
ERRSV[5.004050]|p  
)
PERL_MAGIC_arylen|5.007002||p
PERL_MAGIC_backref|5.007002||p
PERL_MAGIC_bnf|5.007002||p
PERL_MAGIC_collxfrm|5.007002||p
PERL_MAGIC_dbfile|5.007002||p
PERL_MAGIC_dbline|5.007002||p
PERL_MAGIC_defelem|5.007002||p
PERL_MAGIC_envelem|5.007002||p
PERL_MAGIC_env|5.007002||p
PERL_MAGIC_ext|5.007002||p
PERL_MAGIC_fm|5.007002||p
PERL_MAGIC_glob|5.011000||p
PERL_MAGIC_isaelem|5.007002||p
PERL_MAGIC_isa|5.007002||p
PERL_MAGIC_mutex|5.011000||p
PERL_MAGIC_nkeys|5.007002||p
PERL_MAGIC_overload_elem|5.007002||p
PERL_MAGIC_overload_table|5.007002||p
PERL_MAGIC_overload|5.007002||p
PERL_MAGIC_pos|5.007002||p
PERL_MAGIC_qr|5.007002||p
PERL_MAGIC_regdata|5.007002||p
PERL_MAGIC_regdatum|5.007002||p
PERL_MAGIC_regex_global|5.007002||p
PERL_MAGIC_shared_scalar|5.007003||p
PERL_MAGIC_shared|5.007003||p
PERL_MAGIC_sigelem|5.007002||p
PERL_MAGIC_sigt|5.007002||p
PERL_MAGIC_substr|5.007002||p
PERL_MAGIC_sv|5.007002||p
PERL_MAGIC_taint|5.007002||p
PERL_MAGIC_tiedelem|5.007002||p
PERL_MAGIC_tiedscalar|5.007002||p
PERL_MAGIC_tied|5.007002||p
PERL_MAGIC_utf8|5.008001||p
PERL_MAGIC_uvar_elem|5.007003||p
PERL_MAGIC_uvar|5.007002||p
PERL_MAGIC_vec|5.007002||p
PERL_MAGIC_vstring|5.008001||p
PERL_PV_ESCAPE_ALL|5.009004||p
PERL_PV_ESCAPE_FIRSTCHAR|5.009004||p
PERL_PV_ESCAPE_NOBACKSLASH|5.009004||p
PERL_PV_ESCAPE_NOCLEAR|5.009004||p
PERL_PV_ESCAPE_QUOTE|5.009004||p
PERL_PV_ESCAPE_RE|5.009005||p
PERL_PV_ESCAPE_UNI_DETECT|5.009004||p
PERL_PV_ESCAPE_UNI|5.009004||p
PERL_PV_PRETTY_DUMP|5.009004||p
PTR2UV|5.006000|p
PTR2nat|5.009003|p
PTR2ul|5.007001|p
PTRV|5.006000|p
PUSHMARK ||
PUSH_MULTICALL|5.011000|
PUSHi ||
PUSHmortal|5.009002|p
PUSHn||
PUSHp||
PUSHs||
PUSHu|5.004000|p
PUTBACK ||
PerlIO_clearerr|5.007003|
PerlIO_close|5.007003|
PerlIO_context_layers|5.009004|
PerlIO_eof|5.007003|
PerlIO_error|5.007003|
PerlIO_fileno|5.007003|
PerlIO_fill|5.007003|
PerlIO_flush|5.007003|
PerlIO_get_base|5.007003|
PerlIO_get_buffer|5.007003|
PerlIO_get_count|5.007003|
PerlIO_get_ptr|5.007003|
PerlIO_read|5.007003|
PerlIO_seek|5.007003|
PerlIO_set_count|5.007003|
PerlIO_set_ptrcount|5.007003|
PerlIO_set_line_buffer|5.007003|
PerlIO_stdin|5.007003|
PerlIO_stdout|5.007003|
PerlIO_tell|5.007003|
PerlIO_unread|5.007003|
PerlIO_write|5.007003|
Perl_signbit|5.009005|n
PoisonFree|5.009004|p
PoisonNew|5.009004|p
PoisonWith|5.009004|p
Poison|5.008000|p
RETVAL ||n
Renewc ||
Renew ||
SAVECLEARSV ||
SAVECOMPPAD ||
SAVEPADSV ||
SAVETMPS ||
av_len
av_make
av_pop
av_push
av_refy
av_shift
av_store
av_undef
av_unshift
ax
bad_type
bind_match
block_end
block_gimme
block_start
boolSV
boot_core_PerlIO
boot_core_UNIFORM
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
check_type_and_open
check_uni
checkcomma
checkposixcc
ckWARN
cy_anoncode
ck_bitop
ck_concat
ck_defined
ck_delete
ck_die
ck_each
ck_eof
ck_eval
emulate_cop_io
eval_pv 5.006000
eval_sv 5.006000
exec.failed
expect_number
fbm_compile 5.005000
fbm_instr 5.005000
feature_is_enabled
fetch_cop_label 5.011000
filter_add
filter_del
filter_gets
filter_read
find_and_forget_pmops
find_array_subscript
find_beginning
find_byclass
find_hash_subscript
find_in_my_stash
find_runcv 5.008001
find_rundefsvoffset 5.009002
find_script
find_uninit_var
first_symbol
fold_constants
forbid_setid
force_ident
force_list
force_next
force_version
force_word
forget_pmop
form_nocontext vn
form 5.004000
fp_dup
fprintf_nocontext vn
free_global_struct
free_tied_hv_pool
free_tmps
gen_constant_list
get_arena
get_aux_mg
get_av 5.006000
get_context 5.006000
get_cvn_flags 5.009005
get_cv 5.006000
get_db_sub
get_debug_opts
magic_setvec
magic_set
magic_sizepack
magic_wipepack
make_matcher
make_trie_failtable
make_trie
malloc_good_size
malloced_size
malloc
markstack_grow
matcher_matches_sv
measure_struct
memEQ
memNE
mem_collxfrm
mem_log_common
mess_alloc
mess_nocontext
mess
method_common
mfree
mg_clear
mg_copy
mg_dup
mg_find
mg_free
mg_get
mg_length
mg_localize
mg_magical
mg_set
mg_size
mini_mktime
missingterm
mode_from_discipline
modkids
mod
more_bodies
more_sv
moreswitches
mro_get_from_name
mro_get_linear_isa_df
mro_get_linear_isa
mro_get_private_data
mro_isa_changed_in
mro_meta_dup
mro_meta_init
mro_method_changed_in||5.009005|
mro_register||5.011000|
mro_set_mro||5.011000|
mro_set_private_data||5.011000|
mul128||n
mulexp10||n
my_atof2||5.007002|
my_atof||5.006000|
my_attrs||
my_bcopy||n
my_betoh16||n
my_betoh32||n
my_betoh64||n
my_betohl||n
my_betohi||n
my_bzero||n
my_chsize||
my_clearenv||
my_ctxt_index||
my_ctxt_init||
my_dirfd||5.009005|
my_exit_jump||
my_exit||
my_failure_exit||5.004000|
my_fflush_all||5.006000|
my_fork||5.007003|
my_htobe16||n
my_htobe32||n
my_htobe64||n
my_htobei||n
my_htobel||n
my_htobes||n
my_htole16||n
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warn_nocontext][vn
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xmldump_indent
xmldump_packsubs
xmldump_sub
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) {
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]);

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push @{$depends{${function->[0]}}}, @n if @n
}
undef $function;
}
else {
$function->[1] = $_
;
}
}

$function = [$1, ""] if m{^DPPP\_(my\_(\w+))};

$mreplace = $1 if m{^\s*${srcce}\ss+Replace:\s+(\d+)\s+\$$rcce\s*\$$};
$mreplace{2} = $1 if $replace and m{^\s*${#s}\s*define\s+\$$rcce\s*\$$};
$mreplace{2} = $1 if m{^\s*${srcce}\ss+Replace \(\$$rcce\s*\$$\)}

if (m{^\s+\$$rcce\ss+(\w+)+(\s+)*\s+depends\s+on\s+\(\w+\)+(\s+)*\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{$_}++, @$_];
}

if (exists $opt{'api-info'})
{
my $f;
my $count = 0;
my $match = Sopt{'api-info'} =~ m!^/(.*)/$! ? $1 : "^Q$Sopt{'api-info'}\EX$";
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 $hints{$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'\}'.' ";
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}\{provides\};
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;
}
}
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else {
    eval {
    require File::Find;
    File::Find::find(sub {
        $File::Find::name =~ /($srcext)$/i
        and push @files, $File::Find::name;
    }, '.');
    };
    if (@files) {
        @files = map { glob "*$_
    } @srcext;
    }
}

if (!@ARGV || $opt{filter}) {
    my(@in, @out);
    my %xsc = map { /(.*)\(\xs$/ ? ("$1.c" => 1, "$1.cc" => 1) : () } @files;
    for (@files) {
        my $out = exists $xsc{$_} || /\Q$ppport\E$/i || !/($srcext)$/i;
        push @[ $out ? \@out : \@in ], $_;
    }
    if (@ARGV && @out) {
        warning("Skipping the following files (use --nofilter to avoid this):
        | ", join "| ", @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;

$s = << s
( ^$\$*$\$*include\b[^\$\$]+\b(?:?\Q$pport\E|XSUB.h)\b[^\$\$]+* )
| ( ^$\$*$\$*#\$\$*\(?:define\|elif\|if(?:\?:\?\?)\b[^\$\$]+* )
| "^[^\$\$]+(?::\$\$[^\$\$]+)?")
| "^[^\$\$]+\#\$\$+
| "^[^\$\$]+\$\$*
| / (?: Perl_)?\b($match)\b/ )
} defined $2 and push @ccom, $2;
defined $1 ? $1 : "$ccs$#ccom$cce" }mgsex;

$file{ccom} = \@ccom;
$file{code} = $c;
$file{has_inc_ppport} = $c =~ /^$\$*$\$*include\b[^\$\$]+\b\Q$pport\E/m;

my $func;

for $func (keys %API) {
    my $match = $func;
    $match .= "$revreplace{$func}" if exists $revreplace{$func};
    if ($c =~ Ab(?:Perl_)?($match)\b/) {
        $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} > $opt{compat-version}) {
                my @deps = rec_depend($func);
                if (@deps) {
                    $file{uses_deps}{$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 =~ Ab$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*\(\s*)(?!aTHX_?)(\)|[^\s)]*\))}
{ $1 . ($2 eq ')' ? 'aTHX' : 'aTHX_ ') . $2 }ge);

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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\$1\(\$2\)\(aTHX\)?\$3\} {$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);
    }
}
$file{changes} += ($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_\w+_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+)//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)
       || ($c =~ s/^(!$LS+include.*)$/include .\Q$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/^$LS*?include.*\Q$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 = $warnings != 1 ? 's' : '';  # Analysis completed$warn"
if ($file{changes}) {
    if (exists $opt{copy}) {
        my $newfile = "$filename$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 {
        mydiff(*STDOUT, $filename, $c);
    }
    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") {

```perl
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 =~ /\(\d+\)\:\(\d\)\:\(\d\)/;
```
$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

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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 $VERSION.\\n"
. "Your Devel::PPPort is only version \$Devel::PPPort::VERSION.\\n"
. "Please install a newer version, or --unstrip will not work.\\n";
}
Devel::PPPort::WriteFile(\$0);
exit 0;
}
print <<END;
Sorry, but this is a stripped version of \$0.
To be able to use its original script and doc functionality,
please try to regenerate this file using:
\$^X \$0 --unstrip
END
/ms;
my($pl, $c) = $self =~ /(.*^__DATA__)(.*)/ms;
$c =~ s{
/ (?: \*[^*]*\*+(?:[^$ccs][^*]*\*+)* / | /[^\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: $!\n";
print OUT "$pl$c\n";
exit 0;
}

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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
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.

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.

AUTHORS

Michael G Schwern <schwern@pobox.com> with much inspiration from Joshua Pritikin's Test module and lots of help from Barrie Slaymaker, Tony Bowden, chromatic and the perl-qa gang.
Found in path(s):
* /opt/cola/permits/1103682125_1604395135.62/0/perl-Storable-2.45-3.el7-1.src.rpm-cosi-expand-archive-ChAcp0ZI/Storable-2.45.tar.gz-cosi-expand-archive-ZtTwWy0N/Storable-2.45/t/compat/Test/More.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 6.68, 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

Found in path(s):
* /opt/cola/permits/1103682125_1604395135.62/0/perl-Storable-2.45-3.el7-1.src.rpm-cosi-expand-archive-ChAcp0ZI/Storable-2.45.tar.gz-cosi-expand-archive-ZtTwWy0N/Storable-2.45/META.yml
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Found in path(s):
* /opt/cola/permits/1103682125_1604395135.62/0/perl-Storable-2.45-3.el7-1.src.rpm-cosi-expand-archive-
1.301 wfs 2.3.4

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------

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J. M. G. Elliott
15-Jul-2000

--------------------- from Jef Poskanzer's GifEncoder.java ---------------------

// GifEncoder - write out an image as a GIF
//
// Transparency handling and variable bit size courtesy of Jack Palevich.
//
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$Revision: 3.7 $

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/* zlib.h -- interface of the 'zlib' general purpose compression library
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1.313 mariadb 5.5.60-1.el7_5

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== MariaDB ==

The Debian package of MySQL was first debianized 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,
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The manual had to be removed as it is not free in the sense of the Debian Free Software Guidelines (DFSG).

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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
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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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   (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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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
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However, linking a "work that uses the Library" with the Library
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Section 6 states terms for distribution of such executables.

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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
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Otherwise, if the work is a derivative of the Library, you may
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Any executables containing that work also fall under Section 6,
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6. As an exception to the Sections above, you may also combine or
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# Variable Name: license  #
# Scope: Global          #
# Access Type: Static    #
# Data Type: string      #
# Creation Date: 2008-02-07 #
# Author : Sharique Abdullah   #
# Description: Test Cases of Dynamic System Variable license   #
# that checks the behavior of this variable in the following ways #

# mysql-test\license_basic.test

Open Source Used In Cisco VSM 7.14.2 20351
# Value Check
# Scope Check
#
#
--echo '#---------------------BS_STVARS_040_01----------------------#'
# Displaying default value
# ##################################################################################
SELECT COUNT(@@GLOBAL.license);
--echo 1 Expected

--echo '#---------------------BS_STVARS_040_02----------------------#'
# Check if Value can set
# ##################################################################################
--error ER_INCORRECT_GLOBAL_LOCAL_VAR
SET @@GLOBAL.license=1;
--echo Expected error 'Read only variable'

SELECT COUNT(@@GLOBAL.license);
--echo 1 Expected

--echo '#---------------------BS_STVARS_040_03----------------------#'
# Check if the value in GLOBAL Table matches value in variable
# ##################################################################################
SELECT @@GLOBAL.license = VARIABLE_VALUE
FROM INFORMATION_SCHEMA.GLOBAL_VARIABLES
WHERE VARIABLE_NAME='license';
--echo 1 Expected

SELECT COUNT(@@GLOBAL.license);
--echo 1 Expected

SELECT COUNT(VARIABLE_VALUE)
FROM INFORMATION_SCHEMA.GLOBAL_VARIABLES
WHERE VARIABLE_NAME='license';
--echo 1 Expected
--echo '#---------------------BS_STVARS_040_04----------------------#' # Check if accessing variable with and without GLOBAL point to same variable # SELECT @@license = @@GLOBAL.license;
--echo 1 Expected

--echo '#---------------------BS_STVARS_040_05----------------------#' # Check if license can be accessed with and without @@ sign # SELECT COUNT(@@license);
--echo 1 Expected

--Error ER_INCORRECT_GLOBAL_LOCAL_VAR
SELECT COUNT(@@local.license);
--echo Expected error 'Variable is a GLOBAL variable'

--Error ER_INCORRECT_GLOBAL_LOCAL_VAR
SELECT COUNT(@@SESSION.license);
--echo Expected error 'Variable is a GLOBAL variable'

SELECT COUNT(@@GLOBAL.license);
--echo 1 Expected

--Error ER_BAD_FIELD_ERROR
SELECT license = @@SESSION.license;
--echo Expected error 'Readonly variable'

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'#---------------------BS_STVARS_040_01----------------------#'
SELECT COUNT(@@GLOBAL.license);
COUNT(@@GLOBAL.license)
1
1 Expected

'#---------------------BS_STVARS_040_02----------------------#'
SET @@GLOBAL.license=1;
ERROR HY000: Variable 'license' is a read only variable
Expected error 'Read only variable'
SELECT COUNT(@@GLOBAL.license);
COUNT(@@GLOBAL.license)
1
1 Expected

'#---------------------BS_STVARS_040_03----------------------#'
SELECT @@GLOBAL.license = VARIABLE_VALUE
FROM INFORMATION_SCHEMA.GLOBAL_VARIABLES
WHERE VARIABLE_NAME='license';
@@GLOBAL.license = VARIABLE_VALUE
1
1 Expected
SELECT COUNT(@@GLOBAL.license);
COUNT(@@GLOBAL.license)
1
1 Expected

SELECT COUNT(VARIABLE_VALUE)
FROM INFORMATION_SCHEMA.GLOBAL_VARIABLES
WHERE VARIABLE_NAME='license';
COUNT(VARIABLE_VALUE)
1
1 Expected

'#---------------------BS_STVARS_040_04----------------------#'
SELECT @@license = @@GLOBAL.license;
@@license = @@GLOBAL.license
1
1 Expected

'#---------------------BS_STVARS_040_05----------------------#'
SELECT COUNT(@@license);
COUNT(@@license)
1
1 Expected
SELECT COUNT(@@local.license);
ERROR HY000: Variable 'license' is a GLOBAL variable
Expected error 'Variable is a GLOBAL variable'
SELECT COUNT(@@SESSION.license);
ERROR HY000: Variable 'license' is a GLOBAL variable
Expected error 'Variable is a GLOBAL variable'
SELECT COUNT(@@GLOBAL.license);
COUNT(@@GLOBAL.license)
SELECT license = @@SESSION.license;
ERROR 42S22: Unknown column 'license' in 'field list'
Expected error 'Readonly variable'

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Version 3, 29 June 2007

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1.314 hostname 3.13

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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
Beverly, Jamie
Boardman, Spider
Bostley, P.J.
Bowes, Keith
Boyce, Keith Garry
Brantley, Michael
Braun, Rob
Bezina, Pavel
Brooks, Piet
Brown, Jerry
Burr, Michael E
Burton, Ross
Bussjaeger, Andreas
Calvin, Gary
Campbell, Aaron
Chazelas, Stephane
ek, Vtzslav
Coleman, Chris
Corzine, Deven T.
Cusack, Frank
Dai, Wei
Dill, David
Earickson, Jeff
Eckhardt, Drew
Edgington, Ben
Esipovich, Marc
Espie, Marc
Faigon, Ariel
Farrell, Brian
Fobes, Steve
Fryinger, Mike
G., Daniel Richard
Gailly, Jean-loup
Gelman, Stephen
Gerraty, Simon J.
Graber, Stephane
Guillory, B.
Hayman, Randy M.
Henke, Joachim
Hideaki, Yoshifuji
Hieb, Dave
Holloway, Nick
Hoover, Adam
Hunter, Michael T.
Hutchings, Ben
Irrgang, Eric
Jackson, Brian
Jackson, John R.
Jackson, Richard L., Jr.
Janssen, Mark
Jepeway, Chris
Jorge, Joel Pele
Juhani, Timo
Kikuchi, Ayamura
Kadow, Kevin
Kasal, Stepan
Kienenberger, Mike
King, Dale
King, Michael
Klyachkin, Andrey
Knoble, Jim
Knox, Tim
Komarnitsky, Alek O.
Kondrashov, Nikolai
Kopeek, Daniel
Kranenburg, Paul
Krause, David
Lakin, Eric
Larsen, Case
Levin, Dmitry V.
The following people have worked to translate sudo into other languages:

Blittermann, Mario
Bogusz, Jakub
Buo-ren, Lin
Casagrande, Milo
Castro, Felipe
Cho, Seong-ho
Chernoivan, Yuri
Diguez, Francisco
Fontenelle, Rafael
Garca-Fontes, Walter
Gezer, Volkan
Hamasaki, Takeshi
Hamming, Peter
Hansen, Joe
Hantrais, Frederic
Hein, Jochen
Hufthammer, Karl Ove
Jerovek, Damir
Karvonen, Jorma
Kazik, Duan
Kelemen, Gbor
Keeici, Mehmet
Koir, Klemen
Kozlov, Yuri
Kramer, Jakob
Krznar, Tomislav
Marchal, Frederic
Margevius, Algimantas
Maryanov, Pavel
Nikoli, Miroslav
Nylander, Daniel
Psa, Petr
Putanec, Boidar
Qun, Trn Ngc
Rasmussen, Sebastian
Regueiro, Leandro
Sarer, zgr
Sendn, Abel
Sikrom, ka
Spingos, Dimitris
Taniguchi, Yasuaki
Tomat, Fbio
Uranga, Mikel Olasagasti
Vorotnikov, Artem
Wang, Wylmer

1.317 avahi 0.6.31-19.el7
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1.318 pkg-config 0.27.1

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* /opt/ws_local/PERMITS_SQL/1010092546_1591902193.15/0/guava-11-0-1-sources-jar/com/google/common/collect/Serialization.java
* /opt/ws_local/PERMITS_SQL/1010092546_1591902193.15/0/guava-11-0-1-sources-jar/com/google/common/collect/Range.java
* /opt/ws_local/PERMITS_SQL/1010092546_1591902193.15/0/guava-11-0-1-sources-jar/com/google/common/collect/EmptyImmutableMap.java
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  jar/com/google/common/collection/EmptyImmutableSortedMultiset.java
* /opt/ws_local/PERMITS_SQL/1010092546_1591902193.15/0/guava-11-0-1-sources-
  jar/com/google/common/collection/DescendingImmutableSortedMultiset.java
* /opt/ws_local/PERMITS_SQL/1010092546_1591902193.15/0/guava-11-0-1-sources-
  jar/com/google/common/collection/AbstractSortedMultiset.java
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* Rationale for copying:
* Guava targets JDK5, whose AbstractExecutorService class lacks the newTaskFor protected
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* /opt/ws_local/PERMITS_SQL/1010092546_1591902193.15/0/guava-11-0-1-sources-jar/com/google/common/cache/CacheStats.java
* /opt/ws_local/PERMITS_SQL/1010092546_1591902193.15/0/guava-11-0-1-sources-jar/com/google/common/math/DoubleMath.java
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* /opt/ws_local/PERMITS_SQL/1010092546_1591902193.15/0/guava-11-0-1-sources-jar/com/google/common/base/Enums.java
* /opt/ws_local/PERMITS_SQL/1010092546_1591902193.15/0/guava-11-0-1-sources-jar/com/google/common/net/HostAndPort.java
* /opt/ws_local/PERMITS_SQL/1010092546_1591902193.15/0/guava-11-0-1-sources-jar/com/google/common/math/MathPreconditions.java
* /opt/ws_local/PERMITS_SQL/1010092546_1591902193.15/0/guava-11-0-1-sources-jar/com/google/common/util/concurrent/ExecutionError.java
* /opt/ws_local/PERMITS_SQL/1010092546_1591902193.15/0/guava-11-0-1-sources-jar/com/google/common/math/BigIntegerMath.java
* /opt/ws_local/PERMITS_SQL/1010092546_1591902193.15/0/guava-11-0-1-sources-jar/com/google/common/base/Optional.java
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* /opt/ws_local/PERMITS_SQL/1010092546_1591902193.15/0/guava-11-0-1-sources-jar/com/google/common/util/concurrent/ForwardingCheckedFuture.java
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* /opt/ws_local/PERMITS_SQL/1010092546_1591902193.15/0/guava-11-0-1-sources-jar/com/google/common/cache/CacheLoader.java
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* /opt/ws_local/PERMITS_SQL/1010092546_1591902193.15/0/guava-11-0-1-sources-jar/com/google/common/primitives/SignedBytes.java
* /opt/ws_local/PERMITS_SQL/1010092546_1591902193.15/0/guava-11-0-1-sources-jar/com/google/common/cache/CacheBuilder.java
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* /opt/ws_local/PERMITS_SQL/1010092546_1591902193.15/0/guava-11-0-1-sources-jar/com/google/common/collection/AbstractIndexedListIterator.java
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* /opt/ws_local/PERMITS_SQL/1010092546_1591902193.15/0/guava-11-0-1-sources-jar/com/google/common/collection/ImmutableSortedMapFauxverideShim.java
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jar/com/google/common/collect/BoundType.java
* /opt/ws_local/PERMITS_SQL/1010092546_1591902193.15/0/guava-11-0-1-sources-
jar/com/google/common/collect/Queues.java
* /opt/ws_local/PERMITS_SQL/1010092546_1591902193.15/0/guava-11-0-1-sources-
jar/com/google/common/hash/HashCodes.java
* /opt/ws_local/PERMITS_SQL/1010092546_1591902193.15/0/guava-11-0-1-sources-
jar/com/google/common/hash/HashCode.java

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* /opt/ws_local/PERMITS_SQL/1010092546_1591902193.15/0/guava-11-0-1-sources-jar/com/google/common/collection/ComputingConcurrentHashMap.java
* /opt/ws_local/PERMITS_SQL/1010092546_1591902193.15/0/guava-11-0-1-sources-jar/com/google/common/collection/SortedLists.java
* /opt/ws_local/PERMITS_SQL/1010092546_1591902193.15/0/guava-11-0-1-sources-jar/com/google/common/collection/ContiguousSet.java
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* /opt/ws_local/PERMITS_SQL/1010092546_1591902193.15/0/guava-11-0-1-sources-jar/com/google/common/collection/SingletonImmutableTable.java
* /opt/ws_local/PERMITS_SQL/1010092546_1591902193.15/0/guava-11-0-1-sources-jar/com/google/common/collection/RegularImmutableTable.java
* /opt/ws_local/PERMITS_SQL/1010092546_1591902193.15/0/guava-11-0-1-sources-jar/com/google/common/collection/EmptyImmutableTable.java
* /opt/ws_local/PERMITS_SQL/1010092546_1591902193.15/0/guava-11-0-1-sources-jar/com/google/common/collection/ImmutableTable.java
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*
* As of 2010/06/11, this method is identical to the (package private) hash
* method in OpenJDK 7's java.util.HashMap class.
*/

Found in path(s):
*/opt/ws_local/PERMITS_SQL/1010092546_1591902193.15/0/guava-11-0-1-sources-
jar/com/google/common/collection/Hashing.java
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/**
* Wrapper around {@link System#arraycopy} so that it can be emulated
* correctly in GWT.
*
* <p>It is only intended for the case {@code src} and {@code dest} are
* different. It also doesn't validate the types and indices.
*
* <p>As of GWT 2.0, the built-in {@link System#arraycopy} doesn't work
* in general case. See
* http://code.google.com/p/google-web-toolkit/issues/detail?id=3621
* for more details.
*/

Found in path(s):
*/opt/ws_local/PERMITS_SQL/1010092546_1591902193.15/0/guava-11-0-1-sources-
jar/com/google/common/collection/Platform.java
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  jar/com/google/common/util/concurrent/SimpleTimeLimiter.java
* /opt/ws_local/PERMITS_SQL/1010092546_1591902193.15/0/guava-11-0-1-sources-
  jar/com/google/common/util/concurrent/FakeTimeLimiter.java
* /opt/ws_local/PERMITS_SQL/1010092546_1591902193.15/0/guava-11-0-1-sources-
  jar/com/google/common/base/CaseFormat.java
* /opt/ws_local/PERMITS_SQL/1010092546_1591902193.15/0/guava-11-0-1-sources-
  jar/com/google/common/util/concurrent/Futures.java
* /opt/ws_local/PERMITS_SQL/1010092546_1591902193.15/0/guava-11-0-1-sources-
  jar/com/google/common/util/concurrent/UncheckedTimeoutException.java
* /opt/ws_local/PERMITS_SQL/1010092546_1591902193.15/0/guava-11-0-1-sources-
  jar/com/google/common/annotations/VisibleForTesting.java
* /opt/ws_local/PERMITS_SQL/1010092546_1591902193.15/0/guava-11-0-1-sources-
  jar/com/google/common/util/concurrent/TimeLimiter.java
* /opt/ws_local/PERMITS_SQL/1010092546_1591902193.15/0/guava-11-0-1-sources-
  jar/com/google/common/io/AppendableWriter.java
* /opt/ws_local/PERMITS_SQL/1010092546_1591902193.15/0/guava-11-0-1-sources-
  jar/com/google/common/io/PatternFilenameFilter.java
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* /opt/ws_local/PERMITS_SQL/1010092546_1591902193.15/0/guava-11-0-1-sources-
  jar/com/google/common/io/NullOutputStream.java

1.323 jackson-databind 2.10.0

1.323.1 Available under license :

# Jackson JSON processor

Jackson is a high-performance, Free/Open Source JSON processing library.
It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has
been in development since 2007.
It is currently developed by a community of developers, as well as supported
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1.324 nmap 6.4
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On all platforms, Nmap is normally linked with:

- libpcap: Network packet capture library. Distributed with Nmap in the
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  ethernet frames. A modified version is distributed with Nmap in the
  libdnet-stripped subdirectory. A summary of Nmap-local modifications
  is in the file NMAP_MODIFICATIONS.
  http://code.google.com/p/libdnet/

- PCRE: Perl-compatible regular expressions. PCRE is part of Nmap's
  version detection and is also made available as an NSE library.
  Distributed with Nmap in the libpcre subdirectory.
  http://www.pcre.org/

- liblua: Lua programming language. Lua is the implementation language
  of NSE, the Nmap Scripting Engine. Nmap links with liblua to allow
  running Lua programs inside Nmap. Distributed with Nmap in the liblua
  subdirectory. liblua can be omitted by configuring with the
  --without-liblua configuration directive.
  http://www.lua.org/

- OpenSSL: Cryptographic library. OpenSSL is used by service detection
  and by NSE to connect to SSL services. NSE also provides access to
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  can be disabled by configuring with the --without-openssl
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  http://www.openssl.org/

- LIBLINEAR. Used for IPv6 OS classification.
  http://www.csie.ntu.edu.tw/~cjlin/liblinear/

- libsvn. The Subversion library, used by the updater program

On Windows only, Nmap uses:
- WinPcap: libpcap for Windows. The libpcap license applies to WinPcap, and it also has its own license. A binary copy of the library is distributed with Nmap in the subdirectory mswin32/winpcap.
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- GLib, GTK+, ATK, Pango: These libraries are licensed under the GNU LGPL 2, a copy of which is in the file licenses/lgpl-2.
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Written by: Philip Hazel
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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.

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b) Use a suitable shared library mechanism for linking with the 
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1.331 jetty-security 9.2.26.v20180806

1.332 direct3d 6.2.9200.16384

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   README for release 6b of 27-Mar-1998
   =============================================

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   and have a chance to participate in technical discussions, etc.
This software is the work of Tom Lane, Philip Gladstone, Jim Boucher, Lee Crocker, Julian Minguillon, Luis Ortiz, George Phillips, Davide Rossi, Guido Vollbeding, Ge’ Weijers, and other members of the Independent JPEG Group.

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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.
RELATED SOFTWARE Other stuff you should get.
FILE FORMAT WARS Software *not* to get.
TO DO Plans for future IJG releases.

Other documentation files in the distribution are:

User documentation:
install.doc How to configure and install the IJG software.
usage.doc Usage instructions for cjpeg, djpeg, jpegtran, rdjpgcom, and wrjpgcom.
*.1 Unix-style man pages for programs (same info as usage.doc).
wizard.doc Advanced usage instructions for JPEG wizards only.
change.log Version-to-version change highlights.

Programmer and internal documentation:
libjpeg.doc How to use the JPEG library in your own programs.
example.c Sample code for calling the JPEG library.
structure.doc Overview of the JPEG library's internal structure.
filelist.doc Road map of IJG files.
coderules.doc Coding style rules --- please read if you contribute code.

Please read at least the files install.doc and usage.doc. Useful 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 compression and decompression. JPEG (pronounced “jay-peg”) is a standardized compression method for full-color and gray-scale images. JPEG is intended for compressing "real-world" scenes; line drawings, cartoons and other non-realistic images are not its strong suit. JPEG is lossy, meaning that the output image is not exactly identical to the input image. Hence you must not use JPEG if you have to have identical output bits. However, on typical photographic images, very good compression levels can be obtained with no visible change, and remarkably high compression levels are possible if you can tolerate a low-quality image. For more details, see the references, or just experiment with various compression settings.

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. For legal reasons, we are not distributing code for the arithmetic-coding variants of JPEG; see LEGAL ISSUES. 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 "djjpeg", 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.

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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, ltconfig, ltmain.sh). Another support script, install-sh, is copyright by M.I.T. but is also freely distributable.

It appears that the arithmetic coding option of the JPEG spec is covered by patents owned by IBM, AT&T, and Mitsubishi. Hence arithmetic coding cannot legally be used without obtaining one or more licenses. For this reason, support for arithmetic coding has been removed from the free JPEG software. (Since arithmetic coding provides only a marginal gain over the unpatented Huffman mode, it is unlikely that very many implementations will support it.) So far as we are aware, there are no patent restrictions on the remaining code.

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.

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REFERENCES

We highly recommend reading one or more of these references before trying to understand the inards 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 ftp://ftp.uu.net/graphics/jpeg/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...


The JPEG standard itself is not available electronically; you must order a paper copy through ISO or ITU. (Unless you feel a need to own a certified official copy, we recommend buying the Pennebaker and Mitchell book instead; it's much cheaper and includes a great deal of useful explanatory material.) In the USA, copies of the standard may be ordered from ANSI Sales at (212) 642-4900, or from Global Engineering Documents at (800) 854-7179. (ANSI doesn't take credit card orders, but Global does.) It's not cheap: as of 1992, ANSI was charging $95 for Part 1 and $47 for Part 2, plus 7% shipping/handling. The standard is divided into two parts, Part 1 being the actual specification, while Part 2 covers compliance testing methods. Part 1 is titled "Digital Compression and Coding of Continuous-tone Still Images, Part 1: Requirements and guidelines" and has document numbers ISO/IEC IS 10918-1, ITU-T T.81. Part 2 is titled "Digital Compression and Coding of Continuous-tone Still Images, Part 2: Compliance testing" and has document numbers ISO/IEC IS 10918-2, ITU-T T.83.

Some extensions to the original JPEG standard are defined in JPEG Part 3, a newer ISO standard numbered ISO/IEC IS 10918-3 and ITU-T T.84. IJG currently does not support any Part 3 extensions.

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. A copy of the JFIF spec is available from:

Literature Department
The TIFF 6.0 file format specification can be obtained by FTP from
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 ftp.sgi.com or
from ftp://ftp.uu.net/graphics/jpeg/. 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. libtiff is available

ARCHIVE LOCATIONS
=================

The "official" archive site for this software is ftp.uu.net (Internet
address 192.48.96.9). The most recent released version can always be found
there in directory graphics/jpeg. This particular version will be archived
as ftp://ftp.uu.net/graphics/jpeg/jpegsrc.v6b.tar.gz. If you don't have
direct Internet access, UUNET's archives are also available via UUCP; contact
help@uunet.uu.net for information on retrieving files that way.

Numerous Internet sites maintain copies of the UUNET files. However, only
ftp.uu.net is guaranteed to have the latest official version.

You can also obtain this software in DOS-compatible "zip" archive format from
the SimTel archives (ftp://ftp.simtel.net/pub/simtelnet/msdos/graphics/), or
on CompuServe in the Graphics Support forum (GO CIS:GRAPHSUP), library 12
"JPEG Tools". Again, these versions may sometimes lag behind the ftp.uu.net
release.

The JPEG FAQ (Frequently Asked Questions) article is a useful source of
general information about JPEG. It is updated constantly and therefore is
not included in this distribution. The FAQ is posted every two weeks to
Usenet newsgroups comp.graphics.misc, news.answers, and other groups.
It is available on the World Wide Web at http://www.faqs.org/faqs/jpeg-faq/
and other news.answers archive sites, including the official news.answers
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

RELATED SOFTWARE
================

Numerous viewing and image manipulation programs now support JPEG. (Quite a few of them use this library to do so.) The JPEG FAQ described above lists some of the more popular free and shareware viewers, and tells where to obtain them on Internet.

If you are on a Unix machine, we highly recommend Jef Poskanzer's free PBMPLUS software, which provides many useful operations on PPM-format image files. In particular, it can convert PPM images to and from a wide range of other formats, thus making cjpeg/djpeg considerably more useful. The latest version is distributed by the NetPBM group, and is available from numerous sites, notably ftp://wuarchive.wustl.edu/graphics/graphics/packages/NetPBM/. Unfortunately PBMPLUS/NETPBM is not nearly as portable as the IJG software is; you are likely to have difficulty making it work on any non-Unix machine.

A different free JPEG implementation, written by the PVRG group at Stanford, is available from ftp://havefun.stanford.edu/pub/jpeg/. This program is designed for research and experimentation rather than production use; it is slower, harder to use, and less portable than the IJG code, but it is easier to read and modify. Also, the PVRG code supports lossless JPEG, which we do not. (On the other hand, it doesn't do progressive JPEG.)

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

Some JPEG programs produce files that are not compatible with our library. The root of the problem is that the ISO JPEG committee failed to specify a concrete file format. Some vendors "filled in the blanks" on their own, creating proprietary formats that no one else could read. (For example, none of the early commercial JPEG implementations for the Macintosh were able to exchange compressed files.)

The file format we have adopted is called JFIF (see REFERENCES). This format has been agreed to by a number of major commercial JPEG vendors, and it has become the de facto standard. JFIF is a minimal or "low end" representation. We recommend the use of TIFF/JPEG (TIFF revision 6.0 as modified by TIFF Technical Note #2) for "high end" applications that need to record a lot of additional data about an image. TIFF/JPEG is fairly new and not yet widely supported, unfortunately.
The upcoming JPEG Part 3 standard defines a file format called SPIFF. SPIFF is interoperable with JFIF, in the sense that most JFIF decoders should be able to read the most common variant of SPIFF. SPIFF has some technical advantages over JFIF, but its major claim to fame is simply that it is an official standard rather than an informal one. At this point it is unclear whether SPIFF will supersede JFIF or whether JFIF will remain the de-facto standard. IJG intends to support SPIFF once the standard is frozen, but we have not decided whether it should become our default output format or not. (In any case, our decoder will remain capable of reading JFIF indefinitely.)

Various proprietary file formats incorporating JPEG compression also exist. We have little or no sympathy for the existence of these formats. Indeed, one of the original reasons for developing this free software was to help force convergence on common, open format standards for JPEG files. Don’t use a proprietary file format!

TO DO

The major thrust for v7 will probably be improvement of visual quality. The current method for scaling the quantization tables is known not to be very good at low Q values. We also intend to investigate block boundary smoothing, "poor man's variable quantization", and other means of improving quality-vs-file-size performance without sacrificing compatibility.

In future versions, we are considering supporting some of the upcoming JPEG Part 3 extensions --- principally, variable quantization and the SPIFF file format.

As always, speeding things up is of great interest.

Please send bug reports, offers of help, etc. to jpeg-info@uunet.uu.net.

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* Project home: https://projects.eclipse.org/projects/ee4j.jaxb-impl

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## Source Code

The project maintains the following source code repositories:

* https://github.com/eclipse-ee4j/jaxb-ri
* https://github.com/eclipse-ee4j/jaxb-istack-commons
* https://github.com/eclipse-ee4j/jaxb-dtd-parser
* https://github.com/eclipse-ee4j/jaxb-fi
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* Source:
  https://mvnrepository.com/artifact/org.apache.maven/maven-compat/3.5.2

maven-core (3.5.2)

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* Project: https://maven.apache.org/ref/3.5.2/maven-core/index.html
* Source: https://mvnrepository.com/artifact/org.apache.maven/maven-core/3.5.2

maven-plugin-annotations (3.5)

* License: Apache-2.0
* Project: https://maven.apache.org/plugin-tools/maven-plugin-annotations/
* Source: https://github.com/apache/maven-plugin-tools/tree/master/maven-plugin-annotations

maven-plugin-api (3.5.2)

* License: Apache-2.0

maven-resolver-api (1.1.1)

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maven-resolver-impl (1.1.1)

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maven-resolver-spi (1.1.1)

* License: Apache-2.0

maven-resolver-transport-file (1.1.1)

* License: Apache-2.0
* Project: https://maven.apache.org/resolver/maven-resolver-transport-file/
* Source: https://github.com/apache/maven-resolver/tree/master/maven-resolver-transport-file

maven-resolver-util (1.1.1)

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maven-settings (3.5.2)

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* Source: https://mvnrepository.com/artifact/org.apache.maven/maven-settings/3.5.2

OSGi Service Platform Core Companion Code (6.0)

* License: Apache License, 2.0

plexus-archiver (3.5)

* License: Apache-2.0
* Project: https://codehaus-plexus.github.io/plexus-archiver/
* Source: https://github.com/codehaus-plexus/plexus-archiver

plexus-io (3.0.0)

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plexus-utils (3.1.0)
relaxng-datatype (1.0)

* License: New BSD license

Sax (0.2)

* License: SAX-PD
  * Source: http://sourceforge.net/project/showfiles.php?group_id=29449

testng (6.14.2)

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  * Project: https://testng.org/doc/index.html
  * Source: https://github.com/cbeust/testng

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* /opt/ws_local/PERMITS_SQL/1018977206_1591358176.15/0/cglib-2-2-sources-
  jar/net/sf/cglib/proxy/MethodInterceptor.java
* /opt/ws_local/PERMITS_SQL/1018977206_1591358176.15/0/cglib-2-2-sources-
  jar/net/sf/cglib/proxy/Factory.java

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  jar/net/sf/cglib/proxy/CallbackHelper.java
* /opt/ws_local/PERMITS_SQL/1018977206_1591358176.15/0/cglib-2-2-sources-
  jar/net/sf/cglib/core/RejectModifierPredicate.java
* /opt/ws_local/PERMITS_SQL/1018977206_1591358176.15/0/cglib-2-2-sources-
  jar/net/sf/cglib/core/MixinEverythingEmitter.java
* /opt/ws_local/PERMITS_SQL/1018977206_1591358176.15/0/cglib-2-2-sources-
  jar/net/sf/cglib/transform/AbstractClassFilterTransformer.java
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  jar/net/sf/cglib/core/ClassInfo.java
* /opt/ws_local/PERMITS_SQL/1018977206_1591358176.15/0/cglib-2-2-sources-
  jar/net/sf/cglib/transform/impl/AddInitTransformer.java
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```java
public class CGLib {
    public static void main(String[] args) {
        // Code
    }
}
```
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* /opt/ws_local/PERMITS_SQL/1018977206_1591358176.15/0/cglib-2-2-sources-jar/net/sf/cglib/util/ParallelSorter.java
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jar/net/sf/cglib/core/Transformer.java
* /opt/ws_local/PERMITS_SQL/1018977206_1591358176.15/0/cglib-2-2-sources-jar/net/sf/cglib/core/Constants.java
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* /opt/ws_local/PERMITS_SQL/1018977206_1591358176.15/0/cglib-2-2-sources-jar/net/sf/cglib/transform/ClassTransformerFactory.java
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* /opt/ws_local/PERMITS_SQL/1018977206_1591358176.15/0/cglib-2-2-sources-jar/net/sf/cglib/transform/impl/AddDelegateTransformer.java
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1.335 openwsman 2.6.3-4.git4391e5c.el7

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1.342 cpio 2.11 27.el7

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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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-- activemq-web
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--activemq-web-demo

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-- activemq-web
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=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 `use` or `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:

=over 5

=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 I<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:

```
  compressed           gunzip
  Perl program ---> source filter ---> parser
```

=head1 USING FILTERS

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.

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
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/:1l--;_I3=+%E=%:F*1'T?22Q/
M6j9*<IQCO*XFT"0]PL%"Y+IG?WN^ZYN-$J[,JIES,20?K=_%>
```

Once the first line has been processed, the flow will look like this:

```
file ---> uudecode ---> uncompress ---> parser
  filter     filter
```

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 uudecoded 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).
=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.)

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 C<Filter::Util::Call> module, which exports a number of functions into your filter's namespace. The filter shown above uses two of these functions, C<filter_add()> and C<filter_read()>.

Next, we create the filter object and associate it with the source stream by defining the C<import> function. If you know Perl well enough, you know that C<import> is called automatically every time a module is included with a use statement. This makes C<import> the ideal place to both create and install a filter object.

In the example filter, the object (C<$ref$>) 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: $!
;"

print OUT "use Rot13;
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:

```perl
## DEBUG_BEGIN
#if ($year > 1999) {
    # warn "Debug: millennium bug in year $year\n";
#}
## DEBUG_END
```

Here is the complete Debug filter:

```perl
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};
```
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:

```perl
sub filter {
    my ($self) = @_;
    my ($status);
    $status = filter_read();
    # deal with EOF/error first
    return $status if $status <= 0;
}
```
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;  
    ##DEBUG_BEGIN
    EOM

Such things aside, you can see that a lot can be achieved with a modest
amount of code.

=head1 CONCLUSION

You now have 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 $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 @__ array
yourself. Write a source filter that allows you to have a named
parameter list. Such a filter would turn this:

    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.

=head1 THINGS TO LOOK OUT FOR

=over 5

=item Some Filters Clobber the C<DATA> Handle

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.

=back

=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>

=head1 Copyrights

This article originally appeared in The Perl Journal #11, and is
Source Filters

Version 1.49

2013-04-01 rurban

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.

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):

License: GPL+ or Artistic

Found in path(s):
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/1103682515_1604395446.52/0/perl-Filter-1.49-3.el7-1.src.rpm-cosi-expand-archive-OBKuFjuq/perl-Filter.spec
No license file was found, but licenses were detected in source scan.

/*
*/

ppport.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 ppport.h' to view the documentation below.

ppport.h - Perl/Pollution/Portability version 3.16

=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 pport.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<pport.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<pport.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 `--patch` or `--copy` are given, the default is to simply print the diffs for each file. This requires either `Text::Diff` or a `diff` program to be installed.

```
=head2 -diff=T<program>
```

Manually set the diff program and options to use. The default is to use `Text::Diff`, when installed, and output unified context diffs.

```
=head2 --compat-version=T<version>
```

Tell `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 `ppport.h` if you intend to be backward compatible only down to a certain Perl version.

```
=head2 --cplusplus
```

Usually, `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 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
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:

```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>
</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.
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.

COPYRIGHT

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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 $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;
}

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( 
    AvFILL-p|5.004050||p
    AvFILL||
    CLASS||n
    CPERLscope||p
    CX_CURPAD_SAVE||
    CX_CURPAD_SV||
    CopFILEAV|5.006000||p
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    CopSTASHPV_set|5.006000||p
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    )
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sv_2iuv_common
sv_2iuv_non_preserve
sv_2iv_flags[5.009001]
sv_2iv
sv_2mortal
sv_dup||
sv_eq||
sv_exp_grow||
sv_force_normal_flags|5.007001|
sv_force_normal|5.006000|
sv_free2||
sv_free_arenas||
sv_free||
sv_gets|5.004000|
sv_grow||
sv_incmp||
sv_inc||
sv_insert_flags|5.011000|
sv_insert||
sv_isa||
sv_isobject||
sv_iv|5.005000|
sv_kill_backrefs||
sv_len_utf8|5.006000|
sv_len||
sv_magic_portable|5.011000|5.004000|p
sv_magicext|5.007003|
sv_magic||
sv_mortalcopy||
svncmp||
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[]
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]*)
    | "[^\"\\]*\?\:\:([\^\"\\]*\?)\"\""}
| '[^'\\]*(?:\\.[^'\\]*)*' }{}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_\(my_(\w+)\)};

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$replace = $1 if m{^[^\s*srccs\s+Replace:\s+(d+)\s+srcc(es)?\s*]$};
$replace{$2} = $1 if $replace and m{^[^\s*#define\s+(w+)\(?[^()]*\)?\s+(w+)\s+srcc(es)?\s+Replace\s+\+srcc(es)?\s*]$};
$replace{$1} = $2 if m{^[^\s*srcc(es)?\s+Replace \(\w+\) with \(\w+\)\s+srcc(es)?\s*]$};

if (m{^[^\s*srcc(es)?\s+(\w+(\s*,\w+)*)\s+depends\s+on\s+(\w+(\s*,\w+\*)*)\s+srcc(es)?\s*]$}) {
  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{$1} = 1 if m{^[^\s*#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 "\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 "Support 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" if exists $depends{$f};
      print "\nHints: $hints{$f}" if exists $hints{$f};
      print "\nWARNING: $warnings{$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}\";
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
    }
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 "'$_' is not a file
            }
        } else { 
            my @new = grep { -f } glob$_;
            or warn "'$_' does not exist
            push @files, grep { !$seen{$_}++ } @new;
        }
    }
} else {
    eval {
        require File::Find;
        File::Find::find(sub {
            $File::Find::name =~ /($srcext)$/i
            and push @files, $File::Find::name;
        }, '.');
    }
if ($@) {

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@files = map { glob "*$_" } @srcext;
}
}

if (!@ARGV || $opt{filter}) {
  my(@in, @out);
  my %xs = map { /(.*)\.xs$/ ? ("$1.c" => 1, "$1.cc" => 1) : () } @files;
  for (@files) {
    my @out = exists $xs{$_} || /\Q$ppport\E$/i || !/($srcext)$/i;
    push @ [ @out ?, @in ], $_;
  }
  if (@ARGV && @out) {
    warning("Skipping the following files (use --nofilter to avoid this):
|", join ":
|", @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: $!
";
    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*[^=\r\n]* )
  | ( ^\$\[\^\$s\]

  )
  | / (?::\^[^&]*+\*(?:\^[^&]*+\*)* / | /[^\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 =~ /\S+\$HS*\$HS*include[\^r\n]+\bQ\S+ppport\E\b/m;

my $func;

for $func (keys %API) {
    my $match = $func;
    $match .= "\bperl\b\bPerl_\b" if exists $revreplace{$func};
    if ($c =~ /Ab\b\bPerl_\b\bPerl\b/) {
        $file{uses_replace}{$1}++; if exists $revreplace{$func} && $1 eq $revreplace{$func};
        $file{uses_PPerl}{$func}++; if $c =~ /AbPerl_PPerl\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 =~ /\S+\$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;
    }
}
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*\(\s*)(?!aTHX_?)(\)|\[\^\s)\]*\()(.\^[\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_?)(\(|\[\^\s)\]*\()(.\^[\s])\}) {$func$1\1}ge);
        }
    }
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);
        $file{changes} += ($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}) {
        $message = "No need to define NEED_${func}_GLOBAL if $func is never used";
    } elsif (exists $file{needs}{$func}) {
        $message = "...";
    }
    if ($message) {
        diag($message);
        $file{changes} += ($c =~ s/^$HS*#$HS*define$HS+NEED_Sfunc\b.*$LF//mg);
    }
}

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/^#\$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: $!");
                }
            }
        } else {
            diag("No need to include '$ppport'");
            $file{changes} += ($c =~ s/^#\$HS*?\$HS*include.*\Q$ppport\E.*?$LF//m);
        }
    }
}
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
}
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'
    }
    $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\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

Open Source Used In Cisco VSM 7.14.2 21048


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

my($pl, $c) = $self =~ /(.*^__DATA__)(.*)/ms;
$c =~ s{\(?: \\[^\\]*[\*+][^\[\]^]*[\*+]+ [^\[\]^]*\)|/ |\/[0-9]+\n}{}gsex;
$c =~ s!\s+!\s!!mg;
$c =~ s!^\s*#!#!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/1103682515_1604395446.52/0/perl-Filter-1.49-3.el7-1.src.rpm-cosi-expand-archive-OBKuFjuq/Filter-1.49.tar.gz-cosi-expand-archive-AqWFPfe2/Filter-1.49/Call/ppport.h
No license file was found, but licenses were detected in source scan.
---
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

1.359 python-decorator 3.4.0
1.359.1 Available under license :
No license file was found, but licenses were detected in source scan.
License: BSD
Found in path(s):
* /opt/cola/permits/1103682341_1604395546.53/0/python-decorator-3.4.0-3.el7-1.src.rpm-cosi-expand-archive-ylsOD0uS/python-decorator.spec

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

Metadata-Version: 1.1
Name: decorator
Version: 3.4.0
Summary: Better living through Python with decorators
Home-page: http://pypi.python.org/pypi/decorator
Author: Michele Simionato
Author-email: michele.simionato@gmail.com
License: BSD License
Description: Decorator module

:Author: Michele Simionato
:E-mail: michele.simionato@gmail.com
:Requires: Python 2.4+
:Download page: http://pypi.python.org/pypi/decorator
:Installation: `easy_install decorator`
:License: BSD license

Installation
-------------

If you are lazy, just perform

$ easy_install decorator

which will install just the module on your system. Notice that Python 3 requires the easy_install version of the distribute_project.

If you prefer to install the full distribution from source, including the documentation, download the tarball_, unpack it and run

$ python setup.py install

in the main directory, possibly as superuser.

.. _tarball: http://pypi.python.org/pypi/decorator
.. _distribute: http://packages.python.org/distribute/

Testing
-------

For Python 2.5, 2.6, 2.7 run
$ python documentation.py

for Python 3.X run

$ python documentation3.py

You will see a few innocuous errors with Python 2.5, because some inner details such as the introduction of the ArgSpec namedtuple and Thread.__repr__ changed. You may safely ignore them.

You cannot run the tests in Python 2.4, since there is a test using the with statement, but the decorator module is expected to work anyway (it has been used in production with Python 2.4 for years). My plan is to keep supporting all Python versions >= 2.4 in the core module, but I will keep the documentation and the tests updated only for the latest Python versions in both the 2.X and 3.X branches.

Finally, notice that you may run into trouble if in your system there is an older version of the decorator module; in such a case remove the old version.

Documentation
--------------

There are various versions of the documentation:

- `HTML version (Python 2)`_
- `PDF version (Python 2)`_
- `HTML version (Python 3)`_
- `PDF version (Python 3)`_


Repository
------------

The project is hosted on GoogleCode as a Mercurial repository. You can look at the source here:

http://code.google.com/p/micheles/source/browse/#hg%2Fdecorator

Keywords: decorators generic utility
Platform: All
Classifier: Development Status :: 5 - Production/Stable
Classifier: Intended Audience :: Developers
Classifier: License :: OSI Approved :: BSD License
Classifier: Natural Language :: English
Classifier: Operating System :: OS Independent
Classifier: Programming Language :: Python
Classifier: Programming Language :: Python :: 3
Classifier: Topic :: Software Development :: Libraries
Classifier: Topic :: Utilities

try:
    from setuptools import setup
except ImportError:
    from distutils.core import setup
import os.path

def getversion(fname):
    """Get the __version__ reading the file: works both in Python 2.X and 3.X,
    whereas direct importing would break in Python 3.X with a syntax error""
    for line in open(fname):
        if line.startswith('__version__'):
            return eval(line[13:])
    raise NameError('Missing __version__ in decorator.py')

VERSION = getversion(
    os.path.join(os.path.dirname(__file__), 'src/decorator.py'))

if __name__ == '__main__':
    setup(name='decorator',
          version=VERSION,
          description='Better living through Python with decorators',
          long_description=open('README.txt').read(),
          author='Michele Simionato',
          author_email='michele.simionato@gmail.com',
          url='http://pypi.python.org/pypi/decorator',
          license='BSD License',
          package_dir = {'': 'src'},
          py_modules = ['decorator'],
          keywords="decorators generic utility",
          platforms=['All'],
classifiers=['Development Status :: 5 - Production/Stable',
    'Intended Audience :: Developers',
    'License :: OSI Approved :: BSD License',
    'Natural Language :: English',
    'Operating System :: OS Independent',
    'Programming Language :: Python',
    'Programming Language :: Python :: 3',
    'Topic :: Software Development :: Libraries',
    'Topic :: Utilities'],
    use_2to3=True,
    zip_safe=False)

Found in path(s):
* /opt/cola/permits/1103682341_1604395546.53/0/python-decorator-3.4.0-3.el7-1.src.rpm-cosi-expand-archive-ylsOD0uS/decorator-3.4.0.tar.gz-cosi-expand-archive-NNR7cnGV/decorator-3.4.0/setup.py
No license file was found, but licenses were detected in source scan.

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Found in path(s):
* /opt/cola/permits/1103682341_1604395546.53/0/python-decorator-3.4.0-3.el7-1.src.rpm-cosi-expand-archive-ylsOD0uS/decorator-3.4.0.tar.gz-cosi-expand-archive-NNR7cnGV/decorator-3.4.0/src/decorator.py
No license file was found, but licenses were detected in source scan.

Decorator module
=================

:Author: Michele Simionato
:E-mail: michele.simionato@gmail.com
:Requires: Python 2.4+
:Download page: http://pypi.python.org/pypi/decorator
:Installation: `easy_install decorator`
:License: BSD license

Installation
------------

If you are lazy, just perform

$ easy_install decorator
which will install just the module on your system. Notice that 
Python 3 requires the easy_install version of the distribute_ project.

If you prefer to install the full distribution from source, including 
the documentation, download the tarball_, unpack it and run

$ python setup.py install

in the main directory, possibly as superuser.

.. _tarball: http://pypi.python.org/pypi/decorator
.. _distribute: http://packages.python.org/distribute/

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http://code.google.com/p/micheles/source/browse/#hg%2Fdecorator

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1.360 strace 4.12-9.el7

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```

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1.361 objectweb-asm 7.1

1.362 psacct 6.6.1
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1.365 jetty-webapp 9.2.26.v20180806

1.366 json-java 20131018

1.367 tdb 1.42.9-13.el7
1.367.1 Available under license:

This is the Debian GNU/Linux prepackaged version of the EXT2 file system utilities (e2fsck, mke2fs, etc.). 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) $(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)

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
+ Copyright (C) Andrew Tridgell              1999-2005
+ Copyright (C) Jeremy Allison               2000-2006
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Theodore Ts'o
23-June-2007

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

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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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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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This is the Debian GNU/Linux prepackaged version of the ss command-line interface parsing library 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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1.368 binutils 0.13-15.el7

1.368.1 Available under license :

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(This file is under construction.)-* text -*.

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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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1.369 glib 2.56.1

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

That's all there is to it!

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The End

1.372 pcre 8.44

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

Written by: Philip Hazel
Email local part: ph10
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1.373 zlib 3.10.0-957.21.3.el7
1.373.1 Available under license :

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1.374 gir1.2-gdkpixbuf-2.0 2.36.12
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1.375 jetty-jndi 9.2.26.v20180806
1.376 xz 5.2.2 1.el7

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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.

+----------------+--------------+-----------+------------+-----------------+
| Release        | Derived from | Year      | Owner      | GPL compatible? |
|----------------|==============|-----------|------------|-----------------|
| 0.9.0 thru 1.2 | n/a          | 1991-1995 | CWI        | yes             |
| 1.3 thru 1.5.2 | 1.2          | 1995-1999 | CNRI       | yes             |
| 1.6            | 1.5.2        | 2000      | CNRI       | no              |
| 2.0            | 1.6          | 2000      | BeOpen.com | no              |
| 1.6.1          | 1.6          | 2001      | CNRI       | no              |
| 2.1            | 2.0+1.6.1    | 2001      | PSF        | no              |
| 2.0.1          | 2.0+1.6.1    | 2001      | PSF        | yes             |
| 2.1.1          | 2.1+2.0.1    | 2001      | PSF        | 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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Sockets
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-------------------------------

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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 (section A.5) but excluding the rest of Appendix A. It does not include any code or documentation that is identified in the RFC as being copyrighted.

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
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- Arguments more compliant with Python standard

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

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

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-------
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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
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In May 2000, Guido and the Python core development team moved to
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<table>
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 ** out so that the functionality is now the same as standard printf().
 **
 ***********************
 **
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# breaks in the parser logic.
#
# These tests merely verify that the parse occurs without error.
# No attempt is made to verify correct operation of the resulting schema
# and statements.
#
set testdir [file dirname $argv0]
source $testdir/tester.tcl

# Schema and query extracted from Skrooge.org.
#
do_test fuzz-oss1-skrooge {
    db eval {
        CREATE TABLE parameters (id INTEGER NOT NULL PRIMARY KEY AUTOINCREMENT,t_uuid_parent
TEXT NOT NULL DEFAULT ","t_name TEXT NOT NULL,t_value TEXT NOT NULL DEFAULT ","b_blob
BLOB,d_lastmodifdate DATE NOT NULL DEFAULT CURRENT_TIMESTAMP,i_tmp INTEGER NOT NULL
DEFAULT 0);
        CREATE TABLE doctransaction (id INTEGER NOT NULL PRIMARY KEY AUTOINCREMENT,t_name TEXT

---

Open Source Used In Cisco VSM 7.14.2 21319
CREATE TABLE budgetcategory(id INTEGER NOT NULL PRIMARY KEY, id_category INTEGER NOT NULL DEFAULT 0);

CREATE TABLE budgetrule(id INTEGER NOT NULL PRIMARY KEY AUTOINCREMENT, rc_category_id INTEGER NOT NULL DEFAULT 0, t_category_condition TEXT NOT NULL DEFAULT 'Y' CHECK (t_category_condition IN ('Y', 'N')), t_year_condition TEXT NOT NULL DEFAULT 'Y' CHECK (t_year_condition IN ('Y', 'N')), i_year INTEGER NOT NULL DEFAULT 2010, i_month INTEGER NOT NULL DEFAULT 0 CHECK (i_month>=0 AND i_month<=12), t_month_condition TEXT NOT NULL DEFAULT 'Y' CHECK (t_month_condition IN ('Y', 'N')), i_condition INTEGER NOT NULL DEFAULT 0 CHECK (i_condition IN (-1, 0, 1)), f_quantity FLOAT NOT NULL DEFAULT 0.0, t_absolute TEXT NOT NULL DEFAULT 'Y' CHECK (t_absolute IN ('Y', 'N')), rc_category_id_target INTEGER NOT NULL DEFAULT 0, t_category_target TEXT NOT NULL DEFAULT 'Y' CHECK (t_category_target IN ('Y', 'N')), t_rule TEXT NOT NULL DEFAULT 'N' CHECK (t_rule IN ('N', 'C', 'Y')));

CREATE TABLE "recurrentoperation" (id INTEGER NOT NULL PRIMARY KEY AUTOINCREMENT, d_date DATE NOT NULL DEFAULT '0000-00-00', rd_operation_id INTEGER NOT NULL, i_period_increment INTEGER NOT NULL DEFAULT 1 CHECK (i_period_increment>=0), t_period_unit TEXT NOT NULL DEFAULT 'M' CHECK (t_period_unit IN ('D', 'W', 'M', 'Y')), t_auto_write VARCHAR(1) DEFAULT 'Y' CHECK (t_auto_write IN ('Y', 'N')), i_auto_write_days INTEGER NOT NULL DEFAULT 0 CHECK (i_auto_write_days>=0), t_warn VARCHAR(1) DEFAULT 'Y' CHECK (t_warn IN ('Y', 'N')), i_warn_days INTEGER NOT NULL DEFAULT 5 CHECK (i_warn_days>=0), t_times VARCHAR(1) DEFAULT 'N' CHECK (t_times IN ('Y', 'N')), i_nb_times INTEGER NOT NULL DEFAULT 1 CHECK (i_nb_times>=0);
CREATE TABLE vm_budget_tmp(
    id INT,
    rc_category_id INT,
    t_including_subcategories TEXT,
    f_budgeted REAL,
    f_budgeted_modified REAL,
    f_transferred REAL,
    i_year INT,
    i_month INT,
    tCATEGORY,
    tPERIOD,
    fCURRENTAMOUNT,
    tRULES
);
CREATE INDEX idx_doctransaction_parent ON doctransaction (i_parent);
CREATE INDEX idx_doctransactionitem_i_object_id ON doctransactionitem (i_object_id);
CREATE INDEX idx_doctransactionitem_t_object_table ON doctransactionitem (t_object_table);
CREATE INDEX idx_doctransactionitem_t_action ON doctransactionitem (t_action);
CREATE INDEX idx_doctransactionitem_rd_doctransaction_id ON doctransactionitem (rd_doctransaction_id);
CREATE INDEX idx_doctransactionitem_optimization ON doctransactionitem (rd_doctransaction_id, i_object_id,
    t_object_table, t_action, id);
CREATE INDEX idx_unit_unit_id ON unitvalue(rd_unit_id);
CREATE INDEX idx_account_bank_id ON account(rd_bank_id);
CREATE INDEX idx_account_type ON account(t_type);
CREATE INDEX idx_category_category_id ON category(rd_category_id);
CREATE INDEX idx_category_t_fullname ON category(t_fullname);
CREATE INDEX idx_operation_account_id ON operation (rd_account_id);
CREATE INDEX idx_operation_tmp1_found_transfert ON operation (rc_unit_id, d_date);
CREATE INDEX idx_operation_grouped_operation_id ON operation (i_group_id);
CREATE INDEX idx_operation_i_number ON operation (i_number);
CREATE INDEX idx_operation_i_tmp ON operation (i_tmp);
CREATE INDEX idx_operation_rd_account_id ON operation (rd_account_id);
CREATE INDEX idx_operation_rc_unit_id ON operation (rc_unit_id);
CREATE INDEX idx_operation_t_status ON operation (t_status);
CREATE INDEX idx_operation_t_import_id ON operation (t_import_id);
CREATE INDEX idx_operation_t_template ON operation (t_template);
CREATE INDEX idx_operation_d_date ON operation (d_date);
CREATE INDEX idx_operationbalance_operation_id ON operationbalance (r_operation_id);
CREATE INDEX idx_suboperation_operation_id ON suboperation (rd_operation_id);
CREATE INDEX idx_suboperation_i_tmp ON suboperation (i_tmp);
CREATE INDEX idx_suboperation_category_id ON suboperation (r_category_id);
CREATE INDEX idx_suboperation_refund_id ON suboperation (r_refund_id);
CREATE INDEX idx_recurrentoperation_rd_operation_id ON recurrentoperation (rd_operation_id);
CREATE INDEX idx_refund_close ON refund(t_close);
CREATE INDEX idx_interest_account_id ON interest (rd_account_id);
CREATE INDEX idx_rule_action_type ON rule(t_action_type);
CREATE INDEX idx_budget_category_id ON budget(rc_category_id);
CREATE INDEX idx_budgetcategory_id ON budgetcategory(id);
CREATE INDEX idx_budgetcategory_id_category ON budgetcategory(id_category);
CREATE UNIQUE INDEX uidx_parameters_uuid_parent_name ON parameters (t_uuid_parent, t_name);
CREATE UNIQUE INDEX uidx_node_parent_id_name ON node(t_name, rd_node_id);
CREATE UNIQUE INDEX uidx_node_fullname ON node(t_fullname);
CREATE UNIQUE INDEX uidx_unit_name ON unit(t_name);
CREATE UNIQUE INDEX uidx_unit_symbol ON unit(t_symbol);
CREATE UNIQUE INDEX uidx_unitvalue ON unitvalue(d_date, rd_unit_id);
CREATE UNIQUE INDEX uidx_bank_name ON bank(t_name);
CREATE UNIQUE INDEX uidx_account_name ON account(t_name);
CREATE UNIQUE INDEX uidx_category_parent_id_name ON category(t_name, rd_category_id);
CREATE UNIQUE INDEX uidx_category_fullname ON category(t_fullname);
CREATE VIEW v_node AS SELECT * FROM node;
CREATE VIEW v_node_displayname AS SELECT *, t_fullname AS t_displayname FROM node;
CREATE VIEW v_parameters_displayname AS SELECT *, t_name AS t_displayname FROM parameters;
CREATE TRIGGER fkdc_parameters_parameters_uuid BEFORE DELETE ON parameters FOR EACH ROW BEGIN
    DELETE FROM parameters WHERE parameters.t_uuid_parent=OLD.id||'-'||'parameters';
END;
CREATE TRIGGER fkdc_node_parameters_uuid BEFORE DELETE ON node FOR EACH ROW BEGIN
    DELETE FROM parameters WHERE parameters.t_uuid_parent=OLD.id||'-'||'node';
END;
CREATE TRIGGER cpt_node_fullname1 AFTER INSERT ON node BEGIN
    UPDATE node SET
    t_fullname=CASE WHEN new.rd_node_id IS NULL OR new.rd_node_id='' OR new.rd_node_id=0 THEN
    new.t_name ELSE (SELECT c.t_fullname FROM node c WHERE c.id=new.rd_node_id)||' > '||new.t_name END
    WHERE id=new.id;
END;
CREATE TRIGGER cpt_node_fullname2 AFTER UPDATE OF t_name, rd_node_id ON node BEGIN
    UPDATE node SET
    t_fullname=CASE WHEN new.rd_node_id IS NULL OR new.rd_node_id='' OR new.rd_node_id=0 THEN
    new.t_name ELSE (SELECT c.t_fullname FROM node c WHERE c.id=new.rd_node_id)||' > '||new.t_name END
    WHERE id=new.id;
END;
CREATE TRIGGER fki_account_bank_rd_bank_id_id BEFORE INSERT ON account FOR EACH ROW BEGIN
    SELECT RAISE(ABORT, 'Impossible d''ajouter un objet (bank est utilist par account)
    Nom de la contrainte: fki_account_bank_rd_bank_id_id') WHERE NEW.rd_bank_id!=0 AND
    NEW.rd_bank_id!="" AND (SELECT id FROM bank WHERE id = NEW.rd_bank_id) IS NULL;
END;
CREATE TRIGGER fku_account_bank_rd_bank_id_id BEFORE UPDATE OF account FOR EACH ROW BEGIN
    SELECT RAISE(ABORT, 'Impossible de modifier un objet (bank est utilist par account)
    Nom de la contrainte: fku_account_bank_rd_bank_id_id') WHERE NEW.rd_bank_id!=0 AND
    NEW.rd_bank_id!="" AND (SELECT id FROM bank WHERE id = NEW.rd_bank_id) IS NULL;
END;
CREATE TRIGGER fkdc_bank_account_id_rd_bank_id_before DELETE ON bank FOR EACH ROW BEGIN
    DELETE FROM account WHERE account.rd_bank_id = OLD.id;
END;
CREATE TRIGGER fki_budget_category_rc_category_id_id BEFORE INSERT ON budget FOR EACH ROW BEGIN
    SELECT RAISE(ABORT, 'Impossible d''ajouter un objet (category est utilist par budget)
    Nom de la contrainte: fki_budget_category_rc_category_id_id') WHERE NEW.rc_category_id!=0 AND
    NEW.rc_category_id!="" AND (SELECT id FROM category WHERE id = NEW.rc_category_id) IS NULL;
END;
CREATE TRIGGER fku_budget_category_rc_category_id_id BEFORE UPDATE OF budget FOR EACH ROW BEGIN
    SELECT RAISE(ABORT, 'Impossible de modifier un objet (category est utilist par budget)
    Nom de la contrainte: fku_budget_category_rc_category_id_id') WHERE NEW.rc_category_id!=0 AND
    NEW.rc_category_id!="" AND (SELECT id FROM category WHERE id = NEW.rc_category_id) IS NULL;
END;
BEGIN SELECT RAISE(ABORT, 'Impossible de modifier un objet (category est utilisé par budget)
Nom de la contrainte: fku_budget_category_rc_category_id_id') WHERE NEW.rc_category_id!=0 AND
NEW.rc_category_id!="" AND (SELECT id FROM category WHERE id = NEW.rc_category_id) IS NULL; END;
CREATE TRIGGER fkd_budget_category_rc_category_id_id BEFORE DELETE ON category FOR EACH ROW BEGIN 
SELECT RAISE(ABORT, 'Impossible de dtruire un objet (category est utilisé par budget)
Nom de la contrainte: fkd_budget_category_rc_category_id_id') WHERE (SELECT rc_category_id FROM
budget WHERE rc_category_id = OLD.id) IS NOT NULL; END;
CREATE TRIGGER fki_budgetrule_category_rc_category_id_id BEFORE INSERT ON budgetrule FOR EACH 
ROW BEGIN 
SELECT RAISE(ABORT, 'Impossible d'ajouter un objet (category est utilisé par budgetrule)
Nom de la contrainte: fki_budgetrule_category_rc_category_id_id') WHERE NEW.rc_category_id!=0 AND
NEW.rc_category_id!='' AND (SELECT id FROM category WHERE id = NEW.rc_category_id) IS NULL; END;
CREATE TRIGGER fku_budgetrule_category_rc_category_id_id BEFORE UPDATE ON budgetrule FOR EACH
ROW BEGIN 
SELECT RAISE(ABORT, 'Impossible de modifier un objet (category est utilisé par budgetrule)
Nom de la contrainte: fku_budgetrule_category_rc_category_id_id') WHERE NEW.rc_category_id!=0 AND
NEW.rc_category_id!='' AND (SELECT id FROM category WHERE id = NEW.rc_category_id) IS NULL; END;
CREATE TRIGGER fkd_budgetrule_category_rc_category_id_id BEFORE DELETE ON category FOR EACH 
ROW BEGIN 
SELECT RAISE(ABORT, 'Impossible de dtruire un objet (category est utilisé par budgetrule)
Nom de la contrainte: fkd_budgetrule_category_rc_category_id_id') WHERE (SELECT rc_category_id FROM
budgetrule WHERE rc_category_id = OLD.id) IS NOT NULL; END;
CREATE TRIGGER fki_category_category_rd_category_id_id BEFORE INSERT ON category FOR EACH ROW
BEGIN SELECT RAISE(ABORT, 'Impossible d'ajouter un objet (category est utilisé par category)
Nom de la contrainte: fki_category_category_rd_category_id_id') WHERE NEW.rd_category_id!=0 AND
NEW.rd_category_id!="" AND (SELECT id FROM category WHERE id = NEW.rd_category_id) IS NULL; END;
CREATE TRIGGER fku_category_category_rd_category_id_id BEFORE UPDATE ON category FOR EACH ROW
BEGIN SELECT RAISE(ABORT, 'Impossible de modifier un objet (category est utilisé par category)
Nom de la contrainte: fku_category_category_rd_category_id_id') WHERE NEW.rd_category_id!=0 AND
NEW.rd_category_id!='' AND (SELECT id FROM category WHERE id = NEW.rd_category_id) IS NULL; END;
CREATE TRIGGER fkdc_category_category_id_rd_category_id BEFORE DELETE ON category FOR EACH ROW
BEGIN DELETE FROM category WHERE category.rd_category_id = OLD.id; END;
CREATE TRIGGER fki_doctransactionitem_doctransaction_rd_doctransaction_id_id BEFORE INSERT ON
doctransactionitem FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible d''ajouter un objet
(doctransaction est utilisé par doctransactionitem)
Nom de la contrainte: fki_doctransactionitem_doctransaction_rd_doctransaction_id_id')  WHERE NEW.rd_doctransaction_id!=0 AND NEW.rd_doctransaction_id='' AND (SELECT id FROM doctransaction WHERE id = NEW.rd_doctransaction_id) IS NULL; END;
CREATE TRIGGER fku_doctransactionitem_doctransaction_rd_doctransaction_id_id BEFORE UPDATE ON doctransactionitem FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible de modifier un objet (doctransaction est utilis par doctransactionitem)
Nom de la contrainte: fku_doctransactionitem_doctransaction_rd_doctransaction_id_id')  WHERE NEW.rd_doctransaction_id!=0 AND NEW.rd_doctransaction_id='' AND (SELECT id FROM doctransaction WHERE id = NEW.rd_doctransaction_id) IS NULL; END;
CREATE TRIGGER fkdc_doctransaction_doctransactionitem_id_rd_doctransaction_id BEFORE DELETE ON doctransaction FOR EACH ROW BEGIN DELETE FROM doctransactionitem WHERE doctransactionitem.rd_doctransaction_id = OLD.id; END;
CREATE TRIGGER fki_doctransactionmsg_doctransaction_rd_doctransaction_id_id BEFORE INSERT ON doctransactionmsg FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible d’ajouter un objet (doctransaction est utilis par doctransactionmsg)
Nom de la contrainte: fku_doctransactionmsg_doctransaction_rd_doctransaction_id_id')  WHERE NEW.rd_doctransaction_id!=0 AND NEW.rd_doctransaction_id='' AND (SELECT id FROM doctransaction WHERE id = NEW.rd_doctransaction_id) IS NULL; END;
CREATE TRIGGER fku_doctransactionmsg_doctransaction_rd_doctransaction_id_id BEFORE UPDATE ON doctransactionmsg FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible de modifier un objet (doctransaction est utilis par doctransactionmsg)
Nom de la contrainte: fku_doctransactionmsg_doctransaction_rd_doctransaction_id_id')  WHERE NEW.rd_doctransaction_id!=0 AND NEW.rd_doctransaction_id='' AND (SELECT id FROM doctransaction WHERE id = NEW.rd_doctransaction_id) IS NULL; END;
CREATE TRIGGER fkdc_doctransaction_doctransactionmsg_id_rd_doctransaction_id BEFORE DELETE ON doctransaction FOR EACH ROW BEGIN DELETE FROM doctransactionmsg WHERE doctransactionmsg.rd_doctransaction_id = OLD.id; END;
CREATE TRIGGER fki_interest_account_rd_account_id_id BEFORE INSERT ON interest FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible d’ajouter un objet (account est utilis par interest)
Nom de la contrainte: fki_interest_account_rd_account_id_id')  WHERE NEW.rd_account_id!=0 AND NEW.rd_account_id='' AND (SELECT id FROM account WHERE id = NEW.rd_account_id) IS NULL; END;
CREATE TRIGGER fku_interest_account_rd_account_id_id BEFORE UPDATE ON interest FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible de modifier un objet (account est utilis par interest)
Nom de la contrainte: fku_interest_account_rd_account_id_id')  WHERE NEW.rd_account_id!=0 AND NEW.rd_account_id='' AND (SELECT id FROM account WHERE id = NEW.rd_account_id) IS NULL; END;
CREATE TRIGGER fkdc_account_interest_id_rd_account_id BEFORE DELETE ON account FOR EACH ROW BEGIN DELETE FROM interest WHERE interest.rd_account_id = OLD.id; END;
CREATE TRIGGER fki_node_node_rd_node_id_id BEFORE INSERT ON node FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible d’ajouter un objet (node est utilis par node)
Nom de la contrainte: fki_node_node_rd_node_id_id')  WHERE NEW.rd_node_id!=0 AND NEW.rd_node_id='' AND (SELECT id FROM node WHERE id = NEW.rd_node_id) IS NULL; END;
CREATE TRIGGER fku_node_node_rd_node_id_id BEFORE UPDATE ON node FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible de modifier un objet (node est utilis par node)
Nom de la contrainte: fku_node_node_rd_node_id_id')  WHERE NEW.rd_node_id!=0 AND NEW.rd_node_id='' AND (SELECT id FROM node WHERE id = NEW.rd_node_id) IS NULL; END;
CREATE TRIGGER fkdc_node_node_id_rd_node_id BEFORE DELETE ON node FOR EACH ROW BEGIN DELETE FROM node WHERE node.rd_node_id = OLD.id; END;
CREATE TRIGGER fki_operation_account_rd_account_id_id BEFORE INSERT ON operation FOR EACH ROW Begin
BEGIN SELECT RAISE(ABORT, 'Impossible d’ajouter un objet (account est utilis par operation)
Nom de la contrainte: fki_operation_account_rd_account_id_id') WHERE NEW.rd_account_id!=0 AND NEW.rd_account_id!='' AND (SELECT id FROM account WHERE id = NEW.rd_account_id) IS NULL; END;
CREATE TRIGGER fku_operation_account_rd_account_id_id BEFORE UPDATE ON operation FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible de modifier un objet (account est utilis par operation)
Nom de la contrainte: fku_operation_account_rd_account_id_id') WHERE NEW.rd_account_id!=0 AND NEW.rd_account_id!='' AND (SELECT id FROM account WHERE id = NEW.rd_account_id) IS NULL; END;
CREATE TRIGGER fku_operation_payee_r_payee_id_id BEFORE UPDATE ON operation FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible de modifier un objet (payee est utilis par operation)
Nom de la contrainte: fku_operation_payee_r_payee_id_id') WHERE NEW.r_payee_id!=0 AND NEW.r_payee_id!='' AND (SELECT id FROM payee WHERE id = NEW.r_payee_id) IS NULL; END;
CREATE TRIGGER fkdc_account_operation_id_rd_account_id BEFORE DELETE ON account FOR EACH ROW BEGIN DELETE FROM operation WHERE operation.rd_account_id = OLD.id; END;
CREATE TRIGGER fki_operation_unit_rc_unit_id_id BEFORE INSERT ON operation FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible d’ajouter un objet (unit est utilis par operation)
Nom de la contrainte: fki_operation_unit_rc_unit_id_id') WHERE NEW.rc_unit_id!=0 AND NEW.rc_unit_id!='' AND (SELECT id FROM unit WHERE id = NEW.rc_unit_id) IS NULL; END;
CREATE TRIGGER fku_operation_unit_rc_unit_id_id BEFORE UPDATE ON operation FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible de modifier un objet (unit est utilis par operation)
Nom de la contrainte: fku_operation_unit_rc_unit_id_id') WHERE NEW.rc_unit_id!=0 AND NEW.rc_unit_id!='' AND (SELECT id FROM unit WHERE id = NEW.rc_unit_id) IS NULL; END;
CREATE TRIGGER fkd_operation_unit_rc_unit_id_id BEFORE DELETE ON unit FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible de dtruire un objet (unit est utilis par operation)
Nom de la contrainte: fkd_operation_unit_rc_unit_id_id') WHERE (SELECT rc_unit_id FROM operation WHERE rc_unit_id = OLD.id) IS NOT NULL; END;
CREATE TRIGGER fki_operation_recurrentoperation_r_recurrentoperation_id_id BEFORE INSERT ON operation FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible d’ajouter un objet (recurrentoperation est utilis par operation)
Nom de la contrainte: fki_operation_recurrentoperation_r_recurrentoperation_id_id') WHERE NEW.r_recurrentoperation_id!=0 AND NEW.r_recurrentoperation_id!='' AND (SELECT id FROM recurrentoperation WHERE id = NEW.r_recurrentoperation_id) IS NULL; END;
CREATE TRIGGER fku_operation_recurrentoperation_r_recurrentoperation_id_id BEFORE UPDATE ON operation FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible de modifier un objet (recurrentoperation est utilis par operation)
Nom de la contrainte: fku_operation_recurrentoperation_r_recurrentoperation_id_id') WHERE NEW.r_recurrentoperation_id!=0 AND NEW.r_recurrentoperation_id!='' AND (SELECT id FROM recurrentoperation WHERE id = NEW.r_recurrentoperation_id) IS NULL; END;
CREATE TRIGGER fkd_operation_recurrentoperation_r_recurrentoperation_id_id BEFORE DELETE ON recurrentoperation FOR EACH ROW BEGIN UPDATE operation SET r_recurrentoperation_id=0 WHERE r_recurrentoperation_id=OLD.id; END;
CREATE TRIGGER fki_operation_balance_operation_r_operation_id_id BEFORE INSERT ON operationbalance FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible d’ajouter un objet (operationbalance est utilis par operation)
Nom de la contrainte: fki_operation_balance_operation_r_operation_id_id') WHERE NEW.r_operation_id!=0 AND NEW.r_operation_id!='' AND (SELECT id FROM operation WHERE id = NEW.r_operation_id) IS NULL; END;
CREATE TRIGGER fku_operation_balance_operation_r_operation_id_id BEFORE UPDATE ON operationbalance FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible de modifier un objet (operationbalance est utilis par operation)
Nom de la contrainte: fku_operation_balance_operation_r_operation_id_id') WHERE NEW.r_operation_id!=0 AND NEW.r_operation_id!='' AND (SELECT id FROM operation WHERE id = NEW.r_operation_id) IS NULL; END;
CREATE TRIGGER fkd_operation_balance_operation_r_operation_id_id BEFORE DELETE ON operationbalance FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible de dtruire un objet (operationbalance est utilis par operation)
Nom de la contrainte: fkd_operation_balance_operation_r_operation_id_id') WHERE (SELECT r_operation_id FROM operation WHERE r_operation_id = OLD.id) IS NOT NULL; END;
Nom de la contrainte: fki_operationbalance_operation_r_operation_id_id'  WHERE NEW.r_operation_id!=0 AND NEW.r_operation_id!='' AND (SELECT id FROM operation WHERE id = NEW.r_operation_id) IS NULL; END;
CREATE TRIGGER fku_operationbalance_operation_r_operation_id_id BEFORE UPDATE ON operationbalance
FOR EACH ROW BEGIN  SELECT RAISE(ABORT, 'Impossible de modifier un objet (operation est utilis par operationbalance)
Nom de la contrainte: fku_operationbalance_operation_r_operation_id_id'  WHERE NEW.r_operation_id!=0
AND NEW.r_operation_id!='' AND (SELECT id FROM operation WHERE id = NEW.r_operation_id) IS NULL;
END;
CREATE TRIGGER fkdc_operation_recurrentoperation_id_rd_operation_id BEFORE DELETE ON operation FOR
EACH ROW BEGIN  DELETE FROM recurrentoperation WHERE recurrentoperation.rd_operation_id = OLD.id; END;
CREATE TRIGGER fki_suboperation_operation_rd_operation_id_id BEFORE INSERT ON suboperation
FOR EACH ROW BEGIN   SELECT RAISE(ABORT, 'Impossible d"ajouter un objet (operation est utilis par suboperation)
Nom de la contrainte: fki_suboperation_operation_rd_operation_id_id'  WHERE NEW.rd_operation_id!=0
AND NEW.rd_operation_id!='' AND (SELECT id FROM operation WHERE id = NEW.rd_operation_id) IS NULL;
END;
CREATE TRIGGER fku_suboperation_operation_rd_operation_id_id BEFORE UPDATE ON suboperation
FOR EACH ROW BEGIN     SELECT RAISE(ABORT, 'Impossible de modifier un objet (operation est utilis par suboperation)
Nom de la contrainte: fki_suboperation_operation_rd_operation_id_id'  WHERE NEW.rd_operation_id!=0
AND NEW.rd_operation_id!='' AND (SELECT id FROM operation WHERE id = NEW.rd_operation_id) IS NULL;
END;
CREATE TRIGGER fkdc_operation_suboperation_id_rd_operation_id BEFORE DELETE ON operation
FOR EACH ROW BEGIN     DELETE FROM suboperation WHERE suboperation.rd_operation_id = OLD.id; END;
CREATE TRIGGER fki_suboperation_category_r_category_id_id BEFORE INSERT ON suboperation
FOR EACH ROW BEGIN   SELECT RAISE(ABORT, 'Impossible d"ajouter un objet (category est utilis par suboperation)
Nom de la contrainte: fki_suboperation_category_r_category_id_id'  WHERE NEW.r_category_id!=0
AND NEW.r_category_id!='' AND (SELECT id FROM category WHERE id = NEW.r_category_id) IS NULL;
END;
CREATE TRIGGER fku_suboperation_category_r_category_id_id BEFORE UPDATE ON suboperation
FOR EACH ROW BEGIN     SELECT RAISE(ABORT, 'Impossible de modifier un objet (category est utilis par suboperation)
CREATE TRIGGER fkd_suboperation_category_r_category_id_id BEFORE DELETE ON category FOR EACH ROW
BEGIN
UPDATE suboperation SET r_category_id=0 WHERE r_category_id=OLD.id; END;
CREATE TRIGGER fki_suboperation_refund_r_refund_id_id BEFORE INSERT ON suboperation FOR EACH ROW
BEGIN   SELECT RAISE(ABORT, 'Impossible d’ajouter un objet (refund est utilisé par suboperation)
Nom de la contrainte: fki_suboperation_refund_r_refund_id_id')   WHERE NEW.r_refund_id!=0 AND
NEW.r_refund_id!='' AND (SELECT id FROM refund WHERE id = NEW.r_refund_id) IS NULL; END;
CREATE TRIGGER fku_suboperation_refund_r_refund_id_id BEFORE UPDATE ON suboperation FOR EACH ROW
BEGIN     SELECT RAISE(ABORT, 'Impossible de modifier un objet (refund est utilisé par suboperation)
Nom de la contrainte: fku_suboperation_refund_r_refund_id_id')       WHERE NEW.r_refund_id!=0 AND
NEW.r_refund_id!='' AND (SELECT id FROM refund WHERE id = NEW.r_refund_id) IS NULL; END;
CREATE TRIGGER fkd_suboperation_refund_r_refund_id_id BEFORE DELETE ON refund FOR EACH ROW
BEGIN     UPDATE suboperation SET r_refund_id=0 WHERE r_refund_id=OLD.id; END;
CREATE TRIGGER fki_unit_unit_rd_unit_id_id BEFORE INSERT ON unit FOR EACH ROW BEGIN   SELECT RAISE(ABORT, 'Impossible d’ajouter un objet (unit est utilisé par unit)
Nom de la contrainte: fki_unit_unit_rd_unit_id_id')   WHERE NEW.rd_unit_id!=0 AND NEW.rd_unit_id!=''
AND (SELECT id FROM unit WHERE id = NEW.rd_unit_id) IS NULL; END;
CREATE TRIGGER fkdc_unit_unit_id_rd_unit_id BEFORE DELETE ON unit FOR EACH ROW BEGIN
DELETE FROM unit WHERE unit.rd_unit_id = OLD.id; END;
CREATE TRIGGER fki_unitvalue_unit_rd_unit_id_id BEFORE INSERT ON unitvalue FOR EACH ROW BEGIN
SELECT RAISE(ABORT, 'Impossible de modifier un objet (unit est utilisé par unitvalue)
Nom de la contrainte: fki_unitvalue_unit_rd_unit_id_id')   WHERE NEW.rd_unit_id!=0 AND NEW.rd_unit_id!=''
AND (SELECT id FROM unit WHERE id = NEW.rd_unit_id) IS NULL; END;
CREATE TRIGGER fkdc_unit_unitvalue_id_rd_unit_id BEFORE DELETE ON unit FOR EACH ROW BEGIN
DELETE FROM unitvalue WHERE unitvalue.rd_unit_id = OLD.id; END;
CREATE VIEW v_unit_displayname AS
SELECT *, t_name||' ('||t_symbol||')' AS t_displayname FROM unit;
CREATE VIEW v_unit_tmp1 AS
SELECT *,(SELECT count(*) FROM unitvalue s WHERE s.rd_unit_id=unit.id) AS i_NBVALUES,'Monnaie principale' WHEN '2' THEN 'Monnaie secondaire' WHEN 'C' THEN 'Monnaie' WHEN 'S' THEN 'Action' WHEN 'I' THEN 'Indice' ELSE 'Objet' END) AS t_TYPENLS,
MIN(s.d_date) FROM unitvalue s WHERE s.rd_unit_id=unit.id) AS d_MINDATE, (SELECT MAX(s.d_date) FROM unitvalue s WHERE s.rd_unit_id=unit.id) AS d_MAXDATE from unit;
CREATE VIEW v_unit AS SELECT *,(SELECT s.f_quantity FROM unitvalue s WHERE s.rd_unit_id=v_unit.id AND s.d_date=v_unit.d_MAXDATE),1) END AS f_LASTVALUE FROM v_unit;
CREATE VIEW v_unit AS SELECT *,(SELECT s.f_quantity FROM unitvalue s WHERE s.rd_unit_id=v_unit.id AND s.d_date=v_unit.d_MAXDATE) AS f_LASTVALUE from v_unit;
CREATE VIEW v_unitvalue_displayname AS SELECT *, (SELECT t_displayname FROM v_unit_displayname WHERE unitvalue.rd_unit_id=v_unit_displayname.id)||' '||STRFTIME('%d/%m/%Y',d_date) AS t_displayname FROM unitvalue;
CREATE VIEW v_unit FROM unitvalue AS SELECT * FROM unitvalue;
CREATE VIEW v_suboperation AS SELECT * FROM suboperation;
CREATE VIEW v_operation_numbers AS SELECT DISTINCT i_number, rd_account_id FROM operation;
CREATE VIEW v_operation_next_numbers AS SELECT T1.i_number+1 AS i_number FROM v_operation_numbers AS T1 LEFT OUTER JOIN v_operation_numbers T2 ON T2.rd_account_id=T1.rd_account_id AND T2.i_number=T1.i_number+1 WHERE T1.i_number!=0 AND (T2.i_number IS NULL) ORDER BY T1.i_number;
CREATE VIEW v_operation AS SELECT *,(SELECT s.id FROM suboperation s WHERE s.rd_operation_id=v_operation.id AND ABS(s.f_value)=(SELECT MAX(ABS(s2.f_value)) FROM suboperation s2 WHERE s2.rd_operation_id=v_operation.id)) AS i_MOSTIMPSUBOP,((SELECT s.f_CURRENTAMOUNT FROM v_unit s WHERE s.id=v_operation.rc_unit_id)*v_operation.f_QUANTITY) AS f_CURRENTAMOUNT, (CASE WHEN v_operation.i_group_id<>0 AND EXISTS (SELECT 1 FROM account a WHERE v_operation.rd_account_id=a.id AND a.t_type<>'L') AND EXISTS (SELECT 1 FROM v_operation op2, account a WHERE op2.i_group_id=v_operation.i_group_id AND op2.rd_account_id=a.id AND op2.t_type<>'L' AND op2.rc_unit_id=v_operation.rc_unit_id AND op2.f_QUANTITY=v_operation.f_QUANTITY) THEN 'Y' ELSE 'N' END) AS t_TRANSFER FROM v_operation;
CREATE VIEW v_operation_delete AS SELECT *, (CASE WHEN t_status='Y' THEN 'Vous n’êtes pas autorisé d’effacer cette opération car il contient des opérations rapprochées' END) t_delete_message FROM operation;
CREATE VIEW v_account AS SELECT *,(SELECT MAX(s.d_date) FROM interest s WHERE s.rd_account_id=account.id) AS d_MAXDATE, (SELECT TOTAL(s.f_CURRENTAMOUNT) FROM v_operation s WHERE s.rd_account_id=account.id AND s.t_template='N') AS f_CURRENTAMOUNT FROM account;
CREATE VIEW v_account_delete AS SELECT *, (CASE WHEN EXISTS(SELECT 1 FROM operation WHERE rd_account_id=account.id AND d_date<>'0000-00-00' AND t_template='N' AND t_status='Y') THEN 'Vous n’êtes pas autorisé d’effacer ce compte car il contient des opérations rapprochées' END) t_delete_message FROM account;
CREATE VIEW v_bank AS SELECT *,(SELECT TOTAL(s.f_CURRENTAMOUNT) FROM v_account s
WHERE s.rd_bank_id=bank.id) AS f_CURRENTAMOUNT FROM bank;
CREATE VIEW v_category_displayname AS SELECT *, t_fullname AS t_displayname FROM category;
CREATE VIEW v_category AS SELECT * FROM category;
CREATE VIEW v_recurrentoperation AS SELECT *, i_period_increment || (CASE t_period_unit WHEN 'Y' THEN 'anne(s)' WHEN 'M' THEN 'mois' WHEN 'W' THEN 'semaine(s)' ELSE 'jour(s)' END) AS t_PERIODNLs FROM recurrentoperation;
CREATE VIEW v_recurrentoperation_displayname AS SELECT *, STRFTIME('%d/%m/%Y',d_date)|| SUBSTR((SELECT t_displayname FROM v_operation_displayname WHERE v_operation_displayname.id=v_recurrentoperation.rd_operation_id), 11) AS t_displayname FROM v_recurrentoperation;
CREATE VIEW v_unitvalue_display AS SELECT *, IFNULL((SELECT (CASE WHEN s.t_symbol!='' THEN s.t_symbol ELSE s.t_name END) FROM unit s WHERE s.id=(SELECT s2.rd_unit_id FROM unit s2 WHERE s2.id=unitvalue.rd_unit_id)), '') AS t_UNIT,STRFTIME('%Y-%m',unitvalue.d_date) AS d_DATEMONTH,STRFTIME('%Y',unitvalue.d_date) AS d_DATEYEAR FROM unitvalue;
CREATE VIEW v_suboperation_display AS SELECT*,IFNULL((SELECT s.t_fullname FROM category s WHERE s.id=v_suboperation.r_category_id), '') AS t_CATEGORY, IFNULL((SELECT s.t_name FROM refund s WHERE s.id=v_suboperation.r_refund_id), '') AS t_REFUND, (CASE WHEN v_suboperation.f_value>=0 THEN v_suboperation.f_value ELSE 0 END) AS f_VALUE_INCOME, (CASE WHEN v_suboperation.f_value<=0 THEN v_suboperation.f_value ELSE 0 END) AS f_VALUE_EXPENSE FROM v_suboperation;
CREATE VIEW v_suboperation_displayname AS SELECT*, t_CATEGORY||' : '||f_value AS t_displayname FROM v_suboperation_display;
CREATE VIEW v_operation_display_all AS SELECT*,(SELECT s.t_name FROM account s WHERE s.id=v_operation.rd_account_id) AS t_ACCOUNT,(SELECT (CASE WHEN s.t_symbol!='' THEN s.t_symbol ELSE s.t_name END) FROM unit s WHERE s.id=v_operation.rc_unit_id) AS t_UNIT,(SELECT s.t_CATEGORY FROM v_suboperation_display s WHERE s.id=v_operation.i_MOSTIMPSUBOP) AS t_CATEGORY,(SELECT s.t_REFUND FROM v_suboperation_display s WHERE s.id=v_operation.i_MOSTIMPSUBOP) AS t_REFUND,(CASE WHEN v_operation.f_QUANTITY<0 THEN '-' WHEN v_operation.f_QUANTITY=0 THEN '' ELSE '+' END) AS t_TYPEEXPENSE, (CASE WHEN v_operation.f_QUANTITY<=0 THEN 'Dpense' ELSE 'Revenu' END) AS t_TYPEEXPENSENLs, STRFTIME('%Y-W%W',v_operation.d_date) AS d_DATEWEEK,STRFTIME('%Y-%m',v_operation.d_date) AS d_DATEMONTH,STRFTIME('%Y',v_operation.d_date)||'-Q'||(CASE WHEN STRFTIME('%m',v_operation.d_date)<='03' THEN '1' WHEN STRFTIME('%m',v_operation.d_date)<='06' THEN '2' WHEN STRFTIME('%m',v_operation.d_date)<='09' THEN '3' ELSE '4' END) AS d_DATEQUARTER, STRFTIME('%Y',v_operation.d_date)||'-S'||(CASE WHEN STRFTIME('%m',v_operation.d_date)<='06' THEN '1' ELSE '2' END) AS d_DATESEMESTER, STRFTIME('%Y',v_operation.d_date) AS d_DATEYEAR, (SELECT count(*) FROM v_recurrentoperation s WHERE s.rd_operation_id=v_operation.id) AS i_NBRECURRENT, (CASE WHEN v_operation.f_QUANTITY>=0 THEN v_operation.f_QUANTITY ELSE 0 END) AS f_QUANTITY_INCOME, (CASE WHEN v_operation.f_QUANTITY<=0 THEN v_operation.f_QUANTITY ELSE 0 END) AS f_QUANTITY_EXPENSE, (SELECT o2.f_balance FROM operationbalance o2 WHERE o2.r_operation_id=v_operation.id ) AS f_BALANCE, (CASE WHEN v_operation.f_QUANTITY>=0 THEN v_operation.f_CURRENTAMOUNT ELSE 0 END) AS f_CURRENTAMOUNT_INCOME, (CASE WHEN v_operation.f_QUANTITY<=0 THEN v_operation.f_CURRENTAMOUNT ELSE 0 END) AS f_CURRENTAMOUNT_EXPENSE FROM v_operation;
CREATE VIEW v_operation_template_display AS SELECT * FROM v_operation_display_all WHERE t_template='Y';
CREATE VIEW v_operation_display AS SELECT * FROM v_operation_display_all WHERE d_date!='0000-00-00' AND t_template='N';
CREATE VIEW v_unit_display AS SELECT*,(SELECT TOTAL(o.f_QUANTITY) FROM v_operation_display o WHERE s.id=v_operation.rd_account_id) AS t_ACCOUNT,(SELECT (CASE WHEN s.t_symbol!='' THEN s.t_symbol ELSE s.t_name END) FROM unit s WHERE s.id=v_operation.rc_unit_id) AS t_UNIT,(SELECT s.t_CATEGORY FROM v_suboperation_display s WHERE s.id=v_operation.i_MOSTIMPSUBOP) AS t_CATEGORY,(SELECT s.t_REFUND FROM v_suboperation_display s WHERE s.id=v_operation.i_MOSTIMPSUBOP) AS t_REFUND,(CASE WHEN v_operation.f_QUANTITY<0 THEN '-' WHEN v_operation.f_QUANTITY=0 THEN '' ELSE '+' END) AS t_TYPEEXPENSE, (CASE WHEN v_operation.f_QUANTITY<=0 THEN 'Dpense' ELSE 'Revenu' END) AS t_TYPEEXPENSENLs, STRFTIME('%Y-%m',v_operation.d_date) AS d_DATEMONTH,STRFTIME('%Y-%m',v_operation.d_date)||'-'||(CASE WHEN STRFTIME('%m',v_operation.d_date)<='03' THEN '1' WHEN STRFTIME('%m',v_operation.d_date)<='06' THEN '2' WHEN STRFTIME('%m',v_operation.d_date)<='09' THEN '3' ELSE '4' END) AS d_DATEQUARTER, STRFTIME('%Y',v_operation.d_date)||'-'||(CASE WHEN STRFTIME('%m',v_operation.d_date)<='03' THEN '1' WHEN STRFTIME('%m',v_operation.d_date)<='06' THEN '2' WHEN STRFTIME('%m',v_operation.d_date)<='09' THEN '3' ELSE '4' END) AS d_DATEQUARTER, STRFTIME('%Y',v_operation.d_date)||'-'||(CASE WHEN STRFTIME('%m',v_operation.d_date)<='03' THEN '1' WHEN STRFTIME('%m',v_operation.d_date)<='06' THEN '2' WHEN STRFTIME('%m',v_operation.d_date)<='09' THEN '3' ELSE '4' END) AS d_DATEQUARTER, STRFTIME('%Y',v_operation.d_date)||'-'||(CASE WHEN STRFTIME('%m',v_operation.d_date)<='03' THEN '1' WHEN STRFTIME('%m',v_operation.d_date)<='06' THEN '2' WHEN STRFTIME('%m',v_operation.d_date)<='09' THEN '3' ELSE '4' END) AS d_DATEQUARTER, STRFTIME('%Y',v_operation.d_date)||'-'||'Q'||(CASE WHEN STRFTIME('%m',v_operation.d_date)<='03' THEN '1' WHEN STRFTIME('%m',v_operation.d_date)<='06' THEN '2' WHEN STRFTIME('%m',v_operation.d_date)<='09' THEN '3' ELSE '4' END) AS d_DATEQUARTER, STRFTIME('%Y',v_operation.d_date)||'-'||'S'||(CASE WHEN STRFTIME('%m',v_operation.d_date)<='06' THEN '1' ELSE '2' END) AS d_DATESEMESTER, STRFTIME('%Y',v_operation.d_date) AS d_DATEYEAR, (SELECT count(*) FROM v_recurrentoperation s WHERE s.rd_operation_id=v_operation.id) AS i_NBRECURRENT, (CASE WHEN v_operation.f_QUANTITY>=0 THEN v_operation.f_QUANTITY ELSE 0 END) AS f_QUANTITY_INCOME, (CASE WHEN v_operation.f_QUANTITY<=0 THEN v_operation.f_QUANTITY ELSE 0 END) AS f_QUANTITY_EXPENSE, (SELECT o2.f_balance FROM operationbalance o2 WHERE o2.r_operation_id=v_operation.id ) AS f_BALANCE, (CASE WHEN v_operation.f_QUANTITY>=0 THEN v_operation.f_CURRENTAMOUNT ELSE 0 END) AS f_CURRENTAMOUNT_INCOME, (CASE WHEN v_operation.f_QUANTITY<=0 THEN v_operation.f_CURRENTAMOUNT ELSE 0 END) AS f_CURRENTAMOUNT_EXPENSE FROM v_operation;
WHERE o.rc_unit_id=v_unit.id) AS f_QUANTITYOWNED FROM v_unit;
CREATE VIEW v_account_display AS SELECT (CASE t_type WHEN 'C' THEN 'Courant' WHEN 'D' THEN 'Carte de crédit' WHEN 'A' THEN 'Actif' WHEN 'I' THEN 'Investissement' WHEN 'W' THEN 'Portefeuille' WHEN 'L' THEN 'Prt' WHEN 'O' THEN 'Autre' END) AS t_TYPENLS,bank.t_name  AS t_BANK,bank.t_bank_number AS t_BANK_NUMBER,bank.t_icon AS t_ICON,v_account.*,(v_account.f_CURRENTAMOUNT/(SELECT u.f_CURRENTAMOUNT FROM v_unit u, operation s WHERE u.id=s.rc_unit_id AND s.rd_account_id=v_account.id AND s.d_date='0000-00-00')) AS f_QUANTITY, (SELECT (CASE WHEN u.t_symbol!='' THEN u.t_symbol ELSE u.t_name END) FROM unit u, operation s WHERE u.id=s.rc_unit_id AND s.rd_account_id=v_account.id AND s.d_date='0000-00-00') AS t_UNIT, (SELECT TOTAL(s.f_CURRENTAMOUNT) FROM v_operation s WHERE s.rd_account_id=v_account.id AND s.t_status!='N' AND s.t_template='N') AS f_CHECKED, (SELECT TOTAL(s.f_CURRENTAMOUNT) FROM v_operation s WHERE s.rd_account_id=v_account.id AND s.t_status='N' AND s.t_template='N') AS f_TODAYAMOUNT, (SELECT (SELECT s.f_RATE FROM interest s WHERE s.rd_account_id=v_account.id AND s.d_date=v_account.d_MAXDATE),0) AS f_RATE FROM v_account, bank WHERE bank.id=v_account.rd_bank_id;
CREATE VIEW v_operation_consolidated AS SELECT (SELECT s.t_TYPENLS FROM v_account_display s WHERE s.id=op.rd_account_id) AS t_ACCOUNTTYPE,(SELECT u.t_TYPENLS FROM v_unit u WHERE u.id=op.rc_unit_id) AS t_UNITTYPE,sop.id AS i_SUBOPID, sop.r_refund_id AS r_refund_id, (CASE WHEN sop.t_comment='' THEN op.t_comment ELSE sop.t_comment END) AS t_REALCOMMENT, sop.t_CATEGORY AS t_REALCATEGORY, sop.t_REFUND AS t_REALREFUND, sop.r_category_id AS i_IDCATEGORY, (CASE WHEN sop.f_value<0 THEN '-' WHEN sop.f_value=0 THEN '' ELSE '+' END) AS t_TYPEEXPENSE, (CASE WHEN sop.f_value<0 THEN 'Dpense' WHEN sop.f_value=0 THEN '' ELSE 'Revenu' END) AS t_TYPEEXPENSENLS, sop.f_value AS f_REALQUANTITY, sop.f_VALUE_INCOME AS f_REALQUANTITY_INCOME, sop.f_VALUE_EXPENSE AS f_REALQUANTITY_EXPENSE, ((SELECT u.f_CURRENTAMOUNT FROM v_unit u WHERE u.id=op.rc_unit_id)*sop.f_value) AS f_REALCURRENTAMOUNT, ((SELECT u.f_CURRENTAMOUNT FROM v_unit u WHERE u.id=op.rc_unit_id)*sop.f_VALUE_INCOME) AS f_REALCURRENTAMOUNT_INCOME, ((SELECT u.f_CURRENTAMOUNT FROM v_unit u WHERE u.id=op.rc_unit_id)*sop.f_VALUE_EXPENSE) AS f_REALCURRENTAMOUNT_EXPENSE, op.* FROM v_operation_display_all AS op, v_suboperation_display AS sop WHERE op.t_template='N' AND sop.rd_operation_id=op.ID;
CREATE VIEW v_operation_prop AS SELECT p.id AS i_PROPPID, p.t_name AS i_PROPPNAME, p.t_value AS i_PROPVALUE, op.* FROM v_operation_consolidated AS op LEFT OUTER JOIN parameters AS p ON p.t_uuid_parent=op.id||'-operation';
CREATE VIEW v_refund_delete AS SELECT *, (CASE WHEN EXISTS(SELECT 1 FROM v_operation_consolidated WHERE r_refund_id=refund.id AND t_status='Y') THEN 'Vous n''tes pas autoris  d''truire ce suiveur car utilis par des oprations rapproches' END) t_delete_message FROM refund;
CREATE VIEW v_refund AS SELECT *, (SELECT TOTAL(o.f_REALCURRENTAMOUNT) FROM v_operation_consolidated AS op WHERE op.r_refund_id=refund.id AND t_status='Y') AS f_CURRENTAMOUNT FROM refund;
CREATE VIEW v_refund_display AS SELECT *,(SELECT MIN(o.d_date) FROM v_operation_consolidated o WHERE o.r_refund_id=refund.id) AS d_FIRSTDATE, (SELECT MAX(o.d_date) FROM v_operation_consolidated o WHERE o.r_refund_id=refund.id) AS d_LASTDATE  FROM refund;
CREATE VIEW v_refund_displayname AS SELECT *, t_name AS t_displayname FROM refund;
CREATE VIEW v_payee_delete AS SELECT *, (CASE WHEN EXISTS(SELECT 1 FROM operation WHERE r_payee_id=payee.id AND t_status='Y') THEN ' Vous n''tes pas autoris  d''truire ce tiers car utilis par des oprations rapproches' END) t_delete_message FROM payee;
CREATE VIEW v_payee AS SELECT *, (SELECT TOTAL(o.f_CURRENTAMOUNT) FROM v_operation o WHERE o.r_payee_id=payee.id AND o.t_template='N') AS f_CURRENTAMOUNT FROM payee;
CREATE VIEW v_payee_display AS SELECT * FROM v_payee;
CREATE VIEW v_payee_displayname AS SELECT *, t_name AS t_displayname FROM payee;
CREATE VIEW v_category_delete AS SELECT *, (CASE WHEN EXISTS(SELECT 1 FROM v_operation_consolidated WHERE (t_REALCATEGORY=category.t_fullname OR t_REALCATEGORY like category.t_fullname||'%' AND t_status='Y') THEN 'Vous n’êtes pas autorisés à éliminer cette catégorie car utilisée par des opérations rapprochées' END) t_delete_message FROM category;
CREATE VIEW v_category_display_tmp AS SELECT *,(SELECT count(distinct(so.rd_operation_id)) FROM operation o, suboperation so WHERE so.rd_operation_id=o.id AND so.r_category_id=v_category.ID AND o.t_template='N') AS i_NBOPERATIONS, (SELECT TOTAL(o.f_REALCURRENTAMOUNT) FROM v_operation_consolidated o WHERE o.i_IDCATEGORY=v_category.ID) AS f_REALCURRENTAMOUNT FROM v_category;
CREATE VIEW v_category_display AS SELECT *,f_REALCURRENTAMOUNT+(SELECT TOTAL(c.f_REALCURRENTAMOUNT) FROM vm_category_display_tmp c WHERE c.t_fullname LIKE vm_category_display_tmp.t_fullname||' > %') AS f_SUMCURRENTAMOUNT, i_NBOPERATIONS+(SELECT CAST(TOTAL(c.i_NBOPERATIONS) AS INTEGER) FROM vm_category_display_tmp c WHERE c.t_fullname like vm_category_display_tmp.t_fullname||' > %') AS i_SUMNBOPERATIONS, (CASE WHEN t_bookmarked='Y' THEN 'Y' ELSE 'N' END) AS t_HASBOOKMARKEDCHILD, (CASE WHEN vm_category_display_tmp.f_REALCURRENTAMOUNT<0 THEN '-' WHEN vm_category_display_tmp.f_REALCURRENTAMOUNT=0 THEN '' ELSE '+' END) AS t_TYPEEXPENSE, (CASE WHEN vm_category_display_tmp.f_REALCURRENTAMOUNT<0 THEN 'Dépense' WHEN vm_category_display_tmp.f_REALCURRENTAMOUNT=0 THEN 'Revenu' END) AS t_TYPEEXPENSENLs FROM vm_category_display_tmp;
CREATE VIEW v_recurrentoperation_display AS SELECT rop.*, op.t_ACCOUNT, op.i_number, op.t_mode, op.i_group_id, op.t_TRANSFER, op.t_PAYEE, op.t_comment, op.t_CATEGORY, op.t_status, op.f_CURRENTAMOUNT FROM v_recurrentoperation rop, v_operation_display_all AS op WHERE rop.rd_operation_id=op.ID;
CREATE VIEW v_rule AS SELECT *,(SELECT COUNT(1) FROM rule r WHERE r.f_sortorder<=rule.f_sortorder) AS i_ORDER FROM rule;
CREATE VIEW v_rule_displayname AS SELECT *, t_definition AS t_displayname FROM rule;
CREATE VIEW v_interest AS SELECT *,(SELECT s.t_name FROM account s WHERE s.id=interest.rd_account_id) AS t_ACCOUNT FROM interest;
CREATE VIEW v_interest_displayname AS SELECT *, STRFTIME('%d/%m/%Y',d_date)||' '||f_rate||'%' AS t_displayname FROM interest;
CREATE VIEW v_budgetrule AS SELECT *, IFNULL((SELECT s.t_fullname FROM category s WHERE s.id=budgetrule.rc_category_id),'') AS t_CATEGORYCONDITION, IFNULL((SELECT s.t_fullname FROM category s WHERE s.id=budgetrule.rc_category_id_target),'') AS t_CATEGORY, (CASE WHEN budgetrule.i_condition=-1 THEN 'Négatif' WHEN budgetrule.i_condition=1 THEN 'Positif' WHEN budgetrule.i_condition=0 THEN 'Tous' END) AS t_WHENNLS, f_quantity||(CASE WHEN budgetrule.t_absolute='N' THEN '%' ELSE (SELECT t_symbol FROM unit WHERE t_type='1') END) AS t_WHATNLS,(CASE WHEN budgetrule.t_rule='N' THEN 'Suivant' WHEN budgetrule.t_rule='C' THEN 'Courant' WHEN budgetrule.t_rule='Y' THEN 'Anne' END) AS t_RULENLS FROM budgetrule;
CREATE VIEW v_budgetrule_display AS SELECT * FROM v_budgetrule;
CREATE VIEW v_budgetrule_displayname AS SELECT *, t_WHENNLS||' '||t_WHATNLS||' '||t_RULENLS||' '||t_CATEGORY AS t_displayname FROM v_budgetrule;
CREATE VIEW v_budget_tmp AS SELECT *, IFNULL((SELECT s.t_fullname FROM category s WHERE s.id=budgetrule.rc_category_id),'') AS t_CATEGORYCONDITION, IFNULL((SELECT s.t_fullname FROM category s WHERE s.id=budgetrule.rc_category_id_target),'') AS t_CATEGORY, (CASE WHEN budgetrule.i_condition=-1 THEN 'N' ELSE 'Y' END) AS t_REALCATEGORY, (CASE WHEN budgetrule.t_template='N' THEN 'Vous n’êtes pas autorisés à éliminer cette catégorie car utilisée par des opérations rapprochées' END) t_delete_message FROM category;
CREATE VIEW v_budget AS SELECT *, (f_CURRENTAMOUNT-f_budgeted_modified) AS f_DELTA FROM v_budget_displayname;
CREATE TRIGGER cpt_category_fullname1 AFTER INSERT ON category BEGIN UPDATE category SET t_fullname=CASE WHEN rd_category_id IS NULL OR rd_category_id='' OR rd_category_id=0 THEN new.t_name ELSE (SELECT c.t_fullname FROM category c WHERE c.id=new.rd_category_id)||' > '||new.t_name END WHERE id=new.id;END;
CREATE TRIGGER cpt_category_fullname2 AFTER UPDATE OF t_name, rd_category_id ON category BEGIN UPDATE category SET t_fullname=CASE WHEN rd_category_id IS NULL OR rd_category_id='' OR rd_category_id=0 THEN new.t_name ELSE (SELECT c.t_fullname FROM category c WHERE c.id=new.rd_category_id)||' > '||new.t_name END WHERE id=new.id;END;
CREATE TRIGGER fkdc_category_delete BEFORE DELETE ON category FOR EACH ROW BEGIN UPDATE suboperation SET r_category_id=OLD.rd_category_id WHERE r_category_id=OLD.id; END;

explain
SELECT TOTAL(f_CURRENTAMOUNT), d_DATEMONTH
from v_operation_display
WHERE d_DATEMONTH IN ('2012-05', '2012-04')
group by d_DATEMONTH, t_TYPEEXPENSE;
}
} {/* Goto .*/}

# The next test requires FTS4
ifcapable !fts3 {
    finish_test
    return
}

# Taken from the gnome-shell project
#
db close
forcedelete test.db
sqlite3 db test.db
do_test fuzz-oss1-gnomeshell {
    db eval {
CREATE TABLE Resource (ID INTEGER NOT NULL PRIMARY KEY, Uri TEXT NOT NULL, UNIQUE (Uri));
CREATE VIRTUAL TABLE fts USING fts4;
CREATE TABLE "mfo:Action" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "mfo:Enclosure" (ID INTEGER NOT NULL PRIMARY KEY, "mfo:remoteLink" INTEGER, "mfo:remoteLink:graph" INTEGER, "mfo:groupDefault" INTEGER, "mfo:groupDefault:graph" INTEGER, "mfo:localLink" INTEGER, "mfo:localLink:graph" INTEGER, "mfo:optional" INTEGER, "mfo:optional:graph" INTEGER);
CREATE TABLE "mlo:GeoPoint_mlo:timestamp" (ID INTEGER NOT NULL, "mlo:timestamp" INTEGER NOT NULL, "mlo:timestamp:graph" INTEGER);
CREATE TABLE "mlo:GeoSphere" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "mlo:GeoSphere_mlo:radius" (ID INTEGER NOT NULL, "mlo:radius" REAL NOT NULL, "mlo:radius:graph" INTEGER);
CREATE TABLE "mlo:Landmark" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "mlo:LandmarkCategory" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "mlo:LandmarkCategory_mlo:isRemovable" (ID INTEGER NOT NULL, "mlo:isRemovable" INTEGER NOT NULL, "mlo:isRemovable:graph" INTEGER);
CREATE TABLE "mlo:Landmark_mlo:belongsToCategory" (ID INTEGER NOT NULL, "mlo:belongsToCategory" INTEGER NOT NULL, "mlo:belongsToCategory:graph" INTEGER);
CREATE TABLE "mlo:Landmark_mlo:poiLocation" (ID INTEGER NOT NULL, "mlo:poiLocation" INTEGER NOT NULL, "mlo:poiLocation:graph" INTEGER);
CREATE TABLE "mlo:LocationBoundingBox" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "mlo:LocationBoundingBox_mlo:boxEastLimit" (ID INTEGER NOT NULL, "mlo:boxEastLimit" INTEGER NOT NULL, "mlo:boxEastLimit:graph" INTEGER);
CREATE TABLE "mlo:LocationBoundingBox_mlo:boxNorthLimit" (ID INTEGER NOT NULL, "mlo:boxNorthLimit" INTEGER NOT NULL, "mlo:boxNorthLimit:graph" INTEGER);
CREATE TABLE "mlo:LocationBoundingBox_mlo:boxSouthWestCorner" (ID INTEGER NOT NULL, "mlo:boxSouthWestCorner" INTEGER NOT NULL, "mlo:boxSouthWestCorner:graph" INTEGER);
CREATE TABLE "mlo:LocationBoundingBox_mlo:boxVerticalLimit" (ID INTEGER NOT NULL, "mlo:boxVerticalLimit" INTEGER NOT NULL, "mlo:boxVerticalLimit:graph" INTEGER);
CREATE TABLE "mlo:PointOfInterest" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "mlo:Route" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "mlo:Route_mlo:endTime" (ID INTEGER NOT NULL, "mlo:endTime" INTEGER NOT NULL, "mlo:endTime:graph" INTEGER, "mlo:endTime:localDate" INTEGER NOT NULL, "mlo:endTime:localTime" INTEGER NOT NULL);
CREATE TABLE "mlo:Route_mlo:routeDetails" (ID INTEGER NOT NULL, "mlo:routeDetails" TEXT NOT NULL, "mlo:routeDetails:graph" INTEGER);
CREATE TABLE "mlo:Route_mlo:startTime" (ID INTEGER NOT NULL, "mlo:startTime" INTEGER NOT NULL, "mlo:startTime:graph" INTEGER, "mlo:startTime:localDate" INTEGER NOT NULL, "mlo:startTime:localTime" INTEGER NOT NULL);
CREATE TABLE "mlo:DownloadTransfer" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "mlo:State" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "mlo:SyncTransfer" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "mlo:Transfer" (ID INTEGER NOT NULL PRIMARY KEY, "mlo:transferState" INTEGER, "mlo:transferState:graph" INTEGER,
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<thead>
<tr>
<th>Column Name</th>
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<th>Description</th>
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<tr>
<td>&quot;mto:method&quot;</td>
<td>INTEGER</td>
<td>&quot;mto:method:graph&quot; INTEGER</td>
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<tr>
<td>&quot;mto:created&quot;</td>
<td>INTEGER</td>
<td>&quot;mto:created:graph&quot; INTEGER</td>
</tr>
<tr>
<td>&quot;mto:account&quot;</td>
<td>TEXT COLLATE NOCASE</td>
<td>&quot;mto:account:graph&quot; INTEGER</td>
</tr>
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<td>&quot;mto:starter&quot;</td>
<td>INTEGER</td>
<td>&quot;mto:starter:graph&quot; INTEGER</td>
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<tr>
<td>&quot;mto:agent&quot;</td>
<td>INTEGER</td>
<td>&quot;mto:agent:graph&quot; INTEGER</td>
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<tr>
<td>&quot;mto:source&quot;</td>
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<td>&quot;mto:source:graph&quot; INTEGER</td>
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<tr>
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<td>&quot;mto:destination:graph&quot; INTEGER</td>
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<td>&quot;mto:state:graph&quot; INTEGER</td>
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<td>&quot;mto:transferList:graph&quot; INTEGER</td>
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<td>&quot;mto:scanType:graph&quot; INTEGER</td>
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<td>&quot;mto:isDefaultTag:graph&quot; INTEGER</td>
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<td>&quot;mto:tagRelatedTo:graph&quot; INTEGER</td>
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<td>&quot;mto:alarm:graph&quot; INTEGER</td>
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<td>&quot;mto:attachmentUri:graph&quot; INTEGER</td>
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<td>ID INTEGER NOT NULL PRIMARY KEY</td>
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<tr>
<td>ncal:Attendee</td>
<td>ID INTEGER NOT NULL PRIMARY KEY, delegatedTo INTEGER, delegatedTo:graph INTEGER, delegatedFrom INTEGER, delegatedFrom:graph INTEGER, cutype INTEGER, cutype:graph INTEGER, member INTEGER, member:graph INTEGER, role INTEGER, role:graph INTEGER, rsvp INTEGER, rsvp:graph INTEGER, partstat INTEGER, partstat:graph INTEGER</td>
<td></td>
</tr>
<tr>
<td>ncal:AttendeeOrOrganizer</td>
<td>ID INTEGER NOT NULL PRIMARY KEY, dir INTEGER, dir:graph INTEGER, involvedContact INTEGER, involvedContact:graph INTEGER, sentBy INTEGER, sentBy:graph INTEGER</td>
<td></td>
</tr>
<tr>
<td>ncal:AttendeeRole</td>
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<td></td>
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<td>ncal:CalendarScale</td>
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"ncal:ncalTimezone" INTEGER, "ncal:ncalTimezone:graph" INTEGER,
"ncal:date" INTEGER, "ncal:date:graph" INTEGER, "ncal:date:localDate" INTEGER, "ncal:date:localTime" INTEGER, "ncal:dateTime" INTEGER, "ncal:dateTime:graph" INTEGER, "ncal:dateTime:localDate" INTEGER,"ncal:dateTime:localTime" INTEGER);
CREATE TABLE "ncal:NcalTimeEntity" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "ncal:Organizer" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "ncal:ParticipationStatus" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "ncal:RecurrenceFrequency" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "ncal:RecurrenceIdentifier" (ID INTEGER NOT NULL PRIMARY KEY, "ncal:range" INTEGER, "ncal:range:graph" INTEGER, "ncal:recurrenceIdDateTime" INTEGER, "ncal:recurrenceIdDateTime:graph" INTEGER);
CREATE TABLE "ncal:RecurrenceIdentifierRange" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "ncal:RecurrenceRule_ncal:byday" (ID INTEGER NOT NULL, "ncal:byday" INTEGER NOT NULL, "ncal:byday:graph" INTEGER);
CREATE TABLE "ncal:RecurrenceRule_ncal:byhour" (ID INTEGER NOT NULL, "ncal:byhour" INTEGER NOT NULL, "ncal:byhour:graph" INTEGER);
CREATE TABLE "ncal:RecurrenceRule_ncal:byminute" (ID INTEGER NOT NULL, "ncal:byminute" INTEGER NOT NULL, "ncal:byminute:graph" INTEGER);
CREATE TABLE "ncal:RecurrenceRule_ncal:bymonth" (ID INTEGER NOT NULL, "ncal:bymonth" INTEGER NOT NULL, "ncal:bymonth:graph" INTEGER);
CREATE TABLE "ncal:RecurrenceRule_ncal:bymonthday" (ID INTEGER NOT NULL, "ncal:bymonthday" INTEGER NOT NULL, "ncal:bymonthday:graph" INTEGER);
CREATE TABLE "ncal:RecurrenceRule_ncal:bysecond" (ID INTEGER NOT NULL, "ncal:bysecond" INTEGER NOT NULL, "ncal:bysecond:graph" INTEGER);
CREATE TABLE "ncal:RecurrenceRule_ncal:bysetpos" (ID INTEGER NOT NULL, "ncal:bysetpos" INTEGER NOT NULL, "ncal:bysetpos:graph" INTEGER);
CREATE TABLE "ncal:RecurrenceRule_ncal:byweekno" (ID INTEGER NOT NULL, "ncal:byweekno" INTEGER NOT NULL, "ncal:byweekno:graph" INTEGER);
CREATE TABLE "ncal:RecurrenceRule_ncal:byyearday" (ID INTEGER NOT NULL, "ncal:byyearday" INTEGER NOT NULL, "ncal:byyearday:graph" INTEGER);
CREATE TABLE "ncal:RequestStatus" (ID INTEGER NOT NULL PRIMARY KEY,
"ncal:statusDescription" TEXT COLLATE NOCASE,"ncal:returnStatus" TEXT
COLLATE NOCASE, "ncal:returnStatus:graph" INTEGER, "ncal:requestStatusData" TEXT COLLATE NOCASE,
"ncal:requestStatusData:graph" INTEGER);
CREATE TABLE "ncal:TimeTransparency" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "ncal:Timezone" (ID INTEGER NOT NULL PRIMARY KEY,
"ncal:tzurl" INTEGER, "ncal:tzurl:graph" INTEGER, "ncal:standard" INTEGER, "ncal:standard:graph" INTEGER, "ncal:daylight" INTEGER, 
"ncal:daylight:graph" INTEGER, "ncal:tzid" TEXT COLLATE NOCASE, 
"ncal:tzid:graph" INTEGER);
CREATE TABLE "ncal:TimezoneObservance" (ID INTEGER NOT NULL PRIMARY KEY, 
"ncal:tzoffsetfrom" TEXT COLLATE NOCASE, "ncal:tzoffsetfrom:graph" INTEGER, 
"ncal:tzoffsetto" TEXT COLLATE NOCASE, "ncal:tzoffsetto:graph" INTEGER,
"ncal:tzname" TEXT COLLATE NOCASE, "ncal:tzname:graph" INTEGER);
CREATE TABLE "ncal:Todo" (ID INTEGER NOT NULL PRIMARY KEY,
"ncal:percentComplete" INTEGER, "ncal:percentComplete:graph" INTEGER, 
"ncal:completed" INTEGER, "ncal:completed:graph" INTEGER, 
"ncal:completed:localDate" INTEGER, "ncal:completed:localTime" INTEGER, 
"ncal:todoStatus" INTEGER, "ncal:todoStatus:graph" INTEGER, 
"ncal:due" INTEGER, "ncal:due:graph" INTEGER);
CREATE TABLE "ncal:TodoStatus" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "ncal:Trigger" (ID INTEGER NOT NULL PRIMARY KEY,
"ncal:related" INTEGER, "ncal:related:graph" INTEGER, 
"ncal:triggerDateTime" INTEGER, "ncal:triggerDateTime:graph" INTEGER, 
"ncal:triggerDateTime:localDate" INTEGER, "ncal:triggerDateTime:localTime" INTEGER, 
"ncal:triggerDuration" INTEGER, "ncal:triggerDuration:graph" INTEGER);
CREATE TABLE "ncal:TriggerRelation" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "ncal:UnionParentClass" (ID INTEGER NOT NULL PRIMARY KEY, 
"ncal:lastModified" INTEGER, "ncal:lastModified:graph" INTEGER, 
"ncal:lastModified:localDate" INTEGER, "ncal:lastModified:localTime" INTEGER, 
"ncal:trigger" INTEGER, "ncal:trigger:graph" INTEGER, 
"ncal:created" INTEGER, "ncal:created:graph" INTEGER, 
"ncal:created:localDate" INTEGER, "ncal:created:localTime" INTEGER, 
"ncal:url" INTEGER, "ncal:url:graph" INTEGER, "ncal:comment" TEXT COLLATE NOCASE, 
"ncal:comment:graph" INTEGER, "ncal:summaryAltRep" INTEGER, 
"ncal:summaryAltRep:graph" INTEGER, "ncal:priority" INTEGER, 
"ncal:priority:graph" INTEGER, "ncal:location" TEXT COLLATE NOCASE, 
"ncal:location:graph" INTEGER, "ncal:uid" TEXT COLLATE NOCASE, 
"ncal:uid:graph" INTEGER, "ncal:requestStatus" INTEGER, 
"ncal:requestStatus:graph" INTEGER, "ncal:recurrenceId" INTEGER, 
"ncal:recurrenceId:graph" INTEGER, "ncal:dtstamp" INTEGER, 
"ncal:dtstamp:graph" INTEGER, "ncal:dtstamp:localDate" INTEGER, 
"ncal:dtstamp:localTime" INTEGER, "ncal:class" INTEGER, 
"ncal:class:graph" INTEGER, "ncal:organizer" INTEGER,
"ncal:organizer:graph" INTEGER, "ncal:dtend" INTEGER,
"ncal:dtend:graph" INTEGER, "ncal:summary" TEXT COLLATE NOCASE,
"ncal:summary:graph" INTEGER, "ncal:descriptionAltRep" INTEGER,
"ncal:descriptionAltRep:graph" INTEGER, "ncal:commentAltRep" INTEGER,
"ncal:commentAltRep:graph" INTEGER, "ncal:sequence" INTEGER,
"ncal:sequence:graph" INTEGER, "ncal:contact" TEXT COLLATE NOCASE,
"ncal:contact:graph" INTEGER, "ncal:contactAltRep" INTEGER,
"ncal:contactAltRep:graph" INTEGER, "ncal:locationAltRep" INTEGER,
"ncal:locationAltRep:graph" INTEGER, "ncal:geo" INTEGER,
"ncal:geo:graph" INTEGER, "ncal:resourcesAltRep" INTEGER,
"ncal:resourcesAltRep:graph" INTEGER, "ncal:dtstart" INTEGER,
"ncal:dtstart:graph" INTEGER, "ncal:description" TEXT COLLATE NOCASE,
"ncal:description:graph" INTEGER, "ncal:relatedToSibling" TEXT COLLATE NOCASE,
"ncal:relatedToSibling:graph" INTEGER, "ncal:duration" INTEGER,
"ncal:duration:graph" INTEGER);
CREATE TABLE "ncal:UnionParentClass_ncal:attach" (ID INTEGER NOT NULL,
"ncal:attach" INTEGER NOT NULL, "ncal:attach:graph" INTEGER);
CREATE TABLE "ncal:UnionParentClass_ncal:attendee" (ID INTEGER NOT NULL,
"ncal:attendee" INTEGER NOT NULL, "ncal:attendee:graph" INTEGER);
CREATE TABLE "ncal:UnionParentClass_ncal:categories" (ID INTEGER NOT NULL,
"ncal:categories" TEXT NOT NULL, "ncal:categories:graph" INTEGER);
CREATE TABLE "ncal:UnionParentClass_ncal:exdate" (ID INTEGER NOT NULL,
"ncal:exdate" INTEGER NOT NULL, "ncal:exdate:graph" INTEGER);
CREATE TABLE "ncal:UnionParentClass_ncal:exrule" (ID INTEGER NOT NULL,
"ncal:exrule" INTEGER NOT NULL, "ncal:exrule:graph" INTEGER);
CREATE TABLE "ncal:UnionParentClass_ncal:hasAlarm" (ID INTEGER NOT NULL,
"ncal:hasAlarm" INTEGER NOT NULL, "ncal:hasAlarm:graph" INTEGER);
CREATE TABLE "ncal:UnionParentClass_ncal:ncalRelation" (ID INTEGER NOT NULL,
"ncal:ncalRelation" TEXT NOT NULL, "ncal:ncalRelation:graph" INTEGER);
CREATE TABLE "ncal:UnionParentClass_ncal:rdate" (ID INTEGER NOT NULL,
"ncal:rdate" INTEGER NOT NULL, "ncal:rdate:graph" INTEGER);
CREATE TABLE "ncal:UnionParentClass_ncal:relatedToChild" (ID INTEGER NOT NULL,
"ncal:relatedToChild" TEXT NOT NULL, "ncal:relatedToChild:graph" INTEGER);
CREATE TABLE "ncal:UnionParentClass_ncal:relatedToParent" (ID INTEGER NOT NULL,
"ncal:relatedToParent" TEXT NOT NULL, "ncal:relatedToParent:graph" INTEGER);
CREATE TABLE "ncal:UnionParentClass_ncal:resources" (ID INTEGER NOT NULL,
"ncal:resources" TEXT NOT NULL, "ncal:resources:graph" INTEGER);
CREATE TABLE "ncal:UnionParentClass_ncal:rrule" (ID INTEGER NOT NULL,
"ncal:rrule" INTEGER NOT NULL, "ncal:rrule:graph" INTEGER);
CREATE TABLE "ncal:Weekday" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nco:Affiliation" (ID INTEGER NOT NULL PRIMARY KEY,
"nco:department" TEXT COLLATE NOCASE, "nco:department:graph" INTEGER,
CREATE TABLE "nco:Affiliation_nco:title" (ID INTEGER NOT NULL, "nco:title" TEXT NOT NULL, "nco:title:graph" INTEGER);
CREATE TABLE "nco:AuthorizationStatus" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nco:BbsNumber" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nco:CellPhoneNumber" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nco:ContactGroup" (ID INTEGER NOT NULL PRIMARY KEY, "nco:contactGroupName" TEXT COLLATE NOCASE, "nco:contactGroupName:graph" INTEGER);
CREATE TABLE "nco:ContactList" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nco:ContactListDataObject" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nco:ContactList_nco:containsContact" (ID INTEGER NOT NULL, "nco:containsContact" INTEGER NOT NULL, "nco:containsContact:graph" INTEGER);
CREATE TABLE "nco:ContactMedium" (ID INTEGER NOT NULL PRIMARY KEY, "nco:contactMediumComment" TEXT COLLATE NOCASE, "nco:contactMediumComment:graph" INTEGER);
CREATE TABLE "nco:Contact_nco:belongsToGroup" (ID INTEGER NOT NULL, "nco:belongsToGroup" INTEGER NOT NULL, "nco:belongsToGroup:graph" INTEGER);
CREATE TABLE "nco:Contact_nco:note" (ID INTEGER NOT NULL, "nco:note" TEXT NOT NULL, "nco:note:graph" INTEGER);
CREATE TABLE "nco:Contact_scal:anniversary" (ID INTEGER NOT NULL, "scal:anniversary" INTEGER NOT NULL, "scal:anniversary:graph" INTEGER);
CREATE TABLE "nco:Contact_scal:birthday" (ID INTEGER NOT NULL, "scal:birthday" INTEGER NOT NULL, "scal:birthday:graph" INTEGER);
CREATE TABLE "nco:Contact_nco:belongsToGroup" (ID INTEGER NOT NULL, "nco:belongsToGroup" INTEGER NOT NULL, "nco:belongsToGroup:graph" INTEGER);
CREATE TABLE "nco:Contact_nco:note" (ID INTEGER NOT NULL, "nco:note" TEXT NOT NULL, "nco:note:graph" INTEGER);
CREATE TABLE "nco:Contact_scal:anniversary" (ID INTEGER NOT NULL, "scal:anniversary" INTEGER NOT NULL, "scal:anniversary:graph" INTEGER);
CREATE TABLE "nco:Contact_scal:birthday" (ID INTEGER NOT NULL, "scal:birthday" INTEGER NOT NULL, "scal:birthday:graph" INTEGER);
CREATE TABLE "nco:Contact_nco:belongsToGroup" (ID INTEGER NOT NULL, "nco:belongsToGroup" INTEGER NOT NULL, "nco:belongsToGroup:graph" INTEGER);
CREATE TABLE "nco:Contact_nco:note" (ID INTEGER NOT NULL, "nco:note" TEXT NOT NULL, "nco:note:graph" INTEGER);
CREATE TABLE "nco:Contact_scal:anniversary" (ID INTEGER NOT NULL, "scal:anniversary" INTEGER NOT NULL, "scal:anniversary:graph" INTEGER);
CREATE TABLE "nco:Contact_scal:birthday" (ID INTEGER NOT NULL, "scal:birthday" INTEGER NOT NULL, "scal:birthday:graph" INTEGER);
CREATE TABLE "nco:DomesticDeliveryAddress" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nco:EmailAddress" (ID INTEGER NOT NULL PRIMARY KEY,
"nco:emailAddress" TEXT COLLATE NOCASE UNIQUE,
"nco:emailAddress:graph" INTEGER);
CREATE TABLE "nco:FaxNumber" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nco:Gender" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nco:IMAccount" (ID INTEGER NOT NULL PRIMARY KEY,
"nco:imAccountAddress" INTEGER UNIQUE, "nco:imAccountAddress:graph" INTEGER,
"nco:imAccountType" TEXT COLLATE NOCASE,
"nco:imAccountType:graph" INTEGER, "nco:imDisplayName" TEXT COLLATE NOCASE,
"nco:imDisplayName:graph" INTEGER, "nco:imEnabled" INTEGER,
"nco:imEnabled:graph" INTEGER);
CREATE TABLE "nco:IMAccount_nco:hasIMContact" (ID INTEGER NOT NULL,
"nco:hasIMContact" INTEGER NOT NULL, "nco:hasIMContact:graph" INTEGER);
CREATE TABLE "nco:IMAddress" (ID INTEGER NOT NULL PRIMARY KEY,
"nco:imID" TEXT COLLATE NOCASE, "nco:imID:graph" INTEGER,
"nco:imNickname" TEXT COLLATE NOCASE, "nco:imNickname:graph" INTEGER,
"nco:imStatusMessage" TEXT COLLATE NOCASE,
"nco:imStatusMessage:graph" INTEGER, "nco:imPresence" INTEGER,
"nco:imPresence:graph" INTEGER, "nco:presenceLastModified" INTEGER,
"nco:presenceLastModified:graph" INTEGER,
"nco:presenceLastModified::localDate" INTEGER,
"nco:presenceLastModified::localTime" INTEGER,
"nco:imAddressAuthStatusFrom" INTEGER,
"nco:imAddressAuthStatusFrom:graph" INTEGER,
"nco:imAddressAuthStatusTo" INTEGER, "nco:imAddressAuthStatusTo:graph" INTEGER);
CREATE TABLE "nco:IMAddress_nco:imCapability" (ID INTEGER NOT NULL,
"nco:imCapability" INTEGER NOT NULL, "nco:imCapability:graph" INTEGER);
CREATE TABLE "nco:IMCapability" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nco:InternationalDeliveryAddress" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nco:IsdnNumber" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nco:MessagingNumber" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nco:ModemNumber" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nco:OrganizationContact" (ID INTEGER NOT NULL PRIMARY KEY,
"nco:logo" INTEGER, "nco:logo:graph" INTEGER);
CREATE TABLE "nco:PagerNumber" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nco:ParcelDeliveryAddress" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nco:PCSNumber" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nco:PersonContact" (ID INTEGER NOT NULL PRIMARY KEY,
"nco:nameFamily" TEXT COLLATE NOCASE, "nco:nameFamily:graph" INTEGER,
"nco:nameGiven" TEXT COLLATE NOCASE, "nco:nameGiven:graph" INTEGER,
"nco:nameAdditional" TEXT COLLATE NOCASE, "nco:nameAdditional:graph" INTEGER,
"nco:nameHonorificSuffix" TEXT COLLATE NOCASE,
"nco:nameHonorificSuffix:graph" INTEGER, "nco:nameHonorificPrefix"
CREATE TABLE "nco:PersonContact_nco:hasAffiliation" (ID INTEGER NOT NULL, "nco:hasAffiliation" INTEGER NOT NULL, "nco:hasAffiliation:graph" INTEGER);

CREATE TABLE "nco:PhoneNumber" (ID INTEGER NOT NULL PRIMARY KEY, "nco:phoneNumber" TEXT COLLATE NOCASE, "nco:phoneNumber:graph" INTEGER);


CREATE TABLE "nco:PresenceStatus" (ID INTEGER NOT NULL PRIMARY KEY);

CREATE TABLE "nco:Role" (ID INTEGER NOT NULL PRIMARY KEY, "nco:video" INTEGER, "nco:video:graph" INTEGER);

CREATE TABLE "nco:Role_nco:blogUrl" (ID INTEGER NOT NULL, "nco:blogUrl" INTEGER NOT NULL, "nco:blogUrl:graph" INTEGER);

CREATE TABLE "nco:Role_nco:foafUrl" (ID INTEGER NOT NULL, "nco:foafUrl" INTEGER NOT NULL, "nco:foafUrl:graph" INTEGER);

CREATE TABLE "nco:Role_nco:hasContactMedium" (ID INTEGER NOT NULL, "nco:hasContactMedium" INTEGER NOT NULL, "nco:hasContactMedium:graph" INTEGER);

CREATE TABLE "nco:Role_nco:hasEmailAddress" (ID INTEGER NOT NULL, "nco:hasEmailAddress" INTEGER NOT NULL, "nco:hasEmailAddress:graph" INTEGER);

CREATE TABLE "nco:Role_nco:hasIMAddress" (ID INTEGER NOT NULL, "nco:hasIMAddress" INTEGER NOT NULL, "nco:hasIMAddress:graph" INTEGER);

CREATE TABLE "nco:Role_nco:hasPhoneNumber" (ID INTEGER NOT NULL, "nco:hasPhoneNumber" INTEGER NOT NULL, "nco:hasPhoneNumber:graph" INTEGER);

CREATE TABLE "nco:Role_nco:hasPostalAddress" (ID INTEGER NOT NULL, "nco:hasPostalAddress" INTEGER NOT NULL, "nco:hasPostalAddress:graph" INTEGER);

CREATE TABLE "nco:Role_nco:url" (ID INTEGER NOT NULL, "nco:url" INTEGER NOT NULL, "nco:url:graph" INTEGER);

CREATE TABLE "nco:Role_nco:websiteUrl" (ID INTEGER NOT NULL, "nco:websiteUrl" INTEGER NOT NULL, "nco:websiteUrl:graph" INTEGER);

CREATE TABLE "nco:VideoTelephoneNumber" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nco:VoicePhoneNumber" (ID INTEGER NOT NULL PRIMARY KEY,
"nco:voiceMail" INTEGER, "nco:voiceMail:graph" INTEGER);
CREATE TABLE "nfo:Application" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:Archive" (ID INTEGER NOT NULL PRIMARY KEY,
"nfo:uncompressedSize" INTEGER, "nfo:uncompressedSize:graph" INTEGER);
CREATE TABLE "nfo:ArchiveItem" (ID INTEGER NOT NULL PRIMARY KEY,
"nfo:isPasswordProtected" INTEGER, "nfo:isPasswordProtected:graph" INTEGER);
CREATE TABLE "nfo:Attachment" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:Audio" (ID INTEGER NOT NULL PRIMARY KEY,
"nfo:channels" INTEGER, "nfo:channels:graph" INTEGER,
"nfo:lfeChannels" INTEGER, "nfo:lfeChannels:graph" INTEGER,
"nfo:sampleCount" INTEGER, "nfo:sampleCount:graph" INTEGER,
"nfo:sampleRate" REAL, "nfo:sampleRate:graph" INTEGER,
"nfo:averageAudioBitrate" REAL, "nfo:averageAudioBitrate:graph"
INTEGER, "nfo:gain" INTEGER, "nfo:gain:graph" INTEGER, "nfo:peakGain" INTEGER,
"nfo:peakGain:graph" INTEGER, "nfo:audioOffset" REAL,
"nfo:audioOffset:graph" INTEGER);
CREATE TABLE "nfo:Bookmark" (ID INTEGER NOT NULL PRIMARY KEY,
"nfo:bookmarks" INTEGER, "nfo:bookmarks:graph" INTEGER,
"nfo:characterPosition" INTEGER, "nfo:characterPosition:graph"
INTEGER, "nfo:pageNumber" INTEGER, "nfo:pageNumber:graph" INTEGER,
"nfo:streamPosition" INTEGER, "nfo:streamPosition:graph" INTEGER,
"nfo:streamDuration" INTEGER, "nfo:streamDuration:graph" INTEGER);
CREATE TABLE "nfo:BookmarkFolder" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:BookmarkFolder_nfo:containsBookmark" (ID INTEGER NOT NULL,
"nfo:containsBookmark" INTEGER NOT NULL,
"nfo:containsBookmark:graph" INTEGER);
CREATE TABLE "nfo:BookmarkFolder_nfo:containsBookmarkFolder" (ID INTEGER NOT NULL,
"nfo:containsBookmarkFolder" INTEGER NOT NULL,
"nfo:containsBookmarkFolder:graph" INTEGER);
CREATE TABLE "nfo:CompressionType" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:Cursor" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:DataContainer" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:DeletedResource" (ID INTEGER NOT NULL PRIMARY KEY,
"nfo:originalLocation" TEXT COLLATE NOCASE,
"nfo:originalLocation:graph" INTEGER, "nfo:deletionDate" INTEGER,
"nfo:deletionDate:graph" INTEGER, "nfo:deletionDate:localDate"
INTEGER, "nfo:deletionDate:localTime" INTEGER);
CREATE TABLE "nfo:Document" (ID INTEGER NOT NULL PRIMARY KEY,
"nfo:tableOfContents" TEXT COLLATE NOCASE,
"nfo:tableOfContents:graph" INTEGER);
CREATE TABLE "nfo:EmbeddedFileDataObject" (ID INTEGER NOT NULL PRIMARY KEY,
"nfo:encoding" TEXT COLLATE NOCASE, "nfo:encoding:graph"
CREATE TABLE "nfo:Equipment" (ID INTEGER NOT NULL PRIMARY KEY, "nfo:manufacturer" TEXT COLLATE NOCASE, "nfo:manufacturer:graph" INTEGER, "nfo:model" TEXT COLLATE NOCASE, "nfo:model:graph" INTEGER, "nfo:equipmentSoftware" TEXT COLLATE NOCASE, "nfo:equipmentSoftware:graph" INTEGER);
CREATE TABLE "nfo:Executable" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:FileHash" (ID INTEGER NOT NULL PRIMARY KEY, "nfo:hashValue" TEXT COLLATE NOCASE, "nfo:hashValue:graph" INTEGER, "nfo:hashAlgorithm" TEXT COLLATE NOCASE, "nfo:hashAlgorithm:graph" INTEGER);
CREATE TABLE "nfo:Filesystem" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:FilesystemImage" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:Folder" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:Font" (ID INTEGER NOT NULL PRIMARY KEY, "nfo:fontFamily" TEXT COLLATE NOCASE, "nfo:fontFamily:graph" INTEGER, "nfo:foundry" INTEGER, "nfo:foundry:graph" INTEGER);
CREATE TABLE "nfo:HardDiskPartition" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:HelpDocument" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:HtmlDocument" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:Icon" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:Image" (ID INTEGER NOT NULL PRIMARY KEY, "nfo:verticalResolution" INTEGER, "nfo:verticalResolution:graph" INTEGER, "nfo:horizontalResolution" INTEGER, "nfo:horizontalResolution:graph" INTEGER, "nfo:orientation" INTEGER, "nfo:orientation:graph" INTEGER);
CREATE TABLE "nfo:Image_nfo:depicts" (ID INTEGER NOT NULL, "nfo:depicts" INTEGER NOT NULL, "nfo:depicts:graph" INTEGER);
CREATE TABLE "nfo:Image_nfo:hasRegionOfInterest" (ID INTEGER NOT NULL, "nfo:hasRegionOfInterest" INTEGER NOT NULL, "nfo:hasRegionOfInterest:graph" INTEGER);
CREATE TABLE "nfo:Media" (ID INTEGER NOT NULL PRIMARY KEY, "nfo:count" INTEGER, "nfo:count:graph" INTEGER, "nfo:duration" INTEGER, "nfo:duration:graph" INTEGER, "nfo:compressionType" INTEGER, "nfo:compressionType:graph" INTEGER, "nfo:hasMediaStream" INTEGER,
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CREATE TABLE "nfo:Website" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nid3:ID3Audio" (ID INTEGER NOT NULL PRIMARY KEY,
"nid3:title" TEXT COLLATE NOCASE, "nid3:title:graph" INTEGER,
"nid3:albumTitle" TEXT COLLATE NOCASE, "nid3:albumTitle:graph" INTEGER,
"nid3:contentType" TEXT COLLATE NOCASE,
"nid3:contentType:graph" INTEGER, "nid3:length" INTEGER,
"nid3:length:graph" INTEGER, "nid3:recordingYear" INTEGER,
"nid3:recordingYear:graph" INTEGER, "nid3:trackNumber" INTEGER,
"nid3:partOfSet" TEXT COLLATE NOCASE,
"nid3:partOfSet:graph" INTEGER, "nid3:comments" TEXT,
"nid3:comments:graph" INTEGER);
CREATE TABLE "nfo:Website_nfo:uri" (ID INTEGER NOT NULL,
"nfo:uri" TEXT COLLATE NOCASE, "nfo:uri:graph" INTEGER);
CREATE TABLE "nfo:Website_nfo:uri:graph" INTEGER;
CREATE TABLE "nie:DataObject" (ID INTEGER NOT NULL PRIMARY KEY,
"nie:url" TEXT COLLATE NOCASE UNIQUE, "nie:url:graph" INTEGER,
"nie:byteSize" INTEGER, "nie:byteSize:graph" INTEGER,
"nie:interpretedAs" INTEGER, "nie:interpretedAs:graph" INTEGER,
"nie:lastRefreshed" INTEGER, "nie:lastRefreshed:graph" INTEGER,
"nie:lastRefreshed:localDate" INTEGER, "nie:lastRefreshed:localTime" INTEGER,
"nie:created" INTEGER, "nie:created:graph" INTEGER,
"nie:created:localDate" INTEGER, "nie:created:localTime" INTEGER,
"nfo:belongsToContainer" INTEGER, "nfo:belongsToContainer:graph" INTEGER,
"tracker:available" INTEGER, "tracker:available:graph" INTEGER);
CREATE TABLE "nie:DataObject_nie:dataSource" (ID INTEGER NOT NULL,
"nie:dataSource" INTEGER NOT NULL, "nie:dataSource:graph" INTEGER);
CREATE TABLE "nie:DataObject_nie:isPartOf" (ID INTEGER NOT NULL,
"nie:isPartOf" INTEGER NOT NULL, "nie:isPartOf:graph" INTEGER);
CREATE TABLE "nie:DataSource" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nie:InformationElement" (ID INTEGER NOT NULL PRIMARY KEY,
"nie:title" TEXT COLLATE NOCASE, "nie:title:graph" INTEGER,
"nie:contentLastModified" INTEGER, "nie:contentLastModified:graph" INTEGER,
"nie:contentLastModified:localDate" INTEGER, "nie:contentLastModified:localTime" INTEGER,
"nie:subject" TEXT COLLATE NOCASE, "nie:subject:graph" INTEGER,
"nie:mimeType" TEXT COLLATE NOCASE, "nie:mimeType:graph" INTEGER,
"nie:language" TEXT COLLATE NOCASE, "nie:language:graph" INTEGER,
"nie:plainTextContent" TEXT COLLATE NOCASE, "nie:plainTextContent:graph" INTEGER,
"nie:legal" TEXT COLLATE NOCASE, "nie:legal:graph" INTEGER,
"nie:generator" TEXT COLLATE NOCASE, "nie:generator:graph" INTEGER,
"nie:description" TEXT COLLATE NOCASE, "nie:description:graph" INTEGER,
"nie:disclaimer" TEXT COLLATE NOCASE, "nie:disclaimer:graph" INTEGER,
"nie:depends" INTEGER, "nie:depends:graph" INTEGER,
"nie:links" INTEGER, "nie:links:graph" INTEGER, "nie:copyright" TEXT,
"nie:copyright:graph" INTEGER, "nie:comment" TEXT,
"nie:doi" TEXT COLLATE NOCASE, "nie:doi:graph" INTEGER,
"nie:isStoredAs" INTEGER, "nie:isStoredAs:graph" INTEGER, "nie:version" TEXT COLLATE NOCASE,
OPEN SOURCE USED IN CISCO VSM 7.14.2

CREATE TABLE "nie:InformationElement_mlo:location" (ID INTEGER NOT NULL, "mlo:location" INTEGER NOT NULL, "mlo:location:graph" INTEGER);
CREATE TABLE "nie:InformationElement_nao:hasProperty" (ID INTEGER NOT NULL, "nao:hasProperty" INTEGER NOT NULL, "nao:hasProperty:graph" INTEGER);
CREATE TABLE "nie:InformationElement_nco:contributor" (ID INTEGER NOT NULL, "nco:contributor" INTEGER NOT NULL, "nco:contributor:graph" INTEGER);
CREATE TABLE "nie:InformationElement_nco:creator" (ID INTEGER NOT NULL, "nco:creator" INTEGER NOT NULL, "nco:creator:graph" INTEGER);
CREATE TABLE "nie:InformationElement_nie:hasLogicalPart" (ID INTEGER NOT NULL, "nie:hasLogicalPart" INTEGER NOT NULL, "nie:hasLogicalPart:graph" INTEGER);
CREATE TABLE "nie:InformationElement_nie:hasPart" (ID INTEGER NOT NULL, "nie:hasPart" INTEGER NOT NULL, "nie:hasPart:graph" INTEGER);
CREATE TABLE "nie:InformationElement_nie:informationElementDate" (ID INTEGER NOT NULL, "nie:informationElementDate" INTEGER NOT NULL, "nie:informationElementDate:graph" INTEGER);
CREATE TABLE "nie:InformationElement_nie:isLogicalPartOf" (ID INTEGER NOT NULL, "nie:isLogicalPartOf" INTEGER NOT NULL, "nie:isLogicalPartOf:graph" INTEGER);
CREATE TABLE "nie:InformationElement_nie:keyword" (ID INTEGER NOT NULL, "nie:keyword" TEXT NOT NULL, "nie:keyword:graph" INTEGER);
CREATE TABLE "nie:InformationElement_nie:relatedTo" (ID INTEGER NOT NULL, "nie:relatedTo" INTEGER NOT NULL, "nie:relatedTo:graph" INTEGER);
CREATE TABLE "nmm:AnalogRadio" (ID INTEGER NOT NULL PRIMARY KEY,
CREATE TABLE "nmm:Playlist" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nmm:RadioModulation" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nmm:RadioStation" (ID INTEGER NOT NULL PRIMARY KEY,
  "nmm:radioIcon" INTEGER, "nmm:radioIcon:graph" INTEGER, "nmm:radioPTY"
  INTEGER, "nmm:radioPTY:graph" INTEGER);
CREATE TABLE "nmm:RadioStation_nmm:carrier" (ID INTEGER NOT NULL,
  "nmm:carrier" INTEGER NOT NULL, "nmm:carrier:graph" INTEGER);
CREATE TABLE "nmm:SynchronizedText" (ID INTEGER NOT NULL PRIMARY KEY,
  "nmm:isForHearingImpaired" INTEGER, "nmm:isForHearingImpaired:graph"
  INTEGER);
CREATE TABLE "nmm:Video" (ID INTEGER NOT NULL PRIMARY KEY,
  "nmm:videoAlbum" INTEGER, "nmm:videoAlbum:graph" INTEGER,
  "nmm:isSeries" INTEGER, "nmm:isSeries:graph" INTEGER, "nmm:season"
  INTEGER, "nmm:season:graph" INTEGER, "nmm:episodeNumber" INTEGER,
  "nmm:episodeNumber:graph" INTEGER, "nmm:runTime" INTEGER,
  "nmm:runTime:graph" INTEGER, "nmm:synopsis" TEXT COLLATE NOCASE,
  "nmm:synopsis:graph" INTEGER, "nmm:MPAARating" TEXT COLLATE NOCASE,
  "nmm:MPAARating:graph" INTEGER, "nmm:category" TEXT COLLATE NOCASE,
  "nmm:category:graph" INTEGER, "nmm:producedBy" INTEGER,
  "nmm:producedBy:graph" INTEGER, "nmm:hasSubtitle" INTEGER,
  "nmm:hasSubtitle:graph" INTEGER, "nmm:isContentEncrypted" INTEGER,
  "nmm:isContentEncrypted:graph" INTEGER, "mtp:fourCC" TEXT COLLATE
  NOCASE, "mtp:fourCC:graph" INTEGER, "mtp:waveformat" TEXT COLLATE
  NOCASE, "mtp:waveformat:graph" INTEGER);
CREATE TABLE "nmm:Video_mtp:scantype" (ID INTEGER NOT NULL,
  "mtp:scantype" INTEGER NOT NULL, "mtp:scantype:graph" INTEGER);
CREATE TABLE "nmm:Video_nmm:director" (ID INTEGER NOT NULL,
  "nmm:director" INTEGER NOT NULL, "nmm:director:graph" INTEGER);
CREATE TABLE "nmm:Video_nmm:leadActor" (ID INTEGER NOT NULL,
  "nmm:leadActor" INTEGER NOT NULL, "nmm:leadActor:graph" INTEGER);
CREATE TABLE "nmm:Video_nmm:subtitle" (ID INTEGER NOT NULL,
  "nmm:subtitle" INTEGER NOT NULL, "nmm:subtitle:graph" INTEGER);
CREATE TABLE "nmm:WhiteBalance" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nmo:Attachment" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nmo:Call" (ID INTEGER NOT NULL PRIMARY KEY,
  "nmo:sentDate" INTEGER, "nmo:sentDate:graph" INTEGER,
  "nmo:sentDate:localDate" INTEGER, "nmo:sentDate:localTime" INTEGER,
  "nmo:duration" INTEGER, "nmo:duration:graph" INTEGER);
CREATE TABLE "nmo:CommunicationChannel" (ID INTEGER NOT NULL PRIMARY
  KEY, "nmo:lastSuccessfulMessageDate" INTEGER, "nmo:lastSuccessfulMessageDate:graph"
  INTEGER, "nmo:lastMessageDate:localDate" INTEGER, "nmo:lastMessageDate:localTime"
  INTEGER, "nmo:lastSuccessfulMessageDate" INTEGER,
  "nmo:lastSuccessfulMessageDate:graph" INTEGER, "nmo:lastSuccessfulMessageDate:localDate"
  INTEGER, "nmo:lastSuccessfulMessageDate:localTime" INTEGER);
CREATE TABLE "nmo:CommunicationChannel_nmo:hasParticipant" (ID INTEGER
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CREATE TABLE "nmo:Conversation" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nmo:DeliveryStatus" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nmo:Email" (ID INTEGER NOT NULL PRIMARY KEY, "nmo:hasContent" INTEGER, "nmo:hasContent:graph" INTEGER, "nmo:isFlagged" INTEGER, "nmo:isFlagged:graph" INTEGER, "nmo:isRecent" INTEGER, "nmo:isRecent:graph" INTEGER, "nmo:status" TEXT COLLATE NOCASE, "nmo:status:graph" INTEGER, "nmo:responseType" TEXT COLLATE NOCASE, "nmo:responseType:graph" INTEGER);
CREATE TABLE "nmo:Email_nmo:contentMimeType" (ID INTEGER NOT NULL, "nmo:contentMimeType" TEXT NOT NULL, "nmo:contentMimeType:graph" INTEGER);
CREATE TABLE "nmo:IMMessage" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nmo:MMSMessage" (ID INTEGER NOT NULL PRIMARY KEY, "nmo:mmsHasContent" INTEGER, "nmo:mmsHasContent:graph" INTEGER);
CREATE TABLE "nmo:MailAccount" (ID INTEGER NOT NULL PRIMARY KEY, "nmo:accountName" TEXT COLLATE NOCASE, "nmo:accountName:graph" INTEGER, "nmo:accountDisplayName" TEXT COLLATE NOCASE, "nmo:accountDisplayName:graph" INTEGER, "nmo:fromAddress" INTEGER, "nmo:fromAddress:graph" INTEGER, "nmo:signature" TEXT COLLATE NOCASE, "nmo:signature:graph" INTEGER);
CREATE TABLE "nmo:MailFolder" (ID INTEGER NOT NULL PRIMARY KEY, "nmo:folderName" TEXT COLLATE NOCASE, "nmo:folderName:graph" INTEGER, "nmo:serverCount" INTEGER, "nmo:serverCount:graph" INTEGER, "nmo:serverUnreadCount" INTEGER, "nmo:serverUnreadCount:graph" INTEGER);
CREATE TABLE "nmo:MailboxDataObject" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nmo:Message" (ID INTEGER NOT NULL PRIMARY KEY, "nmo:sentDate" INTEGER, "nmo:sentDate:graph" INTEGER, "nmo:sentDate:localDate" INTEGER, "nmo:sentDate:localTime" INTEGER, "nmo:from" INTEGER, "nmo:from:graph" INTEGER, "nmo:isAnswered" INTEGER, "nmo:isAnswered:graph" INTEGER, "nmo:isDeleted" INTEGER, "nmo:isDeleted:graph" INTEGER, "nmo:isDraft" INTEGER, "nmo:isDraft:graph" INTEGER, "nmo:isRead" INTEGER, "nmo:isRead:graph" INTEGER, "nmo:isSent" INTEGER, "nmo:isSent:graph" INTEGER, "nmo:isEmergency" INTEGER, "nmo:isEmergency:graph" INTEGER, "nmo:htmlMessageContent" TEXT COLLATE NOCASE, "nmo:htmlMessageContent:graph" INTEGER, "nmo:messageId" TEXT COLLATE NOCASE, "nmo:messageId:graph" INTEGER, "nmo:messageSubject" TEXT COLLATE NOCASE, "nmo:messageSubject:graph" INTEGER, "nmo:receivedDate" INTEGER, "nmo:receivedDate:graph" INTEGER, "nmo:receivedDate:localDate" INTEGER, "nmo:receivedDate:localTime" INTEGER, "nmo:replyTo" INTEGER, "nmo:replyTo:graph" INTEGER, "nmo:sender" INTEGER, "nmo:sender:graph" INTEGER, "nmo:conversation" INTEGER, "nmo:conversation:graph" INTEGER, "nmo:communicationChannel" INTEGER, "nmo:communicationChannel:graph" INTEGER, "nmo:deliveryStatus" INTEGER, "nmo:deliveryStatus:graph" INTEGER,
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CREATE TABLE "nmo:MessageHeader" (ID INTEGER NOT NULL PRIMARY KEY, "nmo:headerName" TEXT COLLATE NOCASE, "nmo:headerName:graph" INTEGER, "nmo:headerValue" TEXT COLLATE NOCASE, "nmo:headerValue:graph" INTEGER);
CREATE TABLE "nmo:Message_nmo:bcc" (ID INTEGER NOT NULL, "nmo:bcc" INTEGER NOT NULL, "nmo:bcc:graph" INTEGER);
CREATE TABLE "nmo:Message_nmo:cc" (ID INTEGER NOT NULL, "nmo:cc" INTEGER NOT NULL, "nmo:cc:graph" INTEGER);
CREATE TABLE "nmo:Message_nmo:hasAttachment" (ID INTEGER NOT NULL, "nmo:hasAttachment" INTEGER NOT NULL, "nmo:hasAttachment:graph" INTEGER);
CREATE TABLE "nmo:Message_nmo:inReplyTo" (ID INTEGER NOT NULL, "nmo:inReplyTo" INTEGER NOT NULL, "nmo:inReplyTo:graph" INTEGER);
CREATE TABLE "nmo:Message_nmo:messageHeader" (ID INTEGER NOT NULL, "nmo:messageHeader" INTEGER NOT NULL, "nmo:messageHeader:graph" INTEGER);
CREATE TABLE "nmo:Message_nmo:recipient" (ID INTEGER NOT NULL, "nmo:recipient" INTEGER NOT NULL, "nmo:recipient:graph" INTEGER);
CREATE TABLE "nmo:Message_nmo:references" (ID INTEGER NOT NULL, "nmo:references" INTEGER NOT NULL, "nmo:references:graph" INTEGER);
CREATE TABLE "nmo:Message_nmo:to" (ID INTEGER NOT NULL, "nmo:to" INTEGER NOT NULL, "nmo:to:graph" INTEGER);
CREATE TABLE "nmo:MimePart" (ID INTEGER NOT NULL PRIMARY KEY, "nmo:charSet" TEXT COLLATE NOCASE, "nmo:charSet:graph" INTEGER, "nmo:contentId" TEXT COLLATE NOCASE, "nmo:contentId:graph" INTEGER, "nmo:contentTransferEncoding" TEXT COLLATE NOCASE, "nmo:contentTransferEncoding:graph" INTEGER, "nmo:contentDescription" TEXT COLLATE NOCASE, "nmo:contentDescription:graph" INTEGER);
CREATE TABLE "nmo:MimePart_nmo:mimeHeader" (ID INTEGER NOT NULL, "nmo:mimeHeader" INTEGER NOT NULL, "nmo:mimeHeader:graph" INTEGER);
CREATE TABLE "nmo:Multipart" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nmo:Multipart_nmo:partBoundary" (ID INTEGER NOT NULL, "nmo:partBoundary" TEXT NOT NULL, "nmo:partBoundary:graph" INTEGER);
CREATE TABLE "nmo:PermanentChannel" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nmo:PhoneMessageFolder" (ID INTEGER NOT NULL PRIMARY KEY);
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KEY, "nmo:phoneMessageFolderId" TEXT COLLATE NOCASE,
"nmo:phoneMessageFolderId:graph" INTEGER);
CREATE TABLE "nmo:PhoneMessageFolder_nmo:containsPhoneMessage" (ID INTEGER NOT NULL, "nmo:containsPhoneMessage" INTEGER NOT NULL,
"nmo:containsPhoneMessage:graph" INTEGER);
CREATE TABLE "nmo:PhoneMessageFolder_nmo:containsPhoneMessageFolder"
(ID INTEGER NOT NULL, "nmo:containsPhoneMessageFolder" INTEGER NOT NULL,
"nmo:containsPhoneMessageFolder:graph" INTEGER);
CREATE TABLE "nmo:PhoneMessage_nmo:toVCard" (ID INTEGER NOT NULL, "nmo:toVCard" INTEGER NOT NULL, "nmo:toVCard:graph" INTEGER);
CREATE TABLE "nmo:ReportReadStatus" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nmo:SMSMessage" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nmo:TransientChannel" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nmo:VOIPCall" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nrl:InverseFunctionalProperty" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "osinfo:Installer" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "poi:ObjectOfInterest" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "rdf:Property" (ID INTEGER NOT NULL PRIMARY KEY,
"rdfs:domain" INTEGER, "rdfs:domain:graph" INTEGER, "rdfs:range" INTEGER, "rdfs:range:graph" INTEGER, "tracker:indexed" INTEGER,
"tracker:indexed:graph" INTEGER, "tracker:secondaryIndex" INTEGER,
"tracker:secondaryIndex:graph" INTEGER, "tracker:fulltextIndexed" INTEGER,
"tracker:fulltextIndex:graph" INTEGER, "tracker:flexValue" TEXT COLLATE NOCASE,
"tracker:flexValue:graph" INTEGER, "nrl:maxCardinality" INTEGER,
"nrl:maxCardinality:graph" INTEGER, "tracker:writeback" INTEGER,
"tracker:writeback:graph" INTEGER, "tracker:forceJournal" INTEGER,
"tracker:forceJournal:graph" INTEGER);
CREATE TABLE "rdf:Property_rdfs:subPropertyOf" (ID INTEGER NOT NULL, "rdfs:subPropertyOf" INTEGER NOT NULL, "rdfs:subPropertyOf:graph" INTEGER);
CREATE TABLE "rdfs:Class" (ID INTEGER NOT NULL PRIMARY KEY,
"tracker:notify" INTEGER, "tracker:notify:graph" INTEGER);
CREATE TABLE "rdfs:Class_rdfs:subClassOf" (ID INTEGER NOT NULL, "rdfs:subClassOf" INTEGER NOT NULL, "rdfs:subClassOf:graph" INTEGER);
CREATE TABLE "rdfs:Class_tracker:domainIndex" (ID INTEGER NOT NULL, "tracker:domainIndex" INTEGER NOT NULL, "tracker:domainIndex:graph" INTEGER);
CREATE TABLE "rdfs:Literal" (ID INTEGER NOT NULL PRIMARY KEY,
"rdfs:comment" TEXT COLLATE NOCASE, 
"rdfs:comment:graph" INTEGER, "rdfs:label" TEXT COLLATE NOCASE,
"rdfs:label:graph" INTEGER, "tracker:added" INTEGER,
"tracker:added:graph" INTEGER, "tracker:added:localDate" INTEGER,
"tracker:added:localTime" INTEGER, "tracker:modified" INTEGER,
"tracker:modified:graph" INTEGER, "tracker:damaged" INTEGER,
"tracker:damaged:graph" INTEGER, "dc:title" TEXT COLLATE NOCASE,
"dc:title:graph" INTEGER, "dc:creator" TEXT COLLATE NOCASE,
"dc:creator:graph" INTEGER, "dc:subject" TEXT COLLATE NOCASE,
"dc:subject:graph" INTEGER, "dc:description" TEXT COLLATE NOCASE,
"dc:description:graph" INTEGER, "dc:publisher" TEXT COLLATE NOCASE,
"dc:publisher:graph" INTEGER, "dc:type" TEXT COLLATE NOCASE,
"dc:type:graph" INTEGER, "dc:format" TEXT COLLATE NOCASE,
"dc:format:graph" INTEGER, "dc:identifier" TEXT COLLATE NOCASE,
"dc:identifier:graph" INTEGER, "dc:rights" TEXT COLLATE NOCASE,
"dc:rights:graph" INTEGER, "nao:identifier" TEXT COLLATE NOCASE,
"nao:identifier:graph" INTEGER, "nao:numericRating" REAL,
"nao:numericRating:graph" INTEGER, "nao:lastModified" INTEGER,
"nao:lastModified:graph" INTEGER, "nao:lastModified:localDate" INTEGER,
"nao:lastModified:localTime" INTEGER);
CREATE TABLE "rdfs:Resource_dc:contributor" (ID INTEGER NOT NULL,
"dc:contributor" TEXT NOT NULL, "dc:contributor:graph" INTEGER);
CREATE TABLE "rdfs:Resource_dc:date" (ID INTEGER NOT NULL, "dc:date"
INTEGER NOT NULL, "dc:date:graph" INTEGER, "dc:date:localDate" INTEGER
NOT NULL, "dc:date:localTime" INTEGER NOT NULL);
CREATE TABLE "rdfs:Resource_dc:relation" (ID INTEGER NOT NULL,
"dc:relation" TEXT NOT NULL, "dc:relation:graph" INTEGER);
CREATE TABLE "rdfs:Resource_dc:source" (ID INTEGER NOT NULL,
"dc:source" INTEGER NOT NULL, "dc:source:graph" INTEGER);
CREATE TABLE "rdfs:Resource_nao:deprecated" (ID INTEGER NOT NULL,
"nao:deprecated" INTEGER NOT NULL, "nao:deprecated:graph" INTEGER);
CREATE TABLE "rdfs:Resource_nao:hasTag" (ID INTEGER NOT NULL,
"nao:hasTag" INTEGER NOT NULL, "nao:hasTag:graph" INTEGER);
CREATE TABLE "rdfs:Resource_nao:isRelated" (ID INTEGER NOT NULL,
"nao:isRelated" INTEGER NOT NULL, "nao:isRelated:graph" INTEGER);
CREATE TABLE "rdfs:Resource_rdf:type" (ID INTEGER NOT NULL, "rdf:type"
INTEGER NOT NULL, "rdf:type:graph" INTEGER);
CREATE TABLE "scal:AccessLevel" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "scal:AttendanceStatus" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "scal:Attendee" (ID INTEGER NOT NULL PRIMARY KEY,
"scal:attendanceStatus" INTEGER, "scal:attendanceStatus:graph"
INTEGER, "scal:attendeeRole" INTEGER, "scal:attendeeRole:graph"
INTEGER, "scal:attendeeContact" INTEGER, "scal:attendeeContact:graph"
INTEGER, "scal:rsvp" INTEGER, "scal:rsvp:graph" INTEGER,
"scal:calendarUserType" INTEGER, "scal:calendarUserType:graph"
INTEGER);
CREATE TABLE "scal:AttendeeRole" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "scal:Attendee_scal:delegated-from" (ID INTEGER NOT NULL,
"scal:delegated-from" INTEGER NOT NULL, "scal:delegated-from:graph"
INTEGER);
CREATE TABLE "scal:Attendee_scal:delegated-to" (ID INTEGER NOT NULL,
CREATE TABLE "scal:Attendee_scal:member" (ID INTEGER NOT NULL, "scal:member" INTEGER NOT NULL, "scal:member:graph" INTEGER);
CREATE TABLE "scal:Attendee_scal:sent-by" (ID INTEGER NOT NULL, "scal:sent-by" INTEGER NOT NULL, "scal:sent-by:graph" INTEGER);
CREATE TABLE "scal:Calendar" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "scal:CalendarAlarm" (ID INTEGER NOT NULL PRIMARY KEY, "scal:alarmOffset" INTEGER, "scal:alarmOffset:graph" INTEGER);
CREATE TABLE "scal:CalendarAlarm_scal:alarmAttendee" (ID INTEGER NOT NULL, "scal:alarmAttendee" INTEGER NOT NULL, "scal:alarmAttendee:graph" INTEGER);
CREATE TABLE "scal:CalendarItem_scal:access" (ID INTEGER NOT NULL, "scal:access" INTEGER NOT NULL, "scal:access:graph" INTEGER);
CREATE TABLE "scal:CalendarItem_scal:attachment" (ID INTEGER NOT NULL, "scal:attachment" INTEGER NOT NULL, "scal:attachment:graph" INTEGER);
CREATE TABLE "scal:CalendarItem_scal:attendee" (ID INTEGER NOT NULL, "scal:attendee" INTEGER NOT NULL, "scal:attendee:graph" INTEGER);
CREATE TABLE "scal:CalendarItem_scal:belongsToCalendar" (ID INTEGER NOT NULL, "scal:belongsToCalendar" INTEGER NOT NULL, "scal:belongsToCalendar:graph" INTEGER);
CREATE TABLE "scal:CalendarItem_scal:contact" (ID INTEGER NOT NULL, "scal:contact" INTEGER NOT NULL, "scal:contact:graph" INTEGER);
CREATE TABLE "scal:CalendarItem_scal:rrule" (ID INTEGER NOT NULL, "scal:rrule" INTEGER NOT NULL, "scal:rrule:graph" INTEGER);
CREATE TABLE "scal:CalendarUserType" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "scal:Event" (ID INTEGER NOT NULL PRIMARY KEY, "scal:eventStatus" INTEGER, "scal:eventStatus:graph" INTEGER);
CREATE TABLE "scal:EventStatus" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "scal:Journal" (ID INTEGER NOT NULL PRIMARY KEY, "scal:journalStatus" INTEGER, "scal:journalStatus:graph" INTEGER);
CREATE TABLE "scal:JournalStatus" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "scal:RSVPValues" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "scal:RecurrenceRule" (ID INTEGER NOT NULL PRIMARY KEY, "scal:recurrencePattern" TEXT COLLATE NOCASE, "scal:recurrencePattern:graph" INTEGER, "scal:recurrenceStartDate" INTEGER, "scal:exception" INTEGER, "scal:exception:graph" INTEGER, "scal:recurrenceStartDate:graph" INTEGER);
CREATE TABLE "scal:Exception" (ID INTEGER NOT NULL PRIMARY KEY, "scal:exception:graph" INTEGER);
CREATE TABLE "scal:TimePoint" (ID INTEGER NOT NULL PRIMARY KEY, "scal:dateTime" INTEGER, "scal:dateTime:graph" INTEGER, "scal:dateTime:localDate" INTEGER, "scal:dateTime:localTime" INTEGER, "scal:TimeZone" TEXT COLLATE NOCASE, "scal:TimeZone:graph" INTEGER);
CREATE TABLE "scal:TodoStatus" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "scal:TransparencyValues" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "slo:Landmark" (ID INTEGER NOT NULL PRIMARY KEY, "slo:iconUrl" INTEGER, "slo:iconUrl:graph" INTEGER);
CREATE TABLE "slo:LandmarkCategory" (ID INTEGER NOT NULL PRIMARY KEY, "slo:isRemovable" INTEGER, "slo:isRemovable:graph" INTEGER, "slo:categoryIconUrl" INTEGER, "slo:categoryIconUrl:graph" INTEGER);
CREATE TABLE "slo:Landmark_slo:belongsToCategory" (ID INTEGER NOT NULL, "slo:belongsToCategory" INTEGER NOT NULL, "slo:belongsToCategory:graph" INTEGER);
CREATE TABLE "slo:Landmark_slo:hasContact" (ID INTEGER NOT NULL, "slo:hasContact" INTEGER NOT NULL, "slo:hasContact:graph" INTEGER);
CREATE TABLE "slo:Route" (ID INTEGER NOT NULL PRIMARY KEY, "slo:startTime" INTEGER, "slo:startTime:graph" INTEGER, "slo:startTime:localDate" INTEGER, "slo:startTime:localTime" INTEGER, "slo:endTime" INTEGER, "slo:endTime:graph" INTEGER, "slo:endTime:localDate" INTEGER, "slo:endTime:localTime" INTEGER);
CREATE TABLE "slo:Route_slo:routeDetails" (ID INTEGER NOT NULL, "slo:routeDetails" TEXT NOT NULL, "slo:routeDetails:graph" INTEGER);
CREATE TABLE "tracker:Namespace" (ID INTEGER NOT NULL PRIMARY KEY, "tracker:prefix" TEXT COLLATE NOCASE, "tracker:prefix:graph" INTEGER);
CREATE TABLE "tracker:Ontology" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "tracker:Volume" (ID INTEGER NOT NULL PRIMARY KEY, "tracker:isMounted" INTEGER, "tracker:isMounted:graph" INTEGER, "tracker:unmountDate" INTEGER, "tracker:unmountDate:graph" INTEGER, "tracker:unmountDate:localDate" INTEGER, "tracker:unmountDate:localTime" INTEGER, "tracker:mountPoint" INTEGER, "tracker:mountPoint:graph" INTEGER, "tracker:isRemovable" INTEGER, "tracker:isRemovable:graph" INTEGER, "tracker:isOptical" INTEGER, "tracker:isOptical:graph" INTEGER);
CREATE UNIQUE INDEX "mfo:FeedMessage_mfo:enclosureList_ID_ID" ON "mfo:FeedMessage_mfo:enclosureList" (ID, "mfo:enclosureList");
CREATE UNIQUE INDEX "mlo:GeoBoundingBox_mlo:bbNorthWest_ID_ID" ON "mlo:GeoBoundingBox_mlo:bbNorthWest" (ID, "mlo:bbNorthWest");
CREATE UNIQUE INDEX "mlo:GeoBoundingBox_mlo:bbSouthEast_ID_ID" ON "mlo:GeoBoundingBox_mlo:bbSouthEast" (ID, "mlo:bbSouthEast");
CREATE INDEX "mlo:GeoLocation_mlo:asBoundingBox_ID" ON "mlo:GeoLocation_mlo:asBoundingBox" (ID);
CREATE UNIQUE INDEX "mlo:GeoLocation_mlo:asBoundingBoxBox_ID_ID" ON "mlo:GeoLocation_mlo:asBoundingBoxBox" ("mlo:asBoundingBoxBox", ID);
CREATE INDEX "mlo:GeoLocation_mlo:asGeoPoint_ID" ON "mlo:GeoLocation_mlo:asGeoPoint" (ID);
CREATE UNIQUE INDEX "mlo:GeoLocation_mlo:asGeoPoint_ID_ID" ON "mlo:GeoLocation_mlo:asGeoPoint" ("mlo:asGeoPoint", ID);
CREATE INDEX "mlo:GeoLocation_mlo:asPostalAddress_ID" ON "mlo:GeoLocation_mlo:asPostalAddress" (ID);
CREATE UNIQUE INDEX "mlo:GeoLocation_mlo:asPostalAddress_ID_ID" ON "mlo:GeoLocation_mlo:asPostalAddress" ("mlo:asPostalAddress", ID);
CREATE UNIQUE INDEX "mlo:GeoPoint_mlo:address_ID_ID" ON "mlo:GeoPoint_mlo:address" (ID, "mlo:address");
CREATE UNIQUE INDEX "mlo:GeoPoint_mlo:altitude_ID_ID" ON "mlo:GeoPoint_mlo:altitude" (ID, "mlo:altitude");
CREATE UNIQUE INDEX "mlo:GeoPoint_mlo:city_ID_ID" ON "mlo:GeoPoint_mlo:city" (ID, "mlo:city");
CREATE UNIQUE INDEX "mlo:GeoPoint_mlo:country_ID_ID" ON "mlo:GeoPoint_mlo:country" (ID, "mlo:country");
CREATE UNIQUE INDEX "mlo:GeoPoint_mlo:latitude_ID_ID" ON "mlo:GeoPoint_mlo:latitude" (ID, "mlo:latitude");
CREATE UNIQUE INDEX "mlo:GeoPoint_mlo:longitude_ID_ID" ON "mlo:GeoPoint_mlo:longitude" (ID, "mlo:longitude");
CREATE UNIQUE INDEX "mlo:GeoPoint_mlo:state_ID_ID" ON "mlo:GeoPoint_mlo:state" (ID, "mlo:state");
CREATE UNIQUE INDEX "mlo:GeoPoint_mlo:timestamp_ID_ID" ON "mlo:GeoPoint_mlo:timestamp" (ID, "mlo:timestamp");
CREATE UNIQUE INDEX "mlo:GeoSphere_mlo:radius_ID_ID" ON "mlo:GeoSphere_mlo:radius" (ID, "mlo:radius");
CREATE UNIQUE INDEX "mlo:LandmarkCategory_mlo:belongsToCategory_ID_ID" ON "mlo:LandmarkCategory_mlo:belongsToCategory" (ID, "mlo:belongsToCategory");
CREATE UNIQUE INDEX "mlo:Landmark" (ID, "mlo:Landmark" ID)
CREATE UNIQUE INDEX "mlo:LocationBoundingBox" (ID, "mlo:LocationBoundingBox" ID)
CREATE UNIQUE INDEX "mlo:Route" (ID, "mlo:Route" ID)
CREATE UNIQUE INDEX "mto:Transfer" (ID, "mto:Transfer" ID)
CREATE UNIQUE INDEX "nao:Tag" (ID, "nao:Tag" ID)
CREATE UNIQUE INDEX "ncal:Alarm" (ID, "ncal:Alarm" ID)
CREATE UNIQUE INDEX "ncal:BydayRulePart" (ID, "ncal:BydayRulePart" ID)
CREATE UNIQUE INDEX "ncal:Calendar" (ID, "ncal:Calendar" ID)
CREATE UNIQUE INDEX "ncal:Freebusy" (ID, "ncal:Freebusy" ID)
CREATE UNIQUE INDEX "ncal:RecurrenceRule" (ID, "ncal:RecurrenceRule" ID)
CREATE UNIQUE INDEX "ncal:RecurrenceRule_ncal:byminute_ID_ID" ON "ncal:RecurrenceRule_ncal:byminute" (ID, "ncal:byminute");
CREATE UNIQUE INDEX "ncal:RecurrenceRule_ncal:bymonth_ID_ID" ON "ncal:RecurrenceRule_ncal:bymonth" (ID, "ncal:bymonth");
CREATE UNIQUE INDEX "ncal:RecurrenceRule_ncal:bymonthday_ID_ID" ON "ncal:RecurrenceRule_ncal:bymonthday" (ID, "ncal:bymonthday");
CREATE UNIQUE INDEX "ncal:RecurrenceRule_ncal:bysecond_ID_ID" ON "ncal:RecurrenceRule_ncal:bysecond" (ID, "ncal:bysecond");
CREATE UNIQUE INDEX "ncal:RecurrenceRule_ncal:bysetpos_ID_ID" ON "ncal:RecurrenceRule_ncal:bysetpos" (ID, "ncal:bysetpos");
CREATE UNIQUE INDEX "ncal:RecurrenceRule_ncal:byweekno_ID_ID" ON "ncal:RecurrenceRule_ncal:byweekno" (ID, "ncal:byweekno");
CREATE UNIQUE INDEX "ncal:RecurrenceRule_ncal:byyearday_ID_ID" ON "ncal:RecurrenceRule_ncal:byyearday" (ID, "ncal:byyearday");
CREATE UNIQUE INDEX "ncal:UnionParentClass_ncal:attach_ID_ID" ON "ncal:UnionParentClass_ncal:attach" (ID, "ncal:attach");
CREATE UNIQUE INDEX "ncal:UnionParentClass_ncal:attendee_ID_ID" ON "ncal:UnionParentClass_ncal:attendee" (ID, "ncal:attendee");
CREATE UNIQUE INDEX "ncal:UnionParentClass_ncal:categories_ID_ID" ON "ncal:UnionParentClass_ncal:categories" (ID, "ncal:categories");
CREATE UNIQUE INDEX "ncal:UnionParentClass_ncal:exdate_ID_ID" ON "ncal:UnionParentClass_ncal:exdate" (ID, "ncal:exdate");
CREATE UNIQUE INDEX "ncal:UnionParentClass_ncal:exrule_ID_ID" ON "ncal:UnionParentClass_ncal:exrule" (ID, "ncal:exrule");
CREATE UNIQUE INDEX "ncal:UnionParentClass_ncal:hasAlarm_ID_ID" ON "ncal:UnionParentClass_ncal:hasAlarm" (ID, "ncal:hasAlarm");
CREATE UNIQUE INDEX "ncal:UnionParentClass_ncal:ncalRelation_ID_ID" ON "ncal:UnionParentClass_ncal:ncalRelation" (ID, "ncal:ncalRelation");
CREATE UNIQUE INDEX "ncal:UnionParentClass_ncal:rdate_ID_ID" ON "ncal:UnionParentClass_ncal:rdate" (ID, "ncal:rdate");
CREATE UNIQUE INDEX "ncal:UnionParentClass_ncal:relatedToChild_ID_ID" ON "ncal:UnionParentClass_ncal:relatedToChild" (ID, "ncal:relatedToChild");
CREATE UNIQUE INDEX "ncal:UnionParentClass_ncal:relatedToParent_ID_ID" ON "ncal:UnionParentClass_ncal:relatedToParent" (ID, "ncal:relatedToParent");
CREATE UNIQUE INDEX "ncal:UnionParentClass_ncal:resources_ID_ID" ON "ncal:UnionParentClass_ncal:resources" (ID, "ncal:resources");
CREATE UNIQUE INDEX "ncal:UnionParentClass_ncal:rrule_ID_ID" ON "ncal:UnionParentClass_ncal:rrule" (ID, "ncal:rrule");
CREATE UNIQUE INDEX "nco:Affiliation_nco:title_ID_ID" ON "nco:Affiliation_nco:title" (ID, "nco:title");
CREATE UNIQUE INDEX "nco:ContactList_nco:containsContact_ID_ID" ON "nco:ContactList_nco:containsContact" (ID, "nco:containsContact");
CREATE UNIQUE INDEX "nco:Contact_ncal:anniversary_ID_ID" ON "nco:Contact_ncal:anniversary" (ID, "ncal:anniversary");
CREATE UNIQUE INDEX "nco:Contact_ncal:birthday_ID_ID" ON "nco:Contact_ncal:birthday" (ID, "ncal:birthday");
CREATE UNIQUE INDEX "nfo:Image_nfo:depicts_ID_ID" ON "nfo:Image_nfo:depicts" (ID, "nfo:depicts");
CREATE UNIQUE INDEX "nfo:Image_nfo:hasRegionOfInterest_ID_ID" ON "nfo:Image_nfo:hasRegionOfInterest" (ID, "nfo:hasRegionOfInterest");
CREATE UNIQUE INDEX "nfo:MediaList_nfo:hasMediaFileListEntry_ID_ID" ON "nfo:MediaList_nfo:hasMediaFileListEntry" (ID, "nfo:hasMediaFileListEntry");
CREATE UNIQUE INDEX "nfo:MediaList_nfo:mediaListEntry_ID_ID" ON "nfo:MediaList_nfo:mediaListEntry" (ID, "nfo:mediaListEntry");
CREATE UNIQUE INDEX "nfo:Media_mtp:hidden_ID_ID" ON "nfo:Media_mtp:hidden" (ID, "mtp:hidden");
CREATE UNIQUE INDEX "nfo:Media_nmm:alternativeMedia_ID_ID" ON "nfo:Media_nmm:alternativeMedia" (ID, "nmm:alternativeMedia");
CREATE INDEX "nfo:Visual_nie:contentCreated" ON "nfo:Visual" ("nie:contentCreated");
CREATE UNIQUE INDEX "nid3:ID3Audio_nid3:leadArtist_ID_ID" ON "nid3:ID3Audio_nid3:leadArtist" (ID, "nid3:leadArtist");
CREATE UNIQUE INDEX "nie:DataObject_nie:dataSource_ID_ID" ON "nie:DataObject_nie:dataSource" (ID, "nie:dataSource");
CREATE UNIQUE INDEX "nie:DataObject_nie:isPartOf_ID_ID" ON "nie:DataObject_nie:isPartOf" (ID, "nie:isPartOf");
CREATE INDEX "nie:DataObject_nie:url" ON "nie:DataObject" ("nie:url");
CREATE INDEX "nie:InformationElement_mlo:location_ID" ON "nie:InformationElement_mlo:location" (ID);
CREATE UNIQUE INDEX "nie:InformationElement_mlo:location_ID_ID" ON "nie:InformationElement_mlo:location" ("mlo:location", ID);
CREATE UNIQUE INDEX "nie:InformationElement_nao:hasProperty_ID_ID" ON "nie:InformationElement_nao:hasProperty" (ID, "nao:hasProperty");
CREATE UNIQUE INDEX "nie:InformationElement_nco:contributor_ID_ID" ON "nie:InformationElement_nco:contributor" (ID, "nco:contributor");
CREATE UNIQUE INDEX "nie:InformationElement_nco:creator_ID_ID" ON "nie:InformationElement_nco:creator" (ID, "nco:creator");
CREATE UNIQUE INDEX "nie:InformationElement_nie:hasLogicalPart_ID_ID" ON "nie:InformationElement_nie:hasLogicalPart" (ID, "nie:hasLogicalPart");
CREATE UNIQUE INDEX "nie:InformationElement_nie:hasPart_ID_ID" ON "nie:InformationElement_nie:hasPart" (ID, "nie:hasPart");
CREATE UNIQUE INDEX "nie:InformationElement_nie:informationElementDate_ID_ID" ON "nie:InformationElement_nie:informationElementDate" (ID, "nie:informationElementDate");
CREATE UNIQUE INDEX "nie:InformationElement_nie:isLogicalPartOf_ID_ID" ON "nie:InformationElement_nie:isLogicalPartOf" (ID, "nie:isLogicalPartOf");
CREATE UNIQUE INDEX "nie:InformationElement_nie:keyword_ID_ID" ON "nie:InformationElement_nie:keyword" (ID, "nie:keyword");
CREATE UNIQUE INDEX "nie:InformationElement_nie:relatedTo_ID_ID" ON...
"nie:InformationElement_nie:relatedTo" (ID, "nie:relatedTo");
CREATE INDEX "nie:InformationElement_slo:location" ON
"nie:InformationElement" ("slo:location");
CREATE INDEX "nmnm:Artist_nmm:artistName" ON "nmnm:Artist" ("nmnm:artistName");
CREATE INDEX "nmnm:MusicAlbum_niem:title" ON "nmnm:MusicAlbum" ("nie:title");
CREATE UNIQUE INDEX "nmnm:MusicAlbum_nmm:albumArtist_ID_ID" ON
"nmnm:MusicAlbum_nmm:albumArtist" (ID, "nmnm:albumArtist");
CREATE INDEX "nmnm:MusicPiece_niem:title" ON "nmnm:MusicPiece" ("nie:title");
CREATE UNIQUE INDEX "nmnm:MusicPiece_nmm:lyrics_ID_ID" ON
"nmnm:MusicPiece_nmm:lyrics" (ID, "nmnm:lyrics");
CREATE INDEX "nmnm:MusicPiece_nmm:album" ON "nmnm:MusicPiece"
("nmnm:album");
CREATE INDEX "nmnm:MusicPiece_nmm:performer" ON "nmnm:MusicPiece"
("nmnm:performer");
CREATE UNIQUE INDEX "nmnm:RadioStation_nmm:carrier_ID_ID" ON
"nmnm:RadioStation_nmm:carrier" (ID, "nmnm:carrier");
CREATE UNIQUE INDEX "nmnm:Video_mtp:scantype_ID_ID" ON
"nmnm:Video_mtp:scantype" (ID, "mtp:scantype");
CREATE UNIQUE INDEX "nmnm:Video_nmm:director_ID_ID" ON
"nmnm:Video_nmm:director" (ID, "nmnm:director");
CREATE UNIQUE INDEX "nmnm:Video_nmm:leadActor_ID_ID" ON
"nmnm:Video_nmm:leadActor" (ID, "nmnm:leadActor");
CREATE UNIQUE INDEX "nmnm:Video_nmm:subtitle_ID_ID" ON
"nmnm:Video_nmm:subtitle" (ID, "nmnm:subtitle");
CREATE INDEX "nmno:Call_nmno:sentDate" ON "nmno:Call" ("nmno:sentDate");
CREATE INDEX "nmno:CommunicationChannel_nmno:hasParticipant_ID" ON
"nmno:CommunicationChannel_nmno:hasParticipant" (ID);
CREATE UNIQUE INDEX
"nmno:CommunicationChannel_nmno:hasParticipant_ID_ID" ON
"nmno:CommunicationChannel_nmno:hasParticipant" ("nmno:hasParticipant", ID);
CREATE INDEX "nmno:CommunicationChannel_nmno:lastMessageDate" ON
"nmno:CommunicationChannel" ("nmno:lastMessageDate");
CREATE UNIQUE INDEX "nmno:Email_nmno:contentMimeType_ID_ID" ON
"nmno:Email_nmno:contentMimeType" (ID, "nmno:contentMimeType");
CREATE UNIQUE INDEX "nmno:Message_nmno:bcc_ID_ID" ON
"nmno:Message_nmno:bcc" (ID, "nmno:bcc");
CREATE UNIQUE INDEX "nmno:Message_nmno:cc_ID_ID" ON "nmno:Message_nmno:cc"
(ID, "nmno:cc");
CREATE INDEX "nmno:Message_nmno:communicationChannel" ON "nmno:Message"
("nmno:communicationChannel", "nmno:receivedDate");
CREATE INDEX "nmno:Message_nmno:conversation" ON "nmno:Message"
("nmno:conversation");
CREATE INDEX "nmno:Message_nmno:from" ON "nmno:Message" ("nmno:from");
CREATE UNIQUE INDEX "nmno:Message_nmno:hasAttachment_ID_ID" ON
"nmno:Message_nmno:hasAttachment" (ID, "nmno:hasAttachment");
CREATE UNIQUE INDEX "nmno:Message_nmno:inReplyTo_ID_ID" ON
"nmno:Message_nmno:inReplyTo" (ID, "nmno:inReplyTo");
CREATE UNIQUE INDEX "nmo:Message_nmo:messageHeader_ID_ID" ON "nmo:Message_nmo:messageHeader" (ID, "nmo:messageHeader");
CREATE UNIQUE INDEX "nmo:Message_nmo:recipient_ID_ID" ON "nmo:Message_nmo:recipient" (ID, "nmo:recipient");
CREATE UNIQUE INDEX "nmo:Message_nmo:references_ID_ID" ON "nmo:Message_nmo:references" (ID, "nmo:references");
CREATE INDEX "nmo:Message_nmo:sender" ON "nmo:Message" ("nmo:sender");
CREATE INDEX "nmo:Message_nmo:sentDate" ON "nmo:Message" ("nmo:sentDate");
CREATE INDEX "nmo:Message_nmo:to_ID" ON "nmo:Message_nmo:to" (ID);
CREATE UNIQUE INDEX "nmo:Message_nmo:to_ID_ID" ON "nmo:Message_nmo:to" ("nmo:to", ID);
CREATE UNIQUE INDEX "nmo:MimePart_nmo:mimeHeader_ID_ID" ON "nmo:MimePart_nmo:mimeHeader" (ID, "nmo:mimeHeader");
CREATE UNIQUE INDEX "nmo:Multipart_nmo:partBoundary_ID_ID" ON "nmo:Multipart_nmo:partBoundary" (ID, "nmo:partBoundary");
CREATE UNIQUE INDEX "nmo:PhoneMessageFolder_nmo:containsPhoneMessageFolder_ID_ID" ON "nmo:PhoneMessageFolder_nmo:containsPhoneMessageFolder" (ID, "nmo:containsPhoneMessageFolder");
CREATE UNIQUE INDEX "nmo:PhoneMessageFolder_nmo:containsPhoneMessage_ID_ID" ON "nmo:PhoneMessageFolder_nmo:containsPhoneMessage" (ID, "nmo:containsPhoneMessage");
CREATE UNIQUE INDEX "nmo:PhoneMessage_nmo:toVCard_ID_ID" ON "nmo:PhoneMessage_nmo:toVCard" (ID, "nmo:toVCard");
CREATE UNIQUE INDEX "rdfs:Property_rdfs:subPropertyOf_ID_ID" ON "rdfs:Property_rdfs:subPropertyOf" (ID, "rdfs:subPropertyOf");
CREATE UNIQUE INDEX "rdfs:Class_rdfs:subClassOf_ID_ID" ON "rdfs:Class_rdfs:subClassOf" (ID, "rdfs:subClassOf");
CREATE UNIQUE INDEX "rdfs:Class_tracker:domainIndex_ID_ID" ON "rdfs:Class_tracker:domainIndex" (ID, "tracker:domainIndex");
CREATE UNIQUE INDEX "rdfs:Resource_dc:contributor_ID_ID" ON "rdfs:Resource_dc:contributor" (ID, "dc:contributor");
CREATE UNIQUE INDEX "rdfs:Resource_dc:date_ID_ID" ON "rdfs:Resource_dc:date" (ID, "dc:date");
CREATE UNIQUE INDEX "rdfs:Resource_nao:deprecated_ID_ID" ON "rdfs:Resource_nao:deprecated" (ID, "nao:deprecated");
CREATE INDEX "rdfs:Resource_nao:hasTag_ID" ON "rdfs:Resource_nao:hasTag" (ID);
CREATE UNIQUE INDEX "rdfs:Resource_nao:hasTag_ID_ID" ON "rdfs:Resource_nao:hasTag" ("nao:hasTag", ID);
CREATE UNIQUE INDEX "rdfs:Resource_nao:isRelated_ID_ID" ON "rdfs:Resource_nao:isRelated" (ID, "nao:isRelated");
CREATE UNIQUE INDEX "rdfs:Resource_rdf:type_ID_ID" ON "rdfs:Resource_rdf:type" (ID, "rdf:type");
CREATE INDEX "rdfs:Resource_tracker:added" ON "rdfs:Resource" ("tracker:added");
CREATE UNIQUE INDEX "scal:Attendee_scal:delegated-from_ID_ID" ON 
"scal:Attendee_scal:delegated-from" (ID, "scal:delegated-from");
CREATE UNIQUE INDEX "scal:Attendee_scal:delegated-to_ID_ID" ON 
"scal:Attendee_scal:delegated-to" (ID, "scal:delegated-to");
CREATE UNIQUE INDEX "scal:Attendee_scal:member_ID_ID" ON 
"scal:Attendee_scal:member" (ID, "scal:member");
CREATE UNIQUE INDEX "scal:Attendee_scal:sent-by_ID_ID" ON 
"scal:Attendee_scal:sent-by" (ID, "scal:sent-by");
CREATE UNIQUE INDEX "scal:CalendarAlarm_scal:alarmAttendee_ID_ID" ON 
"scal:CalendarAlarm_scal:alarmAttendee" (ID, "scal:alarmAttendee");
CREATE UNIQUE INDEX "scal:CalendarItem_scal:access_ID_ID" ON 
"scal:CalendarItem_scal:access" (ID, "scal:access");
CREATE UNIQUE INDEX "scal:CalendarItem_scal:attachment_ID_ID" ON 
"scal:CalendarItem_scal:attachment" (ID, "scal:attachment");
CREATE UNIQUE INDEX "scal:CalendarItem_scal:attendee_ID_ID" ON 
"scal:CalendarItem_scal:attendee" (ID, "scal:attendee");
CREATE UNIQUE INDEX "scal:CalendarItem_scal:belongsToCalendar_ID_ID" ON 
"scal:CalendarItem_scal:belongsToCalendar" (ID, "scal:belongsToCalendar");
CREATE UNIQUE INDEX "scal:CalendarItem_scal:contact_ID_ID" ON 
"scal:CalendarItem_scal:contact" (ID, "scal:contact");
CREATE UNIQUE INDEX "scal:CalendarItem_scal:rrule_ID_ID" ON 
"scal:CalendarItem_scal:rrule" (ID, "scal:rrule");
CREATE INDEX "slo:GeoLocation_slo:postalAddress" ON "slo:GeoLocation" 
("slo:postalAddress");
CREATE UNIQUE INDEX "slo:Landmark_slo:belongsToCategory_ID_ID" ON 
"slo:Landmark_slo:belongsToCategory" (ID, "slo:belongsToCategory");
CREATE UNIQUE INDEX "slo:Route_slo:routeDetails_ID_ID" ON 
"slo:Route_slo:routeDetails" (ID, "slo:routeDetails");

EXPLAIN SELECT "1_u", (SELECT "nco:fullname" FROM "nco:Contact" WHERE ID = "1_u") COLLATE NOCASE, (SELECT "nco:nameFamily" FROM "nco:PersonContact" WHERE ID = "1_u") COLLATE NOCASE, (SELECT "nco:nameGiven" FROM "nco:PersonContact" WHERE ID = "1_u") COLLATE NOCASE, (SELECT "nco:nameAdditional" FROM "nco:PersonContact" WHERE ID = "1_u") COLLATE NOCASE, (SELECT "nco:nameHonorificPrefix" FROM "nco:PersonContact" WHERE ID = "1_u") COLLATE NOCASE, (SELECT "nco:nameHonorificSuffix" FROM "nco:PersonContact" WHERE ID = "1_u") COLLATE NOCASE, strftime("%s",(SELECT "nco:birthDate" FROM "nco:Contact" WHERE ID = "1_u")), (SELECT "nie:url" FROM "nie:DataObject" WHERE ID = (SELECT "nco:photo" FROM "nco:Contact" WHERE ID = "1_u")) COLLATE NOCASE, GROUP_CONCAT("2_u"||? COLLATE NOCASE||COALESCE((SELECT...))

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Open Source Used In Cisco VSM 7.14.2 21366
"nco:imProtocol" FROM "nco:IMAddress" WHERE ID = "3_u") COLLATE NOCASE, ? COLLATE NOCASE)|? COLLATE NOCASE|COALESCE((SELECT "nco:imID" FROM "nco:IMAddress" WHERE ID = "3_u") COLLATE NOCASE, ? COLLATE NOCASE)|? COLLATE NOCASE|COALESCE((SELECT "nco:imNickname" FROM "nco:IMAddress" WHERE ID = "3_u") COLLATE NOCASE, ? COLLATE NOCASE), 'n') FROM (SELECT "nco:PersonContact_nco:hasAffiliation2"."nco:hasAffiliation" AS "2_u","nco:Role_nco:hasIMAddress3"."nco:hasIMAddress" AS "3_u" FROM "nco:PersonContact_nco:hasAffiliation" AS "nco:PersonContact_nco:hasAffiliation2","nco:Role_nco:hasIMAddress3" WHERE "1_u" = "nco:PersonContact_nco:hasAffiliation2"."ID" AND "nco:PersonContact_nco:hasAffiliation2"."nco:hasAffiliation" = "nco:Role_nco:hasIMAddress3"."ID"),(SELECT GROUP_CONCAT("2_u")? COLLATE NOCASE|SELECT "nco:phoneNumber" FROM "nco:PhoneNumber" WHERE ID = "4_u") COLLATE NOCASE, 'n') FROM (SELECT "nco:PersonContact_nco:hasAffiliation4"."nco:hasAffiliation" AS "2_u","nco:Role_nco:hasPhoneNumber5"."nco:hasPhoneNumber" AS "4_u" FROM "nco:PersonContact_nco:hasAffiliation" AS "nco:PersonContact_nco:hasAffiliation4","nco:Role_nco:hasPhoneNumber5" WHERE "1_u" = "nco:PersonContact_nco:hasAffiliation4"."ID" AND "nco:PersonContact_nco:hasAffiliation4"."nco:hasAffiliation" = "nco:Role_nco:hasPhoneNumber5"."ID"),(SELECT GROUP_CONCAT("2_u")? COLLATE NOCASE|SELECT "nco:emailAddress" FROM "nco:EmailAddress" WHERE ID = "5_u") COLLATE NOCASE, ',') FROM (SELECT "nco:PersonContact_nco:hasAffiliation6"."nco:hasAffiliation" AS "2_u","nco:Role_nco:hasEmailAddress7"."nco:hasEmailAddress" AS "5_u" FROM "nco:PersonContact_nco:hasAffiliation" AS "nco:PersonContact_nco:hasAffiliation6", "nco:Role_nco:hasEmailAddress7" WHERE "1_u" = "nco:PersonContact_nco:hasAffiliation6"."ID" AND "nco:PersonContact_nco:hasAffiliation6"."nco:hasAffiliation" = "nco:Role_nco:hasEmailAddress7"."ID"),(SELECT GROUP_CONCAT("2_u")? COLLATE NOCASE|COALESCE((SELECT GROUP_CONCAT(SELECT Uri FROM Resource WHERE ID = "nco:blogUrl"),',') FROM "nco:Role_nco:blogUrl" WHERE ID = "2_u"), ? COLLATE NOCASE)|? COLLATE NOCASE|COALESCE((SELECT GROUP_CONCAT(SELECT Uri FROM Resource WHERE ID = "nco:websiteUrl"),',') FROM "nco:Role_nco:websiteUrl" WHERE ID = "2_u"), ? COLLATE NOCASE)|? COLLATE NOCASE|COALESCE((SELECT GROUP_CONCAT(SELECT Uri FROM Resource WHERE ID = "nco:url"),',') FROM "nco:Role_nco:url" WHERE ID = "2_u"), ? COLLATE NOCASE), 'n') FROM (SELECT "nco:PersonContact_nco:hasAffiliation8"."nco:hasAffiliation" AS "2_u" FROM "nco:PersonContact_nco:hasAffiliation8" WHERE "1_u" = "nco:PersonContact_nco:hasAffiliation8"."ID"),(SELECT
GROUP_CONCAT("6_u", ',') FROM (SELECT
"rdfs:Resource_nao:hasTag9","nao:hasTag" AS "6_u" FROM
"rdfs:Resource_nao:hasTag" AS "rdfs:Resource_nao:hasTag9" WHERE
"1_u" = "rdfs:Resource_nao:hasTag9"."ID"), (SELECT Uri FROM
Resource WHERE ID = "1_u"), (SELECT GROUP_CONCAT("2_u"||?) COLLATE
NOCASE||COALESCE((SELECT "nco:role" FROM "nco:Affiliation" WHERE
ID = "2_u") COLLATE NOCASE, ? COLLATE NOCASE)||? COLLATE
NOCASE||COALESCE((SELECT "nco:department" FROM "nco:Affiliation"
WHERE ID = "2_u") COLLATE NOCASE, ? COLLATE NOCASE)||? COLLATE
NOCASE||COALESCE((SELECT GROUP_CONCAT("nco:title"||? ) FROM
"nco:Affiliation_nco:title" WHERE ID = "2_u"), ? COLLATE NOCASE),
'\n') FROM (SELECT
"nco:PersonContact_nco:hasAffiliation10","nco:hasAffiliation" AS
"2_u" FROM "nco:PersonContact_nco:hasAffiliation" AS
"nco:PersonContact_nco:hasAffiliation10" WHERE "1_u" =
"nco:PersonContact_nco:hasAffiliation10"."ID"), (SELECT
GROUP_CONCAT("nco:note",',') FROM "nco:Contact_nco:note" WHERE ID =
"1_u"), (SELECT GROUP_CONCAT("2_u"||?) COLLATE
NOCASE||COALESCE((SELECT "nco:pobox" FROM "nco:PostalAddress"
WHERE ID = "7_u") COLLATE NOCASE, ? COLLATE NOCASE)||? COLLATE
NOCASE||COALESCE((SELECT "nco:district" FROM "nco:PostalAddress"
WHERE ID = "7_u") COLLATE NOCASE, ? COLLATE NOCASE)||? COLLATE
NOCASE||COALESCE((SELECT "nco:country" FROM "nco:PostalAddress"
WHERE ID = "7_u") COLLATE NOCASE, ? COLLATE NOCASE)||? COLLATE
NOCASE||COALESCE((SELECT "nco:addressLocation" FROM "nco:PostalAddress"
WHERE ID = (SELECT "nco:addressLocation" FROM
"nco:PostalAddress" WHERE ID = "7_u"), ? COLLATE NOCASE)||? COLLATE
NOCASE||COALESCE((SELECT "nco:streetAddress" FROM "nco:PostalAddress"
WHERE ID = "7_u") COLLATE NOCASE, ? COLLATE NOCASE)||? COLLATE
NOCASE||COALESCE((SELECT "nco:postalcode" FROM "nco:PostalAddress"
WHERE ID = "7_u") COLLATE NOCASE, ? COLLATE NOCASE)||? COLLATE
NOCASE||COALESCE((SELECT "nco:country" FROM "nco:PostalAddress"
WHERE ID = "7_u") COLLATE NOCASE, ? COLLATE NOCASE)||? COLLATE
NOCASE||COALESCE((SELECT Uri FROM
Resource WHERE ID = (SELECT "nco:addressLocation" FROM
"nco:PostalAddress" WHERE ID = "7_u"), ? COLLATE NOCASE)||? COLLATE
NOCASE||COALESCE((SELECT "nco:extendedAddress" FROM "nco:PostalAddress"
WHERE ID = "7_u") COLLATE NOCASE, ? COLLATE NOCASE)||? COLLATE
NOCASE||COALESCE((SELECT "nco:country" FROM "nco:PostalAddress"
WHERE ID = "7_u") COLLATE NOCASE, ? COLLATE NOCASE)||? COLLATE
NOCASE||COALESCE((SELECT "nco:region" FROM "nco:PostalAddress"
WHERE ID = "7_u") COLLATE NOCASE, ? COLLATE NOCASE), '\n') FROM (SELECT
"nco:PersonContact_nco:hasAffiliation11","nco:hasAffiliation" AS
"2_u", "nco:Role_nco:hasPostalAddress12","nco:hasPostalAddress"
AS "7_u" FROM "nco:PersonContact_nco:hasAffiliation" AS
"nco:PersonContact_nco:hasAffiliation11", "nco:Role_nco:hasPostalAddress" AS
"nco:Role_nco:hasPostalAddress12" WHERE "1_u" =
"nco:PersonContact_nco:hasAffiliation11"."ID" AND

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Open Source Used In Cisco VSM 7.14.2 21368
"nco:PersonContact_nco:hasAffiliation11","nco:hasAffiliation" =
"nco:Role_nco:hasPostalAddress12","ID"), (SELECT
GROUP_CONCAT("10_u" COLLATE NOCASE, ',') FROM (SELECT
"nie:InformationElement_nao:hasProperty13","nao:hasProperty" AS
"8_u", "nao:Property14","nao:propertyName" AS "9_u",
"nao:Property14","nao:propertyValue" AS "10_u" FROM
"nie:InformationElement_nao:hasProperty" AS
"nie:InformationElement_nao:hasProperty13","nao:Property" AS
"nauo:Property14" WHERE "1_u" =
"nie:InformationElement_nao:hasProperty13","ID" AND
"nie:InformationElement_nao:hasProperty13","nauo:hasProperty" =
"nauo:Property14"."ID" AND "9_u" IS NOT NULL AND "10_u" IS NOT
NULL AND ("9_u" COLLATE NOCASE = ? COLLATE NOCASE)) FROM (SELECT
"nco:PersonContact1","ID" AS "1_u" FROM "nco:PersonContact" AS
"nco:PersonContact1") ORDER BY "1_u";

} */ Goto */


finish_test

Found in path(s):
No license file was found, but licenses were detected in source scan.

<a href="copyright.html">public domain</a> and so many groups use SQLite

Found in path(s):
No license file was found, but licenses were detected in source scan.

application code is free to use these routines as well, if desired.

Found in path(s):
* /opt/cola/permits/1103884711_1604400914.82/0/sqlite-3.7.17-8.el7_7-1-1.src.rpm-cosi-expand-archive- COIo1yr4/sqlite-doc-3071700.zip-cosi-expand-archive-Z5Qn1wNN/sqlite-doc-3071700/34to35.html
No license file was found, but licenses were detected in source scan.

without a shared lock, other processes are free to modify the database

Found in path(s):
No license file was found, but licenses were detected in source scan.

is free to use SQLite from multiple threads, but it must make sure
Suppose the demo_data.boundary field holds some proprietary data description

SQLite is open source, and is available in the public domain

SQLite is high-quality, public domain software. The goal of members can also request their own private, proprietary extensions

/*
 ** 2004 May 22
 **
 ** The author disclaims copyright to this source code. In place of
** a legal notice, here is a blessing:
**
** May you do good and not evil.
** May you find forgiveness for yourself and forgive others.
** May you share freely, never taking more than you give.
**
******************************************************************************
**
** This file contains the VFS implementation for unix-like operating systems
** include Linux, MacOSX, *BSD, QNX, VxWorks, AIX, HPUX, and others.
**
** There are actually several different VFS implementations in this file.
** The differences are in the way that file locking is done. The default
** implementation uses Posix Advisory Locks. Alternative implementations
** use flock(), dot-files, various proprietary locking schemas, or simply
** skip locking all together.
**
** This source file is organized into divisions where the logic for various
** subfunctions is contained within the appropriate division. PLEASE
** KEEP THE STRUCTURE OF THIS FILE INTACT. New code should be placed
** in the correct division and should be clearly labeled.
**
** The layout of divisions is as follows:
**
**  * General-purpose declarations and utility functions.
**  * Unique file ID logic used by VxWorks.
**  * Various locking primitive implementations (all except proxy locking):
**    + for Posix Advisory Locks
**    + for no-op locks
**    + for dot-file locks
**    + for flock() locking
**    + for named semaphore locks (VxWorks only)
**    + for AFP filesystem locks (MacOSX only)
**    * sqlite3_file methods not associated with locking.
**    * Definitions of sqlite3_io_methods objects for all locking
**      methods plus "finder" functions for each locking method.
**    * sqlite3_vfs method implementations.
**    * Locking primitives for the proxy uber-locking-method. (MacOSX only)
**    * Definitions of sqlite3_vfs objects for all locking methods
**      plus implementations of sqlite3_os_init() and sqlite3_os_end().
**
*/

Found in path(s):
No license file was found, but licenses were detected in source scan.

2.31 0
application is free to use the same database connection or the

SQLite core and like the SQLite core are in the public domain. The
proprietary, licensed extensions to SQLite, written and maintained
You are welcomed to use SQLite in closed source, proprietary, and/or

You are welcomed to use SQLite in closed source, proprietary, and/or

The <b><a href="th3.html">TH3</a></b> test harness is a set of proprietary tests, written in

# 2006 September 14
#
# The author disclaims copyright to this source code. In place of
# a legal notice, here is a blessing:
# #   May you do good and not evil.
# #   May you find forgiveness for yourself and forgive others.
# #   May you share freely, never taking more than you give.
#*****************************************************************************
# This file implements regression tests for SQLite library. The
# focus of this script is testing the FTS3 module.
#
# $Id: fts3ac.test,v 1.1 2007/08/20 17:38:42 shess Exp $
#
set testdir [file dirname $argv0]
source $testdir/tester.tcl

# If SQLITE_ENABLE_FTS3 is defined, omit this file.
if capable !fts3 {
    finish_test
    return
}

# Create a table of sample email data. The data comes from email
# archives of Enron executives that was published as part of the
# litigation against that company.
#
# do_test fts3ac-1.1 {
# db eval {
    CREATE VIRTUAL TABLE email USING fts3([from],[to],subject,body);
    BEGIN TRANSACTION;
    INSERT INTO email([from],[to],subject,body) VALUES('savita.puthigai@enron.com', 'traders.eol@enron.com,' 'traders.eol@enron.com', 'EnronOnline- Change to Autohedge', 'Effective Monday, October 22, 2001 the following changes will be made to the Autohedge functionality on EnronOnline.

The volume on the hedge will now respect the minimum volume and volume increment settings on the parent product. See rules below:

?If the transaction volume on the child is less than half of the parent’s minimum volume no hedge will occur.
?If the transaction volume on the child is more than half the parent’s minimum volume but less than half the volume increment on the parent, the hedge will volume will be the parent’s minimum volume.
?For all other volumes, the same rounding rules will apply based on the volume increment on the parent product.

Please see example below:

Parent’s Settings:
Minimum: 5000
Increment: 1000

Volume on Autohedge transaction

Volume Hedged

0 - 54995000
5500 - 64996000)

INSERT INTO email([from],[to],subject,body) VALUES('dana.davis@enron.com', 'laynie.east@enron.com,
lisa.king@enron.com, lisa.best@enron.com.', 'Leaving Early', 'FYI:
If it’s ok with everyone’s needs, I would like to leave @4pm. If you think
you will need my assistance past the 4 o’clock hour just let me know; I’ll
be more than willing to stay.‘);

INSERT INTO email([from],[to],subject,body) VALUES('enron_update@concureworkplace.com',
louise.kitchen@enron.com', ‘<<Concur Expense Document>> - CC02.06.02’, 'The following expense report is ready for approval:

Employee Name: Christopher F. Calger
Status last changed by: Mollie E. Gustafson Ms
Expense Report Name: CC02.06.02
Report Total: $3,972.93
Amount Due Employee: $3,972.93

To approve this expense report, click on the following link for Concur Expense.
http://expensexms.enron.com’);

INSERT INTO email([from],[to],subject,body) VALUES('jeff.duff@enron.com', 'julie.johnson@enron.com', 'Work request', 'Julie,
Could you print off the current work request report by 1:30 today?

Gentlemen,

I’d like to review this today at 1:30 in our office. Also, could you provide me with your activity reports so I can have Julie enter this information.

JD’);

INSERT INTO email([from],[to],subject,body) VALUES('v.weldon@enron.com', 'gary.l.carrier@usa.dupont.com,
scott.joyce@bankofamerica.com', 'Enron News', 'This could turn into something big....
http://biz.yahoo.com/rf/010129/n29305829.html');

INSERT INTO email([from],[to],subject,body) VALUES('mark.haedicke@enron.com', 'paul.simons@enron.com',
'Re: First Polish Deal!’, 'Congrats! Things seem to be building rapidly now on the Continent. Mark’);

INSERT INTO email([from],[to],subject,body) VALUES('e..carter@enron.com', 't..robinson@enron.com', 'FW: Producers Newsletter 9-24-2001’,
The producer lumber pricing sheet.
-----Original Message-----
From: Johnson, Jay
Sent:Tuesday, October 16, 2001 3:42 PM
To:Carter, Karen E.
Subject:FW: Producers Newsletter 9-24-2001

-----Original Message-----
From: Daigre, Sergai
Sent:Friday, September 21, 2001 8:33 PM
Subject:Producers Newsletter 9-24-2001
I spoke to Max and he agrees with this approach.

I hope this meets with your approval.

Regards
Delainey');

Here is the original memo we discussed earlier. Please provide any information that you may have.

Your cooperation is greatly appreciated.

Thanks,

lachandra.fenceroy@enron.com
713.853.3884
877.498.3401 Pager

-----Original Message-----
From: Bisbee, Joanne
Sent: Wednesday, September 26, 2001 7:50 AM
To: Fenceroy, LaChandra
Subject: FW: Bus Applications Meeting Follow Up

Lachandra, Please get with David Duff today and see what this is about. Who are our TW accounting business users?

-----Original Message-----
From: Koh, Wendy
Sent: Tuesday, September 25, 2001 2:41 PM
To: Bisbee, Joanne
Subject: Bus Applications Meeting Follow Up

Lisa brought up a TW change effective Nov 1. It involves eliminating a turnback surcharge. I have no other information, but you might check with the business folks for any system changes required.

Wendy');
If Julie’s merit needs to be lump sum, just move it over to that column. Also, send me Eric Gadd’s sheets as well. Thanks.

Dan

-----Original Message-----
From: Fagan, Fran
Sent: Thursday, December 20, 2001 11:10 AM
To: McCarty, Danny
Subject: worksheets

As discussed, attached are your sheets for bonus and merit.

Thanks,

Fran Fagan
Sr. HR Rep
713.853.5219

<< File: McCartyMerit.xls >> << File: mccartyBonusCommercial_UnP.xls >>

');

INSERT INTO email([from],[to],subject,body) VALUES('bert.meyers@enron.com', 'shift.dl-Portland@enron.com', 'OCTOBER SCHEDULE', 'TEAM,

PLEASE SEND ME ANY REQUESTS THAT YOU HAVE FOR OCTOBER. SO FAR I HAVE THEM FOR LEAF. I WOULD LIKE TO HAVE IT DONE BY THE 15TH OF THE MONTH. ANY QUESTIONS PLEASE GIVE ME A CALL.

BERT);

INSERT INTO email([from],[to],subject,body) VALUES('errol.mclaughlin@enron.com', 'john.arnold@enron.com, bilal.bajwa@enron.com, john.griffith@enron.com', 'TRV Notification: (NG - PROPT P/L - 09/27/2001)', 'The report named: NG - PROPT P/L <http://trv.corp.enron.com/linkFromExcel.asp?report_cd=11&report_name=NG+PROPT+P/L&category_cd=5&category_name=FINANCIAL&toc_hide=1&sTV1=5&TV1Exp=Y&current_efct_date=09/27/2001>, published as of 09/27/2001 is now available for viewing on the website.');

INSERT INTO email([from],[to],subject,body) VALUES('patrice.mims@enron.com', 'calvin.eakins@enron.com', 'Re: Small business supply assistance', 'Hi Calvin
I spoke with Rickey (boy, is he long-winded!!). Gave him the name of our credit guy, Russell Diamond.

Thank for your help!');

INSERT INTO email([from],[to],subject,body) VALUES('legal <.hall@enron.com>', 'stephanie.panus@enron.com', 'Termination update', 'City of Vernon and Salt River Project terminated their contracts. I will fax these notices to you.);

INSERT INTO email([from],[to],subject,body) VALUES('d..steffes@enron.com', 'richard.shapiro@enron.com', 'EES / ENA Government Affairs Staffing & Outside Services', 'Rick --
Here is the information on staffing and outside services. Call if you need anything else.

Jim

');
INSERT INTO email([from],[to],subject,body) VALUES('gelliott@industrialinfo.com', 'pcopello@industrialinfo.com', 'ECAAR (Gavin), WSCC (Diablo Canyon), & NPCC (Seabrook)', 'Dear Power Outage Database Customer,
Attached you will find an excel document. The outages contained within are forced or rescheduled outages. Your daily delivery will still contain these outages.
In addition to the two excel documents, there is a dbf file that is formatted like your daily deliveries you receive nightly. This will enable you to load the data into your regular database. Any questions please let me know. Thanks.
Greg Elliott
IIR, Inc.
713-783-5147 x 3481
outages@industrialinfo.com
THE INFORMATION CONTAINED IN THIS E-MAIL IS LEGALLY PRIVILEGED AND CONFIDENTIAL INFORMATION INTENDED ONLY FOR THE USE OF THE INDIVIDUAL OR ENTITY NAMED ABOVE. YOU ARE HEREBY NOTIFIED THAT ANY DISSEMINATION, DISTRIBUTION, OR COPY OF THIS E-MAIL TO UNAUTHORIZED ENTITIES IS STRICTLY PROHIBITED. IF YOU HAVE RECEIVED THIS E-MAIL IN ERROR, PLEASE DELETE IT.
- OUTAGE.dbf
- 111201R.xls
- 111201.xls ');
INSERT INTO email([from],[to],subject,body) VALUES('enron.announcements@enron.com', 'all_ena_egm_eim@enron.com', 'EWS Brown Bag', 'MARK YOUR LUNCH CALENDARS NOW!
You are invited to attend the EWS Brown Bag Lunch Series
Featuring: RAY BOWEN, COO
Topic: Enron Industrial Markets
Thursday, March 15, 2001
11:30 am - 12:30 pm
EB 5 C2
You bring your lunch, Limited Seating
We provide drinks and dessert. RSVP x 3-9610');
INSERT INTO email([from],[to],subject,body) VALUES('chris.germany@enron.com', 'ingrid.immer@williams.com', 'Re: About St Pauls', 'Sounds good to me. I bet this is next to the Warick?? Hotel.
"Immer, Ingrid" <Ingrid.Immer@Williams.com> on 12/21/2000 11:48:47 AM
To: "chris.germany@enron.com" <chris.germany@enron.com>
cc:  
Subject: About St Pauls

<<About St Pauls.url>>

?  
?http://www.stpaulshouston.org/about.html

Chris,

I like the looks of this place. What do you think about going here Christmas eve?? They have an 11:00 a.m. service and a candlelight service at 5:00 p.m., among others.

Let me know.?? ii

- About St Pauls.url

');
INSERT INTO email(from, to, subject, body) VALUES('nas@cpuc.ca.gov', 'skatz@sempratrating.com, kmccrea@sablaw.com, thompson@wrightlaw.com, ', 'Reply Brief filed July 31, 2000', '- CPUC01-#76371-v1-Revised_Reply_Brief__Due_today_7_31_.doc');
INSERT INTO email(from, to, subject, body) VALUES('gascontrol@aglresources.com', 'dscott4@enron.com, lcampbel@enron.com', 'Alert Posted 10:00 AM November 20,2000: E-GAS Request Reminder', 'Alert Posted 10:00 AM November 20,2000: E-GAS Request Reminder

As discussed in the Winter Operations Meeting on Sept.29,2000, E-Gas(Emergency Gas) will not be offered this winter as a service from AGLC. Marketers and Poolers can receive gas via Peaking and IBSS nominations(daisy chain) from other marketers up to the 6 p.m. Same Day 2 nomination cycle.

');
INSERT INTO email(from, to, subject, body) VALUES('dutch.quigley@enron.com', 'rwolkwitz@powermerchants.com, ",' Here is a goody for you');
INSERT INTO email(from, to, subject, body) VALUES('ryan.o’rourke@enron.com, k..allen@enron.com, randy.bhatia@enron.com, frank.ermis@enron.com, ', ' TRV Notification: (West VaR - 11/07/2001) The report named: West VaR
INSERT INTO email(from, to, subject, body) VALUES('mjones7@txu.com, cstone1@txu.com, ggreen2@txu.com, timpowell@txu.com, ', 'Enron / HPL Actuals for July 10, 2000', 'Enron / HPL Actuals for July 10, 2000

| Teco Tap       | 10.000 / Enron |
| LS HPL LSK IC  | 30.000 / Enron |
INSERT INTO email([from],[to],subject,body) VALUES('susan.pereira@enron.com', 'kkw816@aol.com', 'soccer practice', 'Kathy-

Is it safe to assume that practice is cancelled for tonight? 

Susan Pereira');
INSERT INTO email([from],[to],subject,body) VALUES('mark.whitt@enron.com', 'barry.tycholiz@enron.com', 'Huber Internal Memo', 'Please look at this. I didn''t know how deep to go with the desk. Do you think this works.

');
INSERT INTO email([from],[to],subject,body) VALUES('m..forney@enron.com', 'george.phillips@enron.com', '', 'Give me a call and we will further discuss opportunities on the 13st floor.

Thanks,
JMForney
3-7160');
INSERT INTO email([from],[to],subject,body) VALUES('brad.mckay@enron.com', 'angusmcka@aol.com', 'Re: (no subject)', 'not yet');
INSERT INTO email([from],[to],subject,body) VALUES('adam.bayer@enron.com', 'jonathan.mckay@enron.com', 'FW: Curve Fetch File', 'Here is the curve fetch file sent to me. It has plenty of points in it. If you give me a list of which ones you need we may be able to construct a secondary worksheet to vlookup the values.

adam
35227

-----Original Message-----
From: Royed, Jeff
Sent: Tuesday, September 25, 2001 11:37 AM
To: Bayer, Adam
Subject: Curve Fetch File

Let me know if it works. It may be required to have a certain version of Oracle for it to work properly.

Jeff Royed
Enron
Energy Operations
Phone: 713-853-5295

The merged reports look great. I believe the only orientation changes are to "unmerge" the following six reports:
31 Keystone Receipts
15 Questar Pipeline
40 Rockies Production
22 West_2
23 West_3
25 CIG_WIC

The orientation of the individual reports should be correct. Thanks.

Mat

PS. Just a reminder to add the "*" by the title of calculated points.

"Karkour, Randa" <Randa.Karkour@COMPAQ.com> on 09/07/2000 09:01:04 AM
To: "'Agheb (E-mail)" <Agheb@aol.com>, "Leila Mankarious (E-mail)"
<Leila_Mankarious@mhhs.org>, '"Marymankarious (E-mail)"
<marymankarious@aol.com>, "Michelle lokay (E-mail)" <mlokay@enron.com>, "Ramy
Mankarious (E-mail)" <Mankarious@aol.com>
cc:  

Subject: Egyptian Festival

<<Egyptian Festival.url>>

http://www.egyptianfestival.com/

- Egyptian Festival.url

Thanks

---------------------- Forwarded by Errol McLaughlin/Corp/Enron on 12/20/2000
08:39 AM ----------------------

From: William Kelly @ ECT 12/20/2000 08:31 AM

To: Kam Keiser/HOU/ECT@ECT, Darron C Giron/HOU/ECT@ECT, David
Baumbach/HOU/ECT@ECT, Errol McLaughlin/Corp/Enron@ENRON
cc: Kimat Singla/HOU/ECT@ECT, Kulvinder Fowler/NA/Enron@ENRON, Kyle R
Subject: New EAST books

We have new book names in TAGG for our intramonth portfolios and it is extremely important that any deal booked to the East is communicated quickly to someone on my team. I know it will take some time for the new names to sink in and I do not want us to miss any positions or P&L.

Thanks for your help on this.

New:
Scott Neal : East Northeast
Dick Jenkins: East Marketeast

WK
');

An inactive Child with links to Parent products will not have their calculated prices updated until the Child product is Activated.

When the Child Product is activated, the price will be recalculated and updated BEFORE it is displayed on the web.

This means that if you are inputting a basis price on a Child product, you will not see the final, calculated price until you Activate the product, at which time the customer will also see it.

If you have any questions, please contact the Help Desk on:

Americas: 713 853 4357
Europe: + 44 (0) 20 7783 7783
Asia/Australia: +61 2 9229 2300

Dave');

I saw it. Very interesting.

Vince
Light reading - see pieces beginning on page 7

Cheers and have a nice weekend,

JHHerbert

- gd000728.pdf

');
INSERT INTO email([from],[to],subject,body) VALUES('matthew.lenhart@enron.com', 'mmmarcantel@equiva.com', 'RE: i will try to line up a pig for you ');
INSERT INTO email([from],[to],subject,body) VALUES('jae.black@enron.com', 'claudette.harvey@enron.com, chaun.roberts@enron.com, judy.martinez@enron.com,', 'Disaster Recovery Equipment', 'As a reminder...there are several pieces of equipment that are set up on the 30th Floor, as well as on our floor, for the Disaster Recovery Team. PLEASE DO NOT TAKE, BORROW OR USE this equipment. Should you need to use another computer system, other than yours, or make conference calls please work with your Assistant to help find or set up equipment for you to use.

Thanks for your understanding in this matter.

T.Jae Black
East Power Trading
Assistant to Kevin Presto
off. 713-853-5800
fax 713-646-8272
cell 713-539-4760');
INSERT INTO email([from],[to],subject,body) VALUES('eric.bass@enron.com', 'dale.neuner@enron.com', '5 X 24', 'Dale,

Have you heard anything more on the 5 X 24s? We would like to get this product out ASAP.

Thanks,

Eric');
Dear SmartReminders Member,

We respect your privacy and are a Certified Participant of the BBBOnLine Privacy Program. To be removed from future offers, click here.

SmartReminders.com is a permission based service. To unsubscribe click here.

The guy you are talking about left CIN under a "cloud of suspicion" sort of speak. He was the one who got into several bad deals and PPA’s in California for CIN, thus he left on a bad note. Let me know if you need more detail than that, I felt this was the type of info you were looking for. Thanks!

Ben');

You are only allowed 2 reports with receipts outstanding. Your expense reports will not be paid until you meet this requirement.';

FYI. the latest broadside against the generators.

Employee Name: Michelle Cash

Report Name: Houston Cellular 8-11-01
Report Date: 12/13/01
Report ID: 594D37C9ED2111D5B452
Submitted On: 12/13/01
Sue Mara  
Enron Corp.  
Tel: (415) 782-7802  
Fax:(415) 782-7854  
----- Forwarded by Susan J Mara/NA/Enron on 06/08/2001 12:24 PM -----  

"Milner, Marcie" <MMilner@coral-energy.com> 06/08/2001 11:13 AM To: ""smara@enron.com"" <smara@enron.com> cc: Subject: CAISO Emergency Motion  

Sue, did you see this emergency motion the CAISO filed today? Apparently they are requesting that FERC discontinue market-based rates immediately and grant refunds plus interest on the difference between cost-based rates and market revenues received back to May 2000. They are requesting the commission act within 14 days. Have you heard anything about what they are doing?  

Marcie  


Who is General Brinks?  

Fletch');  

Here are the documents that Peter has prepared for Mark Frevert.  

Nailia  

--------------------------- Forwarded by Nailia Dindarova/LON/ECT on 25/06/2001 16:36 ---------------------------  

Nailia Dindarova  
25/06/2001 15:36  
To: Michael Brown/Enron@EUEnronXGate  
cc: Ross Sankey/Enron@EUEnronXGate, Eric Shaw/ENRON@EUEnronXGate, Peter Styles/LON/ECT@ECT  

Subject: Documents for Mark Frevert (on EU developments and lessons from California)  

Michael,
These are the documents that Peter promised to give to you for Mark Frevert. He has now handed them to him in person but asked me to transmit them electronically to you, as well as Eric and Ross.

Nailia

');
INSERT INTO email([from],[to],subject,body) VALUES('peggy.a.kostial@accenture.com', 'dave.samuels@enron.com', 'EOL-Accenture Deal Sheet', 'Dave -

Attached are our comments and suggested changes. Please call to review.

On the timeline for completion, we have four critical steps to complete:
   Finalize market analysis to refine business case, specifically projected revenue stream
   Complete counterparty surveying, including targeting 3 CPs for letters of intent
   Review Enron asset base for potential reuse/licensing
   Contract negotiations

Joe will come back to us with an updated timeline, but it is my expectation that we are still on the same schedule (we just begun week three) with possibly a week or so slippage.....contract negotiations will probably be the critical path.

We will send our cut at the actual timeline here shortly. Thanks,

Peggy

(See attached file: accenture-dealpoints v2.doc)
- accenture-dealpoints v2.doc ');
INSERT INTO email([from],[to],subject,body) VALUES('thomas.martin@enron.com', 'thomas.martin@enron.com', 'Re: Guadalupe Power Partners LP', '---------------------- Forwarded by Thomas A Martin/HOU/ECT on 03/20/2001 03:49 PM ----------------------

Thomas A Martin
10/11/2000 03:55 PM
To: Patrick Wade/HOU/ECT@ECT
cc: 
Subject: Re: Guadalupe Power Partners LP
The deal is physically served at Oasis Waha or Oasis Katy and is priced at either HSC, Waha or Katy tailgate GD at buyers option three days prior to NYMEX close.

agoddard@nisource.com on 03/08/2001 09:16:57 AM
To: *Koch, Kent* <kkoch@nisource.com>; *Millar, Debra* <dmillar@nisource.com>; *Burke, Lynn* <lburke@nisource.com>
cc: *Heckathorn, Tom* <theckathorn@nisource.com>
Subject: Columbia Distribution’s Capacity Available for Release - Sum


Please note that the deadline for bids is 3:00pm EST on March 20, 2001.

If you have any questions, feel free to contact any of the representatives listed at the bottom of the attachment.

Aaron Goddard

- 2001Summer.doc

Copies will be distributed to Legal and Credit.

kerrymcelroy@dwt.com on 03/08/2001 11:04 AM
To: "jack.speer@alcoa.com", "crow@millernash.com", "michaelearly@earthlink.net",
Subject: Oral Argument Request - Oral Argument Request.doc

Did you come in town this wk end..... My new number at our house is : 713-668-3712...... my cell # is 281-381-7332

the kid
Cooper,

It's been a real pleasure working with you (even though it was for only a small amount of time)
I hope we can stay in touch.

Home# 234-0249
e-mail: kpunja@hotmail.com

Take Care,

Karim.

');
INSERT INTO email([from],[to],subject,body) VALUES('bjm30@earthlink.net', 'mcguinn.k@enron.com, mcguinn.ian@enron.com, mcguinn.stephen@enron.com, ', 'email address change', 'Hello all.
I haven't talked to many of you via email recently but I do want to give you
my new address for your email file:

bjm30@earthlink.net

I hope all is well.

Brian McGuinn');
INSERT INTO email([from],[to],subject,body) VALUES('shelley.corman@enron.com', 'steve.hotte@enron.com', 'Flat Panels', 'Can you please advise what is going on with the flat panels that we had planned to distribute to our gas logistics team. It was in the budget and we had the okay, but now I'm hearing there is some hold-up & the units are stored on 44.

Shelley');
INSERT INTO email([from],[to],subject,body) VALUES('sara.davidson@enron.com', 'john.schwartzenburg@enron.com, scott.dieball@enron.com, recipients@enron.com,', '2001 Enron Law Conference (Distribution List 2)', '2001 Enron Law Conference
San Antonio, Texas May 2-4, 2001 Westin Riverwalk

See attached memo for more details!!

? Registration for the law conference this year will be handled through an

? We will send you another e-mail to confirm when the Law Conference Website is operational.

? Please complete the Online RSVP Form as soon as it is available and submit it no later than Friday, March 30th.

');
INSERT INTO email([from],[to],subject,body) VALUES('tori.kuykendall@enron.com', 'heath.b.taylor@accenture.com', 'Re:', 'hey - thats funny about john - he definitely remembers him - i’ll call pat and let him know - we are coming on saturday - i just havent had a chance to call you guys back -- looking forward to it -- i probably need the directions again though');
INSERT INTO email([from],[to],subject,body) VALUES('darron.giron@enron.com', 'bryce.baxter@enron.com', 'Re: Feedback for Audrey Cook', 'Bryce,

I'll get it done today.

DG   3-9573

From: Bryce Baxter 06/12/2000 07:15 PM

To: Darron C Giron/HOU/ECT@ECT
cc:
Subject: Feedback for Audrey Cook

You were identified as a reviewer for Audrey Cook. If possible, could you complete her feedback by end of business Wednesday? It will really help me in the PRC process to have your input. Thanks.

');
INSERT INTO email([from],[to],subject,body) VALUES('casey.evans@enron.com', 'stephanie.sever@enron.com', 'Gas EOL ID', 'Stephanie,

In conjunction with the recent movement of several power traders, they are changing the names of their gas books as well. The names of the new gas books and traders are as follows:
PWR-NG-LT-SPP: Mike Carson
PWR-NG-LT-SERC: Jeff King

If you need to know their power desk to map their ID to their gas books, those desks are as follows:

EPMI-LT-SPP: Mike Carson
EPMI-LT-SERC: Jeff King

I will be in training this afternoon, but will be back when class is over. Let me know if you have any questions.

Thanks for your help!
Casey;

INSERT INTO email([from],[to],subject,body) VALUES('darrell.schoolcraft@enron.com', 'david.roensch@enron.com, kimberly.watson@enron.com, michelle.lokay@enron.com','Postings', 'Please see the attached.

ds

');
INSERT INTO email([from],[to],subject,body) VALUES('mcominsky@aol.com', 'cpatman@bracepatt.com, james_derrick@enron.com', 'Jurisprudence Luncheon', 'Carrin & Jim --

It was an honor and a pleasure to meet both of you yesterday. I know we will have fun working together on this very special event.

Jeff left the jurisprudence luncheon lists for me before he left on vacation. I wasn’t sure whether he transmitted them to you as well. Would you please advise me if you would like them sent to you? I can email the MS Excel files or I can fax the hard copies to you. Please advise what is most convenient.

I plan to be in town through the holidays and can be reached by phone, email, or cell phone at any time. My cell phone number is 713/705-4829.

Thanks again for your interest in the ADL’s work. Martin.

Martin B. Cominsky
Director, Southwest Region
Anti-Defamation League
713/627-3490, ext. 122
713/627-2011 (fax)
MCominsky@aol.com');
INSERT INTO email([from],[to],subject,body) VALUES('phillip.love@enron.com', 'todagost@utmb.edu, gbsonnta@utmb.edu', 'New President', 'I had a little bird put a word in my ear. Is there any possibility for Ben Raimer to be Bush’s secretary of HHS? Just curious about that infamous UTMB
r Rumor mill. Hope things are well, happy holidays.

PL);

INSERT INTO email([from],[to],subject,body) VALUES('marie.heard@enron.com', 'ehamilton@fna.com', 'ISDA Master Agreement', 'Erin:

Pursuant to your request, attached are the Schedule to the ISDA Master Agreement, together with Paragraph 13 to the ISDA Credit Support Annex. Please let me know if you need anything else. We look forward to hearing your comments.

Marie

Marie Heard
Senior Legal Specialist
Enron North America Corp.
Phone: (713) 853-3907
Fax: (713) 646-3490
marie.heard@enron.com

');

INSERT INTO email([from],[to],subject,body) VALUES('andrea.ring@enron.com', 'beverly.beaty@enron.com', 'Re: Tennessee Buy - Louis Dreyfus', 'Beverly - once again thanks so much for your help on this.

');

INSERT INTO email([from],[to],subject,body) VALUES('karolyn.criado@enron.com', 'j..bonin@enron.com, felicia.case@enron.com, b..clapp@enron.com', 'Price List week of Oct. 8-9, 2001', 'Please contact me if you have any questions regarding last weeks prices.

Thank you,
Karolyn Criado
3-9441

');

INSERT INTO email([from],[to],subject,body) VALUES('kevin.presto@enron.com', 'edward.baughman@enron.com, billy.braddock@enron.com', 'Associated', 'Please begin working on filling our Associated short position in 02. I would like to take this risk off the books.

In addition, please find out what a buy-out of VEPCO would cost us. With Rogers transitioning to run our retail risk management, I would like to clean up our customer positions.

We also need to continue to explore a JEA buy-out.

Thanks.');

INSERT INTO email([from],[to],subject,body) VALUES('stacy.dickson@enron.com', 'gregg.penman@enron.com', 'Open Source Used In Cisco VSM 7.14.2 21390
RE: Constellation TC 5-7-01', 'Gregg,

I am at home with a sick baby. (Lots of fun!) I will call you about this tomorrow.

Stacy);
INSERT INTO email([from],[to],subject,body) VALUES('joe.quenet@enron.com', 'dfincher@utilicorp.com', ", 'hey big guy.....check this out.....

w www.gorelieberman-2000.com/);
INSERT INTO email([from],[to],subject,body) VALUES('k..allen@enron.com', 'jacqeste@aol.com', ", 'Jacques,

I sent you a fax of Kevin Kolb’s comments on the release. The payoff on the note would be $36,248 ($36090(principal) + $158 (accrued interest)).
This is assuming we wrap this up on Tuesday.

Please email to confirm that their changes are ok so I can set up a meeting on Tuesday to reach closure.

Phillip');
INSERT INTO email([from],[to],subject,body) VALUES('kourtney.nelson@enron.com', 'mike.swerzbin@enron.com', 'Adjusted L/R Balance', 'Mike,

I placed the adjusted L/R Balance on the Enronwest site. It is under the "Staff/Kourtney Nelson". There are two links:

1) "Adj L_R" is the same data/format from the weekly strategy meeting.
2) "New Gen 2001_2002" link has all of the supply side info that is used to calculate the L/R balance
-Please note the Data Flag column, a value of "3" indicates the project was cancelled, on hold, etc and is not included in the calc.

Both of these sheets are interactive Excel spreadsheets and thus you can play around with the data as you please.
Also, James Bruce is working to get his gen report on the web. That will help with your access to information on new gen.

Please let me know if you have any questions or feedback,

Kourtney

Kourtney Nelson
Fundamental Analysis
Enron North America
(503) 464-8280
kourtney.nelson@enron.com');
INSERT INTO email([from],[to],subject,body) VALUES('d..thomas@enron.com', 'naveed.ahmed@enron.com', 'FW: Current Enron TCC Portfolio', '}
-----Original Message-----
From: Grace, Rebecca M.
Sent: Monday, December 17, 2001 9:44 AM
To: Thomas, Paul D.
Cc: Cashion, Jim; Allen, Thresa A.; May, Tom
Subject: RE: Current Enron TCC Portfolio

Paul,

I reviewed NY’s list. I agree with all of their contracts numbers and mw amounts.

Call if you have any more questions.

Rebecca

-----Original Message-----
From: Thomas, Paul D.
Sent: Monday, December 17, 2001 9:08 AM
To: Grace, Rebecca M.
Subject: FW: Current Enron TCC Portfolio

<< File: enrontccs.xls >>

Rebecca,

Let me know if you see any differences.

Paul
X 3-0403

-----Original Message-----
From: Thomas, Paul D.
Sent: Monday, December 17, 2001 9:04 AM
To: Ahmed, Naveed
Subject: FW: Current Enron TCC Portfolio

-----Original Message-----
From: Thomas, Paul D.
Sent: Thursday, December 13, 2001 10:01 AM
To: Baughman, Edward D.
Subject: Current Enron TCC Portfolio

');

INSERT INTO email([from],[to],subject,body) VALUES('stephanie.panus@enron.com',

Open Source Used In Cisco VSM 7.14.2 21392
Coastal Merchant Energy, L.P. merged with and into El Paso Merchant Energy, L.P., effective February 1, 2001, with the surviving entity being El Paso Merchant Energy, L.P. We currently have ISDA Master Agreements with both counterparties. Please see the attached memo regarding the existing Masters and let us know which agreement should be terminated.

Thanks,
Stephanie

-----Original Message-----
From: Kenne, Dawn C.
Sent: Wednesday, February 06, 2002 11:50 AM
To: Keiser, Kam
Subject: What about this too???

<< File: Netco Trader Matrix.xls >>

Thanks
chris
x31666

Debra Perlingiere
Enron North America Corp.
1400 Smith Street, EB 3885
Houston, Texas 77002
dperlin@enron.com
Phone 713-853-7658
Fax 713-646-3490

Date: 1/5/2001
Guest access Chile

Justin Boyd told me that your can help me with questions regarding Chile.
We got a request for guest access through MG.
The company is called Escondida and is a subsidiary of BHP Australia.

Please advise if I can set up a guest account or not.
F.Y.I.: MG is planning to put a “in w/h Chile” contract for Copper on-line as soon as Enron has done the due diligence for this country.
Thanks!

Best regards

Diana Seifert
EOL PCG

Outside the U.S., please refer to the list below:

Australia:
1800 678-515
support@palm-au.com

Canada:
1905 305-6530
support@palm.com
New Zealand:
0800 446-398
support@palm-nz.com

U.K.:
0171 867 0108
eurosupport@palm.3com.com

Please refer to the Worldwide Customer Support card for a complete technical support contact list.

-----Original Message-----
From: Quigley, Dutch
Sent: Wednesday, October 31, 2001 10:14 AM
To: Storey, Geoff
Subject: RE:

bp corp
Albert LaMore
281-366-4962

running the reports now

-----Original Message-----
From: Storey, Geoff
Sent: Wednesday, October 31, 2001 10:10 AM
To: Quigley, Dutch
Subject: RE:

give me a contact over there too
BP

-----Original Message-----
From: Quigley, Dutch
Sent: Wednesday, October 31, 2001 9:42 AM
To: Storey, Geoff
Subject:

Coral
Jeff Whitnah
713-767-5374

Relaint
Steve McGinn
713-207-4000

Variances detected in Load schedule.
LOG MESSAGES:

PARSING FILE -->> O:\Portland\WestDesk\California Scheduling\ISO Final Schedules\2001042203.txt

---- Load Schedule ----
$$$ Variance found in table tblLoads.
   Details: (Hour: 3 / Preferred: 1.92 / Final: 1.89)
TRANS_TYPE: FINAL
LOAD_ID: PGE4
MKT_TYPE: 2
TRANS_DATE: 4/22/01
SC_ID: EPMI

');

INSERT INTO email([from],[to],subject,body) VALUES('john.postlethwaite@enron.com',
'john.zufferli@enron.com', 'Reference', 'John, hope things are going well up there for you. The big day is almost here for you and Jessica. I was wondering if I could use your name as a job reference if need be. I am just trying to get everything in order just in case something happens.

John');

INSERT INTO email([from],[to],subject,body) VALUES('jeffrey.shankman@enron.com',
'lschiffm@jonesday.com', 'Re:', 'I saw you called on the cell this a.m. Sorry I missed you. (I was in the shower). I have had a shitty week--I suspect my silence (not only to you, but others) after our phone call is a result of the week. I’m seeing Glen at 11:15....talk to you');

INSERT INTO email([from],[to],subject,body) VALUES('litebytz@enron.com', '', 'Lite Bytz RSVP',
'This week’s Lite Bytz presentation will feature the following TOOLZ speaker:

Richard McDougall
Solaris 8
Thursday, June 7, 2001

If you have not already signed up, please RSVP via email to litebytz@enron.com by the end of the day Tuesday, June 5, 2001.

*Remember: this is now a Brown Bag Event--so bring your lunch and we will provide cookies and drinks.

Click below for more details.

http://home.enron.com:84/messaging/litebytztoolzprint.jpg');

COMMIT;

} {}

########################################################################
# Everything above just builds an interesting test database. The actual
# tests come after this comment.
do_test fts3ac-1.2 {
  execsql {
    SELECT rowid FROM email WHERE email MATCH 'mark'
  }
} {6 17 25 38 40 42 73 74}
do_test fts3ac-1.3 {
  execsql {
    SELECT rowid FROM email WHERE email MATCH 'susan'
  }
} {24 40}
do_test fts3ac-1.4 {
  execsql {
    SELECT rowid FROM email WHERE email MATCH 'mark susan'
  }
} {40}
do_test fts3ac-1.5 {
  execsql {
    SELECT rowid FROM email WHERE email MATCH 'susan mark'
  }
} {40}
do_test fts3ac-1.6 {
  execsql {
    SELECT rowid FROM email WHERE email MATCH "'mark susan'"
  }
} {}
do_test fts3ac-1.7 {
  execsql {
    SELECT rowid FROM email WHERE email MATCH 'mark -susan'
  }
} {6 17 25 38 42 73 74}
do_test fts3ac-1.8 {
  execsql {
    SELECT rowid FROM email WHERE email MATCH '-mark susan'
  }
} {24}
do_test fts3ac-1.9 {
  execsql {
    SELECT rowid FROM email WHERE email MATCH 'mark OR susan'
  }
} {6 17 24 25 38 40 42 73 74}

# Some simple tests of the automatic "offsets(email)" column. In the sample
# data set above, only one message, number 20, contains the words
# "gas" and "reminder" in both body and subject.
#
execsql {
    SELECT rowid, offsets(email) FROM email
    WHERE email MATCH 'gas reminder'
}
} {20 {2 0 42 3 2 1 54 8 3 0 42 3 3 1 54 8 3 0 129 3 3 0 143 3 3 0 240 3}}
do_test fts3ac-2.2 {
execsql {
    SELECT rowid, offsets(email) FROM email
    WHERE email MATCH 'subject:gas reminder'
}
} {20 {2 0 42 3 2 1 54 8 3 1 54 8 3 0 129 3 3 0 143 3 3 0 240 3}}
do_test fts3ac-2.3 {
execsql {
    SELECT rowid, offsets(email) FROM email
    WHERE email MATCH 'body:gas reminder'
}
} {20 {2 1 54 8 3 0 42 3 3 1 54 8 3 0 129 3 3 0 143 3 3 0 240 3}}
do_test fts3ac-2.4 {
execsql {
    SELECT rowid, offsets(email) FROM email
    WHERE subject MATCH 'gas reminder'
}
} {20 {2 0 42 3 2 1 54 8}}
do_test fts3ac-2.5 {
execsql {
    SELECT rowid, offsets(email) FROM email
    WHERE body MATCH 'gas reminder'
}
} {20 {3 0 42 3 3 1 54 8 3 0 129 3 3 0 143 3 3 0 240 3}}

# Document 32 contains 5 instances of the world "child". But only
# 3 of them are paired with "product". Make sure only those instances
# that match the phrase appear in the offsets(email) list.
#
do_test fts3ac-3.1 {
execsql {
    SELECT rowid, offsets(email) FROM email
    WHERE body MATCH 'child product' AND +rowid=32
}
} {32 {3 0 94 5 3 0 114 5 3 0 207 5 3 1 213 7 3 0 245 5 3 1 251 7 3 0 409 5 3 1 415 7 3 1 493 7}}
do_test fts3ac-3.2 {
execsql {
    SELECT rowid, offsets(email) FROM email
    WHERE body MATCH '"child product"'
}
} {32 {3 0 207 5 3 1 213 7 3 0 245 5 3 1 251 7 3 0 409 5 3 1 415 7}}

# Snippet generator tests
do_test fts3ac-4.1 {
  execsql {
    SELECT snippet(email) FROM email
    WHERE email MATCH 'subject:gas reminder'
  }
  {{Alert Posted: 10:00 AM November 20, 2000: E-<b>GAS</b>/Request <b>Reminder</b>}}
}
do_test fts3ac-4.2 {
  execsql {
    SELECT snippet(email) FROM email
    WHERE email MATCH 'christmas candlelight'
  }
  {{<b>...</b>Christmas}}
eve?? They have an 11:00 a.m. service and a <b>candlelight</b>/service
}
do_test fts3ac-4.3 {
  execsql {
    SELECT snippet(email) FROM email
    WHERE email MATCH 'deal sheet potential reuse'
  }
  {{EOL-Accenture <b>Deal</b>/<b>Sheet</b>/asset base for <b>potential</b>/reusing/licensing
    Contract negotiations
}}
do_test fts3ac-4.4 {
  execsql {
    SELECT snippet(email,<<<,>>>,' ') FROM email
    WHERE email MATCH 'deal sheet potential reuse'
  }
  {{EOL-Accenture <<<Deal>>> <<<Sheet>>> asset base for <<<potential>>>/licensing
    Contract negotiations
}}
do_test fts3ac-4.5 {
  execsql {
    SELECT snippet(email,<<<,>>>,' ') FROM email
    WHERE email MATCH 'first things'
  }
  {{Re: <<<First>>> Polish Deal! Congrats! <<<Things>>> seem to be building rapidly now
}}
do_test fts3ac-4.6 {
  execsql {
    SELECT snippet(email) FROM email
    WHERE email MATCH 'chris is here'
  }
  {{<b>...</b>chris@enron.com'' <<<chris'/>bet this <b>is</b>/next
    to<b>...</b>/about going <b>here</b>/Christmas
    eve<b>...</b>}}
do_test fts3ac-4.7 {
  execsql {
    SELECT snippet(email) FROM email
    WHERE email MATCH '"pursuant to"'
  }
Pursuant to your request, attached are the Schedule to the ISDA Master Agreement, together do_test fts3ac-4.8 {
  execsql {
    SELECT snippet(email) FROM email
    WHERE email MATCH 'ancillary load davis'
  }
} {{pete.<b>davis</b>@enron.com.../b>}} 3: No ancillary schedules awarded detected in Load schedule.

LOG .../b>}}

# Combinations of AND and OR operators:
#
do_test fts3ac-5.1 {
  execsql {
    SELECT snippet(email) FROM email
    WHERE email MATCH 'questar enron OR com'
  }
} {{matt.smith@enron.com.../b>}} 31 Keystone Receipts
  15 Questar Pipeline
  40 Rockies
}
do_test fts3ac-5.2 {
  execsql {
    SELECT snippet(email) FROM email
    WHERE email MATCH 'enron OR com questar'
  }
} {{matt.smith@enron.com.../b>}} 31 Keystone Receipts
  15 Questar Pipeline
  40 Rockies
}

# Test a problem reported on the mailing list.
#
do_test fts3ac-6.1 {
  execsql {
    CREATE VIRTUAL TABLE ft USING fts3(one, two);
    INSERT INTO ft VALUES('', 'foo');
    INSERT INTO ft VALUES('foo', 'foo');
    SELECT offsets(ft) FROM ft WHERE ft MATCH 'foo';
  }
} {{1 0 0 3} {0 0 0 3 1 0 0 3}}
do_test fts3ac-6.2 {
  execsql {
    DELETE FROM ft WHERE one = 'foo';
}
SELECT offsets(ft) FROM ft WHERE ft MATCH 'foo';
}  
} {[1 0 0 3]}

finish_test

Found in path(s):
No license file was found, but licenses were detected in source scan.

# 2001 September 15
#
# The author disclaims copyright to this source code. In place of
# a legal notice, here is a blessing:
#
#   May you do good and not evil.
#   May you find forgiveness for yourself and forgive others.
#   May you share freely, never taking more than you give.
#
#******************************************************************************
# This file implements regression tests for SQLite library. The
# focus of this file is testing built-in functions.
#
set testdir [file dirname $argv0]
source $testdir/tester.tcl

# Create a table to work with.
#
do_test func-0.0 {
  execsql {CREATE TABLE tbl1(t1 text)}
  foreach word {this program is free software} {
    execsql "INSERT INTO tbl1 VALUES('$word')"
  }
  execsql {SELECT t1 FROM tbl1 ORDER BY t1}
} {free is program software this}
do_test func-0.1 {
  execsql {
    CREATE TABLE t2(a);
    INSERT INTO t2 VALUES(1);
    INSERT INTO t2 VALUES(NULL);
    INSERT INTO t2 VALUES(345);
    INSERT INTO t2 VALUES(NULL);
    INSERT INTO t2 VALUES(67890);
    SELECT * FROM t2;
  }
} {[1 {} 345 {} 67890]}

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# Check out the length() function
#
do_test func-1.0 {
  execsql {SELECT length(t1) FROM tbl1 ORDER BY t1}
} {4 2 7 8 4}
do_test func-1.1 {
  set r [catch {execsql {SELECT length(*) FROM tbl1 ORDER BY t1}} msg]
  lappend r $msg
} {1 {wrong number of arguments to function length()}}
do_test func-1.2 {
  set r [catch {execsql {SELECT length(t1,5) FROM tbl1 ORDER BY t1}} msg]
  lappend r $msg
} {1 {wrong number of arguments to function length()}}
do_test func-1.3 {
  execsql {SELECT length(t1), count(*) FROM tbl1 GROUP BY length(t1)
    ORDER BY length(t1)}
} {2 1 4 2 7 1 8 1}
do_test func-1.4 {
  execsql {SELECT coalesce(length(a),-1) FROM t2}
} {1 -1.3 -1.5}

# Check out the substr() function
#
do_test func-2.0 {
  execsql {SELECT substr(t1,1,2) FROM tbl1 ORDER BY t1}
} {fr is pr so th}
do_test func-2.1 {
  execsql {SELECT substr(t1,2,1) FROM tbl1 ORDER BY t1}
} {r s r o h}
do_test func-2.2 {
  execsql {SELECT substr(t1,3,3) FROM tbl1 ORDER BY t1}
} {ee {} ogr ftw is}
do_test func-2.3 {
  execsql {SELECT substr(t1,-1,1) FROM tbl1 ORDER BY t1}
} {e s m e s}
do_test func-2.4 {
  execsql {SELECT substr(t1,-1,2) FROM tbl1 ORDER BY t1}
} {e s m e s}
do_test func-2.5 {
  execsql {SELECT substr(t1,-2,1) FROM tbl1 ORDER BY t1}
} {e i a r i}
do_test func-2.6 {
  execsql {SELECT substr(t1,-2,2) FROM tbl1 ORDER BY t1}
} {ee is am re is}
do_test func-2.7 {
  execsql {SELECT substr(t1,-4,2) FROM tbl1 ORDER BY t1}
} {fr {} gr wa th}
do_test func-2.8 {
  execsql {SELECT t1 FROM tbl1 ORDER BY substr(t1,2,20)}
} {this software is free}
do_test func-2.9 {
  execsql {SELECT substr(a,1,1) FROM t2}
} {1 {} 3 {} 6}
do_test func-2.10 {
  execsql {SELECT substr(a,2,2) FROM t2}
} {{} {} 45 {} 78}

# Only do the following tests if TCL has UTF-8 capabilities
#
if {"u1234"!="u1234"} {

# Put some UTF-8 characters in the database
#
 do_test func-3.0 {
  execsql [DELETE FROM tbl1]
  foreach word "contains UTF-8 characters hi\u1234ho" {
    execsql "INSERT INTO tbl1 VALUES('$word')"
  }
  execsql {SELECT t1 FROM tbl1 ORDER BY t1}
} "UTF-8 characters contains hi\u1234ho"
do_test func-3.1 {
  execsql {SELECT length(t1) FROM tbl1 ORDER BY t1}
} {5 10 8 5}
do_test func-3.2 {
  execsql {SELECT substr(t1,1,2) FROM tbl1 ORDER BY t1}
} {UT ch co hi}
do_test func-3.3 {
  execsql {SELECT substr(t1,1,3) FROM tbl1 ORDER BY t1}
} "UTF cha con hi\u1234"
do_test func-3.4 {
  execsql {SELECT substr(t1,2,2) FROM tbl1 ORDER BY t1}
} "TF ha on \u1234"
do_test func-3.5 {
  execsql {SELECT substr(t1,2,3) FROM tbl1 ORDER BY t1}
} "TF- har ont \u1234h"
do_test func-3.6 {
  execsql {SELECT substr(t1,3,2) FROM tbl1 ORDER BY t1}
} "F- ar nt \u1234h"
do_test func-3.7 {
  execsql {SELECT substr(t1,4,2) FROM tbl1 ORDER BY t1}
} "-8 ra ta ho"
do_test func-3.8 {
  execsql {SELECT substr(t1,-1,1) FROM tbl1 ORDER BY t1}
} "8 s s o"
execsql {SELECT substr(t1,-3,2) FROM tbl1 ORDER BY t1}
) "F- er in ሴh"
do_test func-3.10 {
execsql {SELECT substr(t1,-4,3) FROM tbl1 ORDER BY t1}
) "TF- ter ain ሴh"
do_test func-3.99 {
execsql {DELETE FROM tbl1}
foreach word {this program is free software} {
execsql "INSERT INTO tbl1 VALUES('$word')"
}
execsql {SELECT t1 FROM tbl1}
) {this program is free software}
}
;# End ሴ!=u1234

# Test the abs() and round() functions.
#
ifcapable !floatingpoint {
do_test func-4.1 {
execsql {
    CREATE TABLE t1(a,b,c);
    INSERT INTO t1 VALUES(1,2,3);
    INSERT INTO t1 VALUES(2,12345678901234,-1234567890);
    INSERT INTO t1 VALUES(3,-2,-5);
    }
catchsql {SELECT abs(a,b) FROM t1}
) {1 {wrong number of arguments to function abs()}}
}
ifcapable floatingpoint {
do_test func-4.1 {
execsql {
    CREATE TABLE t1(a,b,c);
    INSERT INTO t1 VALUES(1,2,3);
    INSERT INTO t1 VALUES(2,1.2345678901234,-12345.67890);
    INSERT INTO t1 VALUES(3,-2,-5);
    }
catchsql {SELECT abs(a,b) FROM t1}
) {1 {wrong number of arguments to function abs()}}
}
do_test func-4.2 {
catchsql {SELECT abs() FROM t1}
) {1 {wrong number of arguments to function abs()}}
}
ifcapable floatingpoint {
do_test func-4.3 {
catchsql {SELECT abs(b) FROM t1 ORDER BY a}
) {0 {2 1.2345678901234 2}}
do_test func-4.4 {
catchsql {SELECT abs(c) FROM t1 ORDER BY a}
) {0 {2 1.2345678901234 2}}

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ifcapable !floatingpoint {
  if {
    working_64bit_int
  }
  do_test func-4.3 {
    catchsql {SELECT abs(b) FROM t1 ORDER BY a}
    } {0 [2 12345678901234 2]}
  }
  do_test func-4.4 {
    catchsql {SELECT abs(c) FROM t1 ORDER BY a}
    } {0 [3 1234567890 5]}
  }
  do_test func-4.4.1 {
    execsql {SELECT abs(a) FROM t2}
    } {1 [345] 67890}
  do_test func-4.4.2 {
    execsql {SELECT abs(t1) FROM tbl1}
    } {0.0 0.0 0.0 0.0 0.0}
}

ifcapable floatingpoint {
  do_test func-4.5 {
    catchsql {SELECT round(a,b,c) FROM t1}
    } {1 [wrong number of arguments to function round()]
  }
  do_test func-4.6 {
    catchsql {SELECT round(b,2) FROM t1 ORDER BY b}
    } {0 [-2.0 1.23 2.0]}
  }
  do_test func-4.7 {
    catchsql {SELECT round(b,0) FROM t1 ORDER BY a}
    } {0 [2.0 1.0 -2.0]}
  }
  do_test func-4.8 {
    catchsql {SELECT round(c) FROM t1 ORDER BY a}
    } {0 [3.0 -12346.0 -5.0]}
  }
  do_test func-4.9 {
    catchsql {SELECT round(c,a) FROM t1 ORDER BY a}
    } {0 [3.0 -12345.68 -5.0]}
  }
  do_test func-4.10 {
    catchsql {SELECT \'x\' || round(c,a) || \'y\' FROM t1 ORDER BY a}
    } {0 [x3.0y x-12345.68y x-5.0y]}
  }
  do_test func-4.11 {
    catchsql {SELECT round() FROM t1 ORDER BY a}
    } {1 [wrong number of arguments to function round()]
  }
  do_test func-4.12 {
    execsql {SELECT coalesce(round(a,2),\'nil\') FROM t2}
    } {1.0 nil 345.0 nil 67890.0}
  }
  do_test func-4.13 {
    execsql {SELECT round(t1,2) FROM tbl1}
    } {0.0 0.0 0.0 0.0 0.0}
  }
  do_test func-4.14 {
execsql {SELECT typeof(round(5.1,1));} {real}
do_test func-4.15 {
   execsql {SELECT typeof(round(5.1));} {real}
do_test func-4.16 {
   catchsql {SELECT round(b,2.0) FROM t1 ORDER BY b}
   } {0 {-2.0 1.23 2.0}}
# Verify some values reported on the mailing list.
# Some of these fail on MSVC builds with 64-bit
# long doubles, but not on GCC builds with 80-bit
# long doubles.
for {set i 1} {$i<999} {incr i} {
   set x1 [expr 40222.5 + $i]
   set x2 [expr 40223.0 + $i]
   do_test func-4.17.$i {
      execsql {SELECT round($x1);}
   } $x2
}
for {set i 1} {$i<999} {incr i} {
   set x1 [expr 40222.05 + $i]
   set x2 [expr 40222.10 + $i]
   do_test func-4.18.$i {
      execsql {SELECT round($x1,1);}
   } $x2
}
do_test func-4.20 {
   execsql {SELECT round(40223.4999999999);}
   } {40223.0}
do_test func-4.21 {
   execsql {SELECT round(40224.4999999999);}
   } {40224.0}
do_test func-4.22 {
   execsql {SELECT round(40225.4999999999);}
   } {40225.0}
for {set i 1} {$i<10} {incr i} {
   do_test func-4.23.$i {
      execsql {SELECT round(40223.4999999999,$i);}
   } {40223.5}
   do_test func-4.24.$i {
      execsql {SELECT round(40224.4999999999,$i);}
   } {40224.5}
   do_test func-4.25.$i {
      execsql {SELECT round(40225.4999999999,$i);}
   } {40225.5}
}
for {set i 10} {$i<32} {incr i} {
   do_test func-4.26.$i {

execsql {SELECT round(40223.4999999999,$i);}
} {40223.4999999999}
do_test func-4.27.$i {
    execsql {SELECT round(40224.4999999999,$i);}
} {40224.4999999999}
do_test func-4.28.$i {
    execsql {SELECT round(40225.4999999999,$i);}
} {40225.4999999999}
}
do_test func-4.29 {
    execsql {SELECT round(1234567890.5);}
} {1234567891.0}
do_test func-4.30 {
    execsql {SELECT round(12345678901.5);}
} {12345678902.0}
do_test func-4.31 {
    execsql {SELECT round(123456789012.5);}
} {123456789013.0}
do_test func-4.32 {
    execsql {SELECT round(1234567890123.5);}
} {1234567890124.0}
do_test func-4.33 {
    execsql {SELECT round(12345678901234.5);}
} {12345678901235.0}
do_test func-4.34 {
    execsql {SELECT round(123456789012345.2);}
} {123456789012345.45}
do_test func-4.35 {
    execsql {SELECT round(99999999999994.5);}
} {99999999999995.0}
do_test func-4.36 {
    execsql {SELECT round(9999999999999.55,1);}
} {9999999999999.56}
do_test func-4.37 {
    execsql {SELECT round(9999999999999.556,2);}
} {9999999999999.56}
}

# Test the upper() and lower() functions
#
do_test func-5.1 {
    execsql {SELECT upper(t1) FROM tbl1}
} {THIS PROGRAM IS FREE SOFTWARE}
do_test func-5.2 {
    execsql {SELECT lower(upper(t1)) FROM tbl1}
do_test func-5.3 {
  execsql \{SELECT upper(a), lower(a) FROM t2\}
} {1 1 {} {345 345} {} {67890 67890}}
ifcapable !icu {
  do_test func-5.4 {
    catchsql \{SELECT upper(a,5) FROM t2\}
  } {1 \{wrong number of arguments to function upper()\} }
}
  do_test func-5.5 {
    catchsql \{SELECT upper(*) FROM t2\}
  } {1 \{wrong number of arguments to function upper()\} }
}

# Test the coalesce() and nullif() functions
#
# do_test func-6.1 {
  execsql \{SELECT coalesce(a,'xyz') FROM t2\}
} {1 xyz 345 xyz 67890}
  do_test func-6.2 {
    execsql \{SELECT coalesce(upper(a),'nil') FROM t2\}
  } {1 nil 345 nil 67890}
  do_test func-6.3 {
    execsql \{SELECT coalesce(nullif(1,1),'nil')\}
  } {nil}
  do_test func-6.4 {
    execsql \{SELECT coalesce(nullif(1,2),'nil')\}
  } {1}
  do_test func-6.5 {
    execsql \{SELECT coalesce(nullif(1,NULL),'nil')\}
  } {1}

# Test the last_insert_rowid() function
#
# do_test func-7.1 {
  execsql \{SELECT last_insert_rowid()\}
} [db last_insert_rowid]

# Tests for aggregate functions and how they handle NULLs.
#
ifcapable floatingpoint {
  do_test func-8.1 {
    ifcapable explain {
      execsql \{EXPLAIN SELECT sum(a) FROM t2;\}
    }
    execsql {
      SELECT sum(a), count(a), round(avg(a),2), min(a), max(a), count(*) FROM t2;
    }
  }
}
ifcapable !floatingpoint {
  do_test func-8.1 {
    ifcapable explain {
      execsql [EXPLAIN SELECT sum(a) FROM t2;]
    }
    execsql {
      SELECT sum(a), count(a), avg(a), min(a), max(a), count(*) FROM t2;
    }
  }
  do_test func-8.2 {
    execsql {
      SELECT max('z+'||a||'abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOP') FROM t2;
    }
  }
}

ifcapable tempdb {
  do_test func-8.3 {
    execsql {
      CREATE TEMP TABLE t3 AS SELECT a FROM t2 ORDER BY a DESC;
      SELECT min('z+'||a||'abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOP') FROM t3;
    }
  }
  do_test func-8.4 {
    execsql {
      SELECT max('z+'||a||'abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOP') FROM t3;
    }
  }
}

ifcapable compound {
  do_test func-8.5 {
    execsql {
      SELECT sum(x) FROM (SELECT '9223372036' || '854775807' AS x
        UNION ALL SELECT -9223372036854775807)
    }
  }
  do_test func-8.6 {
    execsql {
      SELECT typeof(sum(x)) FROM (SELECT '9223372036' || '854775807' AS x
        UNION ALL SELECT -9223372036854775807)
    }
  }
}
UNION ALL SELECT -9223372036854775807)

} } } {integer}
do_test func-8.7 {
  execsql {
    SELECT typeof(sum(x)) FROM (SELECT '9223372036' || '854775808' AS x
    UNION ALL SELECT -9223372036854775807)

  }
} } } {real}
ifcapable floatingpoint {
do_test func-8.8 {
  execsql {
    SELECT sum(x)>0.0 FROM (SELECT '9223372036' || '854775808' AS x
    UNION ALL SELECT -9223372036850000000)

  }
} } } {1}
}
ifcapable !floatingpoint {
do_test func-8.8 {
  execsql {
    SELECT sum(x)>0.0 FROM (SELECT '9223372036' || '854775808' AS x
    UNION ALL SELECT -9223372036850000000)

  }
} } } {1}
}

# How do you test the random() function in a meaningful, deterministic way?
#
do_test func-9.1 {
  execsql {
    SELECT random() is not null;
  }
} } } {1}
do_test func-9.2 {
  execsql {
    SELECT typeof(random());
  }
} } } {integer}
do_test func-9.3 {
  execsql {
    SELECT randomblob(32) is not null;
  }
} } } {1}
do_test func-9.4 {
  execsql {
    SELECT typeof(randomblob(32));
  }
} } }
do_test func-9.5 {
    execsql {
        SELECT length(randomblob(32)), length(randomblob(-5)),
            length(randomblob(2000))
    }
}
# The "hex()" function was added in order to be able to render blobs
# generated by randomblob(). So this seems like a good place to test
# hex().
#
ifcapable bloblit {
    do_test func-9.10 {
        execsql {SELECT hex(x'00112233445566778899aAbBcCdDeEfF'))
        } {00112233445566778899AABBCCDDEEFF}
    }
set encoding [db one {PRAGMA encoding}]
if {$encoding=="UTF-16le"} {
    do_test func-9.11-utf16le {
        execsql {SELECT hex(replace('abcdefg','ef','12'))
        } {6100620063006400310032006700}
    }
    do_test func-9.12-utf16le {
        execsql {SELECT hex(replace('abcdefg','",','12'))
        } {6100620063006400650066006700}
    }
    do_test func-9.13-utf16le {
        execsql {SELECT hex(replace('aabcdefg','a','aaa'))
        } {610061006100610061006100626364656667}
    }
e elseif {$encoding=="UTF-8"} {
    do_test func-9.11-utf8 {
        execsql {SELECT hex(replace('abcdefg','ef','12'))
        } {616263643103267}
    }
    do_test func-9.12-utf8 {
        execsql {SELECT hex(replace('abcdefg','",','12'))
        } {6162636456667}
    }
    do_test func-9.13-utf8 {
        execsql {SELECT hex(replace('aabcdefg','a','aaa'))
        } {61616161616162636456667}
    }
}
# Use the "sqlite_register_test_function" TCL command which is part of
# the text fixture in order to verify correct operation of some of
# the user-defined SQL function APIs that are not used by the built-in
# functions.
#
set ::DB [sqlite3_connection_pointer db]
sqlite_register_test_function $::DB testfunc
do_test func-10.1 {
catchsql {
    SELECT testfunc(NULL, NULL);
}
} {1 {first argument should be one of: int, int64, string, double, null value}}
do_test func-10.2 {
execsql {
    SELECT testfunc('string', 'abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZ', 'int', 1234);
}
} {1234}
do_test func-10.3 {
execsql {
    SELECT testfunc('string', 'abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZ', 'string', NULL);
}
} {}
ifcapable floatingpoint {
do_test func-10.4 {
execsql {
    SELECT testfunc('string', 'abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZ', 'double', 1.234);
}
} {1.234}
do_test func-10.5 {
execsql {
    SELECT testfunc('string', 'abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZ', 'int', 1234, 'string', 'abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZ', 'string', NULL, 'string', 'abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZ', 'double', 1.234, 'string', 'abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZ', 'int', 1234, 'string', 'abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZ', 'string', NULL, 'string', 'abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZ', 'double', 1.234);
}
} {1.234}
# Test the built-in sqlite_version(*) SQL function.

do_test func-11.1 {
execsql {
   SELECT sqlite_version(*);
}
} [sqlite3 -version]

# Test that destructors passed to sqlite3 by calls to sqlite3_result_text() etc. are called. These tests use two special user-defined functions (implemented in func.c) only available in test builds.

# Function test_destructor() takes one argument and returns a copy of the text form of that argument. A destructor is associated with the return value. Function test_destructor_count() returns the number of outstanding destructor calls for values returned by test_destructor().

if ([db eval {PRAGMA encoding}]=="UTF-8") {
do_test func-12.1-utf8 {
execsql {
   SELECT test_destructor('hello world'), test_destructor_count();
}
} {{hello world} 1}
} else {
   ifcapable {utf16} {
do_test func-12.1-utf16 {
execsql {
   SELECT test_destructor16('hello world'), test_destructor_count();
}
} {{hello world} 1}
}
do_test func-12.2 {
execsql {
   SELECT test_destructor_count();
}
} {0}
do_test func-12.3 {
execsql {
   SELECT test_destructor('hello')||' world'
}
} {{hello world}}
do_test func-12.4 {
execsql {
   SELECT test_destructor_count();
}
}
function = 12.5
execsql {
    CREATE TABLE t4(x);
    INSERT INTO t4 VALUES(test_destructor('hello'));
    INSERT INTO t4 VALUES(test_destructor('world'));
    SELECT min(test_destructor(x)), max(test_destructor(x)) FROM t4;
}

function = 12.6
execsql {
    SELECT test_destructor_count();
}

function = 12.7
execsql {
    DROP TABLE t4;
}

# Test that the auxdata API for scalar functions works. This test uses
# a special user-defined function only available in test builds,
# test_auxdata(). Function test_auxdata() takes any number of arguments.
function = 13.1
execsql {
    SELECT test_auxdata('hello world');
}

function = 13.2
execsql {
    CREATE TABLE t4(a, b);
    INSERT INTO t4 VALUES('abc', 'def');
    INSERT INTO t4 VALUES('ghi', 'jkl');
}

function = 13.3
execsql {
    SELECT test_auxdata('hello world') FROM t4;
}

function = 13.4
execsql {
    SELECT test_auxdata('hello world', 123) FROM t4;
}

function = 13.5
execsql {
    SELECT test_auxdata('hello world', a) FROM t4;
} {{0 0} {1 0}}
do_test func-13.6 {
    execsql {
        SELECT test_auxdata('hello''world', a) FROM t4;
    } {{0 0} {1 0}}
}

# Test that auxiliary data is preserved between calls for SQL variables.
do_test func-13.7 {
    set DB [sqlite3_connection_pointer db]
    set sql "SELECT test_auxdata( ?, a ) FROM t4;"
    set STMT [sqlite3_prepare $DB $sql -1 TAIL]
    sqlite3_bind_text $STMT 1 hello\000 -1
    set res [list]
    while { "SQLITE_ROW"==[sqlite3_step $STMT] } {
        lappend res [sqlite3_column_text $STMT 0]
    }
    lappend res [sqlite3_finalize $STMT]
} {{0 0} {1 0} SQLITE_OK}

# Make sure that a function with a very long name is rejected
do_test func-14.1 {
    catch {
        db function [string repeat X 254] {return "hello"}
    } {0}
}
do_test func-14.2 {
    catch {
        db function [string repeat X 256] {return "hello"}
    } {1}
}

do_test func-15.1 {
    catchsql {select test_error(NULL)}
} {1 {}}
do_test func-15.2 {
    catchsql {select test_error('this is the error message')} 
} {1 {this is the error message}}
do_test func-15.3 {
    catchsql {select test_error('this is the error message',12)}
} {1 {this is the error message}}
do_test func-15.4 {
    db errorcode
} {12}
# Test the quote function for BLOB and NULL values.
do_test func-16.1 {
  execsql {
    CREATE TABLE tbl2(a, b);
  }
  set STMT [sqlite3_prepare $::DB "INSERT INTO tbl2 VALUES(?, ?)" -1 TAIL]
  sqlite3_bind_blob $::STMT 1 abc 3
  sqlite3_step $::STMT
  sqlite3_finalize $::STMT
  execsql {
    SELECT quote(a), quote(b) FROM tbl2;
  }
} {X'616263' NULL}

# Correctly handle function error messages that include %. Ticket #1354
#
do_test func-17.1 {
  proc testfunc1 args {error "Error %d with %s percents %p"}
  db function testfunc1 ::testfunc1
  catchsql {
    SELECT testfunc1(1,2,3);
  }
} {1 {Error %d with %s percents %p}}

# The SUM function should return integer results when all inputs are integer.
#
do_test func-18.1 {
  execsql {
    CREATE TABLE t5(x);
    INSERT INTO t5 VALUES(1);
    INSERT INTO t5 VALUES(-99);
    INSERT INTO t5 VALUES(10000);
    SELECT sum(x) FROM t5;
  }
} {9902}
ifcapable floatingpoint {
  do_test func-18.2 {
    execsql {
      INSERT INTO t5 VALUES(0.0);
      SELECT sum(x) FROM t5;
    }
  } {9902.0}
}

# The sum of nothing is NULL. But the sum of all NULLs is NULL.
#
# The TOTAL of nothing is 0.0.
#
do_test func-18.3 {
excsq1 {
   DELETE FROM t5;
   SELECT sum(x), total(x) FROM t5;
}
} {{ 0.0}
do_test func-18.4 {
excsq1 {
   INSERT INTO t5 VALUES(NULL);
   SELECT sum(x), total(x) FROM t5
}
} {{ 0.0}
do_test func-18.5 {
excsq1 {
   INSERT INTO t5 VALUES(NULL);
   SELECT sum(x), total(x) FROM t5
}
} {{ 0.0}
do_test func-18.6 {
excsq1 {
   INSERT INTO t5 VALUES(123);
   SELECT sum(x), total(x) FROM t5
}
} {123 123.0}

# Ticket #1664, #1669, #1670, #1674: An integer overflow on SUM causes
# an error. The non-standard TOTAL() function continues to give a helpful
# result.
#
do_test func-18.10 {
excsq1 {
   CREATE TABLE t6(x INTEGER);
   INSERT INTO t6 VALUES(1);
   INSERT INTO t6 VALUES(1<<62);
   SELECT sum(x) - ((1<<62)+1) from t6;
}
} 0
do_test func-18.11 {
excsq1 {
   SELECT typeof(sum(x)) FROM t6
}
} integer
ifcapable floatingpoint {
do_test func-18.12 {
catchsql {
   INSERT INTO t6 VALUES(1<<62);
   SELECT sum(x) - ((1<<62)*2.0+1) from t6;
}
do_test func-18.13 {
    execsql {
        SELECT total(x) - ((1<<62)*2.0+1) FROM t6
    }
    0.0
}
ifcapable !floatingpoint {
do_test func-18.12 {
catchsql {
    INSERT INTO t6 VALUES(1<<62);
    SELECT sum(x) - ((1<<62)*2+1) from t6;
}
} {1 {integer overflow}}
do_test func-18.13 {
    execsql {
        SELECT total(x) - ((1<<62)*2+1) FROM t6
    }
    0.0
}
if [working_64bit_int] {
do_test func-18.14 {
    execsql {
        SELECT sum(-9223372036854775805);
    }
} -9223372036854775797
}
ifcapable compound&&subquery {
do_test func-18.15 {
catchsql {
    SELECT sum(x) FROM
        (SELECT 9223372036854775807 AS x UNION ALL
        SELECT 10 AS x);
}
} {1 {integer overflow}}
if [working_64bit_int] {
do_test func-18.16 {
catchsql {
    SELECT sum(x) FROM
        (SELECT 9223372036854775807 AS x UNION ALL
        SELECT -10 AS x);
}
} {0 9223372036854775797}
do_test func-18.17 {
catchsql {
    SELECT sum(x) FROM
        (SELECT -9223372036854775807 AS x UNION ALL
        SELECT 9223372036854775807 AS x UNION ALL
        SELECT 10 AS x);
}
} {1 {integer overflow}}
SELECT 10 AS x);
}
} {0 -9223372036854775797}
do_test func-18.18 {
catchsql {

SELECT sum(x) FROM
(SELECT -9223372036854775807 AS x UNION ALL
SELECT -10 AS x);
}
} {1 {integer overflow}}
do_test func-18.19 {
catchsql {

SELECT sum(x) FROM (SELECT 9 AS x UNION ALL SELECT -10 AS x);
}
} {0 -1}
do_test func-18.20 {
catchsql {

SELECT sum(x) FROM (SELECT -9 AS x UNION ALL SELECT 10 AS x);
}
} {0 1}
do_test func-18.21 {
catchsql {

SELECT sum(x) FROM (SELECT -10 AS x UNION ALL SELECT 9 AS x);
}
} {0 -1}
do_test func-18.22 {
catchsql {

SELECT sum(x) FROM (SELECT 10 AS x UNION ALL SELECT -9 AS x);
}
} {0 1}

}; # if capable compound&&subquery

# Integer overflow on abs()
#
if [{working_64bit_int}] {
do_test func-18.31 {
catchsql {

SELECT abs(-9223372036854775807);
}
} {0 9223372036854775807}
do_test func-18.32 {
catchsql {

SELECT abs(-9223372036854775807-1);
}
} {1 {integer overflow}}
# The MATCH function exists but is only a stub and always throws an error.
#
do_test func-19.1 {
  execsql {
    SELECT match(a,b) FROM t1 WHERE 0;
  }
} {}
do_test func-19.2 {
  catchsql {
    SELECT 'abc' MATCH 'xyz';
  }
} {1 {unable to use function MATCH in the requested context}}
do_test func-19.3 {
  catchsql {
    SELECT 'abc' NOT MATCH 'xyz';
  }
} {1 {unable to use function MATCH in the requested context}}
do_test func-19.4 {
  catchsql {
    SELECT match(1,2,3);
  }
} {1 {wrong number of arguments to function match()}}

# Soundex tests.
#
if ![catch {db eval {SELECT soundex('hello')}}] {
  set i 0
  foreach {name sdx} {
    euler    E460
    EULER    E460
    Euler    E460
    ellery   E460
    gauss    G200
    ghosh    G200
    hilbert  H416
    Heilbronn H416
    knuth    K530
    kant     K530
    Lloyd    L300
    LADD     L300
    Lukasiewicz L222
    Lissajous L222
    A        A000
    12345    ?000
  } {
    incr i
  do_test func-20.$i {
execsql {SELECT soundex($name)}
} $sdx
}

# Tests of the REPLACE function.
#
do_test func-21.1 {
catchsql {
    SELECT replace(1,2);
}
} {1 {wrong number of arguments to function replace()}}
do_test func-21.2 {
catchsql {
    SELECT replace(1,2,3,4);
}
} {1 {wrong number of arguments to function replace()}}
do_test func-21.3 {
execsql {
    SELECT typeof(replace("This is the main test string", NULL, "ALT"));
}
} {null}
do_test func-21.4 {
execsql {
    SELECT typeof(replace(NULL, "main", "ALT"));
}
} {null}
do_test func-21.5 {
execsql {
    SELECT typeof(replace("This is the main test string", "main", NULL));
}
} {null}
do_test func-21.6 {
execsql {
    SELECT replace("This is the main test string", "main", "ALT");
}
} {{This is the ALT test string}}
do_test func-21.7 {
execsql {
    SELECT replace("This is the main test string", "main", "larger-main");
}
} {{This is the larger-main test string}}
do_test func-21.8 {
execsql {
    SELECT replace("aaaaaaa", "a", "0123456789");
}
} {0123456789012345678901234567890123456789012345678901234567890123456789}
if capable tclvar {
  do_test func-21.9 {
    # Attempt to exploit a buffer-overflow that at one time existed
    # in the REPLACE function.
    set ::str "[string repeat A 29998]CC[string repeat A 35537]"
    set ::rep [string repeat B 65536]
    execsql {
      SELECT LENGTH(REPLACE($::str, 'C', $::rep));
    }
    [expr 29998 + 2*65536 + 35537]
  }

  # Tests for the TRIM, LTRIM and RTRIM functions.
  #
  do_test func-22.1 {
    catchsql {SELECT trim(1,2,3)}
    [1 {wrong number of arguments to function trim()})
  }
  do_test func-22.2 {
    catchsql {SELECT ltrim(1,2,3)}
    [1 {wrong number of arguments to function ltrim()})
  }
  do_test func-22.3 {
    catchsql {SELECT rtrim(1,2,3)}
    [1 {wrong number of arguments to function rtrim()})
  }
  do_test func-22.4 {
    execsql {SELECT trim('  hi  ')}
    {hi}
  }
  do_test func-22.5 {
    execsql {SELECT ltrim('  hi  ')}
    {hi}
  }
  do_test func-22.6 {
    execsql {SELECT rtrim('  hi  ')}
    {hi}
  }
  do_test func-22.7 {
    execsql {SELECT trim('  hi  ','xyz')} 
    {hi}
  }
  do_test func-22.8 {
    execsql {SELECT ltrim('  hi  ','xyz')} 
    {hi}
  }
  do_test func-22.9 {
    execsql {SELECT rtrim('  hi  ','xyz')} 
    {hi}
  }
  do_test func-22.10 {
    execsql {SELECT trim('xyxzy  hi  zzzy','xyz')} 
    {hi}
  }
  do_test func-22.11 {
    execsql {SELECT ltrim('xyxzy  hi  zzzy','xyz')} 
    {hi zzzy}
  }
  do_test func-22.12 {

execsql {SELECT rtrim('xyxzy hi zzzy','xyz');} 
} {{xyxzy hi }}
do_test func-22.13 {
execsql {SELECT trim(’ hi ‘);} 
} {{ hi }}
if {[db one {PRAGMA encoding}]=="UTF-8"} {
do_test func-22.14 {
execsql {SELECT hex(trim(x’c280e1bfbff48fbf6869’,x’6162e1bfbfc280’));}
} {F48FBFBF6869}
do_test func-22.15 {
execsql {SELECT hex(trim(x’6869c280e1bfbff48fbf61’,
   x’6162e1bfbfc280f48fbf’));}
} {6869}
do_test func-22.16 {
execsql {SELECT hex(trim(x’ceb1ceb2ceb3’,x’ceb1’));}
} {CEB2CEB3}
}
do_test func-22.20 {
execsql {SELECT typeof(trim(NULL));} 
} {null}
do_test func-22.21 {
execsql {SELECT typeof(trim(NULL,’xyz’));} 
} {null}
do_test func-22.22 {
execsql {SELECT typeof(trim(’hello’,NULL));} 
} {null}

# This is to test the deprecated sqlite3_aggregate_count() API.
# ifcapable deprecated {
do_test func-23.1 {
   sqlite3_create_aggregate db
   execsql {
       SELECT legacy_count() FROM t6;
   }
} {3}
}

# The group_concat() function.
# do_test func-24.1 {
   execsql {
       SELECT group_concat(t1) FROM tbl1
   }
} {this.program.is.free.software}
do_test func-24.2 {
   execsql {
       SELECT group_concat(t1,’ ‘) FROM tbl1
   }
}
do_test func-24.3 {
  execsql {
    SELECT group_concat(t1,¨ || rowid ¦ ”) FROM tbl1
  }
} {{this program is free software}}
do_test func-24.4 {
  execsql {
    SELECT group_concat(NULL,t1) FROM tbl1
  }
} {{}}
do_test func-24.5 {
  execsql {
    SELECT group_concat(t1,NULL) FROM tbl1
  }
} {thisprogramisfreesoftware}
do_test func-24.6 {
  execsql {
    SELECT 'BEGIN-'||group_concat(t1) FROM tbl1
  }
} {BEGIN-this,program,is,free,software}

# Ticket #3179: Make sure aggregate functions can take many arguments.
# None of the built-in aggregates do this, so use the md5sum() from the
# test extensions.
#
unset -nocomplain midargs
set midargs {}
unset -nocomplain midres
set midres {}
unset -nocomplain result
for {set i 1} {$i<[sqlite3_limit db SQLITE_LIMIT_FUNCTION_ARG -1]} {incr i} {
  append midargs ,/$i'
  append midres /$i
  set result [md5
    "this$[midres]program$[midres]is$[midres]free$[midres]software$[midres]"
  set sql "SELECT md5sum(t1$midargs) FROM tbl1"
  do_test func-24.7.$i {
    db eval $::sql
  } $result
}

# Ticket #3806. If the initial string in a group_concat is an empty
# string, the separator that follows should still be present.
#
do_test func-24.8 {
  execsql {

SELECT group_concat(CASE t1 WHEN 'this' THEN '' ELSE t1 END) FROM tbl1
}
} {.program,is,free,software}
do_test func-24.9 {
execsql {
  SELECT group_concat(CASE WHEN t1!='software' THEN '' ELSE t1 END) FROM tbl1
}
} {,program,is,free,software}
do_test func-24.10 {
execsql {
  SELECT group_concat(CASE t1 WHEN 'this' THEN null ELSE t1 END) FROM tbl1
}
} {program,is,free,software}
do_test func-24.11 {
execsql {
  SELECT group_concat(CASE WHEN t1!='software' THEN null ELSE t1 END) FROM tbl1
}
} {software}
do_test func-24.12 {
execsql {
  SELECT group_concat(CASE t1 WHEN 'this' THEN ''
                   WHEN 'program' THEN null ELSE t1 END) FROM tbl1
}
} {,is,free,software}

# Ticket #3923.  Initial empty strings have a separator.  But initial
# NULLs do not.
#
do_test func-25.1 {
execsql {SELECT test_isolation(t1,t1) FROM tbl1}
} {this program is free software}

# Try to misuse the sqlite3_create_function() interface.  Verify that
# errors are returned.
#
do_test func-26.1 {
  abuse_create_function db
} {}
do_test func-26.2 {
set a {}
for {set i 1} {$i<=$::SQLITE_MAX_FUNCTION_ARG} {incr i} {
lappend a $i
}
db eval "
SELECT
nullx_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_12345678
9_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_1
23456789_123456789_123456789_123456789_123456789_123456789_123456789([join $a ,]);
"
} {{}}
do_test func-26.3 {
set a {}
for {set i 1} {$i<=$::SQLITE_MAX_FUNCTION_ARG+1} {incr i} {
lappend a $i
}
catchsql "
SELECT
nullx_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_12345678
9_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_1
23456789_123456789_123456789_123456789_123456789_123456789_123456789([join $a ,]);
"
} {1 {too many arguments on function
nullx_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_12345678
9_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_1
23456789_123456789_123456789_123456789_123456789_123456789_123456789}}
do_test func-26.4 {
set a {}
for {set i 1} {$i<=$::SQLITE_MAX_FUNCTION_ARG-1} {incr i} {
lappend a $i
}
catchsql "
SELECT
nullx_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_12345678
9_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_1
23456789_123456789_123456789_123456789_123456789_123456789_123456789([join $a ,]);
"
} {1 {wrong number of arguments to function
nullx_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_12345678
9_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_1
23456789_123456789_123456789_123456789_123456789_123456789_123456789()}}
do_test func-26.5 {
catchsql "
SELECT
nullx_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_12345678
9_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_1
23456789_123456789_123456789_123456789_123456789_123456789_12345678a(0);

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do_test func-26.6 {
    catchsql "
    SELECT
    
    do_test func-27.1 {
        catchsql {SELECT coalesce()}
    } {1 {wrong number of arguments to function coalesce()}}
    do_test func-27.2 {
        catchsql {SELECT coalesce(1)}
    } {1 {wrong number of arguments to function coalesce()}}
    do_test func-27.3 {
        catchsql {SELECT coalesce(1,2)}
    } {0 1}

# Ticket 2d401a94287b5
# Unknown function in a DEFAULT expression causes a segfault.
#
# Ticket 2d401a94287b5
# Unknown function in a DEFAULT expression causes a segfault.
#
    do_test func-28.1 {
        db eval {
            CREATE TABLE t28(x, y DEFAULT(nosuchfunc(1)));
        }
        catchsql {
            INSERT INTO t28(x) VALUES(1);
        }
    } {1 {unknown function: nosuchfunc()}}

# Verify that the length() and typeof() functions do not actually load
# the content of their argument.
#
    do_test func-29.1 {
        db eval {
            CREATE TABLE t29(id INTEGER PRIMARY KEY, x, y);
            INSERT INTO t29 VALUES(1, 2, 3), (2, NULL, 4), (3, 4.5, 5);
            INSERT INTO t29 VALUES(4, randomblob(1000000), 6);
            INSERT INTO t29 VALUES(5, "hello", 7);
        }
    }
do_test func-29.2 {
  set x [lindex [sqlite3_db_status db CACHE_MISS 1] 1]
  if {$x<5} {set x 1}
  set x
} {1}

do_test func-29.3 {
  db close
  sqlite3 db test.db
  sqlite3_db_status db CACHE_MISS 1
  db eval {SELECT typeof(+x) FROM t29 ORDER BY id}
  } {integer null real blob text}
  if {[[permutation] != "mmap"]} {
    do_test func-29.4 {
      set x [lindex [sqlite3_db_status db CACHE_MISS 1] 1]
      if {$x>100} {set x many}
      set x
    } {many}
  }

  do_test func-29.5 {
    db close
    sqlite3 db test.db
    sqlite3_db_status db CACHE_MISS 1
    db eval {SELECT sum(length(x)) FROM t29}
  } {1000009}

  do_test func-29.6 {
    set x [lindex [sqlite3_db_status db CACHE_MISS 1] 1]
    if {$x<5} {set x 1}
    set x
  } {1}

  do_execsql_test func-30.1 {SELECT unicode('$');} 36
  do_execsql_test func-30.2 [subst {SELECT unicode('\u00A2');}] 162
  do_execsql_test func-30.3 [subst {SELECT unicode('\u20AC');}] 8364
  do_execsql_test func-30.4 [SELECT char(36,162,8364);] [subst {$\u00A2\u20AC}]

  for {set i 1} {$i<0xd800} {incr i 13} {
    do_execsql_test func-30.5.$i [SELECT unicode(char($i))]; $i
  }

  for {set i 57344} {$i<=0xffff} {incr i 17} {
    if {$i==0xfffd} continue
    do_execsql_test func-30.5.$i [SELECT unicode(char($i))]; $i
  }
for {set i 65536} {i <= 0x10ffff} {incr i 139} {
    do_execsql_test func-30.5.$i {SELECT unicode(char($i))} $i
}

finish_test

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# 2006 September 14
#
# The author disclaims copyright to this source code.  In place of
# a legal notice, here is a blessing:
#
#  May you do good and not evil.
#  May you find forgiveness for yourself and forgive others.
#  May you share freely, never taking more than you give.
#
#*************************************************************************
# This file implements regression tests for SQLite library.  The
# focus of this script is testing the FTS1 module.
#
# $Id: fts1c.test,v 1.11 2006/10/04 17:35:28 drh Exp $
set testdir [file dirname $argv0]
source $testdir/tester.tcl

# If SQLITE_ENABLE_FTS1 is defined, omit this file.
if capable !fts1 {
    finish_test
    return
}

# Create a table of sample email data. The data comes from email archives of Enron executives that was published as part of the litigation against that company.
#
do_test fts1c-1.1 {
    db eval {
        CREATE VIRTUAL TABLE email USING fts1([from],[to],subject,body);
        BEGIN TRANSACTION;
        INSERT INTO email([from],[to],subject,body) VALUES('savita.puthigai@enron.com', 'traders.eol@enron.com, traders.eol@enron.com', 'EnronOnline- Change to Autohedge', 'Effective Monday, October 22, 2001 the following changes will be made to the Autohedge functionality on EnronOnline.

The volume on the hedge will now respect the minimum volume and volume increment settings on the parent product. See rules below:

?If the transaction volume on the child is less than half of the parent”s minimum volume no hedge will occur.
?If the transaction volume on the child is more than half the parent”s minimum volume but less than half the volume increment on the parent, the hedge will volume will be the parent’s minimum volume.
?For all other volumes, the same rounding rules will apply based on the volume increment on the parent product.

Please see example below:

Parent”s Settings:
Minimum: 5000
Increment: 1000

Volume on Autohedge transaction
Volume Hedged
1 - 24990
2500 - 54995000
5500 - 64996000);
INSERT INTO email([from],[to],subject,body) VALUES('dana.davis@enron.com', 'laynie.east@enron.com, lisa.king@enron.com', 'Leaving Early', 'FYI:
If it”s ok with everyone”s needs, I would like to leave @4pm. If you think you will need my assistance past the 4 o’clock hour just let me know; I”ll be more than willing to stay.’);
INSERT INTO email([from],[to],subject,body) VALUES('enron_update@concureworkplace.com', 'louise.kitchen@enron.com', ‘<<Concur Expense Document)>> - CC02.06.02’, 'The following expense report is ready
for approval:

Employee Name: Christopher F. Calger
Status last changed by: Mollie E. Gustafson Ms
Expense Report Name: CC02.06.02
Report Total: $3,972.93
Amount Due Employee: $3,972.93

To approve this expense report, click on the following link for Concur Expense.
http://expensexms.enron.com);
INSERT INTO email([from],[to],subject,body) VALUES('jeff.duff@enron.com', 'julie.johnson@enron.com', 'Work request', 'Julie,

Could you print off the current work request report by 1:30 today?

Gentlemen,

I'd like to review this today at 1:30 in our office. Also, could you provide me with your activity reports so I can have Julie enter this information.

JD');
INSERT INTO email([from],[to],subject,body) VALUES('v.weldon@enron.com', 'gary.l.carrier@usa.dupont.com, scott.joyce@bankofamerica.com', 'Enron News', 'This could turn into something big.... http://biz.yahoo.com/rt/010129/n29305829.html);
INSERT INTO email([from],[to],subject,body) VALUES('mark.haedicke@enron.com', 'paul.simons@enron.com', 'Re: First Polish Deal!', 'Congrats! Things seem to be building rapidly now on the Continent. Mark');
INSERT INTO email([from],[to],subject,body) VALUES('e.carter@enron.com', 't.robinson@enron.com', 'FW: Producers Newsletter 9-24-2001', 'The producer lumber pricing sheet.

-----Original Message-----
From: Johnson, Jay
Sent:Tuesday, October 16, 2001 3:42 PM
To:Carter, Karen E.
Subject:FW: Producers Newsletter 9-24-2001

-----Original Message-----
From: Daigre, Sergai
Sent:Friday, September 21, 2001 8:33 PM
Subject:Producers Newsletter 9-24-2001

');
INSERT INTO email([from],[to],subject,body) VALUES('david.delainey@enron.com', 'kenneth.lay@enron.com', 'Greater Houston Partnership', 'Ken, in response to the letter from Mr Miguel San Juan, my suggestion would be to offer up the Falcon for their use; however, given the tight time frame and your recent visit with Mr. Fox that it would be difficult for either you
or me to participate.

I spoke to Max and he agrees with this approach.

I hope this meets with your approval.

Regards
Delainey');

INSERT INTO email([from],[to],subject,body) VALUES('lachandra.fenceroy@enron.com', 'lindy.donoho@enron.com', 'FW: Bus Applications Meeting Follow Up', 'Lindy,

Here is the original memo we discussed earlier. Please provide any information that you may have.

Your cooperation is greatly appreciated.

Thanks,

lachandra.fenceroy@enron.com
713.853.3884
877.498.3401 Pager

-----Original Message-----
From: Bisbee, Joanne
Sent: Wednesday, September 26, 2001 7:50 AM
To: Fenceroy, LaChandra
Subject: FW: Bus Applications Meeting Follow Up

Lachandra, Please get with David Duff today and see what this is about. Who are our TW accounting business users?

-----Original Message-----
From: Koh, Wendy
Sent: Tuesday, September 25, 2001 2:41 PM
To: Bisbee, Joanne
Subject: Bus Applications Meeting Follow Up

Lisa brought up a TW change effective Nov 1. It involves eliminating a turnback surcharge. I have no other information, but you might check with the business folks for any system changes required.

Wendy');

INSERT INTO email([from],[to],subject,body) VALUES('danny.mccarty@enron.com', 'fran.fagan@enron.com', 'RE: worksheets', 'Fran,

If Julie’s merit needs to be lump sum, just move it over to that column. Also, send me Eric Gadd’s sheets as well.

Thanks.
Dan

-----Original Message-----
From: Fagan, Fran
As discussed, attached are your sheets for bonus and merit.

Thanks,

Fran Fagan
Sr. HR Rep
713.853.5219

<< File: McCartyMerit.xls >> << File: mccartyBonusCommercial_UnP.xls >>

INSERT INTO email([from],[to],subject,body) VALUES('bert.meyers@enron.com', 'shift.dl-portland@enron.com', 'OCTOBER SCHEDULE', 'TEAM,

PLEASE SEND ME ANY REQUESTS THAT YOU HAVE FOR OCTOBER. SO FAR I HAVE THEM FOR LEAF. I WOULD LIKE TO HAVE IT DONE BY THE 15TH OF THE MONTH. ANY QUESTIONS PLEASE GIVE ME A CALL.

BERT');
INSERT INTO email([from],[to],subject,body) VALUES('errol.mclaughlin@enron.com', 'john.arnold@enron.com, bilal.bajwa@enron.com, john.griffith@enron.com. ', 'TRV Notification: (NG - PROPT P/L - 09/27/2001)', 'The report named: NG - PROPT P/L <http://trv.corp.enron.com/linkFromExcel.asp?report_cd=11&report_name=NG+-+PROPT+P/L&category_cd=5&category_name=FINANCIAL&toc_hide=1&sTV1=5&TV1Exp=Y&current_efct_date=09/27/2001>, published as of 09/27/2001 is now available for viewing on the website.);
INSERT INTO email([from],[to],subject,body) VALUES('patrice.mims@enron.com', 'calvin.eakins@enron.com', 'Re: Small business supply assistance', 'Hi Calvin

I spoke with Rickey (boy, is he long-winded!!). Gave him the name of our credit guy, Russell Diamond.

Thank for your help!');
INSERT INTO email([from],[to],subject,body) VALUES('legal <.hall@enron.com>', 'stephanie.panus@enron.com', 'Termination update', 'City of Vernon and Salt River Project terminated their contracts. I will fax these notices to you.);
INSERT INTO email([from],[to],subject,body) VALUES('d..steffes@enron.com', 'richard.shapiro@enron.com', 'EES / ENA Government Affairs Staffing & Outside Services', 'Rick --

Here is the information on staffing and outside services. Call if you need anything else.

Jim

');
Dear Power Outage Database Customer,

Attached you will find an excel document. The outages contained within are forced or rescheduled outages. Your daily delivery will still contain these outages.

In addition to the two excel documents, there is a dbf file that is formatted like your daily deliveries you receive nightly. This will enable you to load the data into your regular database. Any questions please let me know. Thanks.

Greg Elliott
IIR, Inc.
713-783-5147 x 3481
outages@industrialinfo.com

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- OUTAGE.dbf
- 111201R.xls
- 111201.xls

You are invited to attend the EWS Brown Bag Lunch Series

Featuring: RAY BOWEN, COO

Topic: Enron Industrial Markets

Thursday, March 15, 2001
11:30 am - 12:30 pm
EB 5 C2

You bring your lunch, Limited Seating
We provide drinks and dessert. RSVP x 3-9610

"Immer, Ingrid" <Ingrid.Immer@Williams.com> on 12/21/2000 11:48:47 AM
To: "chris.germany@enron.com" <chris.germany@enron.com>
cc: Subject: About St Pauls

The information contained in this E-mail is legally privileged and confidential. Information intended only for the use of the individual or entity named above. You are hereby notified that any dissemination, distribution, or copy of this E-mail to unauthorized entities is strictly prohibited. If you have received this E-mail in error, please delete it.
Chris,

I like the looks of this place. What do you think about going here Christmas eve? They have an 11:00 a.m. service and a candlelight service at 5:00 p.m., among others.

Let me know.?? ii

- About St Pauls.url

');
INSERT INTO email([from],[to],subject,body) VALUES('nas@cpuc.ca.gov', 'skatz@sempratrading.com, kmccrea@sablaw.com, thompson@wrightlaw.com,',' Reply Brief filed July 31, 2000', ' - CPUC01-#76371-v1-Revised_Reply_Brief__Due_today_7_31_.doc');
INSERT INTO email([from],[to],subject,body) VALUES('gascontrol@aglresources.com', 'dscott4@enron.com, lcampbel@enron.com', 'Alert Posted 10:00 AM November 20,2000: E-GAS Request Reminder', 'Alert Posted 10:00 AM November 20,2000: E-GAS Request Reminder

As discussed in the Winter Operations Meeting on Sept.29,2000, E-Gas(Emergency Gas) will not be offered this winter as a service from AGLC. Marketers and Poolers can receive gas via Peaking and IBSS nominations(daisy chain) from other marketers up to the 6 p.m. Same Day 2 nomination cycle.

');
INSERT INTO email([from],[to],subject,body) VALUES('dutch.quigley@enron.com', 'rwolkwitz@powermerchants.com', ',

Here is a goody for you');
INSERT INTO email([from],[to],subject,body) VALUES('ryan.o’rourke@enron.com', 'k..allen@enron.com, randy.bhatia@enron.com, frank.ermis@enron.com,', 'TRV Notification: (West VaR - 11/07/2001)', 'The report named: West VaR


INSERT INTO email([from],[to],subject,body) VALUES('mjones7@txu.com', 'cstone1@txu.com, ggreen2@txu.com, timpowell@txu.com,',' Enron / HPL Actuals for July 10, 2000', 'Enron / HPL Actuals for July 10, 2000

LS HPL LSK IC 30.000 / Enron

');
INSERT INTO email([from],[to],subject,body) VALUES('susan.pereira@enron.com', 'kkw816@aol.com', 'soccer practice', 'Kathy-

Is it safe to assume that practice is cancelled for tonight??
Susan Pereira);
INSERT INTO email([from],[to],subject,body) VALUES('mark.whitt@enron.com', 'barry.tycholiz@enron.com', 'Huber Internal Memo', 'Please look at this. I didn't know how deep to go with the desk. Do you think this works. ');
INSERT INTO email([from],[to],subject,body) VALUES('m..forney@enron.com', 'george.phillips@enron.com', '', 'George,
Give me a call and we will further discuss opportunities on the 13th floor.

Thanks,
JMForney
3-7160');
INSERT INTO email([from],[to],subject,body) VALUES('brad.mckay@enron.com', 'angusmcka@aol.com', 'Re: (no subject)', 'not yet');
INSERT INTO email([from],[to],subject,body) VALUES('adam.bayer@enron.com', 'jonathan.mckay@enron.com', 'FW: Curve Fetch File', 'Here is the curve fetch file sent to me. It has plenty of points in it. If you give me a list of which ones you need we may be able to construct a secondary worksheet to vlookup the values.

adam
35227

-----Original Message-----
From: Royed, Jeff
Sent: Tuesday, September 25, 2001 11:37 AM
To: Bayer, Adam
Subject: Curve Fetch File

Let me know if it works. It may be required to have a certain version of Oracle for it to work properly.

Jeff Royed
Enron
Energy Operations
Phone: 713-853-5295');
INSERT INTO email([from],[to],subject,body) VALUES('matt.smith@enron.com', 'yan.wang@enron.com', 'Report Formats', 'Yan,
The merged reports look great. I believe the only orientation changes are to "unmerge" the following six reports:

31 Keystone Receipts
15 Questar Pipeline
40 Rockies Production
22 West_2
23 West_3
25 CIG_WIC
The orientation of the individual reports should be correct. Thanks.

Mat

PS. Just a reminder to add the "*" by the title of calculated points.

"Karkour, Randa" <Randa.Karkour@COMPAQ.com> on 09/07/2000 09:01:04 AM
To: "'Agheb (E-mail)" <Agheb@aol.com>, "Leila Mankarious (E-mail)"
<Leila_Mankarious@mhhs.org>, "'Marymankarious (E-mail)"
<marymankarious@aol.com>, "Michelle lokay (E-mail)" <mlokay@enron.com>, "Ramy Mankarious (E-mail)" <Mankarious@aol.com>
cc:

Subject: Egyptian Festival

<<Egyptian Festival.url>>

http://www.egyptianfestival.com/

- Egyptian Festival.url

Thanks

---------------------- Forwarded by Michelle Lokay/ET&S/Enron on 09/07/2000 10:08 AM ---------------------------

"Karkour, Randa" <Randa.Karkour@COMPAQ.com> on 09/07/2000 09:01:04 AM
To: "'Agheb (E-mail)" <Agheb@aol.com>, "Leila Mankarious (E-mail)"
<Leila_Mankarious@mhhs.org>, "'Marymankarious (E-mail)"
<marymankarious@aol.com>, "Michelle lokay (E-mail)" <mlokay@enron.com>, "Ramy Mankarious (E-mail)" <Mankarious@aol.com>
cc:

Subject: Egyptian Festival

<<Egyptian Festival.url>>

http://www.egyptianfestival.com/

- Egyptian Festival.url

');

From: William Kelly @ ECT 12/20/2000 08:31 AM

To: Kam Keiser/HOU/ECT@ECT, Darron C Giron/HOU/ECT@ECT, David Baumbach/HOU/ECT@ECT, Errol McLaughlin/Corp/Enron@ENRON
cc: Kimat Singla/HOU/ECT@ECT, Kulvinder Fowler/NA/Enron@ENRON, Kyle R Lilly/HOU/ECT@ECT, Jeff Royed/Corp/Enron@ENRON, Alejandra Chavez/NA/Enron@ENRON, Crystal Hyde/HOU/ECT@ECT

Subject: New EAST books

We have new book names in TAGG for our intramonth portfolios and it is
extremely important that any deal booked to the East is communicated quickly to someone on my team. I know it will take some time for the new names to sink in and I do not want us to miss any positions or P&L.

Thanks for your help on this.

New:
Scott Neal : East Northeast
Dick Jenkins: East Marketeast

WK

INSERT INTO email([from],[to],subject,body) VALUES('david.forster@enron.com', 'eol.wide@enron.com', 'Change to Stack Manager', 'Effective immediately, there is a change to the Stack Manager which will affect any Inactive Child.

An inactive Child with links to Parent products will not have their calculated prices updated until the Child product is Activated.

When the Child Product is activated, the price will be recalculated and updated BEFORE it is displayed on the web.

This means that if you are inputting a basis price on a Child product, you will not see the final, calculated price until you Activate the product, at which time the customer will also see it.

If you have any questions, please contact the Help Desk on:

Americas: 713 853 4357
Europe: + 44 (0) 20 7783 7783
Asia/Australia: +61 2 9229 2300

Dave');

INSERT INTO email([from],[to],subject,body) VALUES('vince.kaminski@enron.com', 'jhh1@email.msn.com', 'Re: Light reading - see pieces beginning on page 7', 'John,

I saw it. Very interesting.

Vince

"John H Herbert" <jhh1@email.msn.com> on 07/28/2000 08:38:08 AM
To: "Vince J Kaminski" <Vince_J_Kaminski@enron.com>
cc: Subject: Light reading - see pieces beginning on page 7
Cheers and have a nice weekend,

JHHerbert

- gd000728.pdf

');
INSERT INTO email([from],[to],subject,body) VALUES('matthew.lenhart@enron.com', 'mmmarcantel@equiv.com', 'RE:', 'i will try to line up a pig for you ');
INSERT INTO email([from],[to],subject,body) VALUES('jae.black@enron.com', 'claudette.harvey@enron.com, chaun.roberts@enron.com, judy.martinez@enron.com,', 'Disaster Recovery Equipment', 'As a reminder...there are several pieces of equipment that are set up on the 30th Floor, as well as on our floor, for the Disaster Recovery Team. PLEASE DO NOT TAKE, BORROW OR USE this equipment. Should you need to use another computer system, other than yours, or make conference calls please work with your Assistant to help find or set up equipment for you to use.

Thanks for your understanding in this matter.

T.Jae Black
East Power Trading
Assistant to Kevin Presto
off. 713-853-5800
fax 713-646-8272
cell 713-539-4760');
INSERT INTO email([from],[to],subject,body) VALUES('eric.bass@enron.com', 'dale.neuner@enron.com', '5 X 24', 'Dale,

Have you heard anything more on the 5 X 24s? We would like to get this product out ASAP.

Thanks,

Eric');
INSERT INTO email([from],[to],subject,body) VALUES('messenger@smartreminders.com', 'm..tholt@enron.com', '10% Coupon - PrintPal Printer Cartridges - 100% Guaranteed', '[IMAGE][IMAGE][IMAGE][IMAGE]
Dear SmartReminders Member,

[IMAGE] [IMAGE] [IMAGE] [IMAGE] [IMAGE] [IMAGE] [IMAGE] [IMAGE]
We respect your privacy and are a Certified Participant of the BBBOnLine Privacy Program. To be removed from future offers, click here.

SmartReminders.com is a permission based service. To unsubscribe click here.

INSERT INTO email([from],[to],subject,body) VALUES('benjamin.rogers@enron.com',
'mark.bernstein@enron.com', '', 'The guy you are talking about left CIN under a "cloud of suspicion" sort of speak. He was the one who got into several bad deals and PPA's in California for CIN, thus he left on a bad note. Let me know if you need more detail than that, I felt this was the type of info you were looking for. Thanks!
Ben');

INSERT INTO email([from],[to],subject,body) VALUES('enron_update@concureworkplace.com',
michelle.cash@enron.com', 'Expense Report Receipts Not Received', 'Employee Name: Michelle Cash
Report Name: Houston Cellular 8-11-01
Report Date: 12/13/01
Report ID: 594D37C9ED2111D5B452
Submitted On: 12/13/01

You are only allowed 2 reports with receipts outstanding. Your expense reports will not be paid until you meet this requirement.');

INSERT INTO email([from],[to],subject,body) VALUES('susan.mara@enron.com', ray.alvarez@enron.com,
mark_palmer@enron.com, karen_denne@enron.com', 'CAISO Emergency Motion -- to discontinue market-based rates for', 'FYI. the latest broadside against the generators.

Sue Mara
Enron Corp.
Tel: (415) 782-7802
Fax:(415) 782-7854

----- Forwarded by Susan J Mara/NA/Enron on 06/08/2001 12:24 PM -----
Sue, did you see this emergency motion the CAISO filed today? Apparently they are requesting that FERC discontinue market-based rates immediately and grant refunds plus interest on the difference between cost-based rates and market revenues received back to May 2000. They are requesting the commission act within 14 days. Have you heard anything about what they are doing?

Marcie


Who is General Brinks?

Fletch);

Here are the documents that Peter has prepared for Mark Frevert.

Nailia

-------------------------- Forwarded by Nailia Dindarova/LON/ECT on 25/06/2001
16:36 --------------------------

Nailia Dindarova

25/06/2001 15:36
To: Michael Brown/Enron@EUEnronXGate
cc: Ross Sankey/Enron@EUEnronXGate, Eric Shaw/ENRON@EUEnronXGate, Peter Styles/LON/ECT@ECT

Subject: Documents for Mark Frevert (on EU developments and lessons from California)

Michael,

These are the documents that Peter promised to give to you for Mark Frevert. He has now handed them to him in person but asked me to transmit them electronically to you, as well as Eric and Ross.
Attached are our comments and suggested changes. Please call to review.

On the timeline for completion, we have four critical steps to complete:

- Finalize market analysis to refine business case, specifically projected revenue stream
- Complete counterparty surveying, including targeting 3 CPs for letters of intent
- Review Enron asset base for potential reuse/licensing
- Contract negotiations

Joe will come back to us with an updated timeline, but it is my expectation that we are still on the same schedule (we just begun week three) with possibly a week or so slippage.....contract negotiations will probably be the critical path.

We will send our cut at the actual timeline here shortly. Thanks,

Peggy

(See attached file: accenture-dealpoints v2.doc)

--- accenture-dealpoints v2.doc ---

Thomas A Martin
10/11/2000 03:55 PM
To: Patrick Wade/HOU/ECT@ECT
cc:
Subject: Re: Guadalupe Power Partners LP

The deal is physically served at Oasis Waha or Oasis Katy and is priced at either HSC, Waha or Katy tailgate GD at buyers option three days prior to NYMEX close.

Please note that the deadline for bids is 3:00pm EST on March 20, 2001.

If you have any questions, feel free to contact any of the representatives listed at the bottom of the attachment.

Aaron Goddard

- 2001Summer.doc

-----Original Message-----
From: Punja, Karim
Sent: Thursday, December 13, 2001 2:35 PM
To: Richey, Cooper
Subject: Contact Info

Cooper,

It's been a real pleasure working with you (even though it was for only a small amount of time)
I hope we can stay in touch.

Home# 234-0249
email: kpunja@hotmail.com

Take Care,

Karim.

I haven't talked to many of you via email recently but I do want to give you
my new address for your email file:

bjm30@earthlink.net

I hope all is well.

Brian McGuinn');

INSERT INTO email([from],[to],subject,body) VALUES('shelley.corman@enron.com', 'steve.hotte@enron.com',
'Flat Panels', 'Can you please advise what is going on with the flat panels that we had planned to distribute to our gas logistics team. It was in the budget and we had the okay, but now I'm hearing there is some hold-up & the units are stored on 44.

Shelley');

INSERT INTO email([from],[to],subject,body) VALUES('sara.davidson@enron.com',
'john.schwartzenburg@enron.com, scott.dieball@enron.com, recipients@enron.com', '2001 Enron Law Conference (Distribution List 2), Enron Law Conference

San Antonio, Texas May 2-4, 2001 Westin Riverwalk

See attached memo for more details!!
? Please complete the Online RSVP Form as soon as it is available and submit it no later than Friday, March 30th.

');
INSERT INTO email([from],[to],subject,body) VALUES('tori.kuykendall@enron.com',
'heath.b.taylor@accenture.com', 'Re:', 'hey - thats funny about john - he definitely remembers him - i’ll call pat and let him know - we are coming on saturday - i just havent had a chance to call you guys back -- looking forward to it -- i probably need the directions again though');
INSERT INTO email([from],[to],subject,body) VALUES('darron.giron@enron.com', 'bryce.baxter@enron.com',
'Re: Feedback for Audrey Cook', 'Bryce,

I’ll get it done today.

DG    3-9573

From: Bryce Baxter 06/12/2000 07:15 PM

To: Darron C Giron/HOU/ECT@ECT
c:
Subject: Feedback for Audrey Cook

You were identified as a reviewer for Audrey Cook. If possible, could you complete her feedback by end of business Wednesday? It will really help me in the PRC process to have your input. Thanks.

');
INSERT INTO email([from],[to],subject,body) VALUES('casey.evans@enron.com', 'stephanie.sever@enron.com',
'Gas EOL ID', 'Stephanie,

In conjunction with the recent movement of several power traders, they are changing the names of their gas books as well. The names of the new gas books and traders are as follows:

PWR-NG-LT-SPP: Mike Carson
PWR-NG-LT-SERC: Jeff King

If you need to know their power desk to map their ID to their gas books, those desks are as follows:

EPMI-LT-SPP: Mike Carson
EPMI-LT-SERC: Jeff King

I will be in training this afternoon, but will be back when class is over. Let me know if you have any questions.

Thanks for your help!
Casey;

INSERT INTO email([from],[to],subject,body) VALUES('darrell.schoolcraft@enron.com',
david.roensch@enron.com, kimberly.watson@enron.com, michelle.lokay@enron.com.', 'Postings', 'Please see the attached.

ds

');

INSERT INTO email([from],[to],subject,body) VALUES('mcominsky@aol.com', 'cpatman@bracepatt.com,
james_derrick@enron.com', 'Jurisprudence Luncheon', 'Carrin & Jim --

It was an honor and a pleasure to meet both of you yesterday. I know we will have fun working together on this very special event.

Jeff left the jurisprudence luncheon lists for me before he left on vacation.
I wasn’t sure whether he transmitted them to you as well. Would you please advise me if you would like them sent to you? I can email the MS Excel files or I can fax the hard copies to you. Please advise what is most convenient.

I plan to be in town through the holidays and can be reached by phone, email, or cell phone at any time. My cell phone number is 713/705-4829.

Thanks again for your interest in the ADL’s work. Martin.

Martin B. Cominsky
Director, Southwest Region
Anti-Defamation League
713/627-3490, ext. 122
713/627-2011 (fax)
MCominsky@aol.com);

INSERT INTO email([from],[to],subject,body) VALUES('phillip.love@enron.com', 'todagost@utmb.edu,
gbsonnta@utmb.edu', 'New President', 'I had a little bird put a word in my ear. Is there any possibility for Ben Raimer to be Bush’s secretary of HHS? Just curious about that infamous UTMB rumor mill. Hope things are well, happy holidays.
PL');

INSERT INTO email([from],[to],subject,body) VALUES('marie.heard@enron.com', 'ehamilton@fna.com', 'ISDA Master Agreement', 'Erin:
Pursuant to your request, attached are the Schedule to the ISDA Master Agreement, together with Paragraph 13 to
the ISDA Credit Support Annex. Please let me know if you need anything else. We look forward to hearing your comments.

Marie

Marie Heard
Senior Legal Specialist
Enron North America Corp.
Phone: (713) 853-3907
Fax: (713) 646-3490
marie.heard@enron.com

');
INSERT INTO email([from],[to],subject,body) VALUES('andrea.ring@enron.com', 'beverly.beaty@enron.com', 'Re: Tennessee Buy - Louis Dreyfus', 'Beverly - once again thanks so much for your help on this.

');
INSERT INTO email([from],[to],subject,body) VALUES('karolyn.criado@enron.com', 'j..bonin@enron.com, felicia.case@enron.com, b..clapp@enron.com','Price List week of Oct. 8-9, 2001', 'Please contact me if you have any questions regarding last weeks prices.

Thank you,
Karolyn Criado
3-9441

');
INSERT INTO email([from],[to],subject,body) VALUES('kevin.presto@enron.com', 'edward.baughman@enron.com, billy.braddock@enron.com', 'Associated', 'Please begin working on filling our Associated short position in 02. I would like to take this risk off the books.

In addition, please find out what a buy-out of VEPCO would cost us. With Rogers transitioning to run our retail risk management, I would like to clean up our customer positions.

We also need to continue to explore a JEA buy-out.

Thanks.

');
INSERT INTO email([from],[to],subject,body) VALUES('stacy.dickson@enron.com', 'gregg.penman@enron.com', 'RE: Constellation TC 5-7-01', 'Gregg.

I am at home with a sick baby. (Lots of fun!) I will call you about this tomorrow.

Stacy');
I sent you a fax of Kevin Kolb’s comments on the release. The payoff on the note would be $36,248 ($36090(principal) + $158 (accrued interest)). This is assuming we wrap this up on Tuesday.

Please email to confirm that their changes are ok so I can set up a meeting on Tuesday to reach closure.

Phillip');

I placed the adjusted L/R Balance on the Enronwest site. It is under the "Staff/Kourtney Nelson". There are two links:

1) "Adj L_R" is the same data/format from the weekly strategy meeting.
2) "New Gen 2001_2002" link has all of the supply side info that is used to calculate the L/R balance
   -Please note the Data Flag column, a value of "3" indicates the project was cancelled, on hold, etc and is not
     included in the calc.

Both of these sheets are interactive Excel spreadsheets and thus you can play around with the data as you please. Also, James Bruce is working to get his gen report on the web. That will help with your access to information on new gen.

Please let me know if you have any questions or feedback,

Kourtney
Paul,

I reviewed NY’s list. I agree with all of their contracts numbers and mw amounts.

Call if you have any more questions.

Rebecca

-----Original Message-----
From: Thomas, Paul D.
Sent:Monday, December 17, 2001 9:08 AM
To:Grace, Rebecca M.
Subject:FW: Current Enron TCC Portfolio

<< File: enrontccs.xls >>
Rebecca,
Let me know if you see any differences.

Paul
X 3-0403
-----Original Message-----
From: Thomas, Paul D.
Sent: Monday, December 17, 2001 9:04 AM
To: Ahmed, Naveed
Subject: FW: Current Enron TCC Portfolio

'):

INSERT INTO email([from],[to],subject,body) VALUES('stephanie.panus@enron.com',
'william.bradford@enron.com, debbie.brackett@enron.com,','Coastal Merchant Energy/El Paso Merchant Energy',
'Coastal Merchant Energy, L.P. merged with and into El Paso Merchant Energy,
L.P., effective February 1, 2001, with the surviving entity being El Paso
Merchant Energy, L.P. We currently have ISDA Master Agreements with both
counterparties. Please see the attached memo regarding the existing Masters
and let us know which agreement should be terminated.
Thanks,
Stephanie
');

INSERT INTO email([from],[to],subject,body) VALUES('kam.keiser@enron.com', 'c..kenne@enron.com', 'RE: What about this too???, '

-----Original Message-----
From: Kenne, Dawn C.
Sent:Wednesday, February 06, 2002 11:50 AM
To:Keiser, Kam
Subject:What about this too???

<< File: Netco Trader Matrix.xls >>

');

INSERT INTO email([from],[to],subject,body) VALUES('chris.meyer@enron.com', 'joe.parks@enron.com', 'Centana', 'Talked to Chip. We do need Cash Committe approval given the netting feature of your deal, which means Batch Funding Request. Please update per my previous e-mail and forward.

Thanks

chris
x31666');

INSERT INTO email([from],[to],subject,body) VALUES('debra.perlingiere@enron.com', 'jworman@academyofhealth.com', '', 'Have a great weekend!  Happy Fathers Day!

Debra Perlingiere
Enron North America Corp.
1400 Smith Street, EB 3885
Houston, Texas 77002
dperlin@enron.com
Phone 713-853-7658
Fax  713-646-3490');

INSERT INTO email([from],[to],subject,body) VALUES('outlook.team@enron.com', 'Demo by Martha Janousek of Dashboard & Pipeline Profile / Julia & ', 'CALENDAR ENTRY:APPOINTMENT

Description:
Demo by Martha Janousek of Dashboard & Pipeline Profile / Julia & Dir Rpts. - 4102

Date:1/5/2001
Time:9:00 AM - 10:00 AM (Central Standard Time)

Chairperson:Outlook Migration Team

Detailed Description:');

INSERT INTO email([from],[to],subject,body) VALUES('diana.seifert@enron.com', 'mark.taylor@enron.com',

Open Source Used In Cisco VSM 7.14.2 21450
'Guest access Chile', 'Hello Mark,

Justin Boyd told me that your can help me with questions regarding Chile. We got a request for guest access through MG. The company is called Escondida and is a subsidiary of BHP Australia.

Please advise if I can set up a guest account or not. F.Y.I.: MG is planning to put a "in w/h Chile" contract for Copper on-line as soon as Enron has done the due diligence for this country.

Thanks!

Best regards

Diana Seifert
EOL PCG');
INSERT INTO email([from],[to],subject,body) VALUES('enron_update@concureworkplace.com', 'mark.whitt@enron.com', '<<Concur Expense Document>> - 121001', 'The Approval status has changed on the following report:

Status last changed by: Barry L. Tychoiz
Expense Report Name: 121001
Report Total: $198.98
Amount Due Employee: $198.98
Amount Approved: $198.98
Amount Paid: $0.00
Approval Status: Approved
Payment Status: Pending

To review this expense report, click on the following link for Concur Expense.
http://expensexms.enron.com');
INSERT INTO email([from],[to],subject,body) VALUES('kevin.hyatt@enron.com', '', 'Technical Support', 'Outside the U.S., please refer to the list below:

Australia:
1800 678-515
support@palm-au.com

Canada:
1905 305-6530
support@palm.com

New Zealand:
0800 446-398
support@palm-nz.com

U.K.:
### Variance found in table tblLoads.

- **Details:** (Hour: 3 / Preferred: 1.92 / Final: 1.89)
- **TRANS_TYPE:** FINAL
- **LOAD_ID:** PGE4
- **MKT_TYPE:** 2
- **TRANS_DATE:** 4/22/01
- **SC_ID:** EPMI

`INSERT INTO email([from],[to],subject,body) VALUES('john.postlethwaite@enron.com','john.zufferli@enron.com', 'Reference', 'John, hope things are going well up there for you. The big day is almost here for you and Jessica. I was wondering if I could use your name as a job reference if need be. I am just trying to get everything in order just in case something happens. John');

`INSERT INTO email([from],[to],subject,body) VALUES('jeffrey.shankman@enron.com','lschiffm@jonesday.com', 'Re:', 'I saw you called on the cell this a.m. Sorry I missed you. (I was in the shower). I have had a shitty week--I suspect my silence (not only to you, but others) after our phone call is a result of the week. I’m seeing Glen at 11:15....talk to you');

`INSERT INTO email([from],[to],subject,body) VALUES('litebytz@enron.com', '', 'Lite Bytz RSVP', 'This week’s Lite Bytz presentation will feature the following TOOLZ speaker:

Richard McDougall
Solaris 8
Thursday, June 7, 2001

If you have not already signed up, please RSVP via email to litebytz@enron.com by the end of the day Tuesday, June 5, 2001.

*Remember: this is now a Brown Bag Event--so bring your lunch and we will provide cookies and drinks.

Click below for more details.

http://home.enron.com:84/messaging/litebytztoolzprint.jpg');

COMMIT;

} {}
do_test fts1c-1.3 {
execsql {
    SELECT rowid FROM email WHERE email MATCH 'susan'
}
} {24 40}
do_test fts1c-1.4 {
execsql {
    SELECT rowid FROM email WHERE email MATCH 'mark susan'
}
} {40}
do_test fts1c-1.5 {
execsql {
    SELECT rowid FROM email WHERE email MATCH 'susan mark'
}
} {40}
do_test fts1c-1.6 {
execsql {
    SELECT rowid FROM email WHERE email MATCH ""mark susan"
}
} {}
do_test fts1c-1.7 {
execsql {
    SELECT rowid FROM email WHERE email MATCH 'mark -susan'
}
} {6 17 25 38 42 73 74}
do_test fts1c-1.8 {
execsql {
    SELECT rowid FROM email WHERE email MATCH '-mark susan'
}
} {24}
do_test fts1c-1.9 {
execsql {
    SELECT rowid FROM email WHERE email MATCH 'mark OR susan'
}
} {6 17 24 25 38 40 42 73 74}

# Some simple tests of the automatic "offsets(email)" column. In the sample
# data set above, only one message, number 20, contains the words
# "gas" and "reminder" in both body and subject.
#
do_test fts1c-2.1 {
execsql {
    SELECT rowid, offsets(email) FROM email
    WHERE email MATCH 'gas reminder'
}
} {20 {2 0 42 3 2 1 54 8 3 0 42 3 3 1 54 8 3 0 129 3 3 0 143 3 3 0 240 3}}
do_test fts1c-2.2 {
execsql {
    SELECT rowid, offsets(email) FROM email
    WHERE email MATCH 'subject:gas reminder'
}
} {20 [2 0 42 3 2 1 54 8 3 1 54 8]}
do_test fts1c-2.3 {
    execsql {
        SELECT rowid, offsets(email) FROM email
        WHERE email MATCH 'body:gas reminder'
    }
} {20 [2 1 54 8 3 0 42 3 3 1 54 8 3 0 129 3 3 0 143 3 3 0 240 3]}
do_test fts1c-2.4 {
    execsql {
        SELECT rowid, offsets(email) FROM email
        WHERE subject MATCH 'gas reminder'
    }
} {20 [2 0 42 3 2 1 54 8]}
do_test fts1c-2.5 {
    execsql {
        SELECT rowid, offsets(email) FROM email
        WHERE body MATCH 'gas reminder'
    }
} {20 [3 0 42 3 3 1 54 8 3 0 129 3 3 0 143 3 3 0 240 3]}

# Document 32 contains 5 instances of the world "child". But only
# 3 of them are paired with "product". Make sure only those instances
# that match the phrase appear in the offsets(email) list.
#
do_test fts1c-3.1 {
    execsql {
        SELECT rowid, offsets(email) FROM email
        WHERE body MATCH 'child product' AND +rowid=32
    }
} {32 [3 0 94 5 3 0 114 5 3 0 207 5 3 1 213 7 3 0 245 5 3 1 251 7 3 0 409 5 3 1 415 7 3 1 493 7]}
do_test fts1c-3.2 {
    execsql {
        SELECT rowid, offsets(email) FROM email
        WHERE body MATCH ""child product"
    }
} {32 [3 0 207 5 3 1 213 7 3 0 245 5 3 1 251 7 3 0 409 5 3 1 415 7]}

# Snippet generator tests
#
do_test fts1c-4.1 {
    execsql {
        SELECT snippet(email) FROM email
        WHERE email MATCH 'subject:gas reminder'
    }
}
do_test fts1c-4.2 {
  execsql {
    SELECT snippet(email) FROM email
    WHERE email MATCH 'christmas candlelight'
  }
}

doe_test fts1c-4.3 {
  execsql {
    SELECT snippet(email) FROM email
    WHERE email MATCH 'deal sheet potential reuse'
  }
}

doe_test fts1c-4.4 {
  execsql {
    SELECT snippet(email,'<<<','>>>',' ') FROM email
    WHERE email MATCH 'deal sheet potential reuse'
  }
}

doe_test fts1c-4.5 {
  execsql {
    SELECT snippet(email,'<<<','>>>',' ') FROM email
    WHERE email MATCH 'first things'
  }
}

doe_test fts1c-4.6 {
  execsql {
    SELECT snippet(email) FROM email
    WHERE email MATCH 'chris is here'
  }
}

doe_test fts1c-4.7 {
  execsql {
    SELECT snippet(email) FROM email
    WHERE email MATCH "pursuant to"
  }
}

Erin:

<b>Pursuant</b> to your request, attached are the Schedule to <b>...</b>
do_test fts1c-4.8 {
  execsql {
    SELECT snippet(email) FROM email
    WHERE email MATCH 'ancillary load davis'
  }
} {{pete.<b>davis</b>@enron.com <b>...</b> Start Date: 4/22/01; HourAhead hour: 3; No <b>ancillary</b> schedules awarded.
Variances detected.
Variances detected in <b>Load</b> schedule.

LOG MESSAGES:

PARSING <b>...</b> }}

# Combinations of AND and OR operators:
#
do_test fts1c-5.1 {
  execsql {
    SELECT snippet(email) FROM email
    WHERE email MATCH 'questar enron OR com'
  }
} {{matt.smith@<b>enron</b>.<b>com</b> <b>...</b> six reports:
31 Keystone Receipts
15 <b>Questar</b>/ Pipeline
40 Rockies Production
22 West_2 <b>...</b> }}

do_test fts1c-5.2 {
  execsql {
    SELECT snippet(email) FROM email
    WHERE email MATCH 'enron OR com questar'
  }
} {{matt.smith@<b>enron</b>.<b>com</b> <b>...</b> six reports:
31 Keystone Receipts
15 <b>Questar</b>/ Pipeline
40 Rockies Production
22 West_2 <b>...</b> }}

finish_test

Found in path(s):
* /opt/cola/permits/1103884711_1604400914.82/0/sqlite-3.7.17-8.el7_7.1-1.src.rpm-cosi-expand-archive-
  COIo1yr4/sqlite-src-3071700.zip-cosi-expand-archive-qrgnldMA/sqlite-src-3071700/test/fts1c.test
No license file was found, but licenses were detected in source scan.

# 2006 October 1
#

---

**Open Source Used In Cisco VSM 7.14.2 21457**
# The author disclaims copyright to this source code. In place of
# a legal notice, here is a blessing:
#
# May you do good and not evil.
# May you find forgiveness for yourself and forgive others.
# May you share freely, never taking more than you give.
#
#*************************************************************************
# This file implements regression tests for SQLite library. The
# focus of this script is testing the FTS1 module, and in particular
# the Porter stemmer.
#
# $Id: fts1porter.test,v 1.5 2006/10/03 19:37:37 drh Exp $
#
set testdir [file dirname $argv0]
source $testdir/tester.tcl

# If SQLITE_ENABLE_FTS1 is defined, omit this file.
if capable !fts1 {
    finish_test
    return
}

# Test data for the Porter stemmer. The first word of each line
# is the input. The second word is the desired output.
#
# This test data is taken from http://www.tartarus.org/martin/PorterStemmer/
# There is no claim of copyright made on that page, but you should
# probably contact the author (Martin Porter - the inventor of the
# Porter Stemmer algorithm) if you want to use this test data in a
# commercial product of some kind. The stemmer code in FTS1 is a
# complete rewrite from scratch based on the algorithm specification
# and does not contain any code under copyright.
#
set porter_test_data {
    a a
    aaron aaron
    abaissiez abaissiez
    abandon abandon
    abandoned abandon
    abase abas
    abash abash
    abate abat
    abated abat
    abatement abat
    abatements abat
    abates abat
abreast  abreast
abridg  abridg
abridge  abridg
abridged  abridg
abridgment  abridg
abroach  abroach
abroad  abroad
abrogate  abrog
abrook  abrook
abrupt  abrupt
abruption  abrupt
abruptly  abruptli
absence  absenc
absent  absent
absey  absei
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absolutely  absolut
absolv  absolv
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absurd  absurd
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abundant  abund
abundantly  abundantli
abu  abu
abuse  abus
abused  abus
abuser  abus
abuses  abus
abusing  abus
abutting  abut
abi  abi
aby  abysm
ac  ac
academe  academ
academes  academ
accent  accent
accents  accent
accept  accept
acceptable  accept
acceptance  accept
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<tr>
<th>Word</th>
<th>Corrected Word</th>
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acquittances  acquitt
acquitted     acquit
acre          acr
acres         acr
across        across
act           act
actaeon       actaeon
acted         act
acting        act
action        action
actions       action
actium        actium
active        activ
actively      activ
activity      activ
actor         actor
actors        actor
acts          act
actual        actual
acture        actur
acute         acut
acutely       acut
ad            ad
adage         adag
adallas       adalla
adam          adam
adamant       adam
add            add
added         ad
adder         adder
adders        adder
addeth        addeth
addict        addict
addicted      addict
addiction     addict
adding        ad
addition      addit
additions     addit
addle         addl
address       address
addressing    address
addrest       addrest
adds          add
adhere        adher
adheres       adher
adieu         adieu
adieus        adieu
adjacent      adjac
| adjoin   | adjoin   |
| adjoinig | adjoin   |
| adjourn   | adjourn   |
| adjudg   | adjudg   |
| adjudged | adjudged |
| adjunct   | adjunct   |
| administer | administ |
| administration | administr |
| admir   | admir   |
| admirable | admir |
| admiral   | admir |
| admiration | admir |
| admire   | admir |
| admired | admir |
| admirer   | admir |
| adorning | admir |
| admiringly | admiringli |
| admittance | admitt |
| admit | admit |
| admits | admit |
| admittance | admit |
| admitted | admit |
| admitting | admit |
| admonish | admonish |
| admonishing | admonish |
| admonishment | admonish |
| admonishments | admonish |
| admonition | admonit |
| ado   | ado |
| adonis | adoni |
| adopt | adopt |
| adopted | adopt |
| adoptedly | adoptedli |
| adoption | adopt |
| adoptious | adopti |
| adopts | adopt |
| ador | ador |
| adoration | ador |
| adorations | ador |
| adore | ador |
| adorer | ador |
| adores | ador |
| adorest | adorest |
| adoreth | adoreth |
| adoring | ador |
| adorn | adorn |
| adorned | adorn |
| adornings | adorn |
adornment  adorn
adorns  adorn
adown  adown
adramadio  adramadio
adrian  adrian
adriana  adriana
adriano  adriano
adriatic  adriat
adsum  adsum
adulation  adul
adulterate  adulter
adulterates  adulter
adulterers  adulter
adulteress  adulteress
adulteries  adulteri
adulterous  adulter
adultery  adulteri
adultress  adultress
advanc  advanc
advance  advanc
advanced  advanc
advancement  advanc
advancements  advanc
advances  advanc
advancing  advanc
advantage  advantag
advantageable  advantag
advantaged  advantag
advantageous  advantag
advantages  advantag
advantaging  advantag
advent  advent
adventur  adventur
adventure  adventur
adventures  adventur
adventuring  adventur
adventurous  adventur
adventurously  adventur
adversaries  adversari
adversary  adversari
adverse  advers
adversely  advers
adversities  adver
adversity  adver
advert  adverti
advertise  advertis
advertised  advertis
advertisement  advertis
advertising  advertis
advice    advic
advis     advi
advise    advis
advised   advis
advisedly advisedli
advises   advis
advisings advis
advocate  advoc
advocation advoc
aeacida   aeacida
aeacides  aeacid
aedile    aedil
aediles   aedil
aegon     aegeon
aegion    aegion
aegles    aegl
aemelia   aemelia
aemilia   aemilia
aemilius  aemiliu
aeneas    aenea
aenos     aeolu
aer       aer
aerial    aerial
aery      aeri
aesculapius aesculapiu
aeson     aeson
aesop     aesop
aetna     aetna
afar      afar
afear     afear
afeard    afeard
affability affabl
affable   affabl
affair    affair
affaire   affair
affairs   affair
affect    affect
affectation affect
affectations affect
affected  affect
affectedly affectedli
affecteth affecteth
affecting affect
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affectionate affection
affectionately affection
affections affect
affects  affect
affeer  affeer
affianc  affianc
affiance  affianc
affianced  affianc
affied  affi
affin  affin
affined  affin
affinity  affin
affirm  affirm
affirmation  affirm
affirmatives  affirm
afflict  afflict
afflicted  afflict
affliction  afflict
afflictions  afflict
afflicts  afflict
afford  afford
affordeth  affordeth
affords  afford
affray  affrai
affright  affright
affrighted  affright
affrights  affright
affront  affront
affronted  affront
affy  affi
afield  afield
afire  afir
afloat  afloat
afoot  afoot
afore  afor
aforehand  aforehand
aforesaid  aforesaid
afraid  afraid
afresh  afresh
afric  afric
africa  africa
african  african
afront  afront
after  after
afternoon  afternoon
afterward  afterward
afterwards  afterward
ag  ag
again  again
against  against
agamemnon  agamemnon
anthem
anthems
anthony
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anticly
antics
antidote
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antiopa
antipathy
antipholus
antipholuses
antipodes
antiquary
antique
antiquity
antium
antoniad
antonio
antonius
antony
antres
anvil
any
anybody
anyone
anything
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apartment
apartments
ape
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apennines
apes
apiece
appertains  appertain
appertinent  appertin
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appetite  appetit
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applaud  applaud
applauded  applaud
applauding  applaud
applause  applaus
applauses  applaus
apple  appl
apples  appl
appletart  appletart
appliance  applianc
appliances  applianc
applications  applic
applied  appli
applies  appli
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appoint  appoint
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apprehension  apprehens
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apprendre  apprendr
apprenne  apprenn
apprenticehood  apprenticehood
appris  appri
approach  approach
approachers  approach
approaches  approach
approacheth  approacheth
approaching  approach
approbation  approb
approof  approof
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approv  approv
approve  approv
approved  approv
 approvers  approv
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appurtenance  appurten
appurtenances  appurten
apricocks  apricot
apricock
april  april
apron  apron
aprons  apron
apt  apt
apter  apter
aptest  aptest
apty  aptly
aptness  apt
aqua  aqua
aquilon  aquilon
aquitaine  aquitain
arabia  arabia
arabian  arabian
araise  arais
arbitrate  arbitrate
arbitrating  arbitrating
arbiter  arbitrate
arbitrator  arbitrate
arbitrement  arbitrate
arbors  arbor
arbour  arbour
arc  arc
arch  arch
archbishop  archbishop
archbishopric  archbishopric
archdeacon  archdeacon
arched  arch
archelaus  archelaus
archer  archer
archers  archer
archery  archery
archibald  archibald
archidamus  archidamus
architect  architect
arcu  arcu
arde  ard
arden  arden
ardent  ardent
ardour  arduour
are  ar
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arragon  arragon
arraign  arraign
arraigned  arraign
arraigning  arraign
arraignment  arraign
arrant  arrant
arras  arra
array  arrai
arrearages  arrearag
arrest  arrest
arrested  arrest
arrests  arrest
arriv  arriv
arrival  arriv
arrivance  arriv
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arriving  arriv
arrogance  arrog
arrogancy  arrog
arrogant  arrog
arrow  arrow
arrows  arrow
art  art
artemidorus  artemidoru
arteries  arteri
arthur  arthur
article  articl
articles  articl
articulate  articul
artificer  artific
artificial  artifici
artillery  artilleri
artire  artir
artist  artist
artists  artist
artless  artless
artois  artoi
arts  art
artus  artu
arviragus  arviragu
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# Create a full-text index to use for testing the stemmer.

db close
sqlite3 db :memory:
db eval {
CREATE VIRTUAL TABLE t1 USING fts1(word, tokenize Porter);
}

foreach {pfrom pto} $porter_test_data {
do_test fts1porter-$pfrom {
execsql {
DELETE FROM t1_term;
DELETE FROM t1_content;
INSERT INTO t1(word) VALUES($pfrom);
SELECT term FROM t1_term;
}
} $pto
}

finish_test

Found in path(s):
* /opt/cola/permits/1103884711_1604400914.82/0/sqlite-3.7.17-8.el7_7.1-1.src.rpm-cosi-expand-archive-
  COIo1yr4/sqlite-src-3071700.zip-cosi-expand-archive-qrgnldMA/sqlite-src-3071700/test/fts1porter.test
No license file was found, but licenses were detected in source scan.

)putinterval

Found in path(s):
* 1 index 0(BadFont
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<dd><p>The psow query parameter works with the default windows and unix VFSes but might be a no-op for other
proprietary or non-standard VFSes.

Found in path(s):
* /opt/cola/permits/1103884711_1604400914.82/0/sqlite-3.7.17-8.el7_7.1-1.src.rpm-cosi-expand-archive-
  COIo1yr4/sqlite-doc-3071700.zip-cosi-expand-archive-qrgnldMA/sqlite-doc-3071700/requirements.html
No license file was found, but licenses were detected in source scan.

/ *
** Return a pointer to the "temporary page" buffer held internally
** by the pager. This is a buffer that is big enough to hold the
** entire content of a database page. This buffer is used internally
** during rollback and will be overwritten whenever a rollback
** occurs. But other modules are free to use it too, as long as
** no rollbacks are happening.
*/
FOR IMMEDIATE RELEASE:

SQLite Consortium Launches With Mozilla And Symbian As Charter Members

Ensures independent technical direction for world's most deployed SQL database engine

Charlotte, North Carolina - December 12, 2007 - The SQLite Consortium, a new membership association dedicated to maintaining SQLite as a fully open and independent product, was formally announced today. Mozilla and Symbian Ltd. have joined the SQLite Consortium as charter members.

SQLite is a compact, high efficiency, high reliability, embeddable SQL database engine. The source code to SQLite is in the public domain and is available with no associated fees. SQLite is the most deployed SQL database engine in the world and is currently used in a wide range of commercial software products and electronic devices from leading manufacturers. SQLite is found today in many mobile phones, MP3 players, set-top boxes, and PCs.

The mission of the SQLite Consortium is to continue developing and enhancing SQLite as a product that anyone may use without paying royalties or licensing fees. Members of the SQLite Consortium provide funding to enable this mission and in return receive enterprise-level technical support. Technical control and direction of SQLite remains entirely with the SQLite developers.

Mozilla, developer of the popular open-source Firefox web browser, and Symbian, the market-leading open operating system for advanced data-enabled smartphones, both deploy the SQLite database engine in their products. As charter members of the Consortium, Mozilla and Symbian are ensuring the development and support of SQLite as a freely accessible and public domain software asset.

"SQLite has become a popular embedded database because it is lightweight, fast, and open source," said Michael Schroepfer, Vice President of Engineering, Mozilla. "As a charter member of the SQLite Consortium, Mozilla is excited to help ensure SQLite remains a vibrant and open technology, in line with our mission to promote choice and innovation on the Internet."

"The SQLite Consortium will help set the standards for database management which are essential in smartphone functionality and will also help create a pool
of developers, highly-skilled in SQLite for future mobile phone development," said Bruce Carney, Director, Developer Programmes & Services, Symbian. "Our involvement with the SQL Consortium not only demonstrates Symbian’s commitment to open standards in the industry, but as mobile phones become increasingly powerful and smartphones become increasingly popular, we are focused on ensuring that desktop developers, who move to the mobile space, have the easiest and most productive experience possible.”</p>

.SQLite is a winner of the 2005 Google/O'Reilly Open Source Award. Additional information regarding the SQLite Consortium is available at the SQLite website, http://www.sqlite.org/.</p>

SQLite is a software library that implements a self-contained, embeddable, serverless, zero-configuration, transactional SQL database engine. The code for SQLite is in the public domain and is free for any use, commercial or private. SQLite is currently found in countless software titles and electronic devices.

SQLite was originally developed and released 2000 by Dr. D. Richard Hipp. The code continues to be maintained and enhanced by an international team of developers under Hipp's direction.

CONTACT INFORMATION:
SQLite Consortium
Dr. D. Richard Hipp
6200 Maple Cove Lane
Charlotte, NC 28269
Email: drh@sqlite.org
http://www.sqlite.org/
Tel: +1.704.948.4565

About Mozilla</p>

Mozilla is a global community dedicated to building free, open source products and technologies that improve the online experience for people everywhere. Mozilla works in the open with a highly disciplined, transparent and cooperative development process, under the umbrella of the non-profit Mozilla Foundation. As a wholly owned subsidiary, the Mozilla Corporation organizes the development and marketing of Mozilla products. This unique structure has enabled Mozilla to
financially support and cultivate competitive, viable community innovation.
For more information, visit www.mozilla.com.

<p>CONTACT INFORMATION:<br>
Mozilla Corporation<br>
Jessica Waight<br>
Tel: +1.415.345.4754<br>
Email: jwaight@outcastpr.com</p>

<p><b>About Symbian Limited</b></p>

<p>Symbian is a software licensing company that develops and licenses Symbian OS, the market-leading open operating system for advanced, data-enabled mobile phones known as smartphones.</p>

<p>Symbian licenses Symbian OS to the world's leading handset manufacturers and has built close co-operative business relationships with leading companies across the mobile industry. During Q3 2007, 20.4 million Symbian smartphones were sold worldwide to over 250 major network operators, bringing the total number of Symbian smartphones shipped up to 30 September 2007 to 165 million.</p>

<p>Symbian has its headquarters in London, United Kingdom, with offices in the United States, United Kingdom, Asia (India, P.R. China, and Korea) and Japan. For more information, please visit www.symbian.com.</p>

<p>CONTACT INFORMATION:<br>
Symbian Global Press Office<br>
Karen Hamblen<br>+44 207 154 1707<br>press@symbian.com</p>

<p>Found in path(s):
No license file was found, but licenses were detected in source scan.</p>

<p><li>Sources are in the <a href="copyright.html">public domain</a>. Rather than using fopen() to write XML or some proprietary format into</li>

<p>Found in path(s):
No license file was found, but licenses were detected in source scan.</p>
%define name sqlite
%define version SQLITE_VERSION
%define release 1

Name: %{name}
Summary: SQLite is a C library that implements an embeddable SQL database engine
Version: %{version}
Release: %{release}
Source: %{name}-%{version}.tar.gz
Group: System/Libraries
URL: http://www.sqlite.org/
License: Public Domain
BuildRoot: %{_tmppath}/%{name}-%{version}-root

%description
SQLite is a software library that implements a self-contained, serverless, zero-configuration, transactional SQL database engine. Programs that link with the SQLite library can have SQL database access without running a separate RDBMS process. The distribution comes with a standalone command-line access program (sqlite) that can be used to administer an SQLite database and which serves as an example of how to use the SQLite library.

%package -n %{name}-devel
Summary: Header files and libraries for developing apps which will use sqlite
Group: Development/C
Requires: %{name} = %{version}-%{release}

%description -n %{name}-devel
The sqlite-devel package contains the header files and libraries needed to develop programs that use the SQLite database library.

%prep
%setup -q -n %{name}

%build
CFLAGS="-%optflags -DNDEBUG=1" CXXFLAGS="-%optflags -DNDEBUG=1" ./configure --prefix=%{_prefix}
make
make doc

%install
install -d $RPM_BUILD_ROOT/%{_prefix}]
install -d $RPM_BUILD_ROOT/%{_prefix}/bin
install -d $RPM_BUILD_ROOT/%{_prefix}/include
install -d $RPM_BUILD_ROOT/%{_prefix}/lib
make install prefix=$RPM_BUILD_ROOT/%{_prefix}
No license file was found, but licenses were detected in source scan.

<html><head><title>SQLite Consortium Agreement</title></head><body bgcolor="white"><h1 align="center">SQLite Consortium Agreement</h1>

This SQLite Consortium Agreement ("Agreement") is made and entered into as of the _____ day of ______________, 2007 ("Effective Date") by and between ______________ (the "Company"), and Hipp, Wyrick & Company, Inc., a Georgia Corporation with headquarters at 6200 Maple Cove Lane, Charlotte, NC ("Hwaci").

WHEREAS, Hwaci is the developer of a serverless, embeddable, public domain SQL database engine available at http://www.sqlite.org/ ("SQLite"); and

WHEREAS, Company wishes to support the independent development of the SQLite database engine to insure the continuing reliability, vitality, and independence of SQLite, and in connection therewith, Company wishes to provide funds for ongoing research, development, and maintenance of the SQLite code base, operation of the SQLite website, protection and maintenance of the SQLite trademark, as well as for promotion of SQLite at conferences and trade shows; and

WHEREAS, Company wishes to receive benefits in the form of services from Hwaci in consideration for their support of SQLite; and

WHEREAS, Company and Hwaci each wish SQLite to be supported and maintained as an independent, community-driven project, and to ensure the SQLite development team remains independent.

NOW, THEREFORE, in consideration of the mutual promises contained herein, the parties agree as follows:

1.0 Definitions

1.1 SQLite Developers

The "SQLite Developers" are the employees or contractors of Hwaci engaged in the development of SQLite, including without limitation the SQLite Architect.
1.2 SQLite Architect

The "SQLite Architect" is the SQLite Developer with ultimate responsibility and authority over changes and maintenance of the SQLite code. The current SQLite Architect is the original designer and developer of SQLite, D. Richard Hipp. Hwaci may change the SQLite Architect from time to time upon approval by Company.

1.3 Consortium Member

A "Consortium Member" is a company or organization, including but not limited to Company, which has entered into an agreement with Hwaci which is substantially similar to this Agreement.

2.0 Agreement

2.1 Responsibilities And Obligations Of SQLite Developers

2.1.1 General Support

The SQLite Developers shall provide, without limit, timely and accurate answers, advice, and instruction in response to questions and comments from Company about SQLite submitted by email or by telephone at any time day or night.

2.1.2 Debugging Support

The SQLite Developers shall at Company's request provide Company with direct assistance in debugging applications that are built upon or use SQLite. The combined time for Debugging Support and Custom Development for Company is limited to 330 hours per year.

2.1.3 Custom Development

The SQLite Developers shall at the request of Company write new extensions or enhancements to SQLite according to Company's specifications. These extensions and enhancements may be proprietary to Company or open source or with the consent of both Company and the SQLite Architect may be folded into the public domain SQLite source tree. The time devoted to Custom Development for Company is limited 220 hours per year.

2.1.4 Custom Builds

The SQLite Developers shall at Company's request provide Company with specialized builds of SQLite according to Company's specifications.
2.1.5 Legacy Support
The SQLite Developers shall at Company's request provide support and bug-fix patches for any historical version of SQLite.

2.1.6 Custom Testing
The SQLite Developers shall at Company's request set up and run acceptance tests according Company's specifications that are specifically designed to exercise SQLite as configured and used by Company. These acceptance tests shall be run and shall pass prior to any release of SQLite.

2.1.7 Priority Bug Fixes
The SQLite Developers shall assign highest priority to fixing bugs in SQLite that are reported by Company or in which Company has expressed a specific interest.

2.1.8 Code Quality
The SQLite Developers shall at all times keep the SQLite source code well commented and documented and clearly structured and organized so that an experienced and competent programmer can understand it and support it after no more than a few months of study.

2.1.9 Backwards Compatibility
The SQLite Developers recognize that Company uses SQLite in mission-critical applications and therefore shall work diligently to ensure continuing bug-free correct operation and backwards compatibility with prior releases.

2.1.10 Test Coverage
The SQLite Developers shall maintain the SQLite test suite such that no less than 95% source code coverage is provided.

2.1.11 Website
The SQLite Developers shall maintain the SQLite website at http://www.sqlite.org/ in good working order and all SQLite source code shall be made freely available at such website.

2.2 Responsibilities And Obligations Of The SQLite Architect
2.2.1 Private Briefings

The SQLite Architect shall, at the request of Company, provide Company with private notification and briefings of any new bugs or new features in SQLite that might effect Company's products.

2.2.2 Direction

The SQLite Architect shall coordinate the activities of SQLite Developers and shall publish from time to time a roadmap of proposed future changes and enhancements to SQLite.

2.2.3 Oversight

The SQLite Architect shall personally review all changes to the SQLite Source Code and take responsibility for the quality and correctness of those changes.

2.2.4 Continuity

The initial SQLite Architect shall be the original developer of SQLite, D. Richard Hipp. The role of SQLite Architect shall not be assigned to another during the term of this Agreement except due to the disability of Dr. Hipp and with approval of Company.

2.3 Responsibilities And Obligations Of Hwaci

2.3.1 Employer

Hwaci shall act as the employer of the SQLite Developers and SQLite Architect and shall make all tax and legal filings and tax withholding required by employers. Hwaci shall provide Company with W-9 information upon request.

2.3.2 Responsible Party

All obligations of the SQLite Developers set forth in this agreement are deemed obligations of Hwaci. Hwaci shall recruit, employ, and supervise SQLite Developers in such a way that the responsibilities and obligations of the SQLite Developers set forth in this agreement are upheld.

2.3.3 Multiple Developers

Hwaci shall recruit and employ as many SQLite Developers for as many hours as can be reasonably achieved using the funds received from Consortium Members under this agreement. So that support for SQLite will not be interrupted by the disability or withdrawal of any one SQLite Developer, Hwaci will
keep at least two knowledgeable and competent SQLite Developers on staff.</p>

<h4>2.3.4 Mentorship</h4>
<p>Hwaci shall work to encourage independent programmers from around the world to become familiar with SQLite internals so that there will be a pool of talent able to support SQLite in the future.</p>

<h4>2.3.5 Audits</h4>
<p>Hwaci shall keep and maintain complete and accurate records of the use of development funds provided by Company and shall allow Company, or its representative, a certified public accountant mutually acceptable to Hwaci and Company, during office hours and at reasonable intervals, no more than once every 12 months, to inspect and make extracts or copies of such records solely for the purpose of ascertaining Hwaci's compliance with the objectives and requirements of this agreement.</p>

<h4>2.3.6 Disaster Planning</h4>
<p>Hwaci shall maintain backup copies of all SQLite source files and documentation, current and historical, at at least two separate locations separated from each other and from the primary on-line SQLite repository by at least 400 kilometers.</p>

<h4>2.3.7 Trademark</h4>
<p>Hwaci shall maintain ownership of the SQLite trademark and the sqlite.org domain name and shall purchase bandwidth and server space for the <a href="http://www.sqlite.org/">http://www.sqlite.org/</a> website.</p>

<h4>2.3.8 No Take-overs or Buy-outs</h4>
<p>Neither Hwaci nor the SQLite Architect shall relinquish development control of SQLite during the term of this Agreement, by acquisition or merger or by any other means, except with the consent of Company.</p>

<h4>2.3.9 New Consortium Members</h4>
<p>New Consortium Members may be accepted into the consortium from time to time under identical terms as this agreement, or under substantially similar terms that have been approved by existing Consortium Members.</p>
<h4>2.3.10 Adequate Staff</h4>
Hwaci shall recruit and employ a sufficient number of qualified SQLite Developers to easily cover all custom development, debugging, and general support service obligations for all Consortium Members while still providing ample time for the SQLite Developers to engage in general maintenance and extension of SQLite.

</p>

<h4>2.3.11 Use Of Funds</h4>
<p>Hwaci shall use the funds provided hereunder solely for the development and maintenance of SQLite as set forth in this Agreement. Interest on funds received in advance and held in trust will be reinvested and used for the same purposes as the principal.

</p>

<h3>2.4 Responsibilities And Obligations Of Company</h3>

<h4>2.4.1 Funding</h4>
<p>Company shall provide funding for the ongoing support and maintenance of SQLite as set forth in section 3.0 "Fees".
</p>

<h4>2.4.2 Copyright Disclaimer</h4>
<p>Company acknowledges that SQLite source code and documentation published on the <a href="http://www.sqlite.org/">SQLite website</a> is in the public domain and that nothing in this agreement shall change that fact.
</p>

<h2>3.0 Fees</h2>
<p>In consideration of the performance by Hwaci, the SQLite Developers, and the SQLite Architect of the obligations described herein, Company shall pay Hwaci at least US $75,000 per year in advance either annually, quarterly, or monthly, at Company’s discretion.</p>

<h2>4.0 Confidentiality</h2>

<h3>4.1 Definition of Confidential Information</h3>
<p>"Confidential Information" means any Company proprietary information, technical data, trade secrets or know-how, including, but not limited to, research, product plans, products, services, customers, customer lists, markets, software, developments, inventions, processes, formulas,
technology, designs, drawings, engineering, hardware configuration information, marketing, finances or other business information disclosed by Company either directly or indirectly in writing, orally or by drawings or inspection of parts or equipment.<p></p>

<h3>4.2 Non-Use and Non-Disclosure.</h3>

<p>Hwaci shall not, during or subsequent to the term of this Agreement, use Company's Confidential Information for any purpose whatsoever other than the performance of the Services or disclose Company's Confidential Information to any third party. The parties acknowledge that Confidential Information will remain the sole property of Company. Hwaci shall take all reasonable precautions to prevent any unauthorized disclosure of Confidential Information including, but not limited to, having each employee or consultant of Hwaci, if any, with access to any Confidential Information, execute a nondisclosure agreement containing provisions in Company's favor substantially similar to this Agreement. Confidential Information does not include information that: (i) is known to Hwaci at the time of disclosure to Hwaci by Company as evidenced by written records of Hwaci; (ii) has become publicly known and made generally available through no wrongful act of Hwaci; or (iii) has been received by Hwaci from a third party who is authorized to make such disclosure.</p>

<h4>4.2.1 Disclosure Required by Law</h4>

In the event any Confidential Information is required to be disclosed by Hwaci under the terms of a valid and effective subpoena or order issued by a court of competent jurisdiction, or by a demand or information request from an executive or administrative agency or other governmental authority, Hwaci shall, unless prohibited by the terms of a subpoena, order, or demand, promptly notify Company of the existence, terms and circumstances surrounding such demand or request, shall consult with Company on the advisability of taking legally available steps to resist or narrow such demand or request, and, if disclosure of such Confidential Information is required, shall exercise its reasonable best efforts to narrow the scope of disclosure and obtain an order or other reliable assurance that confidential treatment will be accorded to such Confidential Information. To the extent that Hwaci is prohibited from notifying Company of a subpoena, order or demand, by the terms of same, Hwaci shall exercise its reasonable efforts to narrow the scope of disclosure.</p>

<h3>4.3 Return of Materials.</h3>
Upon the termination of this Agreement, or upon Company's earlier request, Hwaci shall deliver to Company all of Company's property or Confidential Information that Hwaci may have in Hwaci's possession or control.

5.0 Intellectual Property

5.1 No Assignment

Company acknowledges that all copyrightable material, notes, records, drawings, designs, inventions, improvements, developments, discoveries and trade secrets made, generated, conceived, or reduced to practice by Hwaci related to SQLite will remain the property of Hwaci. Nothing in this Agreement will be construed to transfer any intellectual property right of Hwaci to Company.

5.2 Availability and Public Domain Dedication

The SQLite Developers and Hwaci shall, subject to their discretion as to the quality and suitability of the SQLite source code and documentation for public release, make the SQLite source code and documentation publicly available as downloadable files and make a public statement ceding all intellectual property rights, including but not limited to copyright and patent rights, in the SQLite source code and documentation to the public domain. To the extent that the SQLite Developers and Hwaci elect not to release the SQLite source code and documentation publicly, they shall provide copies thereof to Company and hereby grants to Company, under all of the SQLite Developers' and Hwaci's rights including but not limited to copyright and patent rights, in and to the SQLite source code and documentation, perpetual, irrevocable, worldwide, non-exclusive, sublicensable license to use, copy, prepare derivative works of, publicly perform and display the SQLite source code and documentation and derivative works thereof.

5.3 Trademark

Hwaci shall use the name "SQLite" only to apply to the publicly available project known by such name as of the
Effective Date. Hwaci may in its discretion file such trademark applications or registrations as it deems appropriate to protect or record its rights therein, and may set such policies as it deems appropriate for licensing the use of the trademark.

<h2>6.0 Representations And Warranties</h2>

<h3>6.1 Intellectual Property Clearances.</h3>

Hwaci hereby represents and warrants that Hwaci shall enter into agreements with the SQLite Developers sufficient to enable Hwaci to undertake the obligations of Section 5.

<h3>6.2 Disclaimer.</h3>

THE WORK PRODUCT AND ALL MATERIAL PROVIDED BY HWACI AND COMPANY ARE PROVIDED "AS IS." NEITHER PARTY MAKES ANY REPRESENTATIONS OR WARRANTIES OF ANY KIND, WHETHER ORAL OR WRITTEN, WHETHER EXPRESS, IMPLIED, OR ARISING BY STATUTE, CUSTOM, COURSE OF DEALING OR TRADE USAGE, WITH RESPECT TO THE SUBJECT MATTER HEREOF, IN CONNECTION WITH THIS AGREEMENT. EACH PARTY SPECIFICALLY DISCLAIMS ANY AND ALL IMPLIED WARRANTIES OR CONDITIONS OF TITLE, MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, AND NON-INFRINGEMENT.

<h2>7.0 Term And Termination</h2>

<h3>7.1 Term.</h3>

This Agreement will commence on the Effective Date and will continue until 12 months after the Effective Date. Thereafter, the parties may by mutual consent renew this Agreement subject to agreement on fees to be paid by Company for sponsorship for additional periods.

<h3>7.2 Termination.</h3>

If either party materially defaults in the performance of any of its material obligations hereunder and if any such default is not corrected within 30 days after notice in writing, then the non-defaulting party, at its option, may, in addition to any other remedies it may have, thereupon terminate this Agreement by giving written notice of termination to the defaulting party.

<h3>7.3 Survival.</h3>
Upon such termination all rights and duties of the parties toward each other will cease except: Sections 4 (Confidentiality), 5 (Intellectual Property), and 8 (Miscellaneous) will survive termination of this Agreement.

8. Miscellaneous

8.1 Nonassignment/Binding Agreement.

The parties acknowledge that the unique nature of Hwaci's services are substantial consideration for the parties' entering into this Agreement. Neither this Agreement nor any rights under this Agreement may be assigned or otherwise transferred by Hwaci, in whole or in part, whether voluntarily or by operation of law, without the prior written consent of Company, which consent will not be unreasonably withheld. Subject to the foregoing, this Agreement will be binding upon and will inure to the benefit of the parties and their respective successors and assigns. Any assignment in violation of the foregoing will be null and void.

8.2 Notices.

Any notice required or permitted under the terms of this Agreement or required by law must be in writing and must be: (a) delivered in person; (b) sent by first class registered mail, or air mail, as appropriate; or (c) sent by overnight air courier, in each case properly posted and fully prepaid to the appropriate address set forth in the preamble to this Agreement. Either party may change its address for notice by notice to the other party given in accordance with this Section. Notices will be considered to have been given at the time of actual delivery in person, three business days after deposit in the mail as set forth above, or one day after delivery to an overnight air courier service.

8.3 Waiver.

Any waiver of the provisions of this Agreement or of a party's rights or remedies under this Agreement must be in writing to be effective. Failure, neglect, or delay by a party to enforce the provisions of this Agreement or its rights or remedies at any time, will not be construed as a waiver of such party's rights under this Agreement and will not in any way affect the validity of the whole or any part of this Agreement.
or prejudice such party's right to take subsequent action. No exercise or enforcement by either party of any right or remedy under this Agreement will preclude the enforcement by such party of any other right or remedy under this Agreement or that such party is entitled by law to enforce.</p>

<h3>8.4 Severability.</h3>

<p>If any term, condition, or provision in this Agreement is found to be invalid, unlawful or unenforceable to any extent, the parties shall endeavor in good faith to agree to such amendments that will preserve, as far as possible, the intentions expressed in this Agreement. If the parties fail to agree on such an amendment, such invalid term, condition or provision will be severed from the remaining terms, conditions and provisions, which will continue to be valid and enforceable to the fullest extent permitted by law.</p>

<h3>8.5 Integration.</h3>

<p>This Agreement contains the entire agreement of the parties with respect to the subject matter of this Agreement and supersedes all previous communications, representations, understandings and agreements, either oral or written, between the parties with respect to said subject matter. This Agreement may not be amended, except by a writing signed by both parties.</p>

<h3>8.6 Counterparts.</h3>

<p>This Agreement may be executed in counterparts, each of which so executed will be deemed to be an original and such counterparts together will constitute one and the same agreement.</p>

<h3>8.7 Governing Law.</h3>

<p>This Agreement will be interpreted and construed in accordance with the laws of the State of North Carolina and the United States of America, without regard to conflict of law principles. All disputes arising out of this Agreement will be subject to the exclusive jurisdiction of the state and federal courts located in North Carolina, and each party hereby consents to the personal jurisdiction thereof.</p>
8.8 Independent Contractors.

It is the intention of the parties that Hwaci is an independent contractor. Nothing in this Agreement will in any way be construed to constitute Hwaci or any of its employees as an agent, employee or representative of Company.

9.0 Signatures

The parties have executed this Agreement below to indicate their acceptance of its terms.

<table width="100%" border="0">
<tr><td valign="top">
HWACI<br>
By:<hr>
Print Name:<hr>
Title:<hr>
</td><td width="10%">
</td><td valign="top">
COMPANY<br>
By:<hr>
Print Name:<hr>
Title:<hr>
</td></tr></table>

application is free to use the same database connection or the

Public domain
The source code for SQLite is in the public domain. No claim of copyright.

Found in path(s):
* /opt/cola/permits/1103884711_1604400914.82/0/sqlite-3.7.17-8.el7_7.1-1.src.rpm-cosi-expand-archive-
  COIo1yr4/sqlite-doc-3071700.zip-cosi-expand-archive-Z5Qn1wNN/sqlite-doc-3071700/different.html

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

<a href="copyright.html">public domain</a> and is thus free for

Found in path(s):
* /opt/cola/permits/1103884711_1604400914.82/0/sqlite-3.7.17-8.el7_7.1-1.src.rpm-cosi-expand-archive-
  COIo1yr4/sqlite-doc-3071700.zip-cosi-expand-archive-Z5Qn1wNN/sqlite-doc-3071700/about.html

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

<html>
<title>SQLite Copyright Release Template</title>
<body bgcolor="white">
<h1 align="center">
Copyright Release for Contributions To SQLite
</h1>
<p>
SQLite is software that implements an embeddable SQL database engine. SQLite is available for free download from http://www.sqlite.org/.
The principal author and maintainer of SQLite has disclaimed all copyright interest in his contributions to SQLite and thus released his contributions into the public domain.
In order to keep the SQLite software unencumbered by copyright claims, the principal author asks others who may from time to time contribute changes and enhancements to likewise disclaim their own individual copyright interest.
</p>
<p>
Because the SQLite software found at http://www.sqlite.org/ is in the public domain, anyone is free to download the SQLite software from that website, make changes to the software, use, distribute, or sell the modified software, under either the original name or under some new name, without any need to obtain permission, pay royalties, acknowledge the original source of the software, or in any other way compensate, identify, or notify the original authors. Nobody is in any way compelled to contribute their SQLite changes and enhancements back to the SQLite website. This document concerns only changes and enhancements to SQLite that are intentionally and deliberately contributed back to the SQLite website.
</p>
For the purposes of this document, "SQLite software" shall mean any computer source code, documentation, makefiles, test scripts, or other information that is published on the SQLite website, http://www.sqlite.org/. Precompiled binaries are excluded from the definition of "SQLite software" in this document because the process of compiling the software may introduce information from outside sources which is not properly a part of SQLite.

The header comments on the SQLite source files exhort the reader to share freely and to never take more than one gives. In the spirit of that exhortation I make the following declarations:

- I dedicate to the public domain any and all copyright interest in the SQLite software that was publicly available on the SQLite website (http://www.sqlite.org/) prior to the date of the signature below and any changes or enhancements to the SQLite software that I may cause to be published on that website in the future. I make this dedication for the benefit of the public at large and to the detriment of my heirs and successors. I intend this dedication to be an overt act of relinquishment in perpetuity of all present and future rights to the SQLite software under copyright law.

- To the best of my knowledge and belief, the changes and enhancements that I have contributed to SQLite are either originally written by me or are derived from prior works which I have verified are also in the public domain and are not subject to claims of copyright by other parties.

- To the best of my knowledge and belief, no individual, business, organization, government, or other entity has any copyright interest in the SQLite software as it existed on the SQLite website as of the date on the signature line below.

I agree never to publish any additional information.
to the SQLite website (by CVS, email, scp, FTP, or any other means) unless that information is an original work of authorship by me or is derived from prior published versions of SQLite.

I agree never to copy and paste code into the SQLite code base from other sources.

I agree never to publish on the SQLite website any information that would violate a law or breach a contract.

</p></li>
</dl>

<p>
<table width="100%" cellpadding="0" cellspacing="0">
<tr>
<td width="60%" valign="top">
Signature:
</td><td valign="top" align="left">
Date:
</td></tr>
<td colspan=2>
Name (printed):
</td></tr>
</table>
</p>

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

{string currentfile exch readstring pop}executeonly def

Found in path(s):
* /
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<a href="copyright.html">public domain</a>. No claim of ownership is made

Found in path(s):
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/*
These constants are the available integer configuration options that can be passed as the first argument to the [sqlite3_config()] interface.

New configuration options may be added in future releases of SQLite. Existing configuration options might be discontinued. Applications should check the return code from [sqlite3_config()] to make sure that the call worked. The [sqlite3_config()] interface will return a non-zero [error code] if a discontinued or unsupported configuration option is invoked.

<dl>
  <dt>SQLITE_CONFIG_SINGLETHREAD</dt>
  <dd>This option sets the [threading mode] to Single-thread. In other words, it disables all mutexing and puts SQLite into a mode where it can only be used by a single thread. If SQLite is compiled with the [SQLITE_THREADSAFE | SQLITE_THREADSAFE=0] compile-time option then it is not possible to change the [threading mode] from its default value of Single-thread and so [sqlite3_config()] will return [SQLITE_ERROR] if called with the SQLITE_CONFIG_SINGLETHREAD configuration option.</dd>

  <dt>SQLITE_CONFIG_MULTITHREAD</dt>
  <dd>This option sets the [threading mode] to Multi-thread. In other words, it disables mutexing on [database connection] and [prepared statement] objects. The application is responsible for serializing access to [database connections] and [prepared statements]. But other mutexes are enabled so that SQLite will be safe to use in a multi-threaded environment as long as no two threads attempt to use the same database connection at the same time. If SQLite is compiled with the [SQLITE_THREADSAFE | SQLITE_THREADSAFE=0] compile-time option then it is not possible to set the Multi-thread [threading mode] and [sqlite3_config()] will return [SQLITE_ERROR] if called with the SQLITE_CONFIG_MULTITHREAD configuration option. </dd>

  <dt>SQLITE_CONFIG_SERIALIZED</dt>
  <dd>This option sets the [threading mode] to Serialized. In other words, this option enables all mutexes including the recursive mutexes on [database connection] and [prepared statement] objects. In this mode (which is the default when SQLite is compiled with [SQLITE_THREADSAFE=1]) the SQLite library will itself serialize access to [database connections] and [prepared statements] so that the application is free to use the same [database connection] or the
If SQLite is compiled with
** the SQLITE_THREADSAFE | SQLITE_THREADSAFE=0 compile-time option then
** it is not possible to set the Serialized [threading mode] and
** [sqlite3_config()] will return [SQLITE_ERROR] if called with the
** SQLITE_CONFIG_SERIALIZEED configuration option.</dd>

**
** [[SQLITE_CONFIG_MALLOC]] <dt>SQLITE_CONFIG_MALLOC</dt>
** <dd> *(This option takes a single argument which is a pointer to an
** instance of the [sqlite3_mem_methods] structure. The argument specifies
** alternative low-level memory allocation routines to be used in place of
** the memory allocation routines built into SQLite.)* ^SQLite makes
** its own private copy of the content of the [sqlite3_mem_methods] structure
** before the [sqlite3_config()] call returns.</dd>

**
** [[SQLITE_CONFIG_GET_MALLOC]] <dt>SQLITE_CONFIG_GET_MALLOC</dt>
** <dd> *(This option takes a single argument which is a pointer to an
** instance of the [sqlite3_mem_methods] structure. The [sqlite3_mem_methods]
** structure is filled with the currently defined memory allocation routines.)*
** This option can be used to overload the default memory allocation
** routines with a wrapper that simulations memory allocation failure or
** tracks memory usage, for example. /></dd>

**
** [[SQLITE_CONFIG_MEMSTATUS]] <dt>SQLITE_CONFIG_MEMSTATUS</dt>
** <dd> *(This option takes single argument of type int, interpreted as a
** boolean, which enables or disables the collection of memory allocation
** statistics. *(When memory allocation statistics are disabled, the
** following SQLite interfaces become non-operational:
** <ul>
** <li> [sqlite3_memory_used()]
** <li> [sqlite3_memory_highwater()]
** <li> [sqlite3_soft_heap_limit64()]
** <li> [sqlite3_status()]
** <ul>)*
** ^Memory allocation statistics are enabled by default unless SQLite is
** compiled with [SQLITE_DEFAULT_MEMSTATUS]=0 in which case memory
** allocation statistics are disabled by default.
** </dd>

**
** [[SQLITE_CONFIG_SCRATCH]] <dt>SQLITE_CONFIG_SCRATCH</dt>
** <dd> *(This option specifies a static memory buffer that SQLite can use for
** scratch memory. There are three arguments: A pointer an 8-byte
** aligned memory buffer from which the scratch allocations will be
** drawn, the size of each scratch allocation (sz),
** and the maximum number of scratch allocations (N). The sz
** argument must be a multiple of 16.
** The first argument must be a pointer to an 8-byte aligned buffer
** of at least sz*N bytes of memory.
** ^SQLite will use no more than two scratch buffers per thread. So
** N should be set to twice the expected maximum number of threads.
** ^SQLite will never require a scratch buffer that is more than 6
** times the database page size. ^If SQLite needs needs additional
** scratch memory beyond what is provided by this configuration option, then
** [sqlite3_malloc()] will be used to obtain the memory needed.</dd>
**
** [[SQLITE_CONFIG_PAGECACHE]] <dt>SQLITE_CONFIG_PAGECACHE</dt>
** <dd> ^This option specifies a static memory buffer that SQLite can use for
** the database page cache with the default page cache implementation.
** This configuration should not be used if an application-define page
** cache implementation is loaded using the SQLITE_CONFIG_PCACHE2 option.
** There are three arguments to this option: A pointer to 8-byte aligned
** memory, the size of each page buffer (sz), and the number of pages (N).
** The sz argument should be the size of the largest database page
** (a power of two between 512 and 32768) plus a little extra for each
** page header. ^The page header size is 20 to 40 bytes depending on
** the host architecture. ^It is harmless, apart from the wasted memory,
** to make sz a little too large. The first
** argument should point to an allocation of at least sz*N bytes of memory.
** ^SQLite will use the memory provided by the first argument to satisfy its
** memory needs for the first N pages that it adds to cache. ^If additional
** page cache memory is needed beyond what is provided by this option, then
** SQLite goes to [sqlite3_malloc()] for the additional storage space.
** The pointer in the first argument must
** be aligned to an 8-byte boundary or subsequent behavior of SQLite
** will be undefined.</dd>
**
** [[SQLITE_CONFIG_HEAP]] <dt>SQLITE_CONFIG_HEAP</dt>
** <dd> ^This option specifies a static memory buffer that SQLite will use
** for all of its dynamic memory allocation needs beyond those provided
** for by [SQLITE_CONFIG_SCRATCH] and [SQLITE_CONFIG_PAGECACHE].
** There are three arguments: An 8-byte aligned pointer to the memory,
** the number of bytes in the memory buffer, and the minimum allocation size.
** ^If the first pointer (the memory pointer) is NULL, then SQLite reverts
** to using its default memory allocator (the system malloc() implementation),
** undoing any prior invocation of [SQLITE_CONFIG_MALLOC]. ^If the
** memory pointer is not NULL and either [SQLITE_ENABLE_MEMSYS3] or
** [SQLITE_ENABLE_MEMSYS5] are defined, then the alternative memory
** allocator is engaged to handle all of SQLites memory allocation needs.
** The first pointer (the memory pointer) must be aligned to an 8-byte
** boundary or subsequent behavior of SQLite will be undefined.
** The minimum allocation size is capped at 2**12. Reasonable values
** for the minimum allocation size are 2**5 through 2**8.</dd>
**
** [[SQLITE_CONFIG_MUTEX]] <dt>SQLITE_CONFIG_MUTEX</dt>
** <dd> ^(This option takes a single argument which is a pointer to an
** instance of the [sqlite3_mutex_methods] structure. The argument specifies
** alternative low-level mutex routines to be used in place
** the mutex routines built into SQLite.) ^ SQLite makes a copy of the
** content of the [sqlite3_mutex_methods] structure before the call to
** [sqlite3_config()]. If SQLite is compiled with
** the [SQLITE_THREADSAFE | SQLITE_THREADSAFE=0] compile-time option then
** the entire mutexing subsystem is omitted from the build and hence calls to
** [sqlite3_config()] with the SQLITE_CONFIG_MUTEX configuration option will
** return [SQLITE_ERROR].</dd>
**
** ** [SQLITE_CONFIG_GETMUTEX]] <dt>SQLITE_CONFIG_GETMUTEX</dt>
** <dd> (This option takes a single argument which is a pointer to an
** instance of the [sqlite3_mutex_methods] structure. The
** [sqlite3_mutex_methods]
** structure is filled with the currently defined mutex routines.)^
** This option can be used to overload the default mutex allocation
** routines with a wrapper used to track mutex usage for performance
** profiling or testing, for example. ^ If SQLite is compiled with
** the [SQLITE_THREADSAFE | SQLITE_THREADSAFE=0] compile-time option then
** the entire mutexing subsystem is omitted from the build and hence calls to
** [sqlite3_config()] with the SQLITE_CONFIG_GETMUTEX configuration option will
** return [SQLITE_ERROR].</dd>
**
** ** [SQLITE_CONFIG_LOOKASIDE]] <dt>SQLITE_CONFIG_LOOKASIDE</dt>
** <dd> (This option takes two arguments that determine the default
** memory allocation for the lookaside memory allocator on each
** [database connection]. The first argument is the
** size of each lookaside buffer slot and the second is the number of
** slots allocated to each database connection.)^ (This option sets the
** <i>default</i> lookaside size. The [SQLITE_DBCONFIG_LOOKASIDE]
** verb to [sqlite3_db_config()] can be used to change the lookaside
** configuration on individual connections.)^ </dd>
**
** ** [SQLITE_CONFIG_PCACHE2]] <dt>SQLITE_CONFIG_PCACHE2</dt>
** <dd> (This option takes a single argument which is a pointer to
** an [sqlite3_pcache_methods2] object. This object specifies the interface
** to a custom page cache implementation.)^ SQLite makes a copy of the
** object and uses it for page cache memory allocations.</dd>
**
** ** [SQLITE_CONFIG_GETPCACHE2]] <dt>SQLITE_CONFIG_GETPCACHE2</dt>
** <dd> (This option takes a single argument which is a pointer to an
** [sqlite3_pcache_methods2] object. SQLite copies of the current
** page cache implementation into that object.)^ </dd>
**
** ** [SQLITE_CONFIG_LOG]] <dt>SQLITE_CONFIG_LOG</dt>
** <dd> The SQLITE_CONFIG_LOG option is used to configure the SQLite
** global [error log].
** (^The SQLITE_CONFIG_LOG option takes two arguments: a pointer to a
** function with a call signature of void(*)(void*,int,const char*),
**
** and a pointer to void. ^If the function pointer is not NULL, it is
** invoked by [sqlite3_log()] to process each logging event. ^If the
** function pointer is NULL, the [sqlite3_log()] interface becomes a no-op.
** ^The void pointer that is the second argument to SQLITE_CONFIG_LOG is
** passed through as the first parameter to the application-defined logger
** function whenever that function is invoked. ^The second parameter to
** the logger function is a copy of the first parameter to the corresponding
** [sqlite3_log()] call and is intended to be a [result code] or an
** [extended result code]. ^The third parameter passed to the logger is
** log message after formatting via [sqlite3_snprintf()].
** The SQLite logging interface is not reentrant; the logger function
** supplied by the application must not invoke any SQLite interface.
** In a multi-threaded application, the application-defined logger
** function must be threadsafe. </dd>
**
** [[SQLITE_CONFIG_URI]] <dt>SQLITE_CONFIG_URI
** <dd> This option takes a single argument of type int. If non-zero, then
** URI handling is globally enabled. If the parameter is zero, then URI handling
** is globally disabled. If URI handling is globally enabled, all filenames
** passed to [sqlite3_open()], [sqlite3_open_v2()], [sqlite3_open16()] or
** specified as part of [ATTACH] commands are interpreted as URIs, regardless
** of whether or not the [SQLITE_OPEN_URI] flag is set when the database
** connection is opened. If it is globally disabled, filenames are
** only interpreted as URIs if the SQLITE_OPEN_URI flag is set when the
** database connection is opened. By default, URI handling is globally
** disabled. The default value may be changed by compiling with the
** [SQLITE_USE_URI] symbol defined.
**
** [[SQLITE_CONFIG_COVERING_INDEX_SCAN]] <dt>SQLITE_CONFIG_COVERING_INDEX_SCAN
** <dd> This option takes a single integer argument which is interpreted as
** a boolean in order to enable or disable the use of covering indices for
** full table scans in the query optimizer. The default setting is determined
** by the [SQLITE_ALLOW_COVERING_INDEX_SCAN] compile-time option, or is "on"
** if that compile-time option is omitted.
** The ability to disable the use of covering indices for full table scans
** is because some incorrectly coded legacy applications might malfunction
** when the optimization is enabled. Providing the ability to
** disable the optimization allows the older, buggy application code to work
** without change even with newer versions of SQLite.
**
** [[SQLITE_CONFIG_PCACHE]] [[SQLITE_CONFIG_GETPCACHE]]
** <dt>SQLITE_CONFIG_PCACHE and SQLITE_CONFIG_GETPCACHE
** <dd> These options are obsolete and should not be used by new code.
** They are retained for backwards compatibility but are now no-ops.
**</dd>
**
** [[SQLITE_CONFIG_SQLLOG]]
** <dt>SQLITE_CONFIG_SQLLOG
This option is only available if sqlite is compiled with the
[SQLITE_ENABLE_SQLLOG] pre-processor macro defined. The first argument should
be a pointer to a function of type void (*)(void*, sqlite3*, const char*, int).
The second should be of type (void*). The callback is invoked by the library
in three separate circumstances, identified by the value passed as the
fourth parameter. If the fourth parameter is 0, then the database connection
passed as the second argument has just been opened. The third argument
points to a buffer containing the name of the main database file. If the
fourth parameter is 1, then the SQL statement that the third parameter
points to has just been executed. Or, if the fourth parameter is 2, then
the connection being passed as the second parameter is being closed. The
third parameter is passed NULL in this case. An example of using this
configuration option can be seen in the "test_sqllog.c" source file in
the canonical SQLite source tree.

SQLITE_CONFIG_MMAP_SIZE

SQLITE_CONFIG_MMAP_SIZE takes two 64-bit integer (sqlite3_int64) values
that are the default mmap size limit (the default setting for
[PRAGMA mmap_size]) and the maximum allowed mmap size limit.
The default setting can be overridden by each database connection using
either the [PRAGMA mmap_size] command, or by using the
[SQLITE_FCNTL_MMAP_SIZE] file control. The maximum allowed mmap size
cannot be changed at run-time. Nor may the maximum allowed mmap size
exceed the compile-time maximum mmap size set by the
[SQLITE_MAX_MMAP_SIZE] compile-time option.
If either argument to this option is negative, then that argument is
changed to its compile-time default.

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<a href="copyright.html">public domain</a>.</p>

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)print dup( )cvs print

Found in path(s):
* {cvx $error/errormessage get($Error
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other proprietary or non-standard VFSes.

Found in path(s):
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SQLite itself is in the <a href="copyright.html">public domain</a> and can be used for any purpose. But TH3 is proprietary and requires a license.

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# 2010 July 16
#
# The author disclaims copyright to this source code. In place of
# a legal notice, here is a blessing:
#
# May you do good and not evil.
# May you find forgiveness for yourself and forgive others.
# May you share freely, never taking more than you give.
#
#***********************************************************************
#
# This file implements tests to verify that the "testable statements" in
# the lang_select.html document are correct.
#
set testdir [file dirname $argv0]
source $testdir/tester.tcl
if capable !compound {
    finish_test
    return
}

do_execsql_test e_select-1.0 {
    CREATE TABLE t1(a, b);
    INSERT INTO t1 VALUES('a', 'one');
    INSERT INTO t1 VALUES('b', 'two');
    INSERT INTO t1 VALUES('c', 'three');

    CREATE TABLE t2(a, b);
    INSERT INTO t2 VALUES('a', 'I');
    INSERT INTO t2 VALUES('b', 'II');
    INSERT INTO t2 VALUES('c', 'III');

    CREATE TABLE t3(a, c);
    INSERT INTO t3 VALUES('a', 1);
    INSERT INTO t3 VALUES('b', 2);

    CREATE TABLE t4(a, c);
    INSERT INTO t4 VALUES('a', NULL);
    INSERT INTO t4 VALUES('b', 2);
}

set t1_cross_t2 [list                
    a one   a I      a one   b II     
    a one   c III    b two   a I      
    b two   b II     b two   c III    
    c three a I      c three b II    
    c three c III                     
]

set t1_cross_t1 [list                  
    a one   a one      a one   b two    
    a one   c three    b two   a one    
    b two   b two      b two   c three  
    c three a one      c three b two   
    c three c three                     
]

# This proc is a specialized version of [do_execsql_test].
#
# The second argument to this proc must be a SELECT statement that
# features a cross join of some time. Instead of the usual ",", 
# "CROSS JOIN" or "INNER JOIN" join-op, the string %JOIN% must be
# substituted.
#
# This test runs the SELECT three times - once with:
# * s/%JOIN%/,/
# * s/%JOIN%/JOIN/
# * s/%JOIN%/INNER JOIN/
# * s/%JOIN%/CROSS JOIN/
#
# and checks that each time the results of the SELECT are $res.
#
proc do_join_test {tn select res} {
foreach {tn2 joinop} [list 1 2 "CROSS JOIN" 3 "INNER JOIN"] {
    set S [string map [list %JOIN% $joinop] $select]
    uplevel do_execsql_test $tn.$tn2 [list $S] [list $res]
}
}

# The following tests check that all paths on the syntax diagrams on
# the lang_select.html page may be taken.
#
# EVIDENCE-OF: R-11353-33501 -- syntax diagram join-constraint
#
do_join_test e_select-0.1.1 {
    SELECT count(*) FROM t1 %JOIN% t2 ON (t1.a=t2.a)
} {3}
do_join_test e_select-0.1.2 {
    SELECT count(*) FROM t1 %JOIN% t2 USING (a)
} {3}
do_join_test e_select-0.1.3 {
    SELECT count(*) FROM t1 %JOIN% t2
} {9}
do_catchsql_test e_select-0.1.4 {
    SELECT count(*) FROM t1, t2 ON (t1.a=t2.a) USING (a)
} {1 {cannot have both ON and USING clauses in the same join}}
do_catchsql_test e_select-0.1.5 {
    SELECT count(*) FROM t1, t2 USING (a) ON (t1.a=t2.a)
} {1 {near "ON": syntax error}}

# EVIDENCE-OF: R-40919-40941 -- syntax diagram select-core
#
# 0: SELECT ...
# 1: SELECT DISTINCT ...
# 2: SELECT ALL ...
#
# 0: No FROM clause
# 1: Has FROM clause
#
# 0: No WHERE clause
# 1: Has WHERE clause
<table>
<thead>
<tr>
<th># 0: No GROUP BY clause</th>
<th># 1: Has GROUP BY clause</th>
<th># 2: Has GROUP BY and HAVING clauses</th>
</tr>
</thead>
<tbody>
<tr>
<td>do_select_tests e_select-0.2 {</td>
<td></td>
<td></td>
</tr>
<tr>
<td>0000.1  &quot;SELECT 1, 2, 3 &quot; {1 2 3}</td>
<td></td>
<td></td>
</tr>
<tr>
<td>0002.1  &quot;SELECT DISTINCT 1, 2, 3 &quot; {1 2 3}</td>
<td></td>
<td></td>
</tr>
<tr>
<td>0002.2  &quot;SELECT ALL 1, 2, 3 &quot; {1 2 3}</td>
<td></td>
<td></td>
</tr>
<tr>
<td>0100.1  &quot;SELECT a, b, a|b FROM t1 &quot; {</td>
<td></td>
<td></td>
</tr>
<tr>
<td>0100.2  &quot;SELECT DISTINCT a, b, a|b FROM t1 &quot; {</td>
<td></td>
<td></td>
</tr>
<tr>
<td>0100.3  &quot;SELECT ALL a, b, a|b FROM t1 &quot; {</td>
<td></td>
<td></td>
</tr>
<tr>
<td>0200.1  &quot;SELECT 1, 2, 3 WHERE 1 &quot; {1 2 3}</td>
<td></td>
<td></td>
</tr>
<tr>
<td>0200.2  &quot;SELECT 1, 2, 3 WHERE 0 &quot; {}</td>
<td></td>
<td></td>
</tr>
<tr>
<td>0200.3  &quot;SELECT 1, 2, 3 WHERE NULL &quot; {}</td>
<td></td>
<td></td>
</tr>
<tr>
<td>0300.1  &quot;SELECT DISTINCT 1, 2, 3 WHERE 1 &quot; {1 2 3}</td>
<td></td>
<td></td>
</tr>
<tr>
<td>0300.2  &quot;SELECT ALL 1, 2, 3 WHERE 1 &quot; {1 2 3}</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1010.1  &quot;SELECT a, b, a|b FROM t1 WHERE a!='x' &quot; {</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1010.2  &quot;SELECT a, b, a|b FROM t1 WHERE a=='x'&quot; {}</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1010.3  &quot;SELECT DISTINCT a, b, a|b FROM t1 WHERE a!='x' &quot; {</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1010.4  &quot;SELECT ALL a, b, a|b FROM t1 WHERE a=='x'&quot; {}</td>
<td></td>
<td></td>
</tr>
<tr>
<td>0400.1  &quot;SELECT 1, 2, 3 GROUP BY 2&quot; {1 2 3}</td>
<td></td>
<td></td>
</tr>
<tr>
<td>0400.2  &quot;SELECT 1, 2, 3 GROUP BY 2 HAVING count(*)=1&quot; {1 2 3}</td>
<td></td>
<td></td>
</tr>
<tr>
<td>0400.3  &quot;SELECT 1, 2, 3 GROUP BY 2 HAVING count(*)&gt;1&quot; {}</td>
<td></td>
<td></td>
</tr>
<tr>
<td>0500.1  &quot;SELECT DISTINCT 1, 2, 3 GROUP BY 2&quot; {1 2 3}</td>
<td></td>
<td></td>
</tr>
<tr>
<td>0500.2  &quot;SELECT DISTINCT 1, 2, 3 GROUP BY 2 HAVING count(*)=1&quot; {1 2 3}</td>
<td></td>
<td></td>
</tr>
<tr>
<td>0500.3  &quot;SELECT DISTINCT 1, 2, 3 GROUP BY 2 HAVING count(*)&gt;1&quot; {}</td>
<td></td>
<td></td>
</tr>
<tr>
<td>0600.1  &quot;SELECT ALL 1, 2, 3 GROUP BY 2&quot; {1 2 3}</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
2002.1 "SELECT ALL 1, 2, 3 GROUP BY 2 HAVING count(*)=1" { 1 2 3 }
2002.2 "SELECT ALL 1, 2, 3 GROUP BY 2 HAVING count(*)>1" {

0101.1 "SELECT count(*), max(a) FROM t1 GROUP BY b" { 1 a 1 c 1 b }
0102.1 "SELECT count(*), max(a) FROM t1 GROUP BY b HAVING count(*)=1" {
    1 a 1 c 1 b
}
0102.2 "SELECT count(*), max(a) FROM t1 GROUP BY b HAVING count(*)=2" { }

1101.1 "SELECT DISTINCT count(*), max(a) FROM t1 GROUP BY b" { 1 a 1 c 1 b }
1102.1 "SELECT DISTINCT count(*), max(a) FROM t1 GROUP BY b HAVING count(*)=1" {
    1 a 1 c 1 b
}
1102.2 "SELECT DISTINCT count(*), max(a) FROM t1 GROUP BY b HAVING count(*)=2" { }

2101.1 "SELECT ALL count(*), max(a) FROM t1 GROUP BY b" { 1 a 1 c 1 b }
2102.1 "SELECT ALL count(*), max(a) FROM t1 GROUP BY b HAVING count(*)=1" {
    1 a 1 c 1 b
}
2102.2 "SELECT ALL count(*), max(a) FROM t1 GROUP BY b HAVING count(*)=2" { }

0011.1 "SELECT 1, 2, 3 WHERE 1 GROUP BY 2" { 1 2 3 }
0012.1 "SELECT 1, 2, 3 WHERE 0 GROUP BY 2 HAVING count(*)=1" {} 
0012.2 "SELECT 1, 2, 3 WHERE 0 GROUP BY 2 HAVING count(*)>1" {}

1011.1 "SELECT DISTINCT 1, 2, 3 WHERE 0 GROUP BY 2" {} 
1012.1 "SELECT DISTINCT 1, 2, 3 WHERE 1 GROUP BY 2 HAVING count(*)=1" { 1 2 3 }
1012.2 "SELECT DISTINCT 1, 2, 3 WHERE NULL GROUP BY 2 HAVING count(*)>1" {}

2011.1 "SELECT ALL 1, 2, 3 WHERE 1 GROUP BY 2" { 1 2 3 }
2012.1 "SELECT ALL 1, 2, 3 WHERE 0 GROUP BY 2 HAVING count(*)=1" {} 
2012.2 "SELECT ALL 1, 2, 3 WHERE 'abc' GROUP BY 2 HAVING count(*)>1" {}

0111.1 "SELECT count(*), max(a) FROM t1 WHERE a='a' GROUP BY b" { 1 a }
0112.1 "SELECT count(*), max(a) FROM t1 WHERE a='c' GROUP BY b HAVING count(*)=1" { 1 c }
0112.2 "SELECT count(*), max(a) FROM t1 WHERE 0 GROUP BY b HAVING count(*)=2" {}
1111.1 "SELECT DISTINCT count(*), max(a) FROM t1 WHERE a<c GROUP BY b" { 1 a 1 b }
1112.1 "SELECT DISTINCT count(*), max(a) FROM t1 WHERE a>a'
GROUP BY b HAVING count(*)=1} {1 c 1 b}

1112.2  "SELECT DISTINCT count(*), max(a) FROM t1 WHERE 0
         GROUP BY b HAVING count(*)=2" { }

2111.1  "SELECT ALL count(*), max(a) FROM t1 WHERE b>'one' GROUP BY b
         {1 c 1 b}
2112.1  "SELECT ALL count(*), max(a) FROM t1 WHERE a!='b'
         GROUP BY b HAVING count(*)=1" {1 a 1 c}
2112.2  "SELECT ALL count(*), max(a) FROM t1
         WHERE 0 GROUP BY b HAVING count(*)=2" { }

# EVIDENCE-OF: R-41378-26734 -- syntax diagram result-column
# do_select_tests e_select-0.3 {
1  "SELECT * FROM t1" {a one b two c three}
2  "SELECT t1.* FROM t1" {a one b two c three}
3  "SELECT 'x'||a||'x' FROM t1" {xax xbx xcx}
4  "SELECT 'x'||a||'x' AS alias FROM t1" {xax xbx xcx}
5  "SELECT 'x'||a||'x' AS alias FROM t1" {xax xbx xcx}
}

# EVIDENCE-OF: R-43129-35648 -- syntax diagram join-source
# # EVIDENCE-OF: R-36683-37460 -- syntax diagram join-op
# do_select_tests e_select-0.4 {
1  "SELECT t1.rowid FROM t1" {1 2 3}
2  "SELECT t1.rowid FROM t1,t2" {1 1 1 2 2 2 3 3 3}
3  "SELECT t1.rowid FROM t1,t2,t3" {1 1 1 1 1 2 2 2 2 2 2 3 3 3 3 3 3}
4  "SELECT t1.rowid FROM t1" {1 2 3}
5  "SELECT t1.rowid FROM t1 JOIN t2" {1 1 1 2 2 2 3 3 3}
6  "SELECT t1.rowid FROM t1 JOIN t2 JOIN t3"
     {1 1 1 1 1 2 2 2 2 2 2 3 3 3 3 3 3 3}
7  "SELECT t1.rowid FROM t1 NATURAL JOIN t3" {1 2}
8  "SELECT t1.rowid FROM t1 NATURAL LEFT OUTER JOIN t3" {1 2 3}
9  "SELECT t1.rowid FROM t1 NATURAL LEFT JOIN t3" {1 2 3}
10 "SELECT t1.rowid FROM t1 NATURAL INNER JOIN t3" {1 2}
11 "SELECT t1.rowid FROM t1 NATURAL CROSS JOIN t3" {1 2}
12 "SELECT t1.rowid FROM t1 JOIN t3" {1 2 2 3 3}
13 "SELECT t1.rowid FROM t1 LEFT OUTER JOIN t3" {1 2 2 3 3}
14 "SELECT t1.rowid FROM t1 LEFT JOIN t3" {1 2 2 3 3}
15 "SELECT t1.rowid FROM t1 INNER JOIN t3" {1 2 2 3 3}
16 "SELECT t1.rowid FROM t1 CROSS JOIN t3" {1 2 2 3 3}
}

# EVIDENCE-OF: R-28308-37813 -- syntax diagram compound-operator
#
do_select_tests e_select-0.5 {
1  "SELECT rowid FROM t1 UNION ALL SELECT rowid+2 FROM t4" {1 2 3 3 4}
2  "SELECT rowid FROM t1 UNION SELECT rowid+2 FROM t4" {1 2 3 4}
3  "SELECT rowid FROM t1 INTERSECT SELECT rowid+2 FROM t4" {3}
4  "SELECT rowid FROM t1 EXCEPT SELECT rowid+2 FROM t4" {1 2}
}

# EVIDENCE-OF: R-06480-34950 -- syntax diagram ordering-term
#
do_select_tests e_select-0.6 {
1  "SELECT b||a FROM t1 ORDER BY b||a"                  {onea threec twob}
2  "SELECT b||a FROM t1 ORDER BY (b||a) COLLATE nocase" {onea threec twob}
3  "SELECT b||a FROM t1 ORDER BY (b||a) ASC"            {onea threec twob}
4  "SELECT b||a FROM t1 ORDER BY (b||a) DESC"           {twob threec onea}
}

# EVIDENCE-OF: R-23926-36668 -- syntax diagram select-stmt
#
do_select_tests e_select-0.7 {
1  "SELECT * FROM t1" {a one b two c three}
2  "SELECT * FROM t1 ORDER BY b" {a one c three b two}
3  "SELECT * FROM t1 ORDER BY b, a" {a one c three b two}
4  "SELECT * FROM t1 LIMIT 10" {a one b two c three}
5  "SELECT * FROM t1 LIMIT 10 OFFSET 5" {}
6  "SELECT * FROM t1 LIMIT 10, 5" {}
7  "SELECT * FROM t1 ORDER BY a LIMIT 10" {a one b two c three}
8  "SELECT * FROM t1 ORDER BY b LIMIT 10 OFFSET 5" {}
9  "SELECT * FROM t1 ORDER BY a,b LIMIT 10, 5" {}
10 "SELECT * FROM t1 UNION SELECT b, a FROM t1"     {a one b two c three one a three c two b}
11 "SELECT * FROM t1 UNION SELECT b, a FROM t1 ORDER BY b" {one a two b three c a one c three b two}
12 "SELECT * FROM t1 UNION SELECT b, a FROM t1 ORDER BY b, a" {one a two b three c a one c three b two}
13 "SELECT * FROM t1 UNION SELECT b, a FROM t1 LIMIT 10" {a one b two c three one a three c two b}

"SELECT * FROM t1 UNION SELECT b, a FROM t1 LIMIT 10 OFFSET 5"
  {two b}
"SELECT * FROM t1 UNION SELECT b, a FROM t1 LIMIT 10, 5"
  {}
"SELECT * FROM t1 UNION SELECT b, a FROM t1 ORDER BY a LIMIT 10"
  {a one b two c three one a three c two b}
"SELECT * FROM t1 UNION SELECT b, a FROM t1 ORDER BY b LIMIT 10 OFFSET 5"
  {b two}
"SELECT * FROM t1 UNION SELECT b, a FROM t1 ORDER BY a,b LIMIT 10, 5"
  {}

# The following tests focus on FROM clause (join) processing.

# EVIDENCE-OF: R-16074-54196 If the FROM clause is omitted from a simple
# SELECT statement, then the input data is implicitly a single row zero
# columns wide

do_select_tests e_select-1.1 {
  1 "SELECT 'abc'"            {abc}
  2 "SELECT 'abc' WHERE NULL" {}
  3 "SELECT NULL"             {{}}
  4 "SELECT count(*)"         {1}
  5 "SELECT count(*) WHERE 0" {0}
  6 "SELECT count(*) WHERE 1" {1}
}

# EVIDENCE-OF: R-48114-33255 If there is only a single table in the
# join-source following the FROM clause, then the input data used by the
# SELECT statement is the contents of the named table.

#   The results of the SELECT queries suggest that they are operating on the
#   contents of the table 'xx'.

# do_execsql_test e_select-1.2.0 {
#  CREATE TABLE xx(x, y);
#  INSERT INTO xx VALUES('IiJlsIPepMuAhU', X'10B00B897A15BAA02E3F98DCE8F2');
#  INSERT INTO xx VALUES(NULL, -16.87);
#  INSERT INTO xx VALUES(-17.89, 'linguistically');
#} {}

do_select_tests e_select-1.2 {
  1 "SELECT quote(x), quote(y) FROM xx" {
    'IiJlsIPepMuAhU' X'10B00B897A15BAA02E3F98DCE8F2'
    NULL        -16.87
    -17.89      'linguistically'
  }
"SELECT count(*), count(x), count(y) FROM xx" {3 2 3}
"SELECT sum(x), sum(y) FROM xx" {-17.89 -16.87}

# EVIDENCE-OF: R-23593-12456 If there is more than one table specified
# as part of the join-source following the FROM keyword, then the
# contents of each named table are joined into a single dataset for the
# simple SELECT statement to operate on.
#
# There are more detailed tests for subsequent requirements that add
# more detail to this idea. We just add a single test that shows that
# data is coming from each of the three tables following the FROM clause
# here to show that the statement, vague as it is, is not incorrect.
#
do_select_tests e_select-1.3 {
1 "SELECT * FROM t1, t2, t3" {
   a one a I a 1 a one a I a 1 b 2 a one b II a 1
   a one b II b 2 a one c III a 1 a one c III b 2
   b two a I a 1 b two a I b 2 b two b II a 1
   b two b II b 2 b two c III a 1 b two c III b 2
   c three a I a 1 c three a I b 2 c three b II a 1
   c three b II b 2 c three c III a 1 c three c III b 2
}
}

# The following block of tests - e_select-1.4.* - test that the description
# of cartesian joins in the SELECT documentation is consistent with SQLite.
# In doing so, we test the following three requirements as a side-effect:
#
# EVIDENCE-OF: R-46122-14930 If the join-op is "CROSS JOIN", "INNER
# JOIN", "JOIN" or a comma (",") and there is no ON or USING clause,
# then the result of the join is simply the cartesian product of the
# left and right-hand datasets.
#
# The tests are built on this assertion. Really, they test that the output
# of a CROSS JOIN, JOIN, INNER JOIN or "," join matches the expected result
# of calculating the cartesian product of the left and right-hand datasets.
#
# EVIDENCE-OF: R-46256-57243 There is no difference between the "INNER
# JOIN", "JOIN" and "," join operators.
#
# EVIDENCE-OF: R-07544-24155 The "CROSS JOIN" join operator produces the
# same data as the "INNER JOIN", "JOIN" and "," operators
#
# All tests are run 4 times, with the only difference in each run being
# which of the 4 equivalent cartesian product join operators are used.
Since the output data is the same in all cases, we consider that this qualifies as testing the two statements above.

```sql
do_execsql_test e_select-1.4.0 {
CREATE TABLE x1(a, b);
CREATE TABLE x2(c, d, e);
CREATE TABLE x3(f, g, h, i);

-- x1: 3 rows, 2 columns
INSERT INTO x1 VALUES(24, 'converging');
INSERT INTO x1 VALUES(NULL, X'CB71');
INSERT INTO x1 VALUES('blonds', 'proprietary');

-- x2: 2 rows, 3 columns
INSERT INTO x2 VALUES(-60.06, NULL, NULL);
INSERT INTO x2 VALUES(-58, NULL, 1.21);

-- x3: 5 rows, 4 columns
INSERT INTO x3 VALUES(-39.24, NULL, 'encompass', -1);
INSERT INTO x3 VALUES('presenting', 51, 'reformation', 'dignified');
INSERT INTO x3 VALUES('conducting', -87.24, 37.56, NULL);
INSERT INTO x3 VALUES('coldest', -96, 'dramatists', 82.3);
INSERT INTO x3 VALUES('alerting', NULL, -93.79, NULL);
}
#
```

# EVIDENCE-OF: R-59089-25828 The columns of the cartesian product dataset are, in order, all the columns of the left-hand dataset followed by all the columns of the right-hand dataset.

```sql
do_join_test e_select-1.4.1.1 {
SELECT * FROM x1 %JOIN% x2 LIMIT 1
} [concat {24 converging} {-60.06 {} {}}]

do_join_test e_select-1.4.1.2 {
SELECT * FROM x2 %JOIN% x1 LIMIT 1
} [concat {-60.06 {} {}} {24 converging}]

do_join_test e_select-1.4.1.3 {
SELECT * FROM x3 %JOIN% x2 LIMIT 1
} [concat {-39.24 {} encompass -1} {-60.06 {} {}}]

do_join_test e_select-1.4.1.4 {
SELECT * FROM x2 %JOIN% x3 LIMIT 1
} [concat {-60.06 {} {}} {-39.24 {} encompass -1}]

# EVIDENCE-OF: R-44414-54710 There is a row in the cartesian product dataset formed by combining each unique combination of a row from the # left-hand and right-hand datasets.
# TODO: Come back and add a few more like the above.

# EVIDENCE-OF: R-20659-43267 In other words, if the left-hand dataset
# consists of Nlhs rows of Mlhs columns, and the right-hand dataset of
# Nrhs rows of Mrhs columns, then the cartesian product is a dataset of
# Nlhs.Nrhs rows, each containing Mlhs+Mrhs columns.
#
# x1, x2    (Nlhs=3, Nrhs=2)   (Mlhs=2, Mrhs=3)
do_join_test e_select-1.4.2.1 {SELECT count(*) FROM x1 %JOIN% x2 } [expr 3*2]
do_test e_select-1.4.2.2 {
    expr [{llength [execsql {SELECT * FROM x1, x2}]] / 6} ] [expr 2+3]
#
# x2, x3    (Nlhs=2, Nrhs=5)   (Mlhs=3, Mrhs=4)
do_join_test e_select-1.4.3.1 {
    SELECT count(*) FROM x2 %JOIN% x3 } [expr 2*5]
do_test e_select-1.4.3.2 {
    expr [{llength [execsql {SELECT * FROM x2 JOIN x3}]] / 10} ] [expr 3+4]
#
# x3, x1    (Nlhs=5, Nrhs=3)   (Mlhs=4, Mrhs=2)
do_join_test e_select-1.4.3.5 {
    SELECT count(*) FROM x3 %JOIN% x1 } [expr 5*3]
do_test e_select-1.4.3.6 {
    expr [{llength [execsql {SELECT * FROM x3 CROSS JOIN x1}]] / 15} ] [expr 4+2]
#
# x3, x3    (Nlhs=5, Nrhs=5)   (Mlhs=4, Mrhs=4)
do_join_test e_select-1.4.3.7 {
    SELECT count(*) FROM x3 %JOIN% x3

do_test e_select-1.4.3.8 {
  expr [[llength [execsql {SELECT * FROM x3 INNER JOIN x3 AS x4}]] / 25]
}
[expr 4+4]

# Some extra cartesian product tests using tables t1 and t2.
#
do_execsql_test e_select-1.4.4.1 { SELECT * FROM t1, t2 } $t1_cross_t2
do_execsql_test e_select-1.4.4.2 { SELECT * FROM t1 AS x, t1 AS y } $t1_cross_t1

do_select_tests e_select-1.4.5 [list
  1 { SELECT * FROM t1 CROSS JOIN t2 } $t1_cross_t2
  2 { SELECT * FROM t1 AS y CROSS JOIN t1 AS x } $t1_cross_t1
  3 { SELECT * FROM t1 INNER JOIN t2 } $t1_cross_t2
  4 { SELECT * FROM t1 AS y INNER JOIN t1 AS x } $t1_cross_t1
]

# EVIDENCE-OF: R-22775-56496 If there is an ON clause specified, then
# the ON expression is evaluated for each row of the cartesian product
# as a boolean expression. All rows for which the expression evaluates
# to false are excluded from the dataset.
#
foreach {tn select res} [list
  1 { SELECT * FROM t1 %JOIN% t2 ON (1) } $t1_cross_t2
  2 { SELECT * FROM t1 %JOIN% t2 ON (0) } [list]
  3 { SELECT * FROM t1 %JOIN% t2 ON (NULL) } [list]
  4 { SELECT * FROM t1 %JOIN% t2 ON ('abc') } [list]
  5 { SELECT * FROM t1 %JOIN% t2 ON ('1ab') } $t1_cross_t2
  6 { SELECT * FROM t1 %JOIN% t2 ON (0.9) } $t1_cross_t2
  7 { SELECT * FROM t1 %JOIN% t2 ON ('0.9') } $t1_cross_t2
  8 { SELECT * FROM t1 %JOIN% t2 ON (0.0) } [list]
  9 { SELECT t1.b, t2.b FROM t1 %JOIN% t2 ON (t1.a = t2.a) } [one I two II three III]
 10 { SELECT t1.b, t2.b FROM t1 %JOIN% t2 ON (t1.a = 'a') } [one I one II one III]
 11 { SELECT t1.b, t2.b FROM t1 %JOIN% t2 ON (CASE WHEN t1.a = 'a' THEN NULL ELSE 1 END) } [two I two II two III three I three II three III]
]

do_join_test e_select-1.3.$tn $select $res

# EVIDENCE-OF: R-63358-54862 If there is a USING clause specified as
# part of the join-constraint, then each of the column names specified
# must exist in the datasets to both the left and right of the join-op.
do_select_tests e_select-1.4 -error {
    cannot join using column %s - column not present in both tables
} {
    1 { SELECT * FROM t1, t3 USING (b) } "b"
    2 { SELECT * FROM t3, t1 USING (c) } "c"
    3 { SELECT * FROM t3, (SELECT a AS b, b AS c FROM t1) USING (a) } "a"
}

# EVIDENCE-OF: R-55987-04584 For each pair of namesake columns, the
# expression "lhs.X = rhs.X" is evaluated for each row of the cartesian
# product as a boolean expression. All rows for which one or more of the
# expressions evaluates to false are excluded from the result set.
#
# EVIDENCE-OF: R-54046-48600 When comparing values as a result of a
# USING clause, the normal rules for handling affinities, collation
# sequences and NULL values in comparisons apply.
#
# EVIDENCE-OF: R-35466-18578 The column from the dataset on the
# left-hand side of the join operator is considered to be on the
# left-hand side of the comparison operator (=) for the purposes of
# collation sequence and affinity precedence.
#
# do_execsql_test e_select-1.6.0 {
CREATE TABLE t5(a COLLATE nocase, b COLLATE binary);
    INSERT INTO t5 VALUES('AA', 'cc');
    INSERT INTO t5 VALUES('BB', 'dd');
    INSERT INTO t5 VALUES(NULL, NULL);
CREATE TABLE t6(a COLLATE binary, b COLLATE nocase);
    INSERT INTO t6 VALUES('aa', 'cc');
    INSERT INTO t6 VALUES('bb', 'DD');
    INSERT INTO t6 VALUES(NULL, NULL);
} {}
foreach {tn select res} {
    1 { SELECT * FROM t5 %JOIN% t6 USING (a) } {AA cc cc BB dd DD}
    2 { SELECT * FROM t6 %JOIN% t5 USING (a) } {}
    3 { SELECT * FROM (SELECT a COLLATE nocase, b FROM t6) %JOIN% t5 USING (a) }
        {aa cc cc bb DD dd}
    4 { SELECT * FROM t5 %JOIN% t6 USING (a,b) } {AA cc}
    5 { SELECT * FROM t6 %JOIN% t5 USING (a,b) } {}
} {
    do_join_test e_select-1.6.$tn $select $res
}
# EVIDENCE-OF: R-57047-10461 For each pair of columns identified by a
# USING clause, the column from the right-hand dataset is omitted from
# the joined dataset.
#
# EVIDENCE-OF: R-56132-15700 This is the only difference between a USING
# clause and its equivalent ON constraint.
#
foreach {tn select res} {
  1a { SELECT * FROM t1 %JOIN% t2 USING (a) }
      {a one b two c three}
  1b { SELECT * FROM t1 %JOIN% t2 ON (t1.a=t2.a) }
      {a one a b two b c three c}

  2a { SELECT * FROM t3 %JOIN% t4 USING (a) }
      {a 1 , b 2 2}
  2b { SELECT * FROM t3 %JOIN% t4 ON (t3.a=t4.a) }
      {a 1 a , b 2 b 2}

  3a { SELECT * FROM t3 %JOIN% t4 USING (a,c) }
      {b 2}
  3b { SELECT * FROM t3 %JOIN% t4 ON (t3.a=t4.a AND t3.c=t4.c) }
      {b 2 b 2}

  4a { SELECT * FROM (SELECT a COLLATE nocase, b FROM t6) AS x
       %JOIN% t5 USING (a) }
      {aa cc cc bb DD dd}
  4b { SELECT * FROM (SELECT a COLLATE nocase, b FROM t6) AS x
       %JOIN% t5 ON (x.a=t5.a) }
      {aa cc AA cc bb DD BB dd}
} {
  do_join_test e_select-1.7.$tn $select $res
}

# EVIDENCE-OF: R-41434-12448 If the join-op is a "LEFT JOIN" or "LEFT
# OUTER JOIN", then after the ON or USING filtering clauses have been
# applied, an extra row is added to the output for each row in the
# original left-hand input dataset that corresponds to no rows at all in
# the composite dataset (if any).
#
  do_execsql_test e_select-1.8.0 {
    CREATE TABLE t7(a, b, c);
    CREATE TABLE t8(a, d, e);

    INSERT INTO t7 VALUES('x', 'ex', 24);
    INSERT INTO t7 VALUES('y', 'why', 25);

    INSERT INTO t8 VALUES('x', 'abc', 24);
    INSERT INTO t8 VALUES('z', 'ghi', 26);
  } {}
do_select_tests e_select-1.8 {
  1a "SELECT count(*) FROM t7 JOIN t8 ON (t7.a=t8.a)" {1}
  1b "SELECT count(*) FROM t7 LEFT JOIN t8 ON (t7.a=t8.a)" {2}
  2a "SELECT count(*) FROM t7 JOIN t8 USING (a)" {1}
  2b "SELECT count(*) FROM t7 LEFT JOIN t8 USING (a)" {2}
}

# EVIDENCE-OF: R-15607-52988 The added rows contain NULL values in the
# columns that would normally contain values copied from the right-hand
# input dataset.
#
# do_select_tests e_select-1.9 {
  1a "SELECT * FROM t7 JOIN t8 ON (t7.a=t8.a)" {x ex 24 x abc 24}
  1b "SELECT * FROM t7 LEFT JOIN t8 ON (t7.a=t8.a)"
      { x ex 24 x abc 24 y why 25 { } {} { }}
  2a "SELECT * FROM t7 JOIN t8 USING (a)" {x ex 24 abc 24}
  2b "SELECT * FROM t7 LEFT JOIN t8 USING (a)" {x ex 24 abc 24 y why 25 { } { }}
}

# EVIDENCE-OF: R-01809-52134 If the NATURAL keyword is added to any of
# the join-ops, then an implicit USING clause is added to the
# join-constraints. The implicit USING clause contains each of the
# column names that appear in both the left and right-hand input
# datasets.
#
# do_select_tests e_select-1-10 {
  1a "SELECT * FROM t7 JOIN t8 USING (a)" {x ex 24 abc 24}
  1b "SELECT * FROM t7 NATURAL JOIN t8" {x ex 24 abc 24}
  2a "SELECT * FROM t8 JOIN t7 USING (a)" {x abc 24 ex 24}
  2b "SELECT * FROM t8 NATURAL JOIN t7" {x abc 24 ex 24}
  3a "SELECT * FROM t7 LEFT JOIN t8 USING (a)" { x ex 24 abc 24 y why 25 { } { } { } }
  3b "SELECT * FROM t7 NATURAL LEFT JOIN t8" { x ex 24 abc 24 y why 25 { } { } { } }
  4a "SELECT * FROM t8 LEFT JOIN t7 USING (a)" { x abc 24 ex 24 z ghi 26 { } { } { } }
  4b "SELECT * FROM t8 NATURAL LEFT JOIN t7" { x abc 24 ex 24 z ghi 26 { } { } { } }
  5a "SELECT * FROM t3 JOIN t4 USING (a,c)" {b 2}
  5b "SELECT * FROM t3 NATURAL JOIN t4" {b 2}
  6a "SELECT * FROM t3 LEFT JOIN t4 USING (a,c)" {a 1 b 2}
  6b "SELECT * FROM t3 NATURAL LEFT JOIN t4" {a 1 b 2}
}

# EVIDENCE-OF: R-49566-01570 If the left and right-hand input datasets
# feature no common column names, then the NATURAL keyword has no effect
CREATE TABLE t0(x, y);
INSERT INTO t0 VALUES(1, 'true');
INSERT INTO t0 VALUES(0, 'false');

CREATE TABLE t10(x, y);
INSERT INTO t10 VALUES(1, 'true');
INSERT INTO t10 VALUES(0, 'false');

CREATE TABLE x1(k, x, y, z);
INSERT INTO x1 VALUES(1, 'relinquished', 'aphasia', 78.43);
INSERT INTO x1 VALUES(2, X'A8E8D66F',    X'07CF',   -81);
INSERT INTO x1 VALUES(3, -22,            -27.57,    NULL);
INSERT INTO x1 VALUES(4, NULL,           'bygone',  'picky');
INSERT INTO x1 VALUES(5, NULL,           96.28,     NULL);
INSERT INTO x1 VALUES(6, 0,              1,         2);

CREATE TABLE x2(k, x, y2);
INSERT INTO x2 VALUES(1, 50, X'B82838');
INSERT INTO x2 VALUES(5, 84.79, 65.88);
INSERT INTO x2 VALUES(3, -22, X'0E1BE452A393');
INSERT INTO x2 VALUES(7, 'mistrusted', 'standardized');

# EVIDENCE-OF: R-39625-59133 A USING or ON clause may not be added to a
# join that specifies the NATURAL keyword.
#
# EVIDENCE-OF: R-06999-14330 If a WHERE clause is specified, the WHERE
# expression is evaluated for each row in the input data as a boolean
# expression. All rows for which the WHERE clause expression evaluates to false are excluded from the dataset before continuing.

```sql
do_execsql_test e_select-3.1.1 { SELECT k FROM x1 WHERE x } {3}
do_execsql_test e_select-3.1.2 { SELECT k FROM x1 WHERE y } {3 5 6}
do_execsql_test e_select-3.1.3 { SELECT k FROM x1 WHERE z } {1 2 6}
do_execsql_test e_select-3.1.4 { SELECT k FROM x1 WHERE '1' || z } {1 2 4 6}
do_execsql_test e_select-3.1.5 { SELECT k FROM x1 WHERE x IS NULL } {4 5}
do_execsql_test e_select-3.1.6 { SELECT k FROM x1 WHERE z - 78.43 } {2 4 6}
```

```sql
do_execsql_test e_select-3.2.1a {
   SELECT k FROM x1 LEFT JOIN x2 USING(k)
} {1 2 3 4 5 6}
do_execsql_test e_select-3.2.1b {
   SELECT k FROM x1 LEFT JOIN x2 USING(k) WHERE x2.k
} {1 3 5}
do_execsql_test e_select-3.2.2 {
   SELECT k FROM x1 NATURAL JOIN x2 WHERE x2.k IS NULL
} {2 4 6}
do_execsql_test e_select-3.2.3 {
   SELECT k FROM x1 NATURAL JOIN x2 WHERE x2.k
} {3}
do_execsql_test e_select-3.2.4 {
   SELECT k FROM x1 NATURAL JOIN x2 WHERE x2.k - 3
} {
}
```

# Tests below this point are focused on verifying the testable statements related to calculating the result rows of a simple SELECT statement.

```sql
drop_all_tables
do_execsql_test e_select-4.0 {
   CREATE TABLE z1(a, b, c);
   CREATE TABLE z2(d, e);
   CREATE TABLE z3(a, b);

   INSERT INTO z1 VALUES(51.65, -59.58, 'belfries');
   INSERT INTO z1 VALUES(-5, NULL, 75);
   INSERT INTO z1 VALUES(-2.2, -23.18, 'suiters');
   INSERT INTO z1 VALUES(NULL, 67, 'quartets');
   INSERT INTO z1 VALUES(63, 'born', -26);
   INSERT INTO z1 VALUES(63, 'born', -26);
   INSERT INTO z1 VALUES(-1.04, -32.3, 'aspen');
   INSERT INTO z1 VALUES(63, 'born', -26);
   INSERT INTO z2 VALUES(NULL, 21);
   INSERT INTO z2 VALUES(36, 6);
INSERT INTO z3 VALUES('subsistence', 'gauze');
INSERT INTO z3 VALUES(49.17, -67);
}

# EVIDENCE-OF: R-36327-17224 If a result expression is the special
# expression ".*" then all columns in the input data are substituted for
# that one expression.
#
# EVIDENCE-OF: R-43693-30522 If the expression is the alias of a table
# or subquery in the FROM clause followed by ".*" then all columns from
# the named table or subquery are substituted for the single expression.
#
do_select_tests e_select-4.1 {
1  "SELECT * FROM z1 LIMIT 1"             {51.65 -59.58 belfries}
2  "SELECT * FROM z1,z2 LIMIT 1"          {51.65 -59.58 belfries {} 21}
3  "SELECT z1.* FROM z1,z2 LIMIT 1"       {51.65 -59.58 belfries}
4  "SELECT z2.* FROM z1,z2 LIMIT 1"       {{} 21}
5  "SELECT z2.*, z1.* FROM z1,z2 LIMIT 1" {{} 21 51.65 -59.58 belfries}

6  "SELECT count(*), * FROM z1"           {6 63 born -26}
7  "SELECT max(a), * FROM z1"             {63 63 born -26}
8  "SELECT *, min(a) FROM z1"             {-5 {} 75 -5}
9  "SELECT *,* FROM z1,z2 LIMIT 1"         {51.65 -59.58 belfries {} 21 51.65 -59.58 belfries}
}

# EVIDENCE-OF: R-61869-22578 It is an error to use a "*" or "alias.*"
# expression in any context other than than a result expression list.
#
# EVIDENCE-OF: R-44324-41166 It is also an error to use a "*" or
# "alias.*" expression in a simple SELECT query that does not have a
# FROM clause.
#
foreach {tn select err} {
1.1  "SELECT a, b, c FROM z1 WHERE *"       {near "*": syntax error}
1.2  "SELECT a, b, c FROM z1 GROUP BY *"     {near "*": syntax error}
1.3  "SELECT 1 * FROM z1"                    {near ": syntax error}
1.4  "SELECT * + 1 FROM z1"                  {near ": syntax error}
}
2.1 "SELECT *" {no tables specified}
2.2 "SELECT WHERE 1" {no tables specified}
2.3 "SELECT WHERE 0" {no tables specified}
2.4 "SELECT count(*), *" {no tables specified}
foreach {tn select nCol} {
    1 "SELECT * FROM z1"   3
    2 "SELECT * FROM z1 NATURAL JOIN z3"            3
    3 "SELECT z1.* FROM z1 NATURAL JOIN z3"            3
    4 "SELECT z3.* FROM z1 NATURAL JOIN z3"            2
    5 "SELECT z1.*, z3.* FROM z1 NATURAL JOIN z3"   5
    6 "SELECT 1, 2, z1.* FROM z1"                   5
    7 "SELECT a, *, b, c FROM z1"                   6
} {
    set ::stmt [sqlite3_prepare_v2 db $select -1 DUMMY]
    do_test e_select-4.3.$tn { sqlite3_column_count $::stmt } $nCol
    sqlite3_finalize $::stmt
}

# In lang_select.html, a non-aggregate query is defined as any simple SELECT
# that has no GROUP BY clause and no aggregate expressions in the result
# expression list. Other queries are aggregate queries. Test cases
# e_select-4.4.* through e_select-4.12.*, inclusive, which test the part of
# simple SELECT that is different for aggregate and non-aggregate queries
# verify (in a way) that these definitions are consistent:
#
# EVIDENCE-OF: R-20637-43463 A simple SELECT statement is an aggregate
# query if it contains either a GROUP BY clause or one or more aggregate
# functions in the result-set.
#
# EVIDENCE-OF: R-23155-55597 Otherwise, if a simple SELECT contains no
# aggregate functions or a GROUP BY clause, it is a non-aggregate query.
#
# EVIDENCE-OF: R-44050-47362 If the SELECT statement is a non-aggregate
# query, then each expression in the result expression list is evaluated
# for each row in the dataset filtered by the WHERE clause.
#
do_select_tests e_select-4.4 {
    1 "SELECT a, b FROM z1"
    {51.65 -59.58 -5 {} -2.2 -23.18 {} 67 -1.04 -32.3 63 born}
```
2  "SELECT a IS NULL, b+1, * FROM z1" {  
   0  -5.85  51.65  -59.58  belfries  
   0  { }  -5  { }  75  
   0  -22.18  -2.2  -23.18  suiters  
   1  68  { }  67  quartets  
   0  -31.3  -1.04  -32.3  aspen  
   0  1  63  born  -26  
}
3  "SELECT 32*32, d||e FROM z2" { 1024  { }  1024  366  }
}

# Test cases e_select-4.5.* and e_select-4.6.* together show that:
# EVIDENCE-OF: R-51988-01124 The single row of result-set data created  
# by evaluating the aggregate and non-aggregate expressions in the  
# result-set forms the result of an aggregate query without a GROUP BY  
# clause.
# EVIDENCE-OF: R-57629-25253 If the SELECT statement is an aggregate  
# query without a GROUP BY clause, then each aggregate expression in the  
# result-set is evaluated once across the entire dataset.
# do_select_tests e_select-4.5 {  
1  "SELECT count(a), max(a), count(b), max(b) FROM z1"  [ 5 63  5  born]  
2  "SELECT count(*), max(1)"  { 1  1 }  
3  "SELECT sum(b+1) FROM z1 NATURAL LEFT JOIN z3"  [-43.06]  
4  "SELECT sum(b+2) FROM z1 NATURAL LEFT JOIN z3"  [-38.06]  
5  "SELECT sum(b IS NOT NULL) FROM z1 NATURAL LEFT JOIN z3"  [ 5 ]  
}
# EVIDENCE-OF: R-26684-40576 Each non-aggregate expression in the  
# result-set is evaluated once for an arbitrarily selected row of the  
# dataset.
# EVIDENCE-OF: R-27994-60376 The same arbitrarily selected row is used  
# for each non-aggregate expression.
# Note: The results of many of the queries in this block of tests are  
# technically undefined, as the documentation does not specify which row  
# SQLite will arbitrarily select to use for the evaluation of the  
# non-aggregate expressions.
# drop_all_tables  
# do_execsql_test e_select-4.6.0 {
```
CREATE TABLE a1(one PRIMARY KEY, two);
INSERT INTO a1 VALUES(1, 1);
INSERT INTO a1 VALUES(2, 3);
INSERT INTO a1 VALUES(3, 6);
INSERT INTO a1 VALUES(4, 10);

CREATE TABLE a2(one PRIMARY KEY, three);
INSERT INTO a2 VALUES(1, 1);
INSERT INTO a2 VALUES(3, 2);
INSERT INTO a2 VALUES(6, 3);
INSERT INTO a2 VALUES(10, 4);

do_select_tests e_select-4.6 {
1 "SELECT one, two, count(*) FROM a1"                        {4 10 4}
2 "SELECT one, two, count(*) FROM a1 WHERE one<3"            {2 3 2}
3 "SELECT one, two, count(*) FROM a1 WHERE one>3"            {4 10 1}
4 "SELECT *, count(*) FROM a1 JOIN a2"                       {4 10 10 4 16}
5 "SELECT *, sum(three) FROM a1 NATURAL JOIN a2"             {3 6 2 3}
6 "SELECT *, sum(three) FROM a1 NATURAL JOIN a2"             {3 6 2 3}
7 "SELECT group_concat(three, ","), a1.* FROM a1 NATURAL JOIN a2" {12 3 6}
}

# EVIDENCE-OF: R-04486-07266 Or, if the dataset contains zero rows, then
# each non-aggregate expression is evaluated against a row consisting
# entirely of NULL values.
#
do_select_tests e_select-4.7 {
1 "SELECT one, two, count(*) FROM a1 WHERE 0"           {{} {} 0}
2 "SELECT sum(two), * FROM a1, a2 WHERE three>5"        {{} {} {} {} {}}
3 "SELECT max(one) IS NULL, one IS NULL, two IS NULL FROM a1 WHERE two=7" {1 1 1}
}

# EVIDENCE-OF: R-64138-28774 An aggregate query without a GROUP BY
# clause always returns exactly one row of data, even if there are zero
# rows of input data.
#
foreach {tn select} {[
8.1 "SELECT count(*) FROM a1"
8.2 "SELECT count(*) FROM a1 WHERE 0"
8.3 "SELECT count(*) FROM a1 WHERE 1"
8.4 "SELECT max(a1.one)+min(two), a1.one, two, * FROM a1, a2 WHERE 1"
8.5 "SELECT max(a1.one)+min(two), a1.one, two, * FROM a1, a2 WHERE 0"
] {
# Set $nRow to the number of rows returned by $select:
set ::stmt [sqlite3_prepare_v2 db $select -1 DUMMY]
set nRow 0
while {"SQLITE_ROW" == [sqlite3_step $::stmt]} { incr nRow }  
set rc [sqlite3_finalize $::stmt]

# Test that $nRow==1 and that statement execution was successful  
# (rc==SQLITE_OK).
do_test e_select-4.$tn [list list $rc $nRow] {SQLITE_OK 1}
}
drop_all_tables
do_execsql_test e_select-4.9.0 {
CREATE TABLE b1(one PRIMARY KEY, two);
INSERT INTO b1 VALUES(1, 'o');
INSERT INTO b1 VALUES(4, 't');
INSERT INTO b1 VALUES(3, 't');
INSERT INTO b1 VALUES(2, 't');
INSERT INTO b1 VALUES(5, 't');
INSERT INTO b1 VALUES(7, 's');
INSERT INTO b1 VALUES(6, 's');

CREATE TABLE b2(x, y);
INSERT INTO b2 VALUES(NULL, 0);
INSERT INTO b2 VALUES(NULL, 1);
INSERT INTO b2 VALUES('xyz', 2);
INSERT INTO b2 VALUES('abc', 3);
INSERT INTO b2 VALUES('xyz', 4);

CREATE TABLE b3(a COLLATE nocase, b COLLATE binary);
INSERT INTO b3 VALUES('abc', 'abc');
INSERT INTO b3 VALUES('aBC', 'aBC');
INSERT INTO b3 VALUES('Def', 'Def');
INSERT INTO b3 VALUES('dEF', 'dEF');
}

# EVIDENCE-OF: R-57754-57109 If the SELECT statement is an aggregate  
# query with a GROUP BY clause, then each of the expressions specified  
# as part of the GROUP BY clause is evaluated for each row of the  
# dataset. Each row is then assigned to a "group" based on the results;  
# rows for which the results of evaluating the GROUP BY expressions are  
# the same are assigned to the same group.
#
# These tests also show that the following is not untrue:
#
# EVIDENCE-OF: R-25883-55063 The expressions in the GROUP BY clause do  
# not have to be expressions that appear in the result.
#
do_select_tests e_select-4.9 {
1  
"SELECT group_concat(one), two FROM b1 GROUP BY two" {
/## f 1 o ## s ## t/
"SELECT group_concat(one), sum(one) FROM b1 GROUP BY (one>4)" {
  1,2,3,4 10  5,6,7 18
}
"SELECT group_concat(one) FROM b1 GROUP BY (two>'o'), one%2" {
  4 1,5  2,6  3,7
}
"SELECT group_concat(one) FROM b1 GROUP BY (one==2 OR two=='o')" {
  4,3,5,7,6  1,2
}

# EVIDENCE-OF: R-14926-50129 For the purposes of grouping rows, NULL values are considered equal.

# do_select_tests e_select-4.10 {
  1  "SELECT group_concat(y) FROM b2 GROUP BY x" {/### 3 ###/
  2  "SELECT count(*) FROM b2 GROUP BY CASE WHEN y<4 THEN NULL ELSE 0 END" {4 1}
}

# EVIDENCE-OF: R-10470-30318 The usual rules for selecting a collation sequence with which to compare text values apply when evaluating expressions in a GROUP BY clause.

# do_select_tests e_select-4.11 {
  1  "SELECT count(*) FROM b3 GROUP BY b"     {1 1 1 1}
  2  "SELECT count(*) FROM b3 GROUP BY a"     {2 2}
  3  "SELECT count(*) FROM b3 GROUP BY +b"     {1 1 1 1}
  4  "SELECT count(*) FROM b3 GROUP BY +a"     {2 2}
  5  "SELECT count(*) FROM b3 GROUP BY b"     {1 1 1 1}
  6  "SELECT count(*) FROM b3 GROUP BY a"     {1 1 1 1}
}

# EVIDENCE-OF: R-63573-50730 The expressions in a GROUP BY clause may not be aggregate expressions.

# foreach {tn select} {
  12.1  "SELECT * FROM b3 GROUP BY count(*)"
  12.2  "SELECT max(a) FROM b3 GROUP BY max(b)"
  12.3  "SELECT group_concat(a) FROM b3 GROUP BY a, max(b)"
} {
  set res {1 {aggregate functions are not allowed in the GROUP BY clause}}
  do_catchsql_test e_select-4.$tn $select $res
}

# EVIDENCE-OF: R-31537-00101 If a HAVING clause is specified, it is evaluated once for each group of rows as a boolean expression. If the result of evaluating the HAVING clause is false, the group is
# discarded.
#
# This requirement is tested by all e_select-4.13.* tests.
#
# EVIDENCE-OF: R-04132-09474 If the HAVING clause is an aggregate
# expression, it is evaluated across all rows in the group.
#
# Tested by e_select-4.13.1.*
#
# EVIDENCE-OF: R-28262-47447 If a HAVING clause is a non-aggregate
# expression, it is evaluated with respect to an arbitrarily selected
# row from the group.
#
# Tested by e_select-4.13.2.*
#
# Tests in this block also show that this is not untrue:
#
# EVIDENCE-OF: R-55403-13450 The HAVING expression may refer to values,
# even aggregate functions, that are not in the result.
#
do_execsql_test e_select-4.13.0 {
    CREATE TABLE c1(up, down);
    INSERT INTO c1 VALUES('x', 1);
    INSERT INTO c1 VALUES('x', 2);
    INSERT INTO c1 VALUES('x', 4);
    INSERT INTO c1 VALUES('x', 8);
    INSERT INTO c1 VALUES('y', 16);
    INSERT INTO c1 VALUES('y', 32);

    CREATE TABLE c2(i, j);
    INSERT INTO c2 VALUES(1, 0);
    INSERT INTO c2 VALUES(2, 1);
    INSERT INTO c2 VALUES(3, 3);
    INSERT INTO c2 VALUES(4, 6);
    INSERT INTO c2 VALUES(5, 10);
    INSERT INTO c2 VALUES(6, 15);
    INSERT INTO c2 VALUES(7, 21);
    INSERT INTO c2 VALUES(8, 28);
    INSERT INTO c2 VALUES(9, 36);

    CREATE TABLE c3(i PRIMARY KEY, k TEXT);
    INSERT INTO c3 VALUES(1,  'hydrogen');
    INSERT INTO c3 VALUES(2,  'helium');
    INSERT INTO c3 VALUES(3,  'lithium');
    INSERT INTO c3 VALUES(4,  'beryllium');
    INSERT INTO c3 VALUES(5,  'boron');
    INSERT INTO c3 VALUES(94, 'plutonium');
} {}
do_select_tests e_select-4.13 {
  1.1 "SELECT up FROM c1 GROUP BY up HAVING count(*)>3" {x}  
  1.2 "SELECT up FROM c1 GROUP BY up HAVING sum(down)>16" {y}  
  1.3 "SELECT up FROM c1 GROUP BY up HAVING sum(down)<16" {x}  
  1.4 "SELECT up||down FROM c1 GROUP BY (down<5) HAVING max(down)<10" {x4}
  
  2.1 "SELECT up FROM c1 GROUP BY up HAVING down>10" {y}  
  2.2 "SELECT up FROM c1 GROUP BY up HAVING up='y'" {y}  
  2.3 "SELECT i, j FROM c2 GROUP BY i>4 HAVING i>6" {9 36}
}

# EVIDENCE-OF: R-23927-54081 Each expression in the result-set is then  
# evaluated once for each group of rows.
#  
# EVIDENCE-OF: R-53735-47017 If the expression is an aggregate  
# expression, it is evaluated across all rows in the group.
#

do_select_tests e_select-4.15 {
  1  "SELECT sum(down) FROM c1 GROUP BY up" {15 48}  
  2  "SELECT sum(j), max(j) FROM c2 GROUP BY (i%3)" {54 36 27 21 39 28}  
  3  "SELECT sum(j), max(j) FROM c2 GROUP BY (j%2)" {80 36 40 21}  
  4  "SELECT 1+sum(j), max(j)+1 FROM c2 GROUP BY (j%2)" {81 37 41 22}  
  5  "SELECT count(*), round(avg(i),2) FROM c1, c2 ON (i=down) GROUP BY j%2"  
      {3 4.33 1 2.0}
}

# EVIDENCE-OF: R-62913-19830 Otherwise, it is evaluated against a single  
# arbitrarily chosen row from within the group.
#  
# EVIDENCE-OF: R-53924-08809 If there is more than one non-aggregate  
# expression in the result-set, then all such expressions are evaluated  
# for the same row.
#

do_select_tests e_select-4.15 {
  1  "SELECT i, j FROM c2 GROUP BY i%2" {8 28 9 36}  
  2  "SELECT i, j FROM c2 GROUP BY i%2 HAVING j<30" {8 28}  
  3  "SELECT i, j FROM c2 GROUP BY i%2 HAVING j>30" {9 36}  
  4  "SELECT i, j FROM c2 GROUP BY i%2 HAVING j>30" {9 36}  
  5  "SELECT count(*), i, k FROM c2 NATURAL JOIN c3 GROUP BY substr(k, 1, 1)"  
      {2 5 boron 2 2 helium 1 3 lithium}
}

# EVIDENCE-OF: R-19334-12811 Each group of input dataset rows  
# contributes a single row to the set of result rows.
#  
# EVIDENCE-OF: R-02223-49279 Subject to filtering associated with the
# DISTINCT keyword, the number of rows returned by an aggregate query
# with a GROUP BY clause is the same as the number of groups of rows
# produced by applying the GROUP BY and HAVING clauses to the filtered
# input dataset.
#
do_select_tests e_select.4.16 -count {
  1 "SELECT i, j FROM c2 GROUP BY i%2"          2
  2 "SELECT i, j FROM c2 GROUP BY i"            9
  3 "SELECT i, j FROM c2 GROUP BY i HAVING i<5" 4
}

# The following tests attempt to verify statements made regarding the ALL
# and DISTINCT keywords.
#
drop_all_tables
do_execsql_test e_select-5.1.0 {
  CREATE TABLE h1(a, b);
  INSERT INTO h1 VALUES(1, 'one');
  INSERT INTO h1 VALUES(1, 'I');
  INSERT INTO h1 VALUES(1, 'i');
  INSERT INTO h1 VALUES(4, 'four');
  INSERT INTO h1 VALUES(4, 'IV');
  INSERT INTO h1 VALUES(4, 'iv');
  CREATE TABLE h2(x COLLATE nocase);
  INSERT INTO h2 VALUES('One');
  INSERT INTO h2 VALUES('Two');
  INSERT INTO h2 VALUES('Three');
  INSERT INTO h2 VALUES('Four');
  INSERT INTO h2 VALUES('one');
  INSERT INTO h2 VALUES('two');
  INSERT INTO h2 VALUES('three');
  INSERT INTO h2 VALUES('four');
  CREATE TABLE h3(c, d);
  INSERT INTO h3 VALUES(1, NULL);
  INSERT INTO h3 VALUES(2, NULL);
  INSERT INTO h3 VALUES(3, NULL);
  INSERT INTO h3 VALUES(4, '2');
  INSERT INTO h3 VALUES(5, NULL);
  INSERT INTO h3 VALUES(6, '2,3');
  INSERT INTO h3 VALUES(7, NULL);
  INSERT INTO h3 VALUES(8, '2,4');
  INSERT INTO h3 VALUES(9, '3');
} {}

# EVIDENCE-OF: R-60770-10612 One of the ALL or DISTINCT keywords may
# follow the SELECT keyword in a simple SELECT statement.
#
do_select_tests e_select-5.1 {
  1  "SELECT ALL a FROM h1"  {1 1 4 4 4}
  2  "SELECT DISTINCT a FROM h1" {1 4}
}

# EVIDENCE-OF: R-08861-34280 If the simple SELECT is a SELECT ALL, then
# the entire set of result rows are returned by the SELECT.
#
# EVIDENCE-OF: R-47911-02086 If neither ALL or DISTINCT are present,
# then the behavior is as if ALL were specified.
#
# EVIDENCE-OF: R-14442-41305 If the simple SELECT is a SELECT DISTINCT,
# then duplicate rows are removed from the set of result rows before it
# is returned.
#
# The three testable statements above are tested by e_select-5.2.*,
# 5.3.* and 5.4.* respectively.
#
do_select_tests e_select-5 {
  3.1 "SELECT ALL x FROM h2" {One Two Three Four one two three four}
  3.2 "SELECT ALL x FROM h1, h2 ON (x=b)" {One one Four four}

  3.1 "SELECT x FROM h2" {One Two Three Four one two three four}
  3.2 "SELECT x FROM h1, h2 ON (x=b)" {One one Four four}

  4.1 "SELECT DISTINCT x FROM h2" {One Two Three Four}
  4.2 "SELECT DISTINCT x FROM h1, h2 ON (x=b)" {One Four}
}

# EVIDENCE-OF: R-02054-15343 For the purposes of detecting duplicate
# rows, two NULL values are considered to be equal.
#
do_select_tests e_select-5.5 {
  1  "SELECT DISTINCT d FROM h3" {{} 2 2,3 2,4 3}
}

# EVIDENCE-OF: R-58359-52112 The normal rules for selecting a collation
# sequence to compare text values with apply.
#
do_select_tests e_select-5.6 {
  1  "SELECT DISTINCT b FROM h1" {one I i four IV iv}
  2  "SELECT DISTINCT b COLLATE nocase FROM h1" {one I i four IV}
  3  "SELECT DISTINCT x FROM h2" {One Two Three Four}
  4  "SELECT DISTINCT x COLLATE binary FROM h2" {One Two Three four
      One Two Three Four one two three four
}
# The following tests - e_select-7.* - test that statements made to do
# with compound SELECT statements are correct.
#
#
# EVIDENCE-OF: R-39368-64333 In a compound SELECT, all the constituent
# SELECTs must return the same number of result columns.
#
# All the other tests in this section use compound SELECTs created
# using component SELECTs that do return the same number of columns.
# So the tests here just show that it is an error to attempt otherwise.
#
drop_all_tables
do_execsql_test e_select-7.1.0 {
    CREATE TABLE j1(a, b, c);
    CREATE TABLE j2(e, f);
    CREATE TABLE j3(g);
} {}
do_select_tests e_select-7.1 -error {
SELECTs to the left and right of %s do not have the same number of result columns
} {
1  "SELECT a, b FROM j1  UNION ALL SELECT g FROM j3"  {{UNION ALL}}
2  "SELECT *  FROM j1  UNION ALL SELECT * FROM j3"  {{UNION ALL}}
3  "SELECT a, b FROM j1  UNION ALL SELECT g FROM j3"  {{UNION ALL}}
4  "SELECT a, b FROM j1  UNION ALL SELECT * FROM j3,j2" {{UNION ALL}}
5  "SELECT *  FROM j3,j2 UNION ALL SELECT a, b FROM j1" {{UNION ALL}}
6  "SELECT a, b FROM j1  UNION SELECT g FROM j3"        {UNION}
7  "SELECT *  FROM j1  UNION SELECT * FROM j3"        {UNION}
8  "SELECT a, b FROM j1  UNION SELECT g FROM j3"        {UNION}
9  "SELECT a, b FROM j1  UNION SELECT * FROM j3,j2"     {UNION}
10  "SELECT *  FROM j3,j2 INTERSECT SELECT a, b FROM j1" {INTERSECT}
11  "SELECT a, b FROM j1  INTERSECT SELECT g FROM j3"    {INTERSECT}
12  "SELECT *  FROM j1  INTERSECT SELECT * FROM j3"    {INTERSECT}
13  "SELECT a, b FROM j1  INTERSECT SELECT g FROM j3"    {INTERSECT}
14  "SELECT a, b FROM j1  INTERSECT SELECT * FROM j3,j2" [INTERSECT]
15  "SELECT *  FROM j3,j2 INTERSECT SELECT a, b FROM j1" [INTERSECT]
16  "SELECT a, b FROM j1  EXCEPT SELECT g FROM j3"       {EXCEPT}
17  "SELECT *  FROM j1  EXCEPT SELECT * FROM j3"       {EXCEPT}
18  "SELECT a, b FROM j1  EXCEPT SELECT g FROM j3"       {EXCEPT}
19  "SELECT a, b FROM j1  EXCEPT SELECT * FROM j3,j2"    {EXCEPT}
20  "SELECT *  FROM j3,j2 EXCEPT SELECT a, b FROM j1"    {EXCEPT}
}
As the components of a compound SELECT must be simple SELECT statements, they may not contain ORDER BY or LIMIT clauses.

foreach {tn select op1 op2} {
    "SELECT * FROM j1 ORDER BY a UNION ALL SELECT * FROM j2,j3"
    {ORDER BY} {UNION ALL}
    "SELECT count(*) FROM j1 ORDER BY 1 UNION ALL SELECT max(e) FROM j2"
    {ORDER BY} {UNION ALL}
    "SELECT count(*)., FROM j1 ORDER BY 1,2,3 UNION ALL SELECT *, FROM j2"
    {ORDER BY} {UNION ALL}
    "SELECT * FROM j1 LIMIT 10 UNION ALL SELECT * FROM j2,j3"
    LIMIT {UNION ALL}
    "SELECT * FROM j1 LIMIT 10 OFFSET 5 UNION ALL SELECT * FROM j2,j3"
    LIMIT {UNION ALL}
    "SELECT a FROM j1 LIMIT (SELECT e FROM j2) UNION ALL SELECT g FROM j2,j3"
    LIMIT {UNION ALL}
    "SELECT * FROM j1 ORDER BY a UNION SELECT * FROM j2,j3"
    {ORDER BY} {UNION}
    "SELECT count(*) FROM j1 ORDER BY 1 UNION SELECT max(e) FROM j2"
    {ORDER BY} {UNION}
    "SELECT count(*)., FROM j1 ORDER BY 1,2,3 UNION SELECT *, FROM j2"
    {ORDER BY} {UNION}
    "SELECT * FROM j1 LIMIT 10 UNION SELECT * FROM j2,j3"
    LIMIT {UNION}
    "SELECT * FROM j1 LIMIT 10 OFFSET 5 UNION SELECT * FROM j2,j3"
    LIMIT {UNION}
    "SELECT a FROM j1 LIMIT (SELECT e FROM j2) UNION SELECT g FROM j2,j3"
    LIMIT {UNION}
    "SELECT * FROM j1 ORDER BY a EXCEPT SELECT * FROM j2,j3"
    {ORDER BY} {EXCEPT}
    "SELECT count(*) FROM j1 ORDER BY 1 EXCEPT SELECT max(e) FROM j2"
    {ORDER BY} {EXCEPT}
    "SELECT count(*)., FROM j1 ORDER BY 1,2,3 EXCEPT SELECT *, FROM j2"
    {ORDER BY} {EXCEPT}
    "SELECT * FROM j1 LIMIT 10 EXCEPT SELECT * FROM j2,j3"
    LIMIT {EXCEPT}
    "SELECT * FROM j1 LIMIT 10 OFFSET 5 EXCEPT SELECT * FROM j2,j3"
    LIMIT {EXCEPT}
    "SELECT a FROM j1 LIMIT (SELECT e FROM j2) EXCEPT SELECT g FROM j2,j3"
    LIMIT {EXCEPT}
    "SELECT * FROM j1 ORDER BY a INTERSECT SELECT * FROM j2,j3"
    {ORDER BY} {INTERSECT}
    "SELECT count(*) FROM j1 ORDER BY 1 INTERSECT SELECT max(e) FROM j2"
    {ORDER BY} {INTERSECT}
    "SELECT count(*)., FROM j1 ORDER BY 1 INTERSECT SELECT *, FROM j2"
    {ORDER BY} {INTERSECT}
}
"SELECT count(*), * FROM j1 ORDER BY 1,2,3 INTERSECT SELECT *,* FROM j2"
ORDER BY {INTERSECT}
"SELECT * FROM j1 LIMIT 10 INTERSECT SELECT * FROM j2,j3"
LIMIT {INTERSECT}
"SELECT * FROM j1 LIMIT 10 OFFSET 5 INTERSECT SELECT * FROM j2,j3"
LIMIT {INTERSECT}
"SELECT a FROM j1 LIMIT (SELECT e FROM j2) INTERSECT SELECT g FROM j2,j3"
LIMIT {INTERSECT}

set err "$op1 clause should come after $op2 not before"
do_catchsql_test e_select-7.2.$tn $select [list 1 $err]
}

# EVIDENCE-OF: R-22874-32655 ORDER BY and LIMIT clauses may only occur
# at the end of the entire compound SELECT.
#
foreach {tn select} {
  "SELECT * FROM j1 UNION ALL SELECT * FROM j2,j3 ORDER BY a"
  "SELECT count(*) FROM j1 UNION ALL SELECT max(e) FROM j2 ORDER BY 1"
  "SELECT count(*), * FROM j1 UNION ALL SELECT *,* FROM j2 ORDER BY 1,2,3"
  "SELECT * FROM j1 UNION ALL SELECT * FROM j2,j3 LIMIT 10"
  "SELECT * FROM j1 UNION ALL SELECT * FROM j2,j3 LIMIT 10 OFFSET 5"
  "SELECT a FROM j1 UNION ALL SELECT g FROM j2,j3 LIMIT (SELECT 10)"

  "SELECT * FROM j1 UNION SELECT * FROM j2,j3 ORDER BY a"
  "SELECT count(*) FROM j1 UNION SELECT max(e) FROM j2 ORDER BY 1"
  "SELECT count(*), * FROM j1 UNION SELECT *,* FROM j2 ORDER BY 1,2,3"
  "SELECT * FROM j1 UNION SELECT * FROM j2,j3 LIMIT 10"
  "SELECT * FROM j1 UNION SELECT * FROM j2,j3 LIMIT 10 OFFSET 5"
  "SELECT a FROM j1 UNION SELECT g FROM j2,j3 LIMIT (SELECT 10)"

  "SELECT * FROM j1 EXCEPT SELECT * FROM j2,j3 ORDER BY a"
  "SELECT count(*) FROM j1 EXCEPT SELECT max(e) FROM j2 ORDER BY 1"
  "SELECT count(*), * FROM j1 EXCEPT SELECT *,* FROM j2 ORDER BY 1,2,3"
  "SELECT * FROM j1 EXCEPT SELECT * FROM j2,j3 LIMIT 10"
  "SELECT * FROM j1 EXCEPT SELECT * FROM j2,j3 LIMIT 10 OFFSET 5"
  "SELECT a FROM j1 EXCEPT SELECT g FROM j2,j3 LIMIT (SELECT 10)"

  "SELECT * FROM j1 INTERSECT SELECT * FROM j2,j3 ORDER BY a"
  "SELECT count(*) FROM j1 INTERSECT SELECT max(e) FROM j2 ORDER BY 1"
  "SELECT count(*), * FROM j1 INTERSECT SELECT *,* FROM j2 ORDER BY 1,2,3"
  "SELECT * FROM j1 INTERSECT SELECT * FROM j2,j3 LIMIT 10"
  "SELECT * FROM j1 INTERSECT SELECT * FROM j2,j3 LIMIT 10 OFFSET 5"
  "SELECT a FROM j1 INTERSECT SELECT g FROM j2,j3 LIMIT (SELECT 10)"
}
do_test e_select-7.3.$tn { catch {execsql $select} msg } 0

# EVIDENCE-OF: R-08531-36543 A compound SELECT created using UNION ALL
# operator returns all the rows from the SELECT to the left of the UNION
# ALL operator, and all the rows from the SELECT to the right of it.
#
drop_all_tables
do_execsql_test e_select-7.4.0 {
  CREATE TABLE q1(a TEXT, b INTEGER, c);
  CREATE TABLE q2(d NUMBER, e BLOB);
  CREATE TABLE q3(f REAL, g);

  INSERT INTO q1 VALUES(16, -87.66, NULL);
  INSERT INTO q1 VALUES('legible', 94, -42.47);
  INSERT INTO q1 VALUES('beauty', 36, NULL);

  INSERT INTO q2 VALUES('legible', 1);
  INSERT INTO q2 VALUES('beauty', 2);
  INSERT INTO q2 VALUES(-65.91, 4);
  INSERT INTO q2 VALUES('emanating', -16.56);

  INSERT INTO q3 VALUES('beauty', 2);
  INSERT INTO q3 VALUES('beauty', 2);
} {}
do_select_tests e_select-7.4 {
  1 {SELECT a FROM q1 UNION ALL SELECT d FROM q2}
      {16 legible beauty legible beauty -65.91 emanating}

  2 {SELECT * FROM q1 WHERE a=16 UNION ALL SELECT 'x', * FROM q2 WHERE oid=1}
      {16 -87.66 {} x legible 1}

  3 {SELECT count(*) FROM q1 UNION ALL SELECT min(e) FROM q2}
      {3 -16.56}

  4 {SELECT * FROM q2 UNION ALL SELECT * FROM q3}
      {legible 1 beauty 2 -65.91 4 emanating -16.56 beauty 2 beauty 2}
}

# EVIDENCE-OF: R-20560-39162 The UNION operator works the same way as
# UNION ALL, except that duplicate rows are removed from the final
# result set.
#
do_select_tests e_select-7.5 {
  1 {SELECT a FROM q1 UNION SELECT d FROM q2}
      {-65.91 16 beauty emanating legible}

  2 {SELECT * FROM q1 WHERE a=16 UNION SELECT 'x', * FROM q2 WHERE oid=1}
      {16 -87.66 {} x legible 1}

  3 {SELECT count(*) FROM q1 UNION SELECT min(e) FROM q2}

# EVIDENCE-OF: R-45764-31737 The INTERSECT operator returns the intersection of the results of the left and right SELECTs.
#
# do_select_tests e_select-7.6 {
1   {SELECT a FROM q1 INTERSECT SELECT d FROM q2} {beauty legible}
2   {SELECT * FROM q2 INTERSECT SELECT * FROM q3} {beauty 2}
}

# EVIDENCE-OF: R-25787-28949 The EXCEPT operator returns the subset of rows returned by the left SELECT that are not also returned by the right-hand SELECT.
#
# do_select_tests e_select-7.7 {
1   {SELECT a FROM q1 EXCEPT SELECT d FROM q2} {16}
2   {SELECT * FROM q2 EXCEPT SELECT * FROM q3}
}

# EVIDENCE-OF: R-40729-56447 Duplicate rows are removed from the results of INTERSECT and EXCEPT operators before the result set is returned.
#
# do_select_tests e_select-7.8 {
0   {SELECT * FROM q3} {beauty 2 beauty 2}
1   {SELECT * FROM q3 INTERSECT SELECT * FROM q3} {beauty 2}
2   {SELECT * FROM q3 EXCEPT SELECT a,b FROM q1} {beauty 2}
}

# EVIDENCE-OF: R-46765-43362 For the purposes of determining duplicate rows for the results of compound SELECT operators, NULL values are considered equal to other NULL values and distinct from all non-NULL values.
#
# db nullvalue null
do_select_tests e_select-7.9 {
1   {SELECT NULL UNION ALL SELECT NULL} {null null}
2   {SELECT NULL UNION SELECT NULL} {null}
3   {SELECT NULL INTERSECT SELECT NULL} {null}
4   {SELECT NULL EXCEPT SELECT NULL} {}
5   {SELECT NULL UNION ALL SELECT 'ab'} {null ab}
6  {SELECT NULL UNION SELECT 'ab'} {null ab}
7  {SELECT NULL INTERSECT SELECT 'ab'} {}
8  {SELECT NULL EXCEPT SELECT 'ab'} {null}

9  {SELECT NULL UNION ALL SELECT 0} {null 0}
10 {SELECT NULL UNION SELECT 0} {null 0}
11 {SELECT NULL INTERSECT SELECT 0} {}
12 {SELECT NULL EXCEPT SELECT 0} {null}

13 {SELECT c FROM q1 UNION ALL SELECT g FROM q3} {null -42.47 null 2 2}
14 {SELECT c FROM q1 UNION SELECT g FROM q3} {null -42.47 2}
15 {SELECT c FROM q1 INTERSECT SELECT g FROM q3} {}
16 {SELECT c FROM q1 EXCEPT SELECT g FROM q3} {null -42.47}

# EVIDENCE-OF: R-51232-50224 The collation sequence used to compare two
text values is determined as if the columns of the left and right-hand
SELECT statements were the left and right-hand operands of the equals
(=) operator, except that greater precedence is not assigned to a
collation sequence specified with the postfix COLLATE operator.

#
drop_all_tables
do_execsql_test e_select-7.10.0 {
  CREATE TABLE y1(a COLLATE nocase, b COLLATE binary, c);
  INSERT INTO y1 VALUES('Abc', 'abc', 'aBC');
} {}
do_select_tests e_select-7.10 {
  1  {SELECT 'abc' UNION SELECT 'ABC'} {ABC abc}
  2  {SELECT 'abc' COLLATE nocase UNION SELECT 'ABC'} {ABC}
  3  {SELECT 'abc' UNION SELECT 'ABC' COLLATE nocase} {ABC}
  4  {SELECT 'abc' COLLATE binary UNION SELECT 'ABC' COLLATE nocase} {ABC abc}
  5  {SELECT 'abc' COLLATE nocase UNION SELECT 'ABC' COLLATE binary} {ABC}

  6  {SELECT a FROM y1 UNION SELECT b FROM y1} {abc}
  7  {SELECT b FROM y1 UNION SELECT a FROM y1} {Abc abc}
  8  {SELECT a FROM y1 UNION SELECT c FROM y1} {aBC}

  9  {SELECT a FROM y1 UNION SELECT c COLLATE binary FROM y1} {aBC}
}

# EVIDENCE-OF: R-32706-07403 No affinity transformations are applied to
any values when comparing rows as part of a compound SELECT.

#
drop_all_tables
do_execsql_test e_select-7.10.0 {
  CREATE TABLE w1(a TEXT, b NUMBER);
  CREATE TABLE w2(a, b TEXT);
INSERT INTO w1 VALUES('1', 4.1);
INSERT INTO w2 VALUES(1, 4.1);
}

do_select_tests e_select-7.11 {
 1 { SELECT a FROM w1 UNION SELECT a FROM w2 } {1 1}
 2 { SELECT a FROM w2 UNION SELECT a FROM w1 } {1 1}
 3 { SELECT b FROM w1 UNION SELECT b FROM w2 } {4.1 4.1}
 4 { SELECT b FROM w2 UNION SELECT b FROM w1 } {4.1 4.1}

 5 { SELECT a FROM w1 INTERSECT SELECT a FROM w2 } {}
 6 { SELECT a FROM w2 INTERSECT SELECT a FROM w1 } {}
 7 { SELECT b FROM w1 INTERSECT SELECT b FROM w2 } {}
 8 { SELECT b FROM w2 INTERSECT SELECT b FROM w1 } {}

 9 { SELECT a FROM w1 EXCEPT SELECT a FROM w2 } {1}
10 { SELECT a FROM w2 EXCEPT SELECT a FROM w1 } {1}
11 { SELECT b FROM w1 EXCEPT SELECT b FROM w2 } {4.1}
12 { SELECT b FROM w2 EXCEPT SELECT b FROM w1 } {4.1}
}

drop_all_tables
do_execsql_test e_select-7.12.0 {
  CREATE TABLE t1(x);
  INSERT INTO t1 VALUES(1);
  INSERT INTO t1 VALUES(2);
  INSERT INTO t1 VALUES(3);
}

foreach {tn select res} {

# EVIDENCE-OF: R-32562-20566 When three or more simple SELECTs are
# connected into a compound SELECT, they group from left to right. In
# other words, if "A", "B" and "C" are all simple SELECT statements, (A
# op B op C) is processed as ((A op B) op C).
#
# e_select-7.12.1: Precedence of UNION vs. INTERSECT
# e_select-7.12.2: Precedence of UNION vs. UNION ALL
# e_select-7.12.3: Precedence of UNION vs. EXCEPT
# e_select-7.12.4: Precedence of INTERSECT vs. UNION ALL
# e_select-7.12.5: Precedence of INTERSECT vs. EXCEPT
# e_select-7.12.6: Precedence of UNION ALL vs. EXCEPT
# e_select-7.12.7: Check that "a EXCEPT b EXCEPT c" is processed as
#               "(a EXCEPT b) EXCEPT c".
#
# The INTERSECT and EXCEPT operations are mutually commutative. So
# the e_select-7.12.5 test cases do not prove very much.
#
drop_all_tables
do_execsql_test e_select-7.12.0 {
  CREATE TABLE t1(x);
  INSERT INTO t1 VALUES(1);
  INSERT INTO t1 VALUES(2);
  INSERT INTO t1 VALUES(3);
}

foreach {tn select res} {
1a "(1,2) INTERSECT (1) UNION (3)" {1 3}
1b "(3) UNION (1,2) INTERSECT (1)" {1}

2a "(1,2) UNION (3) UNION ALL (1)" {1 2 3 1}
2b "(1) UNION ALL (3) UNION (1,2)" {1 2 3}

3a "(1,2) UNION (3) EXCEPT (1)" {2 3}
3b "(1,2) EXCEPT (3) UNION (1)" {1 2}

4a "(1,2) INTERSECT (1) UNION ALL (3)" {1 3}
4b "(3) UNION (1,2) INTERSECT (1)" {1}

5a "(1,2) INTERSECT (2) EXCEPT (2)" {}
5b "(2,3) EXCEPT (2) INTERSECT (2)" {}

6a "(2) UNION ALL (2) EXCEPT (2)" {}
6b "(2) EXCEPT (2) UNION ALL (2)" {2}

7 "(2,3) EXCEPT (2) EXCEPT (3)" {}

set select [string map {{SELECT x FROM t1 WHERE x IN ()} $select]
do_execsql_test e_select-7.12.$tn $select [list {*}$res]
}

#-------------------------------------------------------------------------
# ORDER BY clauses
#

drop_all_tables
do_execsql_test e_select-8.1.0 {
CREATE TABLE d1(x, y, z);

INSERT INTO d1 VALUES(1, 2, 3);
INSERT INTO d1 VALUES(2, 5, -1);
INSERT INTO d1 VALUES(1, 2, 8);
INSERT INTO d1 VALUES(1, 2, 7);
INSERT INTO d1 VALUES(2, 4, 93);
INSERT INTO d1 VALUES(1, 2, -20);
INSERT INTO d1 VALUES(1, 4, 93);
INSERT INTO d1 VALUES(1, 5, -1);

CREATE TABLE d2(a, b);
INSERT INTO d2 VALUES('gently', 'failings');
INSERT INTO d2 VALUES('commercials', 'bathrobe');
INSERT INTO d2 VALUES('iterate', 'sextion');
INSERT INTO d2 VALUES('babied', 'charitableness');
INSERT INTO d2 VALUES('solemnness', 'annexed');
INSERT INTO d2 VALUES('rejoicing', 'liabilities');
INSERT INTO d2 VALUES('pragmatist', 'guarded');
INSERT INTO d2 VALUES('barked', 'interrupted');
INSERT INTO d2 VALUES('reemphasizes', 'reply');
INSERT INTO d2 VALUES('lad', 'relenting');
}
}

# EVIDENCE-OF: R-44988-41064 Rows are first sorted based on the results
# of evaluating the left-most expression in the ORDER BY list, then ties
# are broken by evaluating the second left-most expression and so on.
#
# do_select_tests e_select-8.1 {
  1  "SELECT * FROM d1 ORDER BY x, y, z" {
    1 2 -20    1 2 3    1 2 7    1 2 8
    1 4  93    1 5 -1   2 4 93   2 5 -1
  }
}

# EVIDENCE-OF: R-06617-54588 Each ORDER BY expression may be optionally
# followed by one of the keywords ASC (smaller values are returned
# first) or DESC (larger values are returned first).
#
#   Test cases e_select-8.2.* test the above.
#
# EVIDENCE-OF: R-18705-33393 If neither ASC or DESC are specified, rows
# are sorted in ascending (smaller values first) order by default.
#
#   Test cases e_select-8.3.* test the above. All 8.3 test cases are
#   copies of 8.2 test cases with the explicit "ASC" removed.
#
# do_select_tests e_select-8 {
  2.1  "SELECT * FROM d1 ORDER BY x ASC, y ASC, z ASC" {
    1 2 -20    1 2 3    1 2 7    1 2 8
    1 4  93    1 5 -1   2 4 93   2 5 -1
  }
  2.2  "SELECT * FROM d1 ORDER BY x DESC, y DESC, z DESC" {
    2 5 -1     2 4 93   1 5 -1   1 4  93
    1 2 8      1 2 7    1 2 3    1 2 -20
  }
  2.3  "SELECT * FROM d1 ORDER BY x DESC, y ASC, z DESC" {
    2 4 93   2 5 -1     1 2 8      1 2 7
    1 2 3    1 2 -20    1 4  93    1 5 -1
  }
  2.4  "SELECT * FROM d1 ORDER BY x DESC, y ASC, z ASC" {
    2 4 93   2 5 -1     1 2 -20   1 2 3
    1 2 7    1 2 8      1 4  93    1 5 -1
  }
}
3.1 "SELECT * FROM d1 ORDER BY x, y, z" {
1 2 -20 1 2 3 1 2 7 1 2 8
1 4 93 1 5 -1 2 4 93 2 5 -1
}

3.3 "SELECT * FROM d1 ORDER BY x DESC, y DESC" {
2 4 93 2 5 -1 1 2 8 1 2 7
1 2 3 1 2 -20 1 4 93 1 5 -1
}

3.4 "SELECT * FROM d1 ORDER BY x DESC, y DESC" {
2 4 93 2 5 -1 1 2 -20 1 2 3
1 2 7 1 2 8 1 4 93 1 5 -1
}

# EVIDENCE-OF: R-29779-04281 If the ORDER BY expression is a constant
# integer K then the expression is considered an alias for the K-th
# column of the result set (columns are numbered from left to right
# starting with 1).

#
do_select_tests e_select-8.4 {
1 "SELECT * FROM d1 ORDER BY 1 ASC, 2 ASC, 3 ASC" {
1 2 -20 1 2 3 1 2 7 1 2 8
1 4 93 1 5 -1 2 4 93 2 5 -1
}

2 "SELECT * FROM d1 ORDER BY 1 DESC, 2 DESC, 3 DESC" {
2 5 -1 2 4 93 1 5 -1 1 4 93
1 2 8 1 2 7 1 2 3 1 2 -20
}

3 "SELECT * FROM d1 ORDER BY 1 DESC, 2 ASC, 3 DESC" {
2 4 93 2 5 -1 1 2 8 1 2 7
1 2 3 1 2 -20 1 4 93 1 5 -1
}

4 "SELECT * FROM d1 ORDER BY 1 DESC, 2 ASC, 3 ASC" {
2 4 93 2 5 -1 1 2 -20 1 2 3
1 2 7 1 2 8 1 4 93 1 5 -1
}

5 "SELECT * FROM d1 ORDER BY 1, 2, 3" {
1 2 -20 1 2 3 1 2 7 1 2 8
1 4 93 1 5 -1 2 4 93 2 5 -1
}

6 "SELECT * FROM d1 ORDER BY 1 DESC, 2, 3 DESC" {
2 4 93 2 5 -1 1 2 8 1 2 7
1 2 3 1 2 -20 1 4 93 1 5 -1
}

7 "SELECT * FROM d1 ORDER BY 1 DESC, 2, 3" {
2 4 93 2 5 -1 1 2 -20 1 2 3
1 2 7 1 2 8 1 4 93 1 5 -1
}
8 "SELECT z, x FROM d1 ORDER BY 2" {
   # 1  # 1  # 1  # 1
   # 1  # 1  # 2  # 2/
} 
9 "SELECT z, x FROM d1 ORDER BY 1" {
   # 1    # 1    # 1    # 1   
   # 1    # 1    # 2    # 2/ 
} 

# EVIDENCE-OF: R-63286-51977 If the ORDER BY expression is an identifier 
# that corresponds to the alias of one of the output columns, then the 
# expression is considered an alias for that column.
#

do_select_tests e_select-8.5 {
   1 "SELECT z+1 AS abc FROM d1 ORDER BY abc" {
      -19 0 0 4 8 9 94 94
   }
   2 "SELECT z+1 AS abc FROM d1 ORDER BY abc DESC" {
      94 94 9 8 4 0 0 -19
   }
   3 "SELECT z AS x, x AS z FROM d1 ORDER BY z" {
      # 1    # 1    # 1    # 1    # 1    # 1    # 2    # 2/
   }
   4 "SELECT z AS x, x AS z FROM d1 ORDER BY x" {
      # 1    # 1    # 1    # 1    # 1    # 2    # 2/
   }
}

# EVIDENCE-OF: R-65068-27207 Otherwise, if the ORDER BY expression is 
# any other expression, it is evaluated and the returned value used to 
# order the output rows.
#
# EVIDENCE-OF: R-03421-57988 If the SELECT statement is a simple SELECT, 
# then an ORDER BY may contain any arbitrary expressions.
#

do_select_tests e_select-8.6 {
   1 "SELECT * FROM d1 ORDER BY x+y+z" {
      1 2 -20 1 5 -1 1 2 3 2 5 -1
      1 2 7 1 2 8 1 4 93 2 4 93
   }
   2 "SELECT * FROM d1 ORDER BY x*z" {
      1 2 -20 1 5 -1 1 2 3 2 5 -1
      1 2 7 1 2 8 1 4 93 2 4 93
   }
   3 "SELECT * FROM d1 ORDER BY y*z" {
      1 2 -20 1 5 -1 1 2 3 2 5 -1
      1 2 7 1 2 8 2 4 93 1 4 93
   }
}
However, if the SELECT is a compound SELECT, then ORDER BY expressions that are not aliases to output columns must be exactly the same as an expression used as an output column.

```
do_select_tests e_select-8.7.1 -error {
  %s ORDER BY term does not match any column in the result set
} {
  1  "SELECT x FROM d1 UNION ALL SELECT a FROM d2 ORDER BY x*z" 1st
  2  "SELECT x,z FROM d1 UNION ALL SELECT a,b FROM d2 ORDER BY x, x/z" 2nd
}
```

```
do_select_tests e_select-8.7.2 {
  1  "SELECT x*z FROM d1 UNION ALL SELECT a FROM d2 ORDER BY x*z" {
    -20 -2 -1 3 7 8 93 186 babied barked commercials gently iterate lad pragmatist reemphasizes rejoicing solemnness
  } {
    1 -1 1 0 1 0 1 0 1 0 2 -2 2 0
    babied charitableness barked interrupted commercials bathrobe gently failings iterate sexton lad relenting pragmatist guarded reemphasizes reply rejoicing liabilities solemnness annexed
  }
}
```

```
do_execsql_test e_select-8.8.0 {
  CREATE TABLE d3(a);
  INSERT INTO d3 VALUES('text');
  INSERT INTO d3 VALUES(14.1);
  INSERT INTO d3 VALUES(13);
  INSERT INTO d3 VALUES(X'78787878');
  INSERT INTO d3 VALUES(15);
  INSERT INTO d3 VALUES(12.9);
  INSERT INTO d3 VALUES(null);

  CREATE TABLE d4(x COLLATE nocase);
  INSERT INTO d4 VALUES('abc');
  INSERT INTO d4 VALUES('ghi');
  INSERT INTO d4 VALUES('DEF');
  INSERT INTO d4 VALUES('JKL');
} {}{
```

# EVIDENCE-OF: R-10883-17697 For the purposes of sorting rows, values are compared in the same way as for comparison expressions.

#
The following tests verify that values of different types are sorted correctly, and that mixed real and integer values are compared properly.

do_execsql_test e_select-8.8.1 {
    SELECT a FROM d3 ORDER BY a
} {
    12.9 13 14.1 15 text xxxx}
do_execsql_test e_select-8.8.2 {
    SELECT a FROM d3 ORDER BY a DESC
} {
    xxxx text 15 14.1 13 12.9}

EVIDENCE-OF: R-64199-22471 If the ORDER BY expression is assigned a collation sequence using the postfix COLLATE operator, then the specified collation sequence is used.

do_execsql_test e_select-8.9.1 {
    SELECT x FROM d4 ORDER BY 1 COLLATE binary
} {DEF JKL abc ghi}
do_execsql_test e_select-8.9.2 {
    SELECT x COLLATE binary FROM d4 ORDER BY 1 COLLATE nocase
} {abc DEF ghi JKL}

EVIDENCE-OF: R-09398-26102 Otherwise, if the ORDER BY expression is an alias to an expression that has been assigned a collation sequence using the postfix COLLATE operator, then the collation sequence assigned to the aliased expression is used.

# In the test 8.10.2, the only result-column expression has no alias. So the ORDER BY expression is not a reference to it and therefore does not inherit the collation sequence. In test 8.10.3, “x” is the alias (as well as the column name), so the ORDER BY expression is interpreted as an alias and the collation sequence attached to the result column is used for sorting.

do_execsql_test e_select-8.10.1 {
    SELECT x COLLATE binary FROM d4 ORDER BY 1
} {DEF JKL abc ghi}
do_execsql_test e_select-8.10.2 {
    SELECT x COLLATE binary FROM d4 ORDER BY x
} {abc DEF ghi JKL}
do_execsql_test e_select-8.10.3 {
    SELECT x COLLATE binary AS x FROM d4 ORDER BY x
} {DEF JKL abc ghi}

EVIDENCE-OF: R-27301-09658 Otherwise, if the ORDER BY expression is a column or an alias of an expression that is a column, then the default collation sequence for the column is used.

do_execsql_test e_select-8.11.1 {


SELECT x AS y FROM d4 ORDER BY y
} {abc DEF ghi JKL}
do_execsql_test e_select-8.11.2 {
SELECT x||'' FROM d4 ORDER BY x
} {abc DEF ghi JKL}

# EVIDENCE-OF: R-49925-55905 Otherwise, the BINARY collation sequence is
# used.
#
do_execsql_test e_select-8.12.1 {
SELECT x FROM d4 ORDER BY x||''
} {DEF JKL abc ghi}

# EVIDENCE-OF: R-44130-32593 If an ORDER BY expression is not an integer
# alias, then SQLite searches the left-most SELECT in the compound for a
# result column that matches either the second or third rules above. If
# a match is found, the search stops and the expression is handled as an
# alias for the result column that it has been matched against.
# Otherwise, the next SELECT to the right is tried, and so on.
#
do_execsql_test e_select-8.13.0 {
CREATE TABLE d5(a, b);
CREATE TABLE d6(c, d);
CREATE TABLE d7(e, f);

INSERT INTO d5 VALUES(1, 'f');
INSERT INTO d6 VALUES(2, 'e');
INSERT INTO d7 VALUES(3, 'd');
INSERT INTO d5 VALUES(4, 'c');
INSERT INTO d6 VALUES(5, 'b');
INSERT INTO d7 VALUES(6, 'a');

CREATE TABLE d8(x COLLATE nocase);
CREATE TABLE d9(y COLLATE nocase);

INSERT INTO d8 VALUES('a');
INSERT INTO d9 VALUES('B');
INSERT INTO d8 VALUES('c');
INSERT INTO d9 VALUES('D');
} {}
do_select_tests e_select-8.13 {
1 { SELECT a FROM d5 UNION ALL SELECT c FROM d6 UNION ALL SELECT e FROM d7
ORDER BY a }
} {1 2 3 4 5 6}
2 { SELECT a FROM d5 UNION ALL SELECT c FROM d6 UNION ALL SELECT e FROM d7
ORDER BY c }
} {1 2 3 4 5 6}
3 { SELECT a FROM d5 UNION ALL SELECT c FROM d6 UNION ALL SELECT e FROM d7
ORDER BY a }
} {1 2 3 4 5 6}

3 { SELECT a FROM d5 UNION ALL SELECT c FROM d6 UNION ALL SELECT e FROM d7
ORDER BY a }
} {1 2 3 4 5 6}
ORDER BY e
} {1 2 3 4 5 6}
4 { SELECT a FROM d5 UNION ALL SELECT c FROM d6 UNION ALL SELECT e FROM d7
   ORDER BY 1
} {1 2 3 4 5 6}

5 { SELECT a, b FROM d5 UNION ALL SELECT b, a FROM d5 ORDER BY b }
   {f 1 c 4 4 c 1 f}
6 { SELECT a, b FROM d5 UNION ALL SELECT b, a FROM d5 ORDER BY 2 }
   {f 1 c 4 4 c 1 f}

7 { SELECT a, b FROM d5 UNION ALL SELECT b, a FROM d5 ORDER BY a }
   {1 f 4 c 4 c 1 f}
8 { SELECT a, b FROM d5 UNION ALL SELECT b, a FROM d5 ORDER BY 1 }
   {1 f 4 c 4 c 1 f}

9 { SELECT a, b FROM d5 UNION ALL SELECT b, a+1 FROM d5 ORDER BY a+1 }
   {1 f 4 c 4 c 1 f}
10 { SELECT a, b FROM d5 UNION ALL SELECT b, a+1 FROM d5 ORDER BY 2 }
   {f 2 c 5 4 c 1 f}

11 { SELECT a+1, b FROM d5 UNION ALL SELECT b, a+1 FROM d5 ORDER BY a+1 }
    {2 f 5 c 5 c 5 f 2}
12 { SELECT a+1, b FROM d5 UNION ALL SELECT b, a+1 FROM d5 ORDER BY 1 }
    {2 f 5 c 5 c 5 f 2}
}

# EVIDENCE-OF: R-39265-04070 If no matching expression can be found in
# the result columns of any constituent SELECT, it is an error.
#
do_select_tests e_select-8.14 -error {
   %s ORDER BY term does not match any column in the result set
   }
1 { SELECT a FROM d5 UNION SELECT c FROM d6 ORDER BY a+1 }            1st
2 { SELECT a FROM d5 UNION SELECT c FROM d6 ORDER BY a, a+1 }          2nd
3 { SELECT * FROM d5 INTERSECT SELECT * FROM d6 ORDER BY 'hello' }     1st
4 { SELECT * FROM d5 INTERSECT SELECT * FROM d6 ORDER BY blah }        1st
5 { SELECT * FROM d5 INTERSECT SELECT * FROM d6 ORDER BY c,d,c+d }      3rd
6 { SELECT * FROM d5 EXCEPT SELECT * FROM d7 ORDER BY 1,2,b,a/b }      4th
}

# EVIDENCE-OF: R-03407-11483 Each term of the ORDER BY clause is
# processed separately and may be matched against result columns from
# different SELECT statements in the compound.
#
do_select_tests e_select-8.15 {
   1 { SELECT a, b FROM d5 UNION ALL SELECT c-1, d FROM d6 ORDER BY a, d }
     {1 e 1 f 4 b 4 c}
# Tests related to statements made about the LIMIT/OFFSET clause.

# do_execsql_test e_select-9.0 {
  CREATE TABLE f1(a, b);
  INSERT INTO f1 VALUES(26, 'z');
  INSERT INTO f1 VALUES(25, 'y');
  INSERT INTO f1 VALUES(24, 'x');
  INSERT INTO f1 VALUES(23, 'w');
  INSERT INTO f1 VALUES(22, 'v');
  INSERT INTO f1 VALUES(21, 'u');
  INSERT INTO f1 VALUES(20, 't');
  INSERT INTO f1 VALUES(19, 's');
  INSERT INTO f1 VALUES(18, 'r');
  INSERT INTO f1 VALUES(17, 'q');
  INSERT INTO f1 VALUES(16, 'p');
  INSERT INTO f1 VALUES(15, 'o');
  INSERT INTO f1 VALUES(14, 'n');
  INSERT INTO f1 VALUES(13, 'm');
  INSERT INTO f1 VALUES(12, 'l');
  INSERT INTO f1 VALUES(11, 'k');
  INSERT INTO f1 VALUES(10, 'j');
  INSERT INTO f1 VALUES(9, 'i');
  INSERT INTO f1 VALUES(8, 'h');
  INSERT INTO f1 VALUES(7, 'g');
  INSERT INTO f1 VALUES(6, 'f');
  INSERT INTO f1 VALUES(5, 'e');
  INSERT INTO f1 VALUES(4, 'd');
  INSERT INTO f1 VALUES(3, 'c');
  INSERT INTO f1 VALUES(2, 'b');
  INSERT INTO f1 VALUES(1, 'a');
} {}

# EVIDENCE-OF: R-30481-56627 Any scalar expression may be used in the
# LIMIT clause, so long as it evaluates to an integer or a value that
# can be losslessly converted to an integer.

# do_select_tests e_select-9.1 {
  1  { SELECT b FROM f1 ORDER BY a LIMIT 5 } {a b c d e}
  2  { SELECT b FROM f1 ORDER BY a LIMIT 2+3 } {a b c d e}
  3  { SELECT b FROM f1 ORDER BY a LIMIT (SELECT a FROM f1 WHERE b = 'e') }
4 { SELECT b FROM f1 ORDER BY a LIMIT 5.0 } {a b c d e}
5 { SELECT b FROM f1 ORDER BY a LIMIT '5' } {a b c d e}

# EVIDENCE-OF: R-46155-47219 If the expression evaluates to a NULL value
# or any other value that cannot be losslessly converted to an integer,
# an error is returned.
#

do_select_tests e_select-9.2 -error "datatype mismatch" {
1 { SELECT b FROM f1 ORDER BY a LIMIT 'hello' } {}  
2 { SELECT b FROM f1 ORDER BY a LIMIT NULL } {}  
3 { SELECT b FROM f1 ORDER BY a LIMIT X'ABCD' } {}  
4 { SELECT b FROM f1 ORDER BY a LIMIT 5.1 } {}  
5 { SELECT b FROM f1 ORDER BY a LIMIT (SELECT group_concat(b) FROM f1) } {}  
}

# EVIDENCE-OF: R-03014-26414 If the LIMIT expression evaluates to a
# negative value, then there is no upper bound on the number of rows
# returned.
#

do_select_tests e_select-9.4 {
1 { SELECT b FROM f1 ORDER BY a LIMIT -1 } 
   {a b c d e f g h i j k l m n o p q r s t u v w x y z} 
2 { SELECT b FROM f1 ORDER BY a LIMIT length('abc')-100 } 
   {a b c d e f g h i j k l m n o p q r s t u v w x y z} 
3 { SELECT b FROM f1 ORDER BY a LIMIT (SELECT count(*) FROM f1)/2 - 14 } 
   {a b c d e f g h i j k l m n o p q r s t u v w x y z} 
}

# EVIDENCE-OF: R-33750-29536 Otherwise, the SELECT returns the first N
# rows of its result set only, where N is the value that the LIMIT
# expression evaluates to.
#

do_select_tests e_select-9.5 {
1 { SELECT b FROM f1 ORDER BY a LIMIT 0 } {}  
2 { SELECT b FROM f1 ORDER BY a DESC LIMIT 4 } {z y x w} 
3 { SELECT b FROM f1 ORDER BY a DESC LIMIT 8 } {z y x w v u t s} 
4 { SELECT b FROM f1 ORDER BY a DESC LIMIT '12.0' } {z y x w v u t s r q p o} 
}

# EVIDENCE-OF: R-54935-19057 Or, if the SELECT statement would return
# less than N rows without a LIMIT clause, then the entire result set is
# returned.
#

do_select_tests e_select-9.6 {
1 { SELECT b FROM f1 WHERE a>21 ORDER BY a LIMIT 10 } {v w x y z}
2 { SELECT count(*) FROM f1 GROUP BY a/5 ORDER BY 1 LIMIT 10 } {2 4 5 5 5}
}

# EVIDENCE-OF: R-24188-24349 The expression attached to the optional
# OFFSET clause that may follow a LIMIT clause must also evaluate to an
# integer, or a value that can be losslessly converted to an integer.
#
foreach {tn select} {
1 { SELECT b FROM f1 ORDER BY a LIMIT 2 OFFSET 'hello' }
2 { SELECT b FROM f1 ORDER BY a LIMIT 2 OFFSET NULL }
3 { SELECT b FROM f1 ORDER BY a LIMIT 2 OFFSET X'ABCD' }
4 { SELECT b FROM f1 ORDER BY a LIMIT 2 OFFSET 5.1 }
5 { SELECT b FROM f1 ORDER BY a
  LIMIT 2 OFFSET (SELECT group_concat(b) FROM f1) }
}
}
do_catchsql_test e_select-9.7.$tn $select {1 {datatype mismatch}}
}

# EVIDENCE-OF: R-20467-43422 If an expression has an OFFSET clause, then
# the first M rows are omitted from the result set returned by the
# SELECT statement and the next N rows are returned, where M and N are
# the values that the OFFSET and LIMIT clauses evaluate to,
# respectively.
#
do_select_tests e_select-9.8 {
1 { SELECT b FROM f1 ORDER BY a LIMIT 10 OFFSET 5} {f g h i j k l m n o}
2 { SELECT b FROM f1 ORDER BY a LIMIT 2+3 OFFSET 10} {k l m n o}
3 { SELECT b FROM f1 ORDER BY a
  LIMIT (SELECT a FROM f1 WHERE b='j')
  OFFSET (SELECT a FROM f1 WHERE b='b')
 } {c d e f g h i j k l}
4 { SELECT b FROM f1 ORDER BY a LIMIT '5' OFFSET 3.0 } {d e f g h}
5 { SELECT b FROM f1 ORDER BY a LIMIT '5' OFFSET 0 } {a b c d e}
6 { SELECT b FROM f1 ORDER BY a LIMIT 0 OFFSET 10 } {}
7 { SELECT b FROM f1 ORDER BY a LIMIT 3 OFFSET '1'||'5' } {p q r}
}

# EVIDENCE-OF: R-34648-44875 Or, if the SELECT would return less than
# M+N rows if it did not have a LIMIT clause, then the first M rows are
# skipped and the remaining rows (if any) are returned.
#
do_select_tests e_select-9.9 {
1 { SELECT b FROM f1 ORDER BY a LIMIT 10 OFFSET 20} {u v w x y z}
2 { SELECT a FROM f1 ORDER BY a DESC LIMIT 100 OFFSET 18+4} {4 3 2 1}
}
# EVIDENCE-OF: R-23293-62447 If the OFFSET clause evaluates to a negative value, the results are the same as if it had evaluated to zero.

```sql
do_select_tests e_select-9.10 {
  1 { SELECT b FROM f1 ORDER BY a LIMIT 5 OFFSET -1 } {a b c d e}
  2 { SELECT b FROM f1 ORDER BY a LIMIT 5 OFFSET -500 } {a b c d e}
  3 { SELECT b FROM f1 ORDER BY a LIMIT 5 OFFSET 0 } {a b c d e}
}
```

# EVIDENCE-OF: R-19509-40356 Instead of a separate OFFSET clause, the LIMIT clause may specify two scalar expressions separated by a comma.

# EVIDENCE-OF: R-33788-46243 In this case, the first expression is used as the OFFSET expression and the second as the LIMIT expression.

```sql
do_select_tests e_select-9.11 {
  1 { SELECT b FROM f1 ORDER BY a LIMIT 5, 10 } {f g h i j k l m n o}
  2 { SELECT b FROM f1 ORDER BY a LIMIT 10, 2+3 } {k l m n o}
  3 { SELECT b FROM f1 ORDER BY a LIMIT (SELECT a FROM f1 WHERE b='b'), (SELECT a FROM f1 WHERE b='j') } {c d e f g h i j k l}
  4 { SELECT b FROM f1 ORDER BY a LIMIT 3.0, '5' } {d e f g h}
  5 { SELECT b FROM f1 ORDER BY a LIMIT 0, '5' } {a b c d e}
  6 { SELECT b FROM f1 ORDER BY a LIMIT 10, 0 } {}
  7 { SELECT b FROM f1 ORDER BY a LIMIT '1'||'5', 3 } {p q r}
  8 { SELECT b FROM f1 ORDER BY a LIMIT 20, 10 } {u v w x y z}
  9 { SELECT a FROM f1 ORDER BY a DESC LIMIT 18+4, 100 } {4 3 2 1}
  10 { SELECT b FROM f1 ORDER BY a LIMIT -1, 5 } {a b c d e}
  11 { SELECT b FROM f1 ORDER BY a LIMIT -500, 5 } {a b c d e}
  12 { SELECT b FROM f1 ORDER BY a LIMIT 0, 5 } {a b c d e}
}
```

finish_test

Found in path(s):
No license file was found, but licenses were detected in source scan.

# 2006 September 14

# The author disclaims copyright to this source code. In place of a legal notice, here is a blessing:
#
May you do good and not evil.
May you find forgiveness for yourself and forgive others.
May you share freely, never taking more than you give.

*************************************************************************
This file implements regression tests for SQLite library. The
focus of this script is testing the FTS2 module.

$Id: fts2c.test,v 1.1 2006/10/19 23:36:26 shess Exp $

set testdir [file dirname $argv0]
source $testdir/tester.tcl

# If SQLITE_ENABLE_FTS2 is defined, omit this file.
if capable !fts2 {
    finish_test
    return
}

# Create a table of sample email data. The data comes from email
# archives of Enron executives that was published as part of the
# litigation against that company.

do_test fts2c-1.1 {
    db eval {
        CREATE VIRTUAL TABLE email USING fts2([from],[to],subject,body);
        BEGIN TRANSACTION;
        INSERT INTO email([from],[to],subject,body) VALUES('savita.puthigai@enron.com', 'traders.eol@enron.com, traders.eol@enron.com', 'EnronOnline- Change to Autohedge', 'Effective Monday, October 22, 2001 the following changes will be made to the Autohedge functionality on EnronOnline.

The volume on the hedge will now respect the minimum volume and volume increment settings on the parent product. See rules below:

?If the transaction volume on the child is less than half of the parent’s minimum volume no hedge will occur.
?If the transaction volume on the child is more than half the parent’s minimum volume but less than half the volume increment on the parent, the hedge will volume will be the parent’s minimum volume.
?For all other volumes, the same rounding rules will apply based on the volume increment on the parent product.

Please see example below:

Parent’s Settings:
Minimum: 5000
Increment: 1000

Volume on Autohedge transaction
Volume Hedged
1   - 24990


2500 - 54995000
5500 - 64996000);
INSERT INTO email([from],[to],subject,subject) VALUES('dana.davis@enron.com', 'laynie.east@enron.com, lisa.king@enron.com, lisa.best@enron.com', 'Leaving Early', 'FYI:
If it’s ok with everyone’s needs, I would like to leave @4pm. If you think
you will need my assistance past the 4 o’clock hour just let me know; I’ll
be more than willing to stay.);
INSERT INTO email([from],[to],subject,subject) VALUES('enron_update@concureworkspace.com', '
louise.kitchen@enron.com', '<Concur Expense Document>> - CC02.06.02', 'The following expense report is ready
for approval:

Employee Name: Christopher F. Calger
Status last changed by: Mollie E. Gustafson Ms
Expense Report Name: CC02.06.02
Report Total: $3,972.93
Amount Due Employee: $3,972.93

To approve this expense report, click on the following link for Concur Expense.
http://expensexms.enron.com);
INSERT INTO email([from],[to],subject,subject) VALUES('jeff.duff@enron.com', 'julie.johnson@enron.com', 'Work
request', 'Julie,
Could you print off the current work request report by 1:30 today?

Gentlemen,

I’d like to review this today at 1:30 in our office. Also, could you provide
me with your activity reports so I can have Julie enter this information.

JD);
INSERT INTO email([from],[to],subject,subject) VALUES('v.weldon@enron.com', 'gary.l.carrier@usa.dupont.com, scott.joyce@bankofamerica.com', 'Enron News', 'This could turn into something big....
http://biz.yahoo.com/rf/010129/n29305829.html);
INSERT INTO email([from],[to],subject,subject) VALUES('mark.haedicke@enron.com', 'paul.simons@enron.com', 'Re: First Polish Deal!', 'Congrats! Things seem to be building rapidly now on the Continent. Mark);
INSERT INTO email([from],[to],subject,subject) VALUES('e..carter@enron.com', 't..robinson@enron.com', 'FW: Producers Newsletter 9-24-2001', '
The producer lumber pricing sheet.
-----Original Message-----
From: Johnson, Jay
Sent:Tuesday, October 16, 2001 3:42 PM
To:Carter, Karen E.
Subject:FW: Producers Newsletter 9-24-2001

-----Original Message-----
From: Daigre, Sergai
Sent: Friday, September 21, 2001 8:33 PM
Subject: Producers Newsletter 9-24-2001

I spoke to Max and he agrees with this approach.

I hope this meets with your approval.

Regards
Delainey

-----Original Message-----
From: Bisbee, Joanne
Sent: Wednesday, September 26, 2001 7:50 AM
To: Fenceroy, LaChandra
Subject: FW: Bus Applications Meeting Follow Up

Lachandra, Please get with David Duff today and see what this is about. Who are our TW accounting business users?

-----Original Message-----
From: Koh, Wendy
Sent: Tuesday, September 25, 2001 2:41 PM
To: Bisbee, Joanne
Subject: Bus Applications Meeting Follow Up

Lisa brought up a TW change effective Nov 1. It involves eliminating a turnback surcharge. I have no other information, but you might check with the business folks for any system changes required.
Wendy);

--- Original Message ---
From: Fagan, Fran
Sent: Thursday, December 20, 2001 11:10 AM
To: McCarty, Danny
Subject: worksheets

As discussed, attached are your sheets for bonus and merit.

Thanks,

Fran Fagan
Sr. HR Rep
713.853.5219

<< File: McCartyMerit.xls >>  << File: mccartyBonusCommercial_UnP.xls >>

');

--- Original Message ---
From: Meyers, Bert
Sent: Thursday, December 20, 2001 11:10 AM
To: Shift.Dl-Portland
Subject: OCTOBER SCHEDULE

TEAM,

PLEASE SEND ME ANY REQUESTS THAT YOU HAVE FOR OCTOBER. SO FAR I HAVE THEM FOR
LEAF. I WOULD LIKE TO HAVE IT DONE BY THE 15TH OF THE MONTH. ANY QUESTIONS PLEASE
GIVE ME A CALL.

BERT;

--- Original Message ---
From: McLoughlin, Errol
Sent: Thursday, December 20, 2001 11:10 AM
Subject: TRV Notification: (NG - PROPT P/L - 09/27/2001)


--- Original Message ---
From: Mims, Patrice
Sent: Thursday, December 20, 2001 11:10 AM
To: Calvin.Eakins
Subject: Re: Small business supply assistance

Hi Calvin
I spoke with Rickey (boy, is he long-winded!!). Gave him the name of our
credit guy, Russell Diamond.

Thank for your help!!;

--- Original Message ---
From: .Hall, Legal
Sent: Thursday, December 20, 2001 11:10 AM
To: Stephanie.Panus
Subject: Termination update

City of Vernon and Salt River Project terminated their contracts. I will fax these notices to
Here is the information on staffing and outside services. Call if you need anything else.

Jim

');

INSERT INTO email([from],[to],subject,body) VALUES('gelliott@industrialinfo.com', 'pcopello@industrialinfo.com', 'ECAAR (Gavin), WS CC (Diablo Canyon), & NPCC (Seabrook)', 'Dear Power Outage Database Customer,
Attached you will find an excel document. The outages contained within are forced or rescheduled outages. Your daily delivery will still contain these outages.
In addition to the two excel documents, there is a dbf file that is formatted like your daily deliveries you receive nightly. This will enable you to load the data into your regular database. Any questions please let me know. Thanks.
Greg Elliott
IIR, Inc.
713-783-5147 x 3481
outages@industrialinfo.com

THE INFORMATION CONTAINED IN THIS E-MAIL IS LEGALLY PRIVILEGED AND CONFIDENTIAL INFORMATION INTENDED ONLY FOR THE USE OF THE INDIVIDUAL OR ENTITY NAMED ABOVE. YOU ARE HEREBY NOTIFIED THAT ANY DISSEMINATION, DISTRIBUTION, OR COPY OF THIS E-MAIL TO UNAUTHORIZED ENTITIES IS STRICTLY PROHIBITED. IF YOU HAVE RECEIVED THIS E-MAIL IN ERROR, PLEASE DELETE IT.

- OUTAGE.dbf
- 111201R.xls
- 111201.xls ');

INSERT INTO email([from],[to],subject,body) VALUES('enron.announcements@enron.com', 'all_ena_egm_eim@enron.com', 'EWS Brown Bag', 'MARK YOUR LUNCH CALENDARS NOW !
You are invited to attend the EWS Brown Bag Lunch Series

Featuring: RAY BOWEN, COO

Topic: Enron Industrial Markets

Thursday, March 15, 2001
11:30 am - 12:30 pm
EB 5 C2

You bring your lunch, Limited Seating
We provide drinks and dessert. RSVP x 3-9610');

INSERT INTO email([from],[to],subject,body) VALUES('chris.germany@enron.com', 'ingrid.immer@williams.com', 'Re: About St Pauls', 'Sounds good to me. I bet this is next to the Warick?? Hotel.
Chris,

I like the looks of this place. What do you think about going here Christmas eve?? They have an 11:00 a.m. service and a candlelight service at 5:00 p.m., among others.

Let me know.??

- About St Pauls.url

Here is a goody for you:

Here is a goody for you:

As discussed in the Winter Operations Meeting on Sept.29,2000, E-Gas(Emergency Gas) will not be offered this winter as a service from AGLC. Marketers and Poolers can receive gas via Peaking and IBSS nominations(daisy chain) from other marketers up to the 6 p.m. Same Day 2 nomination cycle.

Here is a goody for you:


INSERT INTO email([from],[to],subject,body) VALUES('mjones7@txu.com', 'cstone1@txu.com, gggreen2@txu.com, timpowell@txu.com', 'Enron / HPL Actuals for July 10, 2000', 'Teco Tap       10.000 / Enron ;
LS HPL LSK IC  30.000 / Enron

');

INSERT INTO email([from],[to],subject,body) VALUES('susan.pereira@enron.com', 'kkw816@aol.com', 'soccer practice', 'Kathy-

Is it safe to assume that practice is cancelled for tonight??

Susan Pereira');

INSERT INTO email([from],[to],subject,body) VALUES('mark.whitt@enron.com', 'barry.tycholiz@enron.com', 'Huber Internal Memo', 'Please look at this. I didn"t know how deep to go with the desk. Do you think this works.

');

INSERT INTO email([from],[to],subject,body) VALUES('m..forney@enron.com', 'george.phillips@enron.com', '', 'George,

Give me a call and we will further discuss opportunities on the 13st floor.

Thanks,

JMForney

3-7160');

INSERT INTO email([from],[to],subject,body) VALUES('brad.mckay@enron.com', 'angusmcka@aol.com', 'Re: (no subject)', 'not yet');

INSERT INTO email([from],[to],subject,body) VALUES('adam.bayer@enron.com', 'jonathan.mckay@enron.com', 'FW: Curve Fetch File', 'Here is the curve fetch file sent to me. It has plenty of points in it. If you give me a list of which ones you need we may be able to construct a secondary worksheet to vlookup the values.

adam

35227

-----Original Message-----
From: Royed, Jeff
Sent: Tuesday, September 25, 2001 11:37 AM
To: Bayer, Adam
Subject: Curve Fetch File

Let me know if it works. It may be required to have a certain version of Oracle for it to work properly.

Jeff Royed
Enron
Energy Operations
Phone: 713-853-5295');

INSERT INTO email([from],[to],subject,body) VALUES('matt.smith@enron.com', 'yan.wang@enron.com', 'Report Formats', 'Yan,
The merged reports look great. I believe the only orientation changes are to "unmerge" the following six reports:

31 Keystone Receipts
15 Questar Pipeline
40 Rockies Production
22 West_2
23 West_3
25 CIG_WIC

The orientation of the individual reports should be correct. Thanks.

Mat

PS. Just a reminder to add the "*" by the title of calculated points.:

INSERT INTO email([from],[to],subject,body) VALUES('michelle.lokay@enron.com', 'jimboman@bigfoot.com', 'Egyptian Festival', '---------------------- Forwarded by Michelle Lokay/ET&S/Enron on 09/07/2000 10:08 AM ---------------------------
"Karkour, Randa" <Randa.Karkour@COMPAQ.com> on 09/07/2000 09:01:04 AM
To: "''Agheb (E-mail)" <Agheb@aol.com>, "Leila Mankarious (E-mail)"
<Leila_Mankarious@mhhhs.org>, "''Marymankarious (E-mail)"
<marymankarious@aol.com>, "Michelle lokay (E-mail)" <mlokay@enron.com>, "Ramy Mankarious (E-mail)" <Mankarious@aol.com>
cc: 
Subject: Egyptian Festival

<<Egyptian Festival.url>>

http://www.egyptianfestival.com/

- Egyptian Festival.url
}

INSERT INTO email([from],[to],subject,body) VALUES('errol.mclaughlin@enron.com', 'sherry.dawson@enron.com', 'Urgent!!! --- New EAST books', 'This has to be done.............................

Thanks
---------------------- Forwarded by Errol McLaughlin/Corp/Enron on 12/20/2000 08:39 AM

From: William Kelly @ ECT 12/20/2000 08:31 AM
To: Kam Keiser/HOU/ECT@ECT, Darron C Giron/HOU/ECT@ECT, David Baumbach/HOU/ECT@ECT, Errol McLaughlin/Corp/Enron@ENRON
cc: Kimat Singla/HOU/ECT@ECT, Kulvinder Fowler/NA/Enron@ENRON, Kyle R Lilly/HOU/ECT@ECT, Jeff Royed/Corp/Enron@ENRON, Alejandra Chavez/NA/Enron@ENRON, Crystal Hyde/HOU/ECT@ECT

Subject: New EAST books

We have new book names in TAGG for our intramonth portfolios and it is extremely important that any deal booked to the East is communicated quickly to someone on my team. I know it will take some time for the new names to sink in and I do not want us to miss any positions or P&L.

Thanks for your help on this.

New:
Scott Neal: East Northeast
Dick Jenkins: East Marketeast

WK
');

An inactive Child with links to Parent products will not have their calculated prices updated until the Child product is Activated.

When the Child Product is activated, the price will be recalculated and updated BEFORE it is displayed on the web.

This means that if you are inputting a basis price on a Child product, you will not see the final, calculated price until you Activate the product, at which time the customer will also see it.

If you have any questions, please contact the Help Desk on:

Americas: 713 853 4357
Europe: + 44 (0) 20 7783 7783
Asia/Australia: +61 2 9229 2300

Dave');

I saw it. Very interesting.

Vince
"John H Herbert" <jhh1@email.msn.com> on 07/28/2000 08:38:08 AM
To: "Vince J Kaminski" <Vince_J_Kaminski@enron.com>
cc:  
Subject: Light reading - see pieces beginning on page 7

Cheers and have a nice weekend,

JHHerbert

- gd000728.pdf

');
INSERT INTO email([from],[to],subject,body) VALUES('matthew.lenhart@enron.com',
'mmmarcantel@equiva.com', 'RE', 'i will try to line up a pig for you ');
INSERT INTO email([from],[to],subject,body) VALUES('jae.black@enron.com', 'claudette.harvey@enron.com,
chaun.roberts@enron.com, judy.martinez@enron.com', 'Disaster Recovery Equipment', 'As a reminder...there are
several pieces of equipment that are set up on the 30th Floor, as well as on our floor, for the Disaster Recovery
Team. PLEASE DO NOT TAKE, BORROW OR USE this equipment. Should you need to use another computer
system, other than yours, or make conference calls please work with your Assistant to help find or set up equipment
for you to use.

Thanks for your understanding in this matter.

T.Jae Black
East Power Trading
Assistant to Kevin Presto
off. 713-853-5800
fax 713-646-8272
cell 713-539-4760');
INSERT INTO email([from],[to],subject,body) VALUES('eric.bass@enron.com', 'dale.neuner@enron.com', '5 X
24', 'Dale,

Have you heard anything more on the 5 X 24s? We would like to get this
product out ASAP.
Thanks,

Eric;

We respect your privacy and are a Certified Participant of the BBBOnLine Privacy Program. To be removed from future offers, click here.

The guy you are talking about left CIN under a "cloud of suspicion" sort of speak. He was the one who got into several bad deals and PPA's in California for CIN, thus he left on a bad note. Let me know if you need more detail than that, I felt this was the type of info you were looking for. Thanks!

Ben;

You are only allowed 2 reports with receipts outstanding. Your expense reports will not be paid until you meet this requirement.';
'CAISO Emergency Motion -- to discontinue market-based rates for', 'FYI. the latest broadside against the generators.

Sue Mara
Enron Corp.
Tel: (415) 782-7802
Fax:(415) 782-7854
----- Forwarded by Susan J Mara/NA/Enron on 06/08/2001 12:24 PM -----

"Milner, Marcie" <MMilner@coral-energy.com> 06/08/2001 11:13 AM To: ""smara@enron.com"
<smara@enron.com> cc: Subject: CAISO Emergency Motion

Sue, did you see this emergency motion the CAISO filed today? Apparently they are requesting that FERC discontinue market-based rates immediately and grant refunds plus interest on the difference between cost-based rates and market revenues received back to May 2000. They are requesting the commission act within 14 days. Have you heard anything about what they are doing?

Marcie

');
INSERT INTO email([from],[to],subject,body) VALUES('fletcher.sturm@enron.com', 'eloy.escobar@enron.com', 'Re: General Brinks Position Meeting', 'Eloy, Who is General Brinks?

Fletch');
INSERT INTO email([from],[to],subject,body) VALUES('nailia.dindarova@enron.com', 'richard.shapiro@enron.com', 'Documents for Mark Frevert (on EU developments and lessons from', 'Rick, Here are the documents that Peter has prepared for Mark Frevert.

Nailia
------------------------ Forwarded by Nailia Dindarova/LON/ECT on 25/06/2001 16:36 ------------------------

Nailia Dindarova
25/06/2001 15:36
To: Michael Brown/Enron@EUEnronXGate
cc: Ross Sankey/Enron@EUEnronXGate, Eric Shaw/ENRON@EUEnronXGate, Peter Styles/LON/ECT@ECT
Subject: Documents for Mark Frevert (on EU developments and lessons from
Michael,

These are the documents that Peter promised to give to you for Mark Frevert. He has now handed them to him in person but asked me to transmit them electronically to you, as well as Eric and Ross.

Nailia

');
INSERT INTO email([from],[to],subject,body) VALUES('peggy.a.kostial@accenture.com', 'dave.samuels@enron.com', 'EOL-Accenture Deal Sheet', 'Dave -

Attached are our comments and suggested changes. Please call to review.

On the timeline for completion, we have four critical steps to complete:

- Finalize market analysis to refine business case, specifically projected revenue stream
- Complete counterparty surveying, including targeting 3 CPs for letters of intent
- Review Enron asset base for potential reuse/licensing
- Contract negotiations

Joe will come back to us with an updated timeline, but it is my expectation that we are still on the same schedule (we just begun week three) with possibly a week or so slippage.....contract negotiations will probably be the critical path.

We will send our cut at the actual timeline here shortly. Thanks,

Peggy

(See attached file: accenture-dealpoints v2.doc) - accenture-dealpoints v2.doc ');
INSERT INTO email([from],[to],subject,body) VALUES('thomas.martin@enron.com', 'thomas.martin@enron.com', 'Re: Guadalupe Power Partners LP', '---------------------- Forwarded by Thomas A Martin/HOU/ECT on 03/20/2001 03:49 PM ----------------------

Thomas A Martin
10/11/2000 03:55 PM
To: Patrick Wade/HOU/ECT@ECT
The deal is physically served at Oasis Waha or Oasis Katy and is priced at either HSC, Waha or Katytailgate GD at buyers option three days prior to NYMEX close.

cc:
Subject: Re: Guadalupe Power Partners LP


Please note that the deadline for bids is 3:00pm EST on March 20, 2001.

If you have any questions, feel free to contact any of the representatives listed at the bottom of the attachment.

Aaron Goddard

cc: "        -         *Koch, Kent" <kkoch@nisource.com>, "        -         *Millar, Debra" <dmillar@nisource.com>, "        -         *Burke, Lynn" <lburke@nisource.com>
cc: "        -         *Heckathorn, Tom" <theckathorn@nisource.com>
Subject: Columbia Distribution’s Capacity Available for Release - Sum
the kid');
INSERT INTO email([from],[to],subject,body) VALUES('cooper.richey@enron.com', 'trycooper@hotmail.com', 'FW: Contact Info', '-----Original Message-----
From: Punja, Karim
Sent: Thursday, December 13, 2001 2:35 PM
To: Richey, Cooper
Subject: Contact Info

Cooper,

It's been a real pleasure working with you (even though it was for only a small amount of time)
I hope we can stay in touch.

Home# 234-0249
email: kpunja@hotmail.com

Take Care,

Karim.

');
INSERT INTO email([from],[to],subject,body) VALUES('bjm30@earthlink.net', 'mcguinn.k@enron.com, mcguinn.ian@enron.com, mcguinn.stephen@enron.com', 'email address change', 'Hello all.
I haven't talked to many of you via email recently but I do want to give you
my new address for your email file:

bjm30@earthlink.net

I hope all is well.

Brian McGuinn');
INSERT INTO email([from],[to],subject,body) VALUES('shelley.corman@enron.com', 'steve.hotte@enron.com', 'Flat Panels', 'Can you please advise what is going on with the flat panels that we had planned to distribute to our gas
logistics team. It was in the budget and we had the okay, but now I'm hearing there is some hold-up & the units are
stored on 44.

Shelley');
INSERT INTO email([from],[to],subject,body) VALUES('sara.davidson@enron.com', 'john.schwartzenburg@enron.com, scott.dieball@enron.com, recipients@enron.com', '2001 Enron Law Conference (Distribution List 2)', '2001 Enron Law Conference
San Antonio, Texas May 2-4, 2001 Westin Riverwalk

See attached memo for more details!!
? Registration for the law conference this year will be handled through an Online RSVP Form on the Enron Law Conference Website at http://lawconference.corp.enron.com. The website is still under construction and will not be available until Thursday, March 15, 2001.

? We will send you another e-mail to confirm when the Law Conference Website is operational.

? Please complete the Online RSVP Form as soon as it is available and submit it no later than Friday, March 30th.

');
INSERT INTO email([from],[to],subject,body) VALUES('tori.kuykendall@enron.com', 'heath.b.taylor@accenture.com', 'Re:', 'hey - thats funny about john - he definitely remembers him - i''ll call pat and let him know - we are coming on saturday - i just havent had a chance to call you guys back -- looking forward to it -- i probably need the directions again though');
INSERT INTO email([from],[to],subject,body) VALUES('darron.giron@enron.com', 'bryce.baxter@enron.com', 'Re: Feedback for Audrey Cook', 'Bryce,
I''ll get it done today.

DG 3-9573

From: Bryce Baxter 06/12/2000 07:15 PM

To: Darron C Giron/HOU/ECT@ECT
cc:
Subject: Feedback for Audrey Cook

You were identified as a reviewer for Audrey Cook. If possible, could you complete her feedback by end of business Wednesday? It will really help me in the PRC process to have your input. Thanks.

');
INSERT INTO email([from],[to],subject,body) VALUES('casey.evans@enron.com', 'stephanie.sever@enron.com', 'Gas EOL ID', 'Stephanie,
In conjunction with the recent movement of several power traders, they are changing the names of their gas books as well. The names of the new gas books and traders are as follows:

PWR-NG-LT-SPP: Mike Carson
PWR-NG-LT-SERC: Jeff King

If you need to know their power desk to map their ID to their gas books, those desks are as follows:

EPMI-LT-SPP: Mike Carson
EPMI-LT-SERC: Jeff King

I will be in training this afternoon, but will be back when class is over. Let me know if you have any questions.

Thanks for your help!
Casey

');
INSERT INTO email([from],[to],subject,body) VALUES('mcominsky@aol.com', 'cpatman@bracepatt.com, james_derrick@enron.com', 'Jurisprudence Luncheon', 'Carrin & Jim --

It was an honor and a pleasure to meet both of you yesterday. I know we will have fun working together on this very special event.

Jeff left the jurisprudence luncheon lists for me before he left on vacation. I wasn’t sure whether he transmitted them to you as well. Would you please advise me if you would like them sent to you? I can email the MS Excel files or I can fax the hard copies to you. Please advise what is most convenient.

I plan to be in town through the holidays and can be reached by phone, email, or cell phone at any time. My cell phone number is 713/705-4829.

Thanks again for your interest in the ADL’s work. Martin.

Martin B. Cominsky
Director, Southwest Region
Anti-Defamation League
713/627-3490, ext. 122
713/627-2011 (fax)
MCominsky@aol.com');
Pursuant to your request, attached are the Schedule to the ISDA Master Agreement, together with Paragraph 13 to the ISDA Credit Support Annex. Please let me know if you need anything else. We look forward to hearing your comments.

Marie

Marie Heard
Senior Legal Specialist
Enron North America Corp.
Phone: (713) 853-3907
Fax: (713) 646-3490
marie.heard@enron.com

In addition, please find out what a buy-out of VEPCO would cost us. With Rogers transitioning to run our retail risk management, I would like to clean up our customer positions.

We also need to continue to explore a JEA buy-out.
Thanks.

INSERT INTO email([from],[to],subject,body) VALUES('stacy.dickson@enron.com', 'gregg.penman@enron.com', 'RE: Constellation TC 5-7-01', 'Gregg,

I am at home with a sick baby. (Lots of fun!) I will call you about this tomorrow.

Stacy');

INSERT INTO email([from],[to],subject,body) VALUES('joe.quenet@enron.com', 'dfincher@utilicorp.com', '', 'hey big guy.....check this out.....

www.gorelieberman-2000.com/');

INSERT INTO email([from],[to],subject,body) VALUES('k..allen@enron.com', 'jacqestc@aol.com', '', 'Jacques,

I sent you a fax of Kevin Kolb’s comments on the release. The payoff on the note would be $36,248 ($36090(principal) + $158 (accrued interest)).

This is assuming we wrap this up on Tuesday.

Please email to confirm that their changes are ok so I can set up a meeting on Tuesday to reach closure.

Phillip');

INSERT INTO email([from],[to],subject,body) VALUES('kourtney.nelson@enron.com', 'mike.swerzbin@enron.com', 'Adjusted L/R Balance', 'Mike,

I placed the adjusted L/R Balance on the Enronwest site. It is under the "Staff/Kourtney Nelson". There are two links:

1) "Adj L_R" is the same data/format from the weekly strategy meeting.
2) "New Gen 2001_2002" link has all of the supply side info that is used to calculate the L/R balance

-Please note the Data Flag column, a value of "3" indicates the project was cancelled, on hold, etc and is not included in the calc.

Both of these sheets are interactive Excel spreadsheets and thus you can play around with the data as you please.

Also, James Bruce is working to get his gen report on the web. That will help with your access to information on new gen.

Please let me know if you have any questions or feedback,

Kourtney

Kourtney Nelson
Fundamental Analysis
Enron North America
(503) 464-8280
kourtney.nelson@enron.com');
Paul,

I reviewed NY’s list. I agree with all of their contracts numbers and mw amounts.

Call if you have any more questions.

Rebecca

-----Original Message-----
From: Thomas, Paul D.
Sent: Monday, December 17, 2001 9:04 AM
To: Ahmed, Naveed
Subject: FW: Current Enron TCC Portfolio

Let me know if you see any differences.

Paul
X 3-0403

-----Original Message-----
From: Thomas, Paul D.
Sent: Monday, December 17, 2001 9:04 AM
To: Baughman, Edward D.
Subject: Current Enron TCC Portfolio

-----Original Message-----
From: Thomas, Paul D.
Sent: Thursday, December 13, 2001 10:01 AM
To: Baughman, Edward D.
Subject: Current Enron TCC Portfolio
Coastal Merchant Energy, L.P. merged with and into El Paso Merchant Energy, L.P., effective February 1, 2001, with the surviving entity being El Paso Merchant Energy, L.P. We currently have ISDA Master Agreements with both counterparties. Please see the attached memo regarding the existing Masters and let us know which agreement should be terminated.

Thanks,
Stephanie

---Original Message-----
From: Kenne, Dawn C.
Sent: Wednesday, February 06, 2002 11:50 AM
To: Keiser, Kam
Subject: What about this too???

<< File: Netco Trader Matrix.xls >>

Thanks

Chris
x31666

Debra Perlingiere
Enron North America Corp.
1400 Smith Street, EB 3885
Houston, Texas 77002
dperlin@enron.com
Phone 713-853-7658
Fax 713-646-3490

Description:
Date: 1/5/2001
Time: 9:00 AM - 10:00 AM (Central Standard Time)

Chairperson: Outlook Migration Team

Detailed Description:

INSERT INTO email([from],[to],subject,body) VALUES('diana.seifert@enron.com', 'mark.taylor@enron.com', 'Guest access Chile', 'Hello Mark,

Justin Boyd told me that you can help me with questions regarding Chile.
We got a request for guest access through MG.
The company is called Escondida and is a subsidiary of BHP Australia.

Please advise if I can set up a guest account or not.
F.Y.I.: MG is planning to put a "in w/h Chile" contract for Copper on-line as soon as Enron has done the due diligence for this country.
Thanks!

Best regards

Diana Seifert
EOL PCG);

INSERT INTO email([from],[to],subject,body) VALUES('enron_update@concureworkplace.com', 'mark.whitt@enron.com', '<Concur Expense Document> - 121001', 'The Approval status has changed on the following report:

Status last changed by: Barry L. Tycholiz
Expense Report Name: 121001
Report Total: $198.98
Amount Due Employee: $198.98
Amount Approved: $198.98
Amount Paid: $0.00
Approval Status: Approved
Payment Status: Pending

To review this expense report, click on the following link for Concur Expense.
http://expensexms.enron.com);

INSERT INTO email([from],[to],subject,body) VALUES('kevin.hyatt@enron.com', '.', 'Technical Support', 'Outside the U.S., please refer to the list below:

Australia:
1800 678-515
support@palm-au.com
Canada:
1905 305-6530
support@palm.com

New Zealand:
0800 446-398
support@palm-nz.com

U.K.:
0171 867 0108
eurosupport@palm.3com.com

Please refer to the Worldwide Customer Support card for a complete technical support contact list.');

-----Original Message-----
From: Quigley, Dutch
Sent: Wednesday, October 31, 2001 10:14 AM
To: Storey, Geoff
Subject:

bp corpAlbert LaMore281-366-4962

running the reports now

-----Original Message-----
From: Storey, Geoff
Sent: Wednesday, October 31, 2001 10:10 AM
To: Quigley, Dutch
Subject:

give me a contact over there too
BP

-----Original Message-----
From: Quigley, Dutch
Sent: Wednesday, October 31, 2001 9:42 AM
To: Storey, Geoff
Subject:

CoralJeff Whitnah713-767-5374
RelaintSteve McGinn713-207-4000');

INSERT INTO email([from],[to],subject,body) VALUES('geoff.storey@enron.com', 'dutch.quigley@enron.com', 'RE:', 'duke contact?

Start Date: 4/22/01; HourAhead hour: 3;  <CODESITE>', 'Start Date: 4/22/01; HourAhead hour: 3;  No ancillary schedules awarded.
Variances detected.
Variances detected in Load schedule.

LOG MESSAGES:

PARSING FILE -->>> O:\Portland\WestDesk\California Scheduling\ISO Final Schedules\2001042203.txt

---- Load Schedule ----
$$$ Variance found in table tblLoads.
  Details: (Hour: 3 / Preferred: 1.92 / Final: 1.89)
TRANS_TYPE: FINAL
LOAD_ID: PGE4
MKT_TYPE: 2
TRANS_DATE: 4/22/01
SC_ID: EPMI

');
INSERT INTO email([from],[to],subject,body) VALUES('john.postlethwaite@enron.com',
'john.zufferli@enron.com', 'Reference', 'John, hope things are going well up there for you. The big day is almost
here for you and Jessica. I was wondering if I could use your name as a job reference if need be. I am just trying to
get everything in order just in case something happens.

John');
INSERT INTO email([from],[to],subject,body) VALUES('jeffrey.shankman@enron.com',
'lschiffm@jonesday.com', 'Re:', 'I saw you called on the cell this a.m. Sorry I missed you. (I was in the
shower). I have had a shitty week--I suspect my silence (not only to you,
but others) after our phone call is a result of the week. I'm seeing Glen at
11:15....talk to you');
INSERT INTO email([from],[to],subject,body) VALUES('litebytz@enron.com', ',', 'Lite Bytz RSVP', '
This week’s Lite Bytz presentation will feature the following TOOLZ speaker:

Richard McDougall
Solaris 8
Thursday, June 7, 2001

If you have not already signed up, please RSVP via email to litebytz@enron.com by the end of the day Tuesday,

*Remember: this is now a Brown Bag Event--so bring your lunch and we will provide cookies and drinks.

Click below for more details.

http://home.enron.com:84/messaging/litebytztoolzprint.jpg');
  COMMIT;
} }
} { }

Open Source Used In Cisco VSM 7.14.2 22045
do_test fts2c-1.2 {
  execsql {
    SELECT rowid FROM email WHERE email MATCH 'mark'
  }
} {6 17 25 38 40 42 73 74}
do_test fts2c-1.3 {
  execsql {
    SELECT rowid FROM email WHERE email MATCH 'susan'
  }
} {24 40}
do_test fts2c-1.4 {
  execsql {
    SELECT rowid FROM email WHERE email MATCH 'mark susan'
  }
} {40}
do_test fts2c-1.5 {
  execsql {
    SELECT rowid FROM email WHERE email MATCH 'susan mark'
  }
} {40}
do_test fts2c-1.6 {
  execsql {
    SELECT rowid FROM email WHERE email MATCH "mark susan"
  }
} {{}
do_test fts2c-1.7 {
  execsql {
    SELECT rowid FROM email WHERE email MATCH 'mark -susan'
  }
} {6 17 25 38 42 73 74}
do_test fts2c-1.8 {
  execsql {
    SELECT rowid FROM email WHERE email MATCH '-mark susan'
  }
} {24}
do_test fts2c-1.9 {
  execsql {
    SELECT rowid FROM email WHERE email MATCH 'mark OR susan'
  }
} {6 17 24 25 38 40 42 73 74}

# Some simple tests of the automatic "offsets(email)" column. In the sample
# data set above, only one message, number 20, contains the words
"gas" and "reminder" in both body and subject.

```
do_test fts2c-2.1 {
  execsql {
    SELECT rowid, offsets(email) FROM email 
    WHERE email MATCH 'gas reminder'
  }
} {20 {2 0 42 3 2 1 54 8 3 0 42 3 1 54 8 3 0 129 3 3 0 143 3 3 0 240 3}}
do_test fts2c-2.2 {
  execsql {
    SELECT rowid, offsets(email) FROM email 
    WHERE email MATCH 'subject:gas reminder'
  }
} {20 {2 0 42 3 2 1 54 8 3 1 54 8}}
do_test fts2c-2.3 {
  execsql {
    SELECT rowid, offsets(email) FROM email 
    WHERE email MATCH 'body:gas reminder'
  }
} {20 {2 1 54 8 3 0 42 3 3 1 54 8 3 0 129 3 3 0 143 3 3 0 240 3}}
do_test fts2c-2.4 {
  execsql {
    SELECT rowid, offsets(email) FROM email 
    WHERE subject MATCH 'gas reminder'
  }
} {20 {2 0 42 3 2 1 54 8}}
do_test fts2c-2.5 {
  execsql {
    SELECT rowid, offsets(email) FROM email 
    WHERE body MATCH 'gas reminder'
  }
} {20 {3 0 42 3 3 1 54 8 3 0 129 3 3 0 143 3 3 0 240 3}}
```

Document 32 contains 5 instances of the world "child". But only 3 of them are paired with "product". Make sure only those instances that match the phrase appear in the offsets(email) list.

```
do_test fts2c-3.1 {
  execsql {
    SELECT rowid, offsets(email) FROM email 
    WHERE body MATCH 'child product' AND +rowid=32
  }
} {32 {3 0 94 5 3 0 114 5 3 0 207 5 3 1 213 7 3 0 245 5 3 1 251 7 3 0 409 5 3 1 415 7 3 1 493 7}}
do_test fts2c-3.2 {
  execsql {
    SELECT rowid, offsets(email) FROM email 
    WHERE body MATCH ""child product"
  }
}
# Snippet generator tests

do_test fts2c-4.1 {
execsql {
    SELECT snippet(email) FROM email
    WHERE email MATCH 'subject:gas reminder'
}
}

do_test fts2c-4.2 {
execsql {
    SELECT snippet(email) FROM email
    WHERE email MATCH 'christmas candlelight'
}
}

do_test fts2c-4.3 {
execsql {
    SELECT snippet(email,'<<<','>>>',' ') FROM email
    WHERE email MATCH 'deal sheet potential reuse'
}
}

do_test fts2c-4.4 {
execsql {
    SELECT snippet(email,'<<<','>>>',' ') FROM email
    WHERE email MATCH 'deal sheet potential reuse'
}
}

do_test fts2c-4.5 {
execsql {
    SELECT snippet(email,'<<<','>>>',' ') FROM email
    WHERE email MATCH 'first things'
}
}

do_test fts2c-4.6 {
execsql {
    SELECT snippet(email) FROM email
    WHERE email MATCH 'chris is here'
}
}
eve?? They have an 11:00 a.m. <b>...</b> }}
do_test fds2c-4.7 {
  execsql {
    SELECT snippet(email) FROM email
    WHERE email MATCH "pursuant to"
  }
}} {{Erin:

<b>Pursuant</b> <b>to</b> your request, attached are the Schedule to <b>...</b> }}
do_test fds2c-4.8 {
  execsql {
    SELECT snippet(email) FROM email
    WHERE email MATCH 'ancillary load davis'
  }
}} {{pete.<b>davis</b>@enron.com <b>...</b> Start Date: 4/22/01; HourAhead hour: 3; No <b>ancillary</b> schedules awarded.
Variance detected.
Variance detected in <b>Load</b> schedule.

LOG MESSAGES:

PARSING <b>...</b> }}

# Combinations of AND and OR operators:
#
do_test fds2c-5.1 {
  execsql {
    SELECT snippet(email) FROM email
    WHERE email MATCH 'questar enron OR com'
  }
}} {{matt.smith@<b>enron</b>.<b>com</b> <b>...</b> six reports:

31 Keystone Receipts
15 <b>Questar</b>/Pipeline
40 Rockies Production
22 West_2 <b>...</b> }}
do_test fds2c-5.2 {
execsql {
  SELECT snippet(email) FROM email
  WHERE email MATCH 'enron OR com questar'
}
}} {{matt.smith@<b>enron</b>.<b>com</b> <b>...</b> six reports:

31 Keystone Receipts
15 <b>Questar</b>/Pipeline
40 Rockies Production
22 West_2 <b>...</b> }}
1.382 gd 2.0.35

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1.388 unbound 1.6.6-4.el7_8
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1.389 mlocate 0.26 8.el7

1.390 bcpkix-jdk15on 1.51

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1.392 nginx 1.17.3

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1.393 visual-studio-runtime 14.20.27508.1

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1.394 libcroco 0.6.12 4.el7

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Version 2, June 1991

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1.395.1 Available under license :
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 *
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 *
 * "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 net>
 * CPAN version produced by Jerry D. Hedden <jdhedden 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 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 = 0x824e88
* 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

#ifndef 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
 * SHAREDCONTEXT/CALLERCONTEXT 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 {
        FREETMPS;
        LEAVE;
        PERL_SET_CONTEXT((aTHX = caller_perl));
    } STMT_END

/*
 * Only one thread at a time is allowed to mess with shared space.
 */
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) {
#if defined 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;
#if defined DEBUG_LOCKS
    lock->file  = file;
    lock->line  = line;
#endif
MUTEX_UNLOCK(&lock->mutex);
SAVEDESTRUCTOR_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. */
#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 */
    #endif
};

/* Support for dual-valued variables */
#ifndef SVf_IVisUV
#define DUALVAR_FLAGS(sv)                             
    ((SvPOK(sv))                                        
        ? ((SvNOK(sv) || SvNOKp(sv)) ? SVf_NOK          
        : SVf_OK)                                         
    : SVf_OK);
#endif
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 */

#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_PAVV:
    case SVt_PHVV:
        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);
        }
    break;
    }
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
#ifndef MGf_LOCAL
)
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);

  SHARED_CONTEXT;
  ssv = 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;
    SHARED_CONTEXT;
    SvREFCNT_dec(ssv);
    CALLER_CONTEXT;
  }
  LEAVE_LOCK;
 }

 /* 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)

#endif

Open Source Used In Cisco VSM 7.14.2  22138
# 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_TIME_OUT: 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;
    ABS2RELMILLI(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);
#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))) &&
    (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) {
            SHAREDCONTEXT;
            (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);
            }
            CALLERCONTEXT;
        } else {
            allowed = FALSE;
        }
    } else {
        SvTEMP_off(sv);
        SHAREDCONTEXT;
        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((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);
        }
    }
}
/* 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;
            }
        }
        SHARED_CONTEXT;
        ssvp = hv_fetch((HV*) saggregate, key, len, 1);
    }
    CALLER_CONTEXT;
    Perl_sharedsv_associate(aTHX_ sv, *svp);
    sharedsv_scalar_store(aTHX_ sv, *svp);
    SvFLAGS(*svp) |= dualvar_flags;
}
LEAVE_LOCK;
    return (0);
}

/* 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);
    }
    SHARED_RELEASE;
    return (val);
}

/* Clear magic for PERL_MAGIC_tied(P) */

int
sharedsv_array_mg_CLEAR(pTHX_ SV *sv, MAGIC *mg)
```c
{ dTHXc;
    SV *sv = (SV *) mg->mg_ptr;
    const bool isav = SvTYPE(sv) == SVt_PVAV;
    PERL_UNUSED_ARG(sv);
    SHARED_EDIT;
    if (!PL_dirty) {
        SV **svp = isav ? AvARRAY((AV *)sv) : NULL;
        I32 items = isav ? AvFILLp((AV *)sv) + 1 : 0;
        HE *iter;
        if (!isav) hv_iterinit((HV *)sv);
        while (isav ? items-- : !(iter = hv_iternext((HV *)sv))) {
            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)
#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_.sv, 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)
{
    SV *ssv;

    if (SvROK(sv))
        sv = SvRV(sv);
    ssv = Perl_sharedsv_find(aTHX_ sv);
    if (!ssv)
        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*) sobj, ii - 1, stmp);
    SvREFCNT_inc_void(stmp);
    CALLER_CONTEXT;
    SvREFCNT_dec(tmp);
}
void
POP(SV *obj)
CODE:
    dTHXc;
    SV *sobj = SHAREDsvp_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 = SHAREDsvp_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 = SHAREDsvp_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);
open source used in cisco vsm 7.14.2

```c
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);
        CALLERCONTEXT;
        ST(0) = newSVpvn_flags(key, len, SVs_TEMP | (utf8 ? SVf_UTF8 : 0));
    } else {
        CALLERCONTEXT;
        ST(0) = &PL_sv_undef;
    }
    LEAVE_LOCK;
/* XSRETURN(1); - implied */
```

module = threads::shared  package = threads::shared

prototypes: enable

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_cond;
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);
uilock.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);
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);
}
uilock.owner = aTHX;
uilock.locks = locks;
int
cond_timedwait(SV *ref_cond, double abs, SV *ref_lock = 0)

PROTOTYPE: [S@%]S:[S@%]

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 */
}

---
abstract: 'Perl extension for sharing data structures between threads'
author:
- 'Artur Bergman, Jerry D. Hedden <jdhedden AT cpan DOT org>'
built_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:

Found in path(s):
* /opt/cola/permits/1103682119_1604395124.91/0/perl-threads-shared-1.43-6.el7-1.src.rpm-cosi-expand-archive-8mRFaaPL/threads-shared-1.43.tar.gz-cosi-expand-archive-5J2IouJh/threads-shared-1.43/shared.xs
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/1103682119_1604395124.91/0/perl-threads-shared-1.43-6.el7-1.src.rpm-cosi-expand-archive-8mRFaaPL/threads-shared-1.43.tar.gz-cosi-expand-archive-5J2IouJh/threads-shared-1.43/examples/class.pl
No license file was found, but licenses were detected in source scan.
threads::shared - Perl extension for sharing data structures between threads

This document describes threads::shared version 1.43

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([ {}, [] ]); 

{ lock(%hash); ...  }

cond_wait($scalar);
cond_timedwait($scalar, time() + 30);
cond_broadcast(@array);
cond_signal(%hash);

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);
print(ref($cpy), "\n");
# Outputs 'Foo'
For cloning empty array or hash refs, the following may also be used:

Open Source Used In Cisco VSM 7.14.2 22165


$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()|Scalar::Util/"refaddr EXPR">). Otherwise, returns C<undef>.

if (is_shared($var)) {
    print("$var is shared
";
} 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:

```
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:

{ lock($counter); cond_wait($counter) until $counter == 0; }

=item cond_timedwait VARIABLE, ABS_TIMEOUT

=item cond_timedwait CONDVAR, ABS_TIMEOUT, LOCKVAR

In its two-argument form, C<cond_timedwait> takes a B<locked> variable and an absolute timeout in I<epoch> seconds (see L<time()> in perlfunc/perlfunc/time> 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 C<cond_wait>, this function may take a shared, B<locked> variable as an additional parameter; in this case the first parameter is an B<unlocked> condition variable protected by a distinct lock variable.

Again like C<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:

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!

=item cond_signal VARIABLE

The C<cond_signal> function takes a B<locked> variable as a parameter and unblocks one thread that's C<cond_wait>ing on that variable. If more than one thread is blocked in a C<cond_wait> on that variable, only one (and which one is indeterminate) will be unblocked.

If there are no threads blocked in a C<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().

C<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:

{ no warnings 'threads'; cond_signal($foo); }

=item cond_broadcast VARIABLE

The C<cond_broadcast> function works similarly to C<cond_signal>. C<cond_broadcast>, though, will unblock B<all> the threads that are blocked in a C<cond_wait> on the locked variable, rather than only one.

=back

=head1 OBJECTS

L<threads::shared> exports a version of L<bless()|perlfunc/"bless REF"> that works on shared objects such that I<blessings> propagate across threads.

# 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'

=head1 NOTES

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>.

=head1 BUGS AND LIMITATIONS

When C<share> is used on arrays, hashes, array refs or hash refs, any data they contain will be lost.

    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()|Scalar::Util/"refaddr EXPR"> 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:

```perl
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:

```perl
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:

```perl
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:

```perl
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>

=head1 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/ithreads.html>

=head1 AUTHOR

Artur Bergman E<lt>sky AT crucially DOT netE<gt>

Documentation borrowed from the old Thread.pm.

CPAN version produced by Jerry D. Hedden E<lt>jdhedden AT cpan DOT orgE<gt>.

=head1 LICENSE

threads::shared is released under the same license as Perl.

=cut

Found in path(s):
* /opt/cola/permits/1103682119_1604395124.91/0/perl-threads-shared-1.43-6.el7-1.src.rpm-cosi-expand-archive-8mRFAaPL/threads-shared-1.43.tar.gz-cosi-expand-archive-5J2JouJh/threads-shared-1.43/lib/threads/shared.pm
No license file was found, but licenses were detected in source scan.

/*

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

Open Source Used In Cisco VSM 7.14.2  22172
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.
=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 pport.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 `PL_` 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.

=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 `#define`s in your source code before the inclusion of `ppport.h`.

These functions or variables will be marked `explicit` in the list shown by `--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.

<table>
<thead>
<tr>
<th>Function / Variable</th>
<th>Static Request</th>
<th>Global Request</th>
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<tbody>
<tr>
<td>PL_parser</td>
<td>NEED_PL_parser</td>
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<tr>
<td>pv_escape()</td>
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<td>NEED_pv_escape_GLOBAL</td>
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<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>
<tr>
<td>sv_catpvf mg()</td>
<td>NEED_sv_catpvf mg</td>
<td>NEED_sv_catpvf mg_GLOBAL</td>
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<tr>
<td>sv_catpvf mg_nocount()</td>
<td>NEED_sv_catpvf mg_nocount</td>
<td>NEED_sv_catpvf mg_nocount_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_setpvf mg()</td>
<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>:

```
#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 = '[_ ]'; # 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 (@ARGV 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(  
AvFILLp5.004050|p  
AvFILL||  
CLASS||n  
CPERLscope5.005000|p  
CX_CURPAD_SAVE||  
CX_CURPAD_SV||  
CopFILEAV5.006000|p  
CopFILEGV_set5.006000|p  
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GIMME||n  
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G_DISCARD||  
G_EVAL||  
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G_NOARGS||  

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Newxz|5.009003||p
Newx|5.009003||p
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Nullch|||
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PAD_SETSV|||
PAD_SET_CUR_NOSAVE|||
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PERL_SHORT_MAX|5.004000||p
PERL_SHORT_MIN|5.004000||p
PERL_SIGNALSUnsafe_FLAG|5.008001||p
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PERL_SYS_INIT3|5.006000|
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PERL_SYS_TERM|5.011000|
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PERL_UCHAR_MIN|5.004000||p
PERL_UINT_MAX|5.004000||p
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PERL ULONG_MAX|5.004000||p
PERL ULONG_MIN|5.004000||p
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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
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PL_DBsub|||pn
PL_DBtrace|||pn
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PL_bufptr|5.011000||p
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PL_curcop|5.004050||p
PL_curstash|5.004050||p
PL_defgv|5.004050||p
PL_diehook|5.004050||p
PL_dirty|5.004050||p
PL_dowarn|||pn
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PL_hexdigit|5.005000||p
PL_hints|5.005000||p
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PL_in my|5.011000||p
PL_last_in_gv|||n
PL_laststatval|5.005000||p
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<td>SPAGAIN</td>
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SV_HAS_TRAILING_NULL|5.009004||p
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SV_SMAGIC|5.009003||p
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SVfARG|5.009005||p
SV.UTF8|5.0060000||p
SV.UTF8|5.006000||p
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<td>croak</td>
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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 "$f ".x(40-length($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]\[^*]*\*+)* / | /\[^
        | "[^"\\]*(?:\\.[^"\\]*)*" | '[^'\\]*(?:\\.[^'\\]*)*'
    }{}egsx;
    grep { exists $API{$_} } $code =~ /\w+/mg;
while (<DATA>) {
    if (Hint) {
        my $h = $hint->[0] eq 'Hint' ? %hints : %warnings;
        if (m{^rccs:(Hint|Warning):.*$}) {
            @{$hint->[1]} ||= $h->{$_} ||= '';  # suppress warning with older perls
            $h->{$_} .= "$1
";
        } else { undef $hint }
    }
    $hint = [$1, [split /,?s+/, $2]] if m{^rccs\+(Hint|Warning):.*$};
    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, $2] if m{^# define.*$};
    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 = $1 if m{^rccs:Replace:.*$};
}

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if (m{^\s*$rccs\s+\(\w+\)\s+\(\w+\)\w+\s+\(\w+\)\w+\s+\(\w+\)$}) {
  my @deps = map { s/\s+//g; $1 } split /, /;
  my %d;
  for $d (map { s/\s+//g; $1 } split /, /) {
    push @$depends{$d}, @deps;
  }
}

$need{1} = 1 if m{^#if \s+defined\(NEED_(\w+)\w+\GLOBAL\)\?\$s$};

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";
    my $info = 0;
    if ($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 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 "\n\nWARNING:\n\n\n$warnings{$f}" if exists $warnings{$f};
      $info++;
    }
    if ($info == 0) {
      print "No portability information available.\n" 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;
    }
} else {
    my @files = glob ('.xs .c .h .cc .cpp -c.inc -xs.inc ');
my @srcext = join '|', map { quotemeta $_ } @srcext;

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;
    }
} 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} = \@ecom;
$file{code} = $c;
$file{has_inc_ppport} = $c =~ /^\S*\S*include[\^\r\n]+\bQ\S*ppport\E\b/m;

my $func;

for $func (keys %API) {
    my $match = $func;
    $match .= "|\s{revreplace[$func]}" if exists $revreplace{$func};
    if ($c =~ /Ab(?:Perl_)?($match)\b/) {
        $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'}) {
                $file{uses}{$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 =~ /\S*\S*\S*define\S*NEED_(\w+?)(_GLOBAL)?\b/m) {
                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}}, $filename;
            }
        }
    }
}
while ($c =~ /\S*\S*\S*define\S*\S*\S*(NEED_\w+?)(_GLOBAL)?\b/m) {
    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 $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 (SAPI{$func}{varargs}) {
            unless (SAPI{$func}{nothxarg}) {
                my $changes = ($c =~ s{\b(Perl_$func\s*\(\s*)(?!aTHX_?)(\)|[^\s)])*\(\s*}{'aTHX' . $2 . ($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*}{'$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'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 (exists $file{needs2}{$func}) {
      $message = "No need to define NEED_${func}_GLOBAL if $func is already defined in a file";
    }
  }
  if ($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$HS+\w+.*$LF)//mg)) {
        $pp = ";
        $file{changes}++;
    }

    unless ($file{has_inc_ppport}) {
        diag("Needs to include '$ppport'");
        $pp .= q("include '$ppport'\n")
    }

    if ($pp) {
        $file{changes} += ($c =~ s/^($HS*#$HS*define$HS+\w+.*)?$1$pp/m)
                           || ($c =~ s/^(?=$HS*#$HS*include.*XSUB.*\s*?)^/$1$pp/m)
                           || ($c =~ s/^(?=$HS*#$HS*include.*\Q$ppport\E)/$pp/m)
                           || ($c =~ s/$pp/);
else {
    if ($file{has_inc_ppport}) {
        diag("No need to include '"$ppport'"");
        $file{changes} += ($c =~ s/^$HS*?#$HS*include.*$ppport.*?$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 {
    
    } 
} else {
    
} 

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\Stmp\E/$file.patched/;  # Assuming $Q is a placeholder for Standard Capture Group
                $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)\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
", $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{$1}$/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*^(.*?)\s*^=/ms;
    my %M = ( 'T' => ' ' );
    $copy =~ s/^(?=$X)/    /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

my($pl, $c) = $self =~ /(.*^__DATA__)(.*)/ms;
$c =~ s{ / (?: \*[^*]*\*+(?:[^$ccs]\[^*]*\*+)* / | \/[^
\]* ) | ( \"[^"\\]*(?:\."[^"\\]*)*" | '\[^'\\]*(?:\."[^'\\]*)*" ) | ($HS+) }{ defined $2 ? ' ' : ($1 || '') }gsex;
$c =~ s!\s+$!!mg;
$c =~ s!^$LF!!mg;
$c =~ s!^\s*#!#!mg;
$c =~ s!^\s+!!mg;
open OUT, ">$\0" or die "cannot strip \$\0: \$\!
"
print OUT "$\pl$c\n";
exit 0;
}

__DATA__
/

No license file was found, but licenses were detected in source scan.  
Name:           perl-threads-shared  
Version:        1.43  
Release:        6%{'?dist}
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/JJD/JDHEEDDEN/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(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}

%build
perl Makefile.PL INSTALLDIRS=vendor OPTIMIZE="$RPM_OPT_FLAGS"
make %{?_smp_mflags}

%install
make pure_install DESTDIR=$RPM_BUILD_ROOT
find $RPM_BUILD_ROOT -type f -name .packlist -exec rm -f {} \;
find $RPM_BUILD_ROOT -type f -name *.bs -size 0 -exec rm -f {} \;
%{_fixperms} $RPM_BUILD_ROOT/*

%check
make test
%files
%doc Changes README
%{perl_vendorarch}/auto/*
%{perl_vendorarch}/threads*
%{_mandir}/man3/*

%changelog
* Fri Jan 24 2014 Daniel Mach <dmach@redhat.com> - 1.43-6
  - Mass rebuild 2014-01-24

* Fri Dec 27 2013 Daniel Mach <dmach@redhat.com> - 1.43-5
  - Mass rebuild 2013-12-27

* Tue Jul 02 2013 Jitka Plesnikova <jplesnik@redhat.com> - 1.43-4
  - Remove BR perl(Test)

* Tue Jul 02 2013 Jitka Plesnikova <jplesnik@redhat.com> - 1.43-3
  - Specify all dependencies

* Thu Feb 14 2013 Fedora Release Engineering <rel-eng@lists.fedoraproject.org> - 1.43-2
  - Rebuilt for https://fedoraproject.org/wiki/Fedora_19_Mass_Rebuild

* Tue Jan 15 2013 Petr Pisar <ppisar@redhat.com> - 1.43-1
  - 1.43 bump

* Fri Nov 23 2012 Jitka Plesnikova <jplesnik@redhat.com> - 1.42-2
  - Add BR perl(File::Spec)
  - Replace PERL_INSTALL_ROOT with DESTDIR
  - Remove deleting empty directories
  - Remove defattr

* Wed Oct 03 2012 Petr Pisar <ppisar@redhat.com> - 1.42-1
  - 1.42 bump

* 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
1.396 spring-ldap 1.3.1

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Kibaale Children's Centre (KCC) is located in Kibaale, a small town in the south of Uganda, near Tanzania, in East Africa. The area is known as Rakai District. The population is mostly farmers. Although people are poor, there is enough food. But this district is suffering from AIDS more than any other part of the world. Some say that it started there. Estimations are that 10 to 30% of the Ugandans are infected with HIV. Because parents die, there are many orphans. In this district about 60,000 children have lost one or both parents, out of a population of 350,000. And this is still continuing.

The children need a lot of help. The KCC is working hard to provide the needy with food, medical care and education. Food and medical care to keep them healthy now, and education so that they can take care of themselves in the future. KCC works on a Christian base, but help is given to children of any religion.

The key to solving the problems in this area is education. This has been neglected in the past years with president Idi Amin and the following civil wars. Now that the government is stable again, the children and parents have to learn how to take care of themselves and how to avoid infections. There is also help for people who are ill and hungry, but the primary goal is to prevent people from getting ill and to teach them how to grow healthy food.

Most of the orphans are living in an extended family. An uncle or older sister is taking care of them. Because these families are big and the income (if any) is low, a child is lucky if it gets healthy food. Clothes, medical care and schooling is beyond its reach. To help these needy children, a sponsorship program was put into place. A child can be financially adopted. For a few dollars a month KCC sees to it that the child gets indispensable items, is healthy, goes to school and KCC takes care of anything else that needs to be done for the child and the family that supports it.

Besides helping the child directly, the environment where the child grows up needs to be improved. KCC helps schools to improve their teaching methods. There is a demonstration school at the centre and teacher trainings are given. Health workers are being trained, hygiene education is carried out and households are stimulated to build a proper latrine. I helped setting up a production site for cement slabs. These are used to build a good latrine. They are sold below cost price.

There is a small clinic at the project, which provides children and their family with medical help. When needed, transport to a hospital is offered. Immunization programs are carried out and help is provided when an epidemic is breaking out (measles and cholera have been a problem).
Summer 1994 to summer 1995 I spent a whole year at the centre, working as a volunteer. I have helped to expand the centre and worked in the area of water and sanitation. I learned that the help that the KCC provides really helps. When I came back to Holland, I wanted to continue supporting KCC. To do this I'm raising funds and organizing the sponsorship program. Please consider one of these possibilities:

1. Sponsor a child in primary school: 17 euro a month (or more).
2. Sponsor a child in secondary school: 25 euro a month (or more).
3. Sponsor the clinic: Any amount a month or quarter
4. A one-time donation

Compared with other organizations that do child sponsorship the amounts are very low. This is because the money goes directly to the centre. Less than 5% is used for administration. This is possible because this is a small organization that works with volunteers. If you would like to sponsor a child, you should have the intention to do this for at least one year.

How do you know that the money will be spent right? First of all you have my personal guarantee as the author of Vim. I trust the people that are working at the centre, I know them personally. Furthermore, the centre has been co-sponsored and inspected by World Vision, Save the Children Fund and is now under the supervision of Pacific Academy Outreach Society. The centre is visited about once a year to check the progress (at our own cost). I have visited the centre myself many times, starting in 1993. The visit reports are on the ICCF web site.

If you have any further questions, send me e-mail: <Bram@vim.org>.

The address of the centre is:
Kibaale Children's Centre
p.o. box 1658
Masaka, Uganda, East Africa

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USA: The methods mentioned below can be used.
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For sponsoring a child contact KCF in Canada (see below). US checks can be sent to them to lower banking costs.

Canada: Contact Kibaale Children's Fund (KCF) in Surrey, Canada. They
take care of the Canadian sponsors for the children in Kibaale. KCF forwards 100% of the money to the project in Uganda. You can send them a one time donation directly. Please send me a note so that I know what has been donated because of Vim. Ask KCF for information about sponsorship.

Kibaale Children's Fund c/o Pacific Academy
10238-168 Street
Surrey, B.C. V4N 1Z4
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Phone: 604-581-5353

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IBAN: NL95 INGB 0004 5487 74

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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_pton.c:

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From dso/aix/dso.c:

* Based on libdl (dlfcn.c/dlfcn.h) which is
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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.
* * Derived from UNIX V7, Copyright(C) Caldera International Inc.
* *

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1.406 httpd 2.4.6

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<html xmlns="http://www.w3.org/1999/xhtml" lang="en" xml:lang="en">
<head>

This file is generated from xml source: DO NOT EDIT
</head>
<body id="manual-page" class="no-sidebar">

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<link href="./style/css/manual-loose-100pc.css" rel="alternate stylesheet" media="all" type="text/css" title="No Sidebar - Default font size" />
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<script src="./style/scripts/prettify.js" type="text/javascript"></script>
<link href="./images/favicon.ico" rel="shortcut icon" />

<p class="apache">Apache HTTP Server Version 2.4</p>
<img alt="" src="./images/feather.gif" />
<p class="up"><a href="./">&lt;-</a></p>
<p class="path"><a href="http://www.apache.org/">Apache</a> &gt; <a href="http://httpd.apache.org/">HTTP Server</a> &gt; <a href="./">Documentation</a> &gt; <a href="./">Version 2.4</a></p>

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/*

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/************************************************************************
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   Written by Adam Twiss (adam@zeus.co.uk). March 1996

Thanks to the following people for their input:
  Mike Belshe (mbelshe@netscape.com)
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   src/preproc/grn/gprint.h
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   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
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The -mdoc macro set, using the BSD license.

tmac/doc.tmac
tmac/doc-old.tmac
tmac/doc-common
tmac/doc-ditroff
tmac/doc-nroff
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tmac/e.tmac
tmac/groff_me.man
doc/meintro.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'.

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. The file `tmac/hyphen.cs' contains the same patterns as the file
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1.419 binutils 7.6.1-114.el7

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<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

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That's all there is to it!
(This file is under construction.)-*- text -*.

If you've contributed to gas and your name isn't listed here, it is not meant as a slight. I just don't know about it. Email me, nickc@redhat.com and I'll correct the situation.
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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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^L
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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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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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to distribute software through any other system and a licensee cannot
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END OF TERMS AND CONDITIONS

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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.

<one line to give the library's name and a brief idea of what it does.>
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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

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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 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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"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.

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### 1.424 postgresql-jdbc 8.4

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 * GSS-API Programming Guide
 * Part No: 816-1331-11
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Network Working Group  H. Krawczyk
Request for Comments: 2104  IBM
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There are no known patents on any of the code in UnZip. Unisys claims a patent on LZW encoding and on LZW decoding _in an apparatus that performs LZW encoding_, but the patent appears to exempt a stand-alone decoder (as in UnZip's unshrink.c). Unisys has publicly claimed otherwise, but the issue has never been tested in court. Since this point is unclear, unshrinking is not enabled by default. It is the responsibility of the user to make his or her peace with Unisys and its licensing requirements. (unshrink.c may be removed from future releases altogether.)

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 as a separate distribution (the restricted copyright of this code is cited below in the "historical" section).

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
  * * (Apple Macintosh Developer Technical Support Emeritus)
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  * license terms:
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The following copyright applies to the Mac OS "machin3" decoding code
(extra field compatibility with ZipIt):

* MacBinaryIII.h
* Copyright 1997 Christopher Evans (cevans@poppybank.com)
* Basic encoding and decoding of Macintosh files to the
* MacBinary III spec.
* This source is copyrighted by Christopher Evans (cevans@poppybank.com)
* (available at ftp://ftp.lazerware.com/MacBinaryIII_src_C.sit
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-------------------------------------------------------------------------

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Info-ZIP license, with explicit permission from the respective
original authors. They are cited here for historical reasons,
only:

The following copyright applies to the full-featured unreduce.c
(now distributed separately):

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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.

Note that the third and fourth stipulations still apply to any company that wishes to incorporate the unreduce code into its products; if you wish to do so, you must contact Mr. Smith directly regarding licensing.

-----

The following copyright applied to most of the VMS code in vms.c, distributed with UnZip version 4.2 and later:

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* All the source files for Pocket UnZip, except for components
  * written by the Info-ZIP group, are copyrighted 1997 by Steve P.
  * Miller. The product "Pocket UnZip" itself is property of the
  * author and cannot be altered in any way without written consent
  * from Steve P. Miller.

-----

The remaining code was written by many people associated with the
Info-ZIP group, with large contributions from (but not limited to):
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
others. See the file CONTRIBUTIONS in the source distribution for a much
more complete list of contributors.
The decompression core code for the deflate method (inflate.[ch],
eexplode.c) was originally written by Mark Adler who submitted it
as public domain code.

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

1.445 basesystem 10
1.445.1 Available under license :
No license file was found, but licenses were detected in source scan.

Summary: The skeleton package which defines a simple Red Hat Enterprise Linux system
Name: basesystem
Version: 10.0
Release: 7% (?dist)
License: Public Domain
Group: System Environment/Base
Basesystem defines the components of a basic Red Hat Enterprise Linux system (for example, the package installation order to use during bootstrapping). Basesystem should be in every installation of a system, and it should never be removed.

%prep

%build

%install

%clean

%files
%defattr(-,root,root,-)

%changelog
* Fri Dec 27 2013 Daniel Mach <dmach@redhat.com> - 10.0-7
  - Mass rebuild 2013-12-27

* Tue Mar 06 2012 Ondrej Vasik <ovasik@redhat.com> 10.0-6
  - remove again reference to Fedora after RHEL-7 import(#800464)

* Thu Jun 23 2011 Ondrej Vasik <ovasik@redhat.com> 10.0-5
  - fix FTBFS typo (#715640), add disttag

* Fri May 21 2010 Ondrej Vasik <ovasik@redhat.com> - 10.0-4
  - remove reference to Fedora, add dist tag
  Related: rhbz#566527

* Mon Apr 26 2010 Dennis Gregorovic <dgregor@redhat.com> - 10.0-3.2
  - Rebuilt for RHEL 6
  Related: rhbz#566527

* Mon Apr 26 2010 Dennis Gregorovic <dgregor@redhat.com> - 10.0-3.1
  - Rebuilt for RHEL 6
  Related: rhbz#566527

* Fri Jul 24 2009 Fedora Release Engineering <rel-eng@lists.fedoraproject.org> - 10.0-3
  - Rebuilt for https://fedoraproject.org/wiki/Fedora_12_Mass_Rebuild

* Mon Feb 23 2009 Fedora Release Engineering <rel-eng@lists.fedoraproject.org> - 10.0-2
  - Rebuilt for https://fedoraproject.org/wiki/Fedora_11_Mass_Rebuild
* Mon Oct 20 2008 Phil Knirsch <pknirsch@redhat.com> 10.0-1
  - Bump version and rebuild for Fedora 10 (#451289)

* Fri Mar 02 2007 Phil Knirsch <pknirsch@redhat.com> - 8.1-1
  - Cleanup per package review (#225608)

* Wed Jul 12 2006 Jesse Keating <jkeating@redhat.com> - 8.0-5.1.1
  - rebuild

* Fri Dec 09 2005 Jesse Keating <jkeating@redhat.com>
  - rebuilt

* Wed Sep 22 2004 Bill Nottingham <notting@redhat.com>
  - rebuilt

* Fri Feb 13 2004 Elliot Lee <sopwith@redhat.com>
  - rebuilt

* Wed Jan 22 2003 Tim Powers <timp@redhat.com>
  - rebuilt

* Wed Aug 21 2002 Bill Nottingham <notting@redhat.com>
  - bump rev

* Fri Jun 21 2002 Tim Powers <timp@redhat.com>
  - automated rebuild

* Thu May 23 2002 Tim Powers <timp@redhat.com>
  - automated rebuild

* Wed Jan 09 2002 Tim Powers <timp@redhat.com>
  - automated rebuild

* Wed Jul 12 2000 Prospector <bugzilla@redhat.com>
  - automatic rebuild

* Tue Jun 6 2000 Bill Nottingham <notting@redhat.com>
  - rebuild. Wheee.

* Sun Mar 21 1999 Cristian Gafton <gafton@redhat.com>
  - auto rebuild in the new build environment (release 4)

* Tue Mar 16 1999 Cristian Gafton <gafton@redhat.com>
  - don't require rpm (breaks dependency chain)

* Tue Mar 16 1999 Erik Troan <ewt@redhat.com>
  - require rpm
* Wed Dec 30 1998 Cristian Gafton <gafton@redhat.com>
  - build for 6.0

* Tue Aug 11 1998 Jeff Johnson <jbj@redhat.com>
  - build root

* Mon Apr 27 1998 Prospector System <bugs@redhat.com>
  - translations modified for de, fr, tr

* Tue Sep 23 1997 Erik Troan <ewt@redhat.com>
  - made a noarch package

Found in path(s):
* /opt/cola/permits/1103682371_1604380538.58/0/basesystem-10.0-7.el7.src.rpm-cosi-expand-archive-Qr5cQrAL/basesystem.spec

1.446 setserial 2.17-33.el7
1.446.1 Available under license :

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  Version 2, June 1991

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1.447 mqtt-client 1.15

1.448 python-dmidecode 3.12.2
1.448.1 Available under license :

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DMIDecode Python Extension Module shadows the DMIDecode utility
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1.451 postfix 2.10.1-7.el7

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package com.mysql.cj.protocol.x;

import java.util.List;
import com.mysql.cj.protocol.Warning;
import com.mysql.cj.x.protobuf.MysqlxDatatypes.Scalar;

public class Notice implements Warning {

    public static final int XProtocolNoticeFrameType_WARNING = 1;
    public static final int XProtocolNoticeFrameType_SESS_VAR_CHANGED = 2;
    public static final int XProtocolNoticeFrameType_SESS_STATE_CHANGED = 3;

    public static final int SessionStateChanged_CURRENT_SCHEMA = 1;
    public static final int SessionStateChanged_ACCOUNT_EXPIRED = 2;
    public static final int SessionStateChanged_GENERATED_INSERT_ID = 3;
    public static final int SessionStateChanged_ROWS_AFFECTED = 4;
    public static final int SessionStateChanged_ROWS_FOUND = 5;
    public static final int SessionStateChanged_ROWS_MATCHED = 6;
    public static final int SessionStateChanged_TRX_COMMITTED = 7;
    public static final int SessionStateChanged_TRX_ROLLEDBACK = 9;
    public static final int SessionStateChanged_PRODUCED_MESSAGE = 10;
    public static final int SessionStateChanged_CLIENT_ID_ASSIGNED = 11;
    public static final int SessionStateChanged_GENERATED_DOCUMENT_IDS = 12;

    private int noticeType = 0;
    private int level;
    private long code;
    private String message;
    private Integer paramType = null;
    private String paramName = null;
    private Scalar value = null;
    private List< Scalar > valueList = null;

    /**
     * Constructor for XProtocolNoticeFrameType_WARNING
     *
     * @param level
     * @param code
     * @param message
     */
public Notice(int level, long code, String message) {
    this.noticeType = XProtocolNoticeFrameType_WARNING;
    this.level = level;
    this.code = code;
    this.message = message;
}

/**
 * Constructor for XProtocolNoticeFrameType_SESS_STATE_CHANGED
 *
 * @param paramType
 *            parameter type
 * @param valueList
 *            values
 */
public Notice(int paramType, List<Scalar> valueList) {
    this.noticeType = XProtocolNoticeFrameType_SESS_STATE_CHANGED;
    this.paramType = paramType;
    this.valueList = valueList;
}

/**
 * Constructor for XProtocolNoticeFrameType_SESS_VAR_CHANGED
 *
 * @param paramName
 *            parameter name
 * @param value
 *            value
 */
public Notice(String paramName, Scalar value) {
    this.noticeType = XProtocolNoticeFrameType_SESS_VAR_CHANGED;
    this.paramName = paramName;
    this.value = value;
}

public int getType() {
    return this.noticeType;
}

@Override
public int getLevel() {
    return this.level;
}

@Override
public long getCode() {
    return this.code;
}
@Override
public String getMessage() {
    return this.message;
}

public Integer getParamType() {
    return this.paramType;
}

public String getParamName() {
    return this.paramName;
}

public Scalar getValue() {
    if (this.value == null && this.valueList != null && !this.valueList.isEmpty()) {
        return this.valueList.get(0);
    }
    return this.value;
}

public List<Scalar> getValueList() {
    return this.valueList;
}

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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 combine or
link a "work that uses the Library" with the Library to produce a
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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
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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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(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.

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
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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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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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Hacked October, 1997 by Jawaid Bazyar, Interlink Advertising Services Inc.
* nicstar.c, M. Welsh (matt.welsh@cl.cam.ac.uk)
* 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
* 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;
* expect 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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2. [2]Mark Andrews <mark_andrews@isc.org> Leitch atomic clock controller
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30. [33]William L. Jones <jones@hermes.chpc.utexas.edu> RS/6000 AIX
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33. [36]George Lindholm <lindholm@ucs.ubc.ca> SunOS 5.1 port
34. [37]Louis A. Mamakos <louie@ni.umd.edu> MD5-based authentication
35. [38]Lars H. Mathiesen <thorinn@diku.dk> adaptation of foundation code for Version 3 as specified in RFC-1305
36. [39]Danny Mayer <mayer@ntp.org> Network I/O, Windows Port, Code Maintenance
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46. [50]Wilfredo Sanchez <wsanchez@apple.com> added support for NetInfo
47. [51]Nick Sayer <nrs@quack.kfu.com> SunOS streams modules
48. [52]Jack Sasportas <jack@innovativeinternet.com> Saved a Lot of space on the stuff in the html/pic/ subdirectory
49. [53]Ray Schnitzler <schnitz@unipress.com> Unixware1 port
50. [54]Michael Shields <shields@tembel.org> USNO clock driver
51. [55]Jeff Steinman <jss@pebbles.jpl.nasa.gov> Datum PTS clock driver
52. [56]Harlan Stenn <harlan@pfcs.com> GNU automake/autoconfigure makeover, various other bits (see the ChangeLog)
53. [57]Kenneth Stone <ken@sdd.hp.com> HP-UX port
54. [58]Ajit Thyagarajan <ajit@ee.udel.edu> IP multicast/anycast support
55. [59]Tomoaki TSURUOKA <tsuruoka@nc.fukuoka-u.ac.jp> TRAK clock driver
56. [60]Brian Utterback <brian.utterback@oracle.com> General codebase, Solaris issues
57. [61]Loganaden Velvindron <loganaden@gmail.com> Sandboxing (libseccomp) support
58. [62]Paul A Vixie <vixie@vix.com> TrueTime GPS driver, generic TrueTime clock driver
59. [63]Ulrich Windl <Ulrich.Windl@rz.uni-regensburg.de> corrected and validated HTML documents according to the HTML DTD

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 * Part No: 816-1331-11
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Network Working Group  H. Krawczyk
Request for Comments: 2104  IBM
Category: Informational  M. Bellare
     UCSD
     R. Canetti
     IBM
     February 1997

HMAC: Keyed-Hashing for Message Authentication

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1.463 systemtap 3.3 3.el7

1.464 biosdevname 0.7.3

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From network_io/unix/inet_ntop.c, network_io/unix/inet_pton.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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/* John W. Eaton <jwe@bevo.che.wisc.edu> to support g++ */
/* Bundled, stripped and adjusted on April 1998 as one single source file */
/* for inclusion into the Apache HTTP server by */
/* Ralf S. Engelschall <rse@apache.org> */
/* Added to APR by David Reid April 2000 */
/* */
/* strnatcmp.c -- Perform 'natural order' comparisons of strings in C. */
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************************************************************************
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1.479 perl-podlators 2.5.1

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Found in path(s):
* /opt/cola/permits/1103682599_1604395404.75/0/perl-podlators-2.5.1-3.el7-1.src.rpm-cosi-expand-archive-5tmKjIdm/perl-podlators.spec
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Found in path(s):
* /opt/cola/permits/1103682599_1604395404.75/0/perl-podlators-2.5.1-3.el7-1.src.rpm-cosi-expand-archive-5tmKjIdm/podlators-2.5.1.tar.gz-cosi-expand-archive-sTu5E5YD/podlators-2.5.1/lib/Pod/Man.pm
* /opt/cola/permits/1103682599_1604395404.75/0/perl-podlators-2.5.1-3.el7-1.src.rpm-cosi-expand-archive-5tmKjIdm/podlators-2.5.1.tar.gz-cosi-expand-archive-sTu5E5YD/podlators-2.5.1/t/pod.t
* /opt/cola/permits/1103682599_1604395404.75/0/perl-podlators-2.5.1-3.el7-1.src.rpm-cosi-expand-archive-5tmKjIdm/podlators-2.5.1.tar.gz-cosi-expand-archive-sTu5E5YD/podlators-2.5.1/t/man-utf8.t
* /opt/cola/permits/1103682599_1604395404.75/0/perl-podlators-2.5.1-3.el7-1.src.rpm-cosi-expand-archive-5tmKjIdm/podlators-2.5.1.tar.gz-cosi-expand-archive-sTu5E5YD/podlators-2.5.1/t/termcap.t
* /opt/cola/permits/1103682599_1604395404.75/0/perl-podlators-2.5.1-3.el7-1.src.rpm-cosi-expand-archive-5tmKjIdm/podlators-2.5.1.tar.gz-cosi-expand-archive-sTu5E5YD/podlators-2.5.1/t/overstrike.t
* /opt/cola/permits/1103682599_1604395404.75/0/perl-podlators-2.5.1-3.el7-1.src.rpm-cosi-expand-archive-5tmKjIdm/podlators-2.5.1.tar.gz-cosi-expand-archive-sTu5E5YD/podlators-2.5.1/t/options.t
* /opt/cola/permits/1103682599_1604395404.75/0/perl-podlators-2.5.1-3.el7-1.src.rpm-cosi-expand-archive-5tmKjIdm/podlators-2.5.1.tar.gz-cosi-expand-archive-sTu5E5YD/podlators-2.5.1/t/text-options.t
* /opt/cola/permits/1103682599_1604395404.75/0/perl-podlators-2.5.1-3.el7-1.src.rpm-cosi-expand-archive-
No license file was found, but licenses were detected in source scan.

license: perl

Found in path(s):

# 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[$i] =~ /^-(\d+)$/) {
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 $formatter = 'Pod::Text';
if ($options{color}) {
$formatter = 'Pod::Text::Color';

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eval { require Term::ANSIColor }
if ($@) { die "-c (--color) requires Term::ANSIColor be installed\n" }
require Pod::Text::Color;
} elsif ($options{termcap}) {
    $formatter = 'Pod::Text::Termcap';
    require Pod::Text::Termcap;
} elsif ($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 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<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<--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 C<<head1>> heading. Normally, no blank line is printed after C<<head1>>, although one is still printed after C<<head2>>, because this is the expected formatting for manual pages; if you're formatting arbitrary text documents, using this option is recommended.

=item B<-m> I<width>, B|--left-margin>=I<width>, B|--margin>=I<width>

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 B<-i> option.

=item B|--nourls>

Normally, 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|--overstrike>

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 B<less>, know how to convert this to bold or underlined text.

=item B<-q> I<quotes>, B|--quotes>=I<quotes>

Sets the quote marks used to surround C<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.

=item B<-s>, B<--sentence>

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.
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<die>, B<pod2text> will abort immediately with exit status 255.

DIAGNOSTICS

If B<pod2text> fails with errors, see L<Pod::Text> and L<Pod::Simple> for information about what those errors might mean. Internally, it can also produce the following diagnostics:

- -c (--color) requires Term::ANSIColor be installed
  
  (F) B<-c> or B<--color> were given, but Term::ANSIColor could not be loaded.

- Unknown option: %s
  
  (F) An unknown command line option was given.

ENVIRONMENT

- COLUMNS
  
  If B<-t> is given, B<pod2text> will take the current width of your screen from this environment variable, if available. It overrides terminal width information in TERMCAP.

- TERMCAP
  
  If B<-t> is given, B<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<Pod::Text>, L<Pod::Text::Color>, L<Pod::Text::Overstrike>,
L<Pod::Text::Termcap>, L<Pod::Simple>, L<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>.

=head1 COPYRIGHT AND LICENSE


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/1103682599_1604395404.75/0/perl-podlators-2.5.1-3.el7-1.src.rpm-cosi-expand-archive-5tmKjIdm/podlators-2.5.1.tar.gz-cosi-expand-archive-sTu5E5YD/podlators-2.5.1/scripts/pod2text
No license file was found, but licenses were detected in source scan.

# 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|l', '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;
$p->parse_from_file (@files);
if ($p->{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 SYNOPSIS

pod2man [B<--center>=I<string>] [B<--date>=I<string>] [B<--errors>=I<style>]
[B<--fixed>=I<font>] [B<--fixedbold>=I<font>] [B<--fixeditalic>=I<font>]
[B<--fixedbolditalic>=I<font>] [B<--name>=I<name>] [B<--nourls>]
[B<--official>] [B<--quotes>=I<quotes>] [B<--release>[=I<version>]]
[B<--section>=I<manext>] [B<--stderr>] [B<--utf8>] [B<--verbose>]
[I<input>] [I<output>] ...

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)
Bold version of the fixed-width font. Defaults to \texttt{CB}. Only matters for \texttt{troff} output.

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 \texttt{CI}. Only matters for \texttt{troff} output.

Bold italic (probably actually oblique) version of the fixed-width font. Pod::Man doesn't assume you have this, and defaults to \texttt{CB}. Some systems (such as Solaris) have this font available as \texttt{CX}. Only matters for \texttt{troff} output.

Print out usage information.

No longer used. B\texttt{pod2man} used to check its input for validity as a manual page, but this should now be done by L\texttt{podchecker} instead. Accepted for backward compatibility; this option no longer does anything.

Set the name of the manual page to \texttt{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 \texttt{/lib/Pod/Man.pm} is converted into a name like \texttt{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.

Normally, LZ formatted 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 C<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 C<lt>> text (but the font is still changed for troff output).

=item B<-r>, B|--release>

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.

=item B<-s>, B|--section>

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.

=item B|--stderr|

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.

=item B|--utf8|

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|--verbose|

Print out the name of each output file as it is being generated.

=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.
If `pod2man` fails with errors, see `Pod::Man` and `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 STDOUT, 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 `Pod::Man` for more details.

=head1 BUGS

Lots of this documentation is duplicated from `Pod::Man`.

=head1 SEE ALSO

`Pod::Man`, `Pod::Simple`, `man(1)`, `nroff(1)`, `perlpod(1)`, `podchecker(1)`, `perlpodstyle(1)`, `troff(1)`, `man(7)`

The man page documenting the an macro set may be `man(5)` instead of `man(7)` on your system.

The current version of this script is always available from its web site at `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 `very` heavily on the original `pod2man` by Larry Wall and Tom Christiansen.

=head1 COPYRIGHT AND LICENSE

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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 `B<lt>NAMEE<gt>`) wherever it occurs, as are all program options. Arguments should be written in italics (`I<lt>argsE<gt>`). Function names are traditionally written in italics; if you write a function as `function()`, Pod::Man will take care of this for you. Literal code or commands should be in `C<code>`; references to other `man` pages should be in the form `C<manpage(section)>` or `C<manpage(section)>`, and Pod::Man will automatically format those appropriately. The second form, with `I<lt>NAMEE<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 `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 `B<lt>NAMEE<gt>`.

The major headers should be set out using a `C<\=head1>` directive, and are historically written in the rather startling 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 \<head2>, and are typically in mixed case.

The standard sections of a manual page are:

=item NAME

Mandatory section; should be a comma-separated list of programs or functions documented by this POD page, such as:

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 \<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 FE<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.

=item HISTORY

Programs derived from other sources sometimes have this. Some people keep a modification log here, but that usually gets long and is normally better maintained in a separate file.

=item COPYRIGHT AND LICENSE

For copyright

Copyright YEAR(s) YOUR NAME(s)

(No, (C) is not needed. No, “all rights reserved” is not needed.)

For licensing the easiest way is to use the same licensing as Perl itself:

This library is free software; you may redistribute it and/or modify it under the same terms as Perl itself.

This makes it easy for people to use your module with Perl. Note that this licensing example is neither an endorsement or a requirement, you are of course free to choose any licensing.

=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 `pod2man` implementation by Larry Wall and Tom Christiansen.

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=cut

Found in path(s):
* /opt/cola/permits/1103682599_1604395404.75/0/perl-podlators-2.5.1-3.el7-1.src.rpm-cosi-expand-archive-5tmKjJdm/podlators-2.5.1.tar.gz-cosi-expand-archive-sTu5E5YD/podlators-2.5.1/pod/perlpodstyle.pod
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/1103682599_1604395404.75/0/perl-podlators-2.5.1-3.el7-1.src.rpm-cosi-expand-archive-5tmKjJdm/podlators-2.5.1.tar.gz-cosi-expand-archive-sTu5E5YD/podlators-2.5.1/lib/Pod/Text/Overstrike.pm
* /opt/cola/permits/1103682599_1604395404.75/0/perl-podlators-2.5.1-3.el7-1.src.rpm-cosi-expand-archive-5tmKjJdm/podlators-2.5.1.tar.gz-cosi-expand-archive-sTu5E5YD/podlators-2.5.1/lib/Pod/Text/Termcap.pm
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/1103682599_1604395404.75/0/perl-podlators-2.5.1-3.el7-1.src.rpm-cosi-expand-archive-5tmKjIdm/podlators-2.5.1.tar.gz-cosi-expand-archive-sTu5E5YD/podlators-2.5.1/MYMETA.yml

1.480 psmisc 22.20 15.el7

1.480.1 Available under license:

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<one line to give the program's name and a brief idea of what it does.>
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size: 8388608, sector size: 512, PT: dos, offset: 446, id=0x8f8378c0

---

#1:         32       7648  0x83
#2:       7680       8704  0xa5
#5:       7936       4864  0x7 (freebsd)
#6:      12544       3584  0x7 (freebsd)
/*
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 */

Initialize empty image
f1c9645d33bda2eb37d8a32265f26eb bsd.img
Create new DOS partition table
57e721c38d1266c2df055067c18f2cf9 bsd.img

---layout--------
__ts_dev__: 10 MB, 10485760 bytes, 20480 sectors
Units = sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optional): 512 bytes / 512 bytes
Disk label type: dos
Disk identifier: 0x00000001

Device Boot Start   End   Blocks   Id  System
-------------

Create 1st primary partition
ada64ace122978d000d1d1c0e5ee45d26 bsd.img

---layout--------
__ts_dev__ : 10 MB, 10485760 bytes, 20480 sectors
Units = sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
Disk label type: dos
Disk identifier: 0x00000001

Device Boot Start End Blocks Id System
__ts_dev__1 2048 4095 1024 83 Linux

Create 2nd primary partition
1bebf87248e05d6e4e62b749da65d023 bsd.img
Set 2nd partition type
2d8e8dff51a88a045db233418dd73f8 bsd.img

---layout--------
__ts_dev__ : 10 MB, 10485760 bytes, 20480 sectors
Units = sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
Disk label type: dos
Disk identifier: 0x00000001

Device Boot Start End Blocks Id System
__ts_dev__1 2048 4095 1024 83 Linux
__ts_dev__2 4096 20479 8192 a5 FreeBSD

Create default BSD
2e1cee529cb59e9341afe0443f196a1 bsd.img

---layout--------

Changes will remain in memory only, until you decide to write them.
Be careful before using the write command.

Command (m for help):

BSD disklabel command (m for help):
4 partitions:
# start end size fstype [fsize bsize cpg]
c: 4096 20479 16384 unused 0 0


<table>
<thead>
<tr>
<th>#</th>
<th>start</th>
<th>end</th>
<th>size</th>
<th>fstype</th>
<th>[fs size bs size cpg]</th>
</tr>
</thead>
<tbody>
<tr>
<td>a</td>
<td>4096</td>
<td>6144</td>
<td>2049</td>
<td>4.2BSD</td>
<td>0 0 0</td>
</tr>
<tr>
<td>c</td>
<td>4096</td>
<td>20479</td>
<td>16384</td>
<td>unused</td>
<td>0 0</td>
</tr>
<tr>
<td>d</td>
<td>0</td>
<td>16064</td>
<td>16065</td>
<td>unused</td>
<td>0 0</td>
</tr>
</tbody>
</table>

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* /opt/ws_local/PERMITS_SQL/1033232249_1591326191.45/0/async-http-client-2-10-5-sources-jar/org/asynchnclient/AsyncHandler.java
* /opt/ws_local/PERMITS_SQL/1033232249_1591326191.45/0/async-http-client-2-10-5-sources-jar/org/asynchnclient/SignatureCalculator.java
* /opt/ws_local/PERMITS_SQL/1033232249_1591326191.45/0/async-http-client-2-10-5-sources-jar/org/asynchnclient/HttpResponseBodyPart.java

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Found in path(s):
* /opt/ws_local/PERMITS_SQL/1033232249_1591326191.45/0/async-http-client-2-10-5-sources-
  jar/org/asynchttpclient/AsyncCompletionHandlerBase.java
* /opt/ws_local/PERMITS_SQL/1033232249_1591326191.45/0/async-http-client-2-10-5-sources-
  jar/org/asynchttpclient/DefaultAsyncHttpClient.java
* /opt/ws_local/PERMITS_SQL/1033232249_1591326191.45/0/async-http-client-2-10-5-sources-
  jar/org/asynchttpclient/AsyncHttpClient.java
* /opt/ws_local/PERMITS_SQL/1033232249_1591326191.45/0/async-http-client-2-10-5-sources-
  jar/org/asynchttpclient/HttpResponseStatus.java
* /opt/ws_local/PERMITS_SQL/1033232249_1591326191.45/0/async-http-client-2-10-5-sources-
  jar/org/asynchttpclient/proxy/ProxyServer.java
* /opt/ws_local/PERMITS_SQL/1033232249_1591326191.45/0/async-http-client-2-10-5-sources-
  jar/org/asynchttpclient/Request.java
* /opt/ws_local/PERMITS_SQL/1033232249_1591326191.45/0/async-http-client-2-10-5-sources-
  jar/org/asynchttpclient/AsyncCompletionHandler.java
* /opt/ws_local/PERMITS_SQL/1033232249_1591326191.45/0/async-http-client-2-10-5-sources-
  jar/org/asynchttpclient/Response.java

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Found in path(s):
* /opt/ws_local/PERMITS_SQL/1033232249_1591326191.45/0/async-http-client-2-10-5-sources-
  jar/org/asynchttpclient/oauth/ConsumerKey.java
* /opt/ws_local/PERMITS_SQL/1033232249_1591326191.45/0/async-http-client-2-10-5-sources-
  jar/org/asynchttpclient/netty/channel/CombinedConnectionSemaphore.java
* /opt/ws_local/PERMITS_SQL/1033232249_1591326191.45/0/async-http-client-2-10-5-sources-
  jar/org/asynchttpclient/netty/channel/ConnectionSemaphoreFactory.java
* /opt/ws_local/PERMITS_SQL/1033232249_1591326191.45/0/async-http-client-2-10-5-sources-
  jar/org/asynchttpclient/request/body/multipart/InputStreamPart.java
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* /opt/ws_local/PERMITS_SQL/1033232249_1591326191.45/0/async-http-client-2-10-5-sources-jar/org/asynchnettychannel/NoopConnectionSemaphore.java
* /opt/ws_local/PERMITS_SQL/1033232249_1591326191.45/0/async-http-client-2-10-5-sources-jar/org/asynchnettychannel/ConnectionSemaphore.java
* /opt/ws_local/PERMITS_SQL/1033232249_1591326191.45/0/async-http-client-2-10-5-sources-jar/org/asynchnettychannel/MaxConnectionSemaphore.java
* /opt/ws_local/PERMITS_SQL/1033232249_1591326191.45/0/async-http-client-2-10-5-sources-jar/org/asynchnettchannel/proxy/ProxyType.java
* /opt/ws_local/PERMITS_SQL/1033232249_1591326191.45/0/async-http-client-2-10-5-sources-jar/org/asynchnettchannel/InfiniteSemaphore.java
* /opt/ws_local/PERMITS_SQL/1033232249_1591326191.45/0/async-http-client-2-10-5-sources-jar/org/asynchnettchannel/request/body/multipart/part/InputStreamMultipartPart.java
* /opt/ws_local/PERMITS_SQL/1033232249_1591326191.45/0/async-http-client-2-10-5-sources-jar/org/asynchnettchannel/netty/channel/PerHostConnectionSemaphore.java

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# This file maps Internet media types to unique file extension(s).
# Although created for httpd, this file is used by many software systems
# and has been placed in the public domain for unlimited redistribution.
#
# The table below contains both registered and (common) unregistered types.
# A type that has no unique extension can be ignored -- they are listed
# here to guide configurations toward known types and to make it easier to
# identify "new" types. File extensions are also commonly used to indicate
# content languages and encodings, so choose them carefully.
# Internet media types should be registered as described in RFC 4288.
# The registry is at <http://www.iana.org/assignments/media-types/>.

# MIME type (lowercased)Extensions
# ============================================
# application/1d-interleaved-parityfec
# application/3gpdash-qoe-report+xml
# application/3gpp-ims+xml
# application/a2l
# application/activemessage
# application/alto-costmap+json
# application/alto-costmapfilter+json
# application/alto-directory+json
# application/alto-endpointcost+json
# application/alto-endpointcostparams+json
# application/alto-endpointprop+json
# application/alto-endpointpropparams+json
# application/alto-error+json
# application/alto-networkmap+json
# application/alto-networkmapfilter+json
# application/aml
application/andrew-insetez
# application/applefile
application/applixwareaw
# application/atf
# application/atfx
application/atom+xml
application/atomcat+xml
application/atomdeleted+xml
application/atomicmail
application/atomsvc+xml
# application/atxml
# application/auth-policy+xml
# application/bacnet-xdd+zip
# application/batch-smtp
# application/beep+xml
# application/calendar+json
# application/calendar+xml
# application/call-completion
# application/cals-1840
# application/cbor
# application/ccmp+xml
application/ccxml+xml
# application/cdfx+xml
application/cdmi-capability
cdmia
application/cdmi-container
cdmic
application/cdmi-domain
cdmid
# application/mpeg4-generic
# application/mpeg4-iod
# application/mpeg4-iod-xmt
# application/mrb-consumer+xml
# application/mrb-publish+xml
# application/msc-ivr+xml
# application/msc-mixer+xml
application/msword
doc dot
application/mxf
# application/nasdata
# application/news-checkgroups
# application/news-groupinfo
# application/news-transmission
# application/nlsml+xml
# application/nss
# application/ocsp-request
# application/ocsp-response
application/octet-stream
bin
dms
lr
f
mar
so
dist
distz
pkg
bpk
dump
elec
deploy
application/oda
# application/odx
application/oebps-package+xml
opf
application/ogg
application/omdoc+xml
omdoc
application/onenote
onetoc
onetoc2
onetime
onepkg
application/oxps
# application/p2p-overlay+xml
# application/parityfec
application/patch-ops-error+xml
xer
application/pdf
pdf
# application/pdx
application/pgp-encrypted
gpg
# application/pgp-keys
application/pgp-signature
asc
sig
application/pics-rules
prf
# application/pidf+xml
# application/pidf-diff+xml
application/pkcs10
p10
# application/pkcs12
application/pkcs7-mime
p7c
application/pkcs7-signature
p7s
application/pkcs8
p8
application/pkix-attr-cert
ac
application/pkix-cert
cer
application/pkix-crl
crl
application/pkix-cm
application/pls+xml
pls
# application/poc-settings+xml
# application/session-info
# application/set-payment
application/set-payment-initiationsetpay
# application/set-registration
application/set-registration-initiationsetreg
# application/sgml
# application/sgml-open-catalog
application/shf+xml
# application/sieve
# application/simple-filter+xml
# application/simple-message-summary
# application/simplesymbolcontainer
# application/slate
# application/smil
application/smil+xml
application/smpte336m
# application/soap+fastinfoset
# application/soap+xml
application/sparql-query
application/sparql-results+xml
# application/spirits-event+xml
# application/sql
application/srgs
application/srgs+xml
application/sru+xml
application/ssdl+xml
application/ssml+xml
# application/tamp-apex-update
# application/tamp-apex-update-confirm
# application/tamp-community-update
# application/tamp-community-update-confirm
# application/tamp-error
# application/tamp-sequence-adjust
# application/tamp-sequence-adjust-confirm
# application/tamp-status-query
# application/tamp-status-response
# application/tamp-update
# application/tamp-update-confirm
application/tei+xml
application/thraud+xml
# application/timestamp-query
# application/timestamp-reply
application/timestamped-data
# application/ttml+xml
# application/tve-trigger
# application/ulpfec
# application/urc-grpsheet+xml
# application/urc-ressheet+xml
# application/vnd.dvb.iptv.alfec-enhancement
# application/vnd.dvb.notif-aggregate-root+xml
# application/vnd.dvb.notif-container+xml
# application/vnd.dvb.notif-generic+xml
# application/vnd.dvb.notif-ia-msglist+xml
# application/vnd.dvb.notif-ia-registration-request+xml
# application/vnd.dvb.notif-ia-registration-response+xml
# application/vnd.dvb.notif-init+xml
# application/vnd.dvb.pfr
application/vnd.dvb.servicesvc
# application/vnd.dvb.dxr
application/vnd.dynageogeo
# application/vnd.dvb.dzr
# application/vnd.dvb.easykaraoke.cdgdownload
# application/vnd.dvb.ecdis-update
application/vnd.dvb.ecowin.chartmag
# application/vnd.dvb.ecowin.filerequest
# application/vnd.dvb.ecowin.fileupdate
# application/vnd.dvb.ecowin.series
# application/vnd.dvb.ecowin.seriesrequest
# application/vnd.dvb.ecowin.seriesupdate
# application/vnd.dvb.emclient.accessrequest+xml
application/vnd.enlivennml
# application/vnd.enphase.envoy
# application/vnd.episys.data+xml
application/vnd.epson.esf
application/vnd.epson.msf
application/vnd.epson.quickanimeqm
application/vnd.epson.saltslt
application/vnd.epson.ssff
# application/vnd.ericsson.quickcall
application/vnd.eszigno3+xml xmls3 et3
# application/vnd.etsi.aoc+xml
# application/vnd.etsi.asic-e+zip
# application/vnd.etsi.asic-s+zip
# application/vnd.etsi.cug+xml
# application/vnd.etsi.iptvcommand+xml
# application/vnd.etsi.iptvdiscovery+xml
# application/vnd.etsi.iptvprofile+xml
# application/vnd.etsi.iptvsad-bc+xml
# application/vnd.etsi.iptvsad-cod+xml
# application/vnd.etsi.iptvsad-npvr+xml
# application/vnd.etsi.iptvservice+xml
# application/vnd.etsi.iptvsync+xml
# application/vnd.etsi.ietfprofile+xml
# application/vnd.etsi.mcid+xml
# application/vnd.etsi.mheg5
# application/vnd.etsi.overload-control-policy-dataset+xml
# application/vnd.wfa.wsc
# application/vnd.windows.devicepairing
# application/vnd.wmc
# application/vnd.wmf.bootstrap
# application/vnd.wolfram.mathematica
# application/vnd.wolfram.mathematica.package
application/vnd.wolfram.player
application/vnd.wordperfect
application/vnd.wqd
# application/vnd.wrq-hp3000-labelled
application/vnd.wt.stf
# application/vnd.wv.csp+wbxml
# application/vnd.wv.csp+xml
# application/vnd.wv.ssp+xml
# application/vnd.xacml+json
application/vnd.xara
application/vnd.xfdlxfdl
# application/vnd.xfdlxform
# application/vnd.xmi+xml
# application/vnd.xmpie.cpkg
# application/vnd.xmpie.dpkg
# application/vnd.xmpie.plan
# application/vnd.xmpie.ppkg
# application/vnd.xmpie.xlim
application/vnd.yamaha.hv-dichvd
application/vnd.yamaha.hv-script
application/vnd.yamaha.hv-voice
application/vnd.yamaha.openscoreformatosf
application/vnd.yamaha.openscoreformat.osfpvg+xml
# application/vnd.yamaha.remote-setup
application/vnd.yamaha.smaf-audiosaf
application/vnd.yamaha.smaf-phrase
# application/vnd.yamaha.through-ngn
# application/vnd.yamaha.tunnel-udpencap
# application/vnd.yaoweme
application/vnd.yellowriver-custom-menu
application/vnd.zul
application/vnd.zzazz.deck+xml
application/voicexml+xml
# application/vq-rtcpxr
# application/watcherinfo+xml
# application/whoispp-query
# application/whoispp-response
application/widget
application/winhlphp
# application/wita
# application/wordperfect5.1
application/wsdl+xml
application/wsdl
# audio/3gpp
# audio/3gpp2
# audio/ac3
audio/adpcm adp
# audio/amr
# audio/amr-wb
# audio/amr-wb+
# audio/aptx
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# audio/atrac3
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# audio/bv16
# audio/bv32
# audio/clearmode
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# audio/dsr-es202212
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# audio/smv0
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# audio/tone
# audio/uemclip
# audio/ulpfec
# audio/vdvi
# audio/vmr-wb
# audio/vnd.3gpp.iufp
# audio/vnd.4sb
# audio/vnd.audiokoz
# audio/vnd.celp
# audio/vnd.cisco.nse
# audio/vnd.cmles.radio-events
# audio/vnd.cns.anp1
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message/example
message/external-body
message/feedback-report
message/global
message/global-delivery-status
message/global-disposition-notification
message/global-headers
message/http
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message/news
message/partial
message/rfc822eml mime
message/s-http
message/sip
message/sipfrag
message/tracking-status
message/vnd.si.simp
message/vnd.wfa.wsc
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dae
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dwf
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model/vnd.opengex
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model/vnd.parasolid.transmit.text
model/vnd.rosette.annotated-data-model
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model/vnd.vtuvtu
model/vrm/wrl
model/x3d+binary x3db x3dbz
model/x3d+fastinfoset
model/x3d+vrml x3dv
model/x3d+xml
x3dz
model/x3d-vrml
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multipart/appledouble
multipart/byteranges
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multipart/encrypted
# multipart/example
# multipart/form-data
# multipart/header-set
# multipart/mixed
# multipart/parallel
# multipart/related
# multipart/report
# multipart/signed
# multipart/voice-message
# multipart/x-mixed-replace
# text/1d-interleaved-parityfec
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# text/enriched
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# text/markdown
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list
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# text/provenance-notation
# text/prs.fallenstein.rst
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# text/raptorfec
# text/red
# text/rfc822-headers
text/richtext
# text/rtf
# text/rtp-enc-aescm128
# text/rtploopback
# text/rtx
text/t140
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# text/tab-separated-values
# text/troff
# text/trr
# text/tr
# text/roff
# text/man
# text/me
# text/ms
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video/vnd.dece.videouvv uvvv
# video/vnd.directv.mpeg
# video/vnd.directv.mpeg-tts
# video/vnd.dlna.mpeg-tts
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# video/vnd.iptvforum.1dparityfec-1010
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# video/vnd.iptvforum.ttsmpeg2
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# video/vnd.radgametools.smacker
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# video/vnd.sealed.mpeg4
# video/vnd.sealed.swf
# video/vnd.sealedmedia.softseal.mov
video/vnd.uvvu.mp4uvu uvvu
video/vnd.vivoviv
# video/vp8
video/webmwebm
video/x-f4vf4v
video/x-flifli
video/x-flvf1v
video/x-m4vm4v
video/x-matroskamkv mk3d mks
video/x-mngmng
video/x-ms-asfasf asx
video/x-ms-vobvob
video/x-ms-wmwm
video/x-ms-wmvwmwm
video/x-ms-wmxwmxm
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video/x-smvsmv
x-conference/x-cooltalkice
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/**
 * Value class used for OAuth tokens (request secret, access secret);
 * simple container with two parts, public id part ("key") and
 * confidential ("secret") part.
 */

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* /opt/ws_local/PERMITS_SQL/1033232249_1591326191.45/0/async-http-client-2-10-5-sources-jar/org/asynchttpclient/util/Utf8UrlEncoder.java
* /opt/ws_local/PERMITS_SQL/1033232249_1591326191.45/0/async-http-client-2-10-5-sources-
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* /opt/ws_local/PERMITS_SQL/1033232249_1591326191.45/0/async-http-client-2-10-5-sources-jar/org/asynchttpclient/netty/request/WriteCompleteListener.java
* /opt/ws_local/PERMITS_SQL/1033232249_1591326191.45/0/async-http-client-2-10-5-sources-jar/org/asynchttpclient/netty/request/WriteCompleteListener.java
* /opt/ws_local/PERMITS_SQL/1033232249_1591326191.45/0/async-http-client-2-10-5-sources-jar/org/asynchttpclient/netty/request/WriteListener.java
* /opt/ws_local/PERMITS_SQL/1033232249_1591326191.45/0/async-http-client-2-10-5-sources-jar/org/asynchttpclient/ClientStats.java
* /opt/ws_local/PERMITS_SQL/1033232249_1591326191.45/0/async-http-client-2-10-5-sources-jar/org/asynchttpclient/request/body/generator/FeedableBodyGenerator.java
* /opt/ws_local/PERMITS_SQL/1033232249_1591326191.45/0/async-http-client-2-10-5-sources-jar/org/asynchttpclient/netty/request/body/NettyCompositeByteArrayBody.java
* /opt/ws_local/PERMITS_SQL/1033232249_1591326191.45/0/async-http-client-2-10-5-sources-jar/org/asynchttpclient/request/body/Generator.java
* /opt/ws_local/PERMITS_SQL/1033232249_1591326191.45/0/async-http-client-2-10-5-sources-jar/org/asynchttpclient/netty/request/body/NettyMultipartBody.java
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* /opt/ws_local/PERMITS_SQL/1033232249_1591326191.45/0/async-http-client-2-10-5-sources-jar/org/asynchnettcpclient/netty/timeout/TimeoutsHolder.java
* /opt/ws_local/PERMITS_SQL/1033232249_1591326191.45/0/async-http-client-2-10-5-sources-jar/org/asynchnettcpclient/netty/channel/NettyConnectListener.java

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* /opt/ws_local/PERMITS_SQL/1033232249_1591326191.45/0/async-http-client-2-10-5-sources-jar/org/asynchnettcpclient/request/body/generator/ByteArrayBodyGenerator.java
* /opt/ws_local/PERMITS_SQL/1033232249_1591326191.45/0/async-http-client-2-10-5-sources-jar/org/asynchnettcpclient/util/MiscUtils.java
* /opt/ws_local/PERMITS_SQL/1033232249_1591326191.45/0/async-http-client-2-10-5-sources-jar/org/asynchnettcpclient/handler/TransferListener.java
* /opt/ws_local/PERMITS_SQL/1033232249_1591326191.45/0/async-http-client-2-10-5-sources-jar/org/asynchnettcpclient/util/ProxyUtils.java
* /opt/ws_local/PERMITS_SQL/1033232249_1591326191.45/0/async-http-client-2-10-5-sources-jar/org/asynchnettcpclient/handler/TransferCompletionHandler.java
* /opt/ws_local/PERMITS_SQL/1033232249_1591326191.45/0/async-http-client-2-10-5-sources-jar/org/asynchnettcpclient/filter/IOExceptionFilter.java
* /opt/ws_local/PERMITS_SQL/1033232249_1591326191.45/0/async-http-client-2-10-5-sources-jar/org/asynchnettcpclient/util/HttpUtils.java
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* /opt/ws_local/PERMITS_SQL/1033232249_1591326191.45/0/async-http-client-2-10-5-sources-jar/org/asynchttpclient/handler/resumable/ResumableIOExceptionFilter.java
* /opt/ws_local/PERMITS_SQL/1033232249_1591326191.45/0/async-http-client-2-10-5-sources-jar/org/asynchttpclient/handler/BodyDeferringAsyncHandler.java
* /opt/ws_local/PERMITS_SQL/1033232249_1591326191.45/0/async-http-client-2-10-5-sources-jar/org/asynchttpclient/webdav/WebDavCompletionHandlerBase.java
* /opt/ws_local/PERMITS_SQL/1033232249_1591326191.45/0/async-http-client-2-10-5-sources-jar/org/asynchttpclient/request/body/generator/InputStreamBodyGenerator.java
* /opt/ws_local/PERMITS_SQL/1033232249_1591326191.45/0/async-http-client-2-10-5-sources-jar/org/asynchttpclient/handler/resumable/PropertiesBasedResumableProcessor.java
* /opt/ws_local/PERMITS_SQL/1033232249_1591326191.45/0/async-http-client-2-10-5-sources-jar/org/asynchttpclient/webdav/WebDavResponse.java
* /opt/ws_local/PERMITS_SQL/1033232249_1591326191.45/0/async-http-client-2-10-5-sources-jar/org/asynchttpclient/request/body/generator/BodyGenerator.java
* /opt/ws_local/PERMITS_SQL/1033232249_1591326191.45/0/async-http-client-2-10-5-sources-jar/org/asynchttpclient/handler/ProgressAsyncHandler.java
* /opt/ws_local/PERMITS_SQL/1033232249_1591326191.45/0/async-http-client-2-10-5-sources-jar/org/asynchttpclient/ws/WebSocketListener.java
* /opt/ws_local/PERMITS_SQL/1033232249_1591326191.45/0/async-http-client-2-10-5-sources-jar/org/asynchttpclient/handler/resumable/ResumableListener.java
* /opt/ws_local/PERMITS_SQL/1033232249_1591326191.45/0/async-http-client-2-10-5-sources-jar/org/asynchttpclient/filter/ThrottleRequestFilter.java
* /opt/ws_local/PERMITS_SQL/1033232249_1591326191.45/0/async-http-client-2-10-5-sources-jar/org/asynchttpclient/filter/FilterException.java
"
jar/org/asynchttpclient/netty/channel/KQueueTransportFactory.java
* /opt/ws_local/PERMITS_SQL/1033232249_1591326191.45/0/async-http-client-2-10-5-sources-
jar/org/asynchttpclient/netty/channel/NioTransportFactory.java
* /opt/ws_local/PERMITS_SQL/1033232249_1591326191.45/0/async-http-client-2-10-5-sources-
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* /opt/ws_local/PERMITS_SQL/1033232249_1591326191.45/0/async-http-client-2-10-5-sources-
jar/org/asynchttpclient/netty/request/body/NettyByteBufferBody.java
* /opt/ws_local/PERMITS_SQL/1033232249_1591326191.45/0/async-http-client-2-10-5-sources-
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jar/org/asynchttpclient/netty/ssl/SslEngineFactoryBase.java
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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 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.
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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End

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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.

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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
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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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1.488 jetty-jmx 9.2.26.v20180806

1.489 libxslt 1.1.28 5.el7

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

1.490 libjpeg-turbo 1.2.90

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* Modifications:
* Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB
* Copyright (C) 2009-2012, D. R. Commander.
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* This file contains input colorspace conversion routines.
*/

Found in path(s):
* /opt/cola/permits/1103682335_1604392439.32/0/libjpeg-turbo-1.2.90-6.el7.src.rpm-cosi-expand-archive-v8mkKdjm/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-nYAlldh/libjpeg-turbo-1.2.90/jccolor.c
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; more details.

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* /opt/cola/permits/1103682335_1604392439.32/0/libjpeg-turbo-1.2.90-6.el7.src.rpm-cosi-expand-archive-v8mkKdjm/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-nYAlldh/libjpeg-turbo-1.2.90/simd/jimmxint.asm
* /opt/cola/permits/1103682335_1604392439.32/0/libjpeg-turbo-1.2.90-6.el7.src.rpm-cosi-expand-archive-v8mkKdjm/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-nYAlldh/libjpeg-turbo-1.2.90/simd/jiss2int.asm
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* /opt/cola/permits/1103682335_1604392439.32/0/libjpeg-turbo-1.2.90-6.el7.src.rpm-cosi-expand-archive-v8mkKdjm/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-nYAlldh/libjpeg-turbo-1.2.90/simd/jfss2int-64.asm
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/*
* jfdctfst.c
*
* Copyright (C) 1994-1996, Thomas G. Lane.
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* 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):
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v8mkKdjM/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-niYAUldh/libjpeg-turbo-1.2.90/jfdctfst.c
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/ncp/cola/cphuff.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 Huffman entropy encoding routines for progressive JPEG.
* We do not support output suspension in this module, since the library
  * currently does not allow multiple-scan files to be written with output
  * suspension.
*/

Found in path(s):
* /opt/cola/permits/1103682335_1604392439.32/0/libjpeg-turbo-1.2.90-6.el7.src.rpm-cosi-expand-archive-
v8mkKdjM/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-niYAUldh/libjpeg-turbo-1.2.90/jcphuff.c
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; jsimdext.inc - common declarations
;
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; Copyright 2010 D. R. Commander
;
; Based on
; x86 SIMD extension for IJG JPEG library - version 1.02
;
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;
; [TAB8]

;============================================================================
; System-dependent configurations

%ifdef WIN32; ----(nasm -fwin32 -DWIN32 ...)--------
; * Microsoft Visual C++
; * MinGW (Minimalist GNU for Windows)
; * CygWin
; * LCC-Win32

; -- segment definition --
;
%ifdef __YASM_VER__
%define SEG_TEXT .text align=16
%define SEG_CONST .rdata align=16
%else
%define SEG_TEXT .text align=16 public use32 class=CODE
%define SEG_CONST .rdata align=16 public use32 class=CONST
%endif

%elifdef WIN64; ----(nasm -fwin64 -DWIN64 ...)--------
; * Microsoft Visual C++

; -- segment definition --
;
%ifdef __YASM_VER__

Open Source Used In Cisco VSM 7.14.2  23231
%define SEG_TEXT.text align=16
%define SEG_CONST.rdata align=16
%else
%define SEG_TEXT .text align=16 public use64 class=CODE
%define SEG_CONST .rdata align=16 public use64 class=CONST
%endif
%define EXTN(name) name; foo() -&gt; foo

%elseifdef OBJ32; ---(nasm -fobj -DOBJ32 ...)--------
; * Borland C++ (Win32)

; -- segment definition --

; %define SEG_TEXT .text align=16 public use32 class=CODE
%define SEG_CONST .data align=16 public use32 class=DATA

%elseifdef ELF; ---(nasm -felf[64] -DELF ...)--------
; * Linux
; * *BSD family Unix using elf format
; * Unix System V, including Solaris x86, UnixWare and SCO Unix

; mark stack as non-executable
section .note.GNU-stack noalloc noexec nowrite progbits

; -- segment definition --

;ifdef __x86_64__
%define SEG_TEXT .text progbits align=16
%define SEG_CONST .rodata progbits align=16
%else
%define SEG_TEXT .text progbits alloc exec nowrite align=16
%define SEG_CONST .rodata progbits alloc noexec nowrite align=16
%endif

; To make the code position-independent, append -DPIC to the commandline

%define GOT_SYMBOL _GLOBAL_OFFSET_TABLE_; ELF supports PIC
%define EXTN(name) name; foo() -&gt; foo

%elseifdef AOUT; ---(nasm -faoutb/aout -DAOUT ...)----
; * Older Linux using a.out format (nasm -f aout -DAOUT ...)
; * *BSD family Unix using a.out format (nasm -f aoutb -DAOUT ...)

; -- segment definition --

;ifdef SEG_TEXT .text
%define SEG_CONST .data
To make the code position-independent, append `-DPIC` to the commandline

```plaintext
%define GOT_SYMBOL __GLOBAL_OFFSET_TABLE__; BSD-style a.out supports PIC

%elifdef MACHO; ----(asm -fmacho -DMACHO ...)--
; * NeXTstep/OpenStep/Rhapsody/Darwin/MacOS X (Mach-O format)

; -- segment definition --
;
%define SEG_TEXT .text ;align=16; nasm doesn't accept align=16. why?
%define SEG_CONST .rodata align=16

; The generation of position-independent code (PIC) is the default on Darwin.
;
%define PIC
%define GOT_SYMBOL _MACHO_PIC_; Mach-O style code-relative addressing

%else; ----(Other case)----------------------

; -- segment definition --
;
%define SEG_TEXT .text
%define SEG_CONST .data

%endif; ----------------------------------------------

 ==========================================================================
--------------------------------------------------------------------------

; Common types
;
%ifdef __x86_64__
%define POINTER                 qword    ; general pointer type
%define SIZEOF_POINTER          SIZEOF_QWORD ; sizeof(POINTER)
%define POINTER_BIT             QWORD_BIT ; sizeof(POINTER)*BYTE_BIT
%else
%define POINTER                 dword    ; general pointer type
%define SIZEOF_POINTER          SIZEOF_DWORD ; sizeof(POINTER)
%define POINTER_BIT             DWORD_BIT ; sizeof(POINTER)*BYTE_BIT
%endif

%define INT                     dword    ; signed integer type
%define SIZEOF_INT              SIZEOF_DWORD ; sizeof(INT)
%define INT_BIT                 DWORD_BIT ; sizeof(INT)*BYTE_BIT

%define FP32                    dword    ; IEEE754 single
%define SIZEOF_FP32             SIZEOF_DWORD ; sizeof(FP32)
%define FP32_BIT                 DWORD_BIT ; sizeof(FP32)*BYTE_BIT
```
%define MMWORD qword ; int64 (MMX register)
%define SIZEOF_MMWORD SIZEOF_QWORD ; sizeof(MMWORD)
%define MMWORD_BIT QWORD_BIT ; sizeof(MMWORD)*BYTE_BIT

; NASM is buggy and doesn't properly handle operand sizes for SSE
; instructions, so for now we have to define XMMWORD as blank.
%define XMMWORD ; int128 (SSE register)
%define SIZEOF_XMMWORD SIZEOF_OWORD ; sizeof(XMMWORD)
%define XMMWORD_BIT OWORD_BIT ; sizeof(XMMWORD)*BYTE_BIT

; Similar hacks for when we load a dword or MMWORD into an xmm# register
%define XMM_DWORD
%define XMM_MMWORD

%define SIZEOF_BYTE 1 ; sizeof(BYTE)
%define SIZEOF_WORD 2 ; sizeof(WORD)
%define SIZEOF_DWORD 4 ; sizeof(DWORD)
%define SIZEOF_QWORD 8 ; sizeof(QWORD)
%define SIZEOF_OWORD 16 ; sizeof(OWORD)
%define BYTE_BIT 8 ; CHAR_BIT in C
%define WORD_BIT 16 ; sizeof(WORD)*BYTE_BIT
%define DWORD_BIT 32 ; sizeof(DWORD)*BYTE_BIT
%define QWORD_BIT 64 ; sizeof(QWORD)*BYTE_BIT
%define OWORD_BIT 128 ; sizeof(OWORD)*BYTE_BIT

; --------------------------------------------------------------------------
; External Symbol Name
;
%ifndef EXTN
%define EXTN(name) _ %+ name
%endif

; --------------------------------------------------------------------------
; Macros for position-independent code (PIC) support
;
%ifndef GOT_SYMBOL
%undef PIC
%endif

%ifdef PIC ; -------------------------------------------

%ifdef GOT_SYMBOL
%undef PIC
%endif

%ifdef PIC ; -------------------------------------------

%ifdef GOT_SYMBOL

%ifndef GOT_SYMBOL

%ifndef _MACHO_PIC_

; At present, nasm doesn't seem to support PIC generation for Mach-O.
; The PIC support code below is a little tricky.
SECTIONSEG_CONST
const_base:

%define GOTOFF(got, sym) (got) + (sym) - const_base

%imacro get_GOT1
; NOTE: this macro destroys ecx register.
call%geteip
addecx, byte (%ref - $)
jmpshort %adjust
%geteip:
movecx, POINTER [esp]
ret
%adjust:
pushebp
xorebp, ebp; ebp = 0
%ifidni %1, ebx; (%1 == ebx)
; db 0x8D,0x9C + jmp near const_base =
; lea ebx, [ecx+ebp*8+(const_base-%ref)] ; 8D,9C,E9,(offset32)
dbo8D,0x9C; 8D,9C
jmpnear const_base; E9,(const_base-%ref)
%ref:
%else ; (%1 != ebx)
; db 0x8D,0x8C + jmp near const_base =
; lea ecx, [ecx+ebp*8+(const_base-%ref)] ; 8D,8C,E9,(offset32)
dbo8D,0x8C; 8D,8C
jmpnear const_base; E9,(const_base-%ref)
%ref:mov%1, ecx
%endif ; (%1 == ebx)
popebp
%endmacro

%else; GOT_SYMBOL != _MACHO_PIC_------------------

%define GOTOFF(got, sym) (got) + (sym) wrt ..gotoff

%imacro get_GOT1
externGOT_SYMBOL
call%geteip
add%1, GOT_SYMBOL + $ - $ wrt ..gotpc
jmpshort %done
%geteip:
mov%1, POINTER [esp]
ret
%done:
%endmacro

%endif; GOT_SYMBOL == _MACHO_PIC_------------------
%imacro pushpic1.nolist
push%1
%endmacro
%imacro poppic1.nolist
pop%1
%endmacro
%imacro movpic2.nolist
mov%1,%2
%endmacro

%else; !PIC -----------------------------------------

%define GOTOFF(got,sym) (sym)

%imacro get_GOT.nolist
%endmacro

%imacro pushpic1.nolist
%endmacro
%imacro poppic1.nolist
%endmacro
%imacro movpic2.nolist
%endmacro

%endif; PIC -----------------------------------------

; --------------------------------------------------------------------------
; Align the next instruction on {2,4,8,16,...}-byte boundary.
; ";.balign n,,m" in GNU as
;
%define MSKLE(x,y)  (~(((y) & 0xFFFF) - ((x) & 0xFFFF)) >> 16)
%define FILLB(b,n)  (($$-(b)) & ((n)-1))

%imacro alignx 1-2.nolist 0xFFFF
%bs:
\times MSKLE(FILLB(%%bs,%1),%2) & FILLB($,%1) & FILLB($,%1) \n    db 0x90  ; nop
\times MSKLE(FILLB(%%bs,%1),%2) & FILLB($,%1)9 \n    db 0x8D,0x9C,0x23,0x00,0x00,0x00,0x00  ; lea ebx,[ebx+0x00000000]
\times MSKLE(FILLB(%%bs,%1),%2) & FILLB($,%1)7 \n    db 0x8D,0xAC,0x25,0x00,0x00,0x00,0x00  ; lea ebp,[ebp+0x00000000]
\times MSKLE(FILLB(%%bs,%1),%2) & FILLB($,%1)6 \n    db 0x8D,0xAD,0x00,0x00,0x00,0x00,0x00  ; lea ebp,[ebp+0x00000000]
\times MSKLE(FILLB(%%bs,%1),%2) & FILLB($,%1)4 \n    db 0x8D,0x6C,0x25,0x00  ; lea ebp,[ebp+0x00000000]
\times MSKLE(FILLB(%%bs,%1),%2) & FILLB($,%1)3 \n    db 0x8D,0x6D,0x00  ; lea ebp,[ebp+0x00000000]
\times MSKLE(FILLB(%%bs,%1),%2) & FILLB($,%1)2 \n    db 0x8B,0xED  ; mov ebp,ebp
times MSKLE(FILLB(%%bs,%1).%2) & FILLB($,%1)/1 \n    db 0x90             ; nop
%endmacro

; Align the next data on {2,4,8,16,...}-byte boundary.
;
%imacro alignz 1.nolist
align %1, db 0; filling zeros
%endmacro

%ifdef __x86_64__
%ifdef WIN64
%imacro collect_args 0
push r12
push r13
push r14
push r15
mov r10, rcx
mov r11, rdx
mov r12, r8
mov r13, r9
mov r14, [rax+48]
mov r15, [rax+56]
push rsi
push rdi
sub    rsp, SIZEOF_XMMWORD
movaps XMMWORD [rsp], xmm6
sub    rsp, SIZEOF_XMMWORD
movaps XMMWORD [rsp], xmm7
%endmacro

%imacro uncollect_args 0
movaps xmm7, XMMWORD [rsp]
add    rsp, SIZEOF_XMMWORD
movaps xmm6, XMMWORD [rsp]
add    rsp, SIZEOF_XMMWORD
pop rdi
pop rsi
pop r15
pop r14
pop r13
pop r12
%endmacro

%else


%imacro collect_args 0
push r10
push r11
push r12
push r13
push r14
push r15
mov r10, rdi
mov r11, rsi
mov r12, rdx
mov r13, rcx
mov r14, r8
mov r15, r9
%endmacro

%imacro uncollect_args 0
pop r15
pop r14
pop r13
pop r12
pop r11
pop r10
%endmacro

%endif
%endif

; --------------------------------------------------------------------------
; Defines picked up from the C headers
;
%include "jsimdcfg.inc"

; --------------------------------------------------------------------------

Found in path(s):
* /opt/cola/permits/1103682335_1604392439.32/0/libjpeg-turbo-1.2.90-6.el7.src.rpm-cosi-expand-archive-v8mkKdjM/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-niYAIIdh/libjpeg-turbo-1.2.90/simdl/jsimdext.inc
No license file was found, but licenses were detected in source scan.

/*
 * jversion.h
 *
 * This file was part of the Independent JPEG Group's software:
 * Copyright (C) 1991-2012, Thomas G. Lane, Guido Vollbeding.
 * Modifications:
 * Copyright (C) 2010, 2012-2013, D. R. Commander.
 * For conditions of distribution and use, see the accompanying README file.
This file contains software version identification.

*/

Found in path(s):
* /opt/cola/permits/1103682335_1604392439.32/0/libjpeg-turbo-1.2.90-6.el7.src.rpm-cosi-expand-archive-v8mkKdjM/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-niYAIldh/libjpeg-turbo-1.2.90/jversion.h
No license file was found, but licenses were detected in source scan.

/*
* jmemnobs.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/1103682335_1604392439.32/0/libjpeg-turbo-1.2.90-6.el7.src.rpm-cosi-expand-archive-v8mkKdjM/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-niYAIldh/libjpeg-turbo-1.2.90/jmemnobs.c
No license file was found, but licenses were detected in source scan.

/*
* 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 ppmto.gif 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/1103682335_1604392439.32/0/libjpeg-turbo-1.2.90-6.el7.src.rpm-cosi-expand-archive-
v8mkKdjM/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-niYALldh/libjpeg-turbo-1.2.90/wrgif.c
No license file was found, but licenses were detected in source scan.

/*
* jdmrgext.c
*
* This file was part of the Independent JPEG Group's software:
* Copyright (C) 1994-1996, Thomas G. Lane.
* Modifications:
* Copyright (C) 2011, D. R. Commander.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains code for merged upsampling/color conversion.
*/

Found in path(s):
* /opt/cola/permits/1103682335_1604392439.32/0/libjpeg-turbo-1.2.90-6.el7.src.rpm-cosi-expand-archive-
v8mkKdjM/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-niYALldh/libjpeg-turbo-1.2.90/jdmrgext.c
No license file was found, but licenses were detected in source scan.

/*
* jQuery JavaScript Library v1.3.2
* http://jquery.com/
*
* Copyright (c) 2009 John Resig
* Dual licensed under the MIT and GPL licenses.
* http://docs.jquery.com/License
*
* Date: 2009-02-19 17:34:21 -0500 (Thu, 19 Feb 2009)
* Revision: 6246
*/
/*
* Sizzle CSS Selector Engine - v0.9.3
* Copyright 2009, The Dojo Foundation
* Released under the MIT, BSD, and GPL Licenses.
* More information: http://sizzlejs.com/
*/
/*
* jQuery UI 1.7.2
* 
* Copyright (c) 2009 AUTHORS.txt (http://jqueryui.com/about)
* Dual licensed under the MIT (MIT-LICENSE.txt)
* and GPL (GPL-LICENSE.txt) licenses.
* 
* http://docs.jquery.com/UI
*/
/**
/*
* jQuery.ScrollTo - Easy element scrolling using jQuery.
* Copyright (c) 2008 Ariel Flesler - aflesler(at)gmail(dot)com
* Licensed under GPL license (http://www.opensource.org/licenses/gpl-license.php).
* Date: 2/8/2008
* @author Ariel Flesler
* @version 1.3.2
*/

Found in path(s):
* /opt/cola/permits/1103682335_1604392439.32/0/libjpeg-turbo-1.2.90-6.el7.src.rpm-cosi-expand-archive-v8mkKdjM/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-niYAIldh/libjpeg-turbo-1.2.90/doc/html/jquery.js
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/1103682335_1604392439.32/0/libjpeg-turbo-1.2.90-6.el7.src.rpm-cosi-expand-archive-v8mkKdjM/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-niYAlldh/libjpeg-turbo-1.2.90/jcinit.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/1103682335_1604392439.32/0/libjpeg-turbo-1.2.90-6.el7.src.rpm-cosi-expand-archive-v8mkKdjM/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-niYAlldh/libjpeg-turbo-1.2.90/jdapimin.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/1103682335_1604392439.32/0/libjpeg-turbo-1.2.90-6.el7.src.rpm-cosi-expand-archive-v8mkKdjM/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-niYAlldh/libjpeg-turbo-1.2.90/wrrle.c
No license file was found, but licenses were detected in source scan.

/**
 * rdbmp.c
 *
 * This file was part of the Independent JPEG Group's software:
 * Copyright (C) 1994-1996, Thomas G. Lane.
 * Modified 2009-2010 by Guido Vollbeding.
 * Modifications:
 * Modified 2011 by Siarhei Siamashka.
 * 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.
 */

Found in path(s):
* /opt/cola/permits/1103682335_1604392439.32/0/libjpeg-turbo-1.2.90-6.el7.src.rpm-cosi-expand-archive-v8mkKdjM/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-niYAlldh/libjpeg-turbo-1.2.90/rdbmp.c
No license file was found, but licenses were detected in source scan.

/**
 * jdcolor.c
 *
 * This file was part of the Independent JPEG Group's software:
 * Copyright (C) 1991-1997, Thomas G. Lane.
 * Modified 2011 by Guido Vollbeding.
 * Modifications:
 * Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB
 * Copyright (C) 2009, 2011-2012, D. R. Commander.
 * 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/1103682335_1604392439.32/0/libjpeg-turbo-1.2.90-6.el7.src.rpm-cosi-expand-archive-v8mkKdjM/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-niYAIlIdh/libjpeg-turbo-1.2.90/jdcolor.c
No license file was found, but licenses were detected in source scan.

/
* jdctred.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 inverse-DCT routines that produce reduced-size output:
* either 4x4, 2x2, or 1x1 pixels from an 8x8 DCT block.
* The implementation is based on the Loeffler, Ligtenberg and Moschytz (LL&M)
* algorithm used in jidctint.c. We simply replace each 8-to-8 1-D IDCT step
* with an 8-to-4 step that produces the four averages of two adjacent outputs
* (or an 8-to-2 step producing two averages of four outputs, for 2x2 output).
* These steps were derived by computing the corresponding values at the end
* of the normal LL&M code, then simplifying as much as possible.
* 1x1 is trivial: just take the DC coefficient divided by 8.
* See jdctint.c for additional comments.
*/

Found in path(s):
* /opt/cola/permits/1103682335_1604392439.32/0/libjpeg-turbo-1.2.90-6.el7.src.rpm-cosi-expand-archive-v8mkKdjM/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-niYAIlIdh/libjpeg-turbo-1.2.90/jdctred.c
No license file was found, but licenses were detected in source scan.

/
* jdhuff.c
*
* This file was part of the Independent JPEG Group's software:
* Copyright (C) 1991-1997, Thomas G. Lane.
* Modifications:
* Copyright (C) 2009-2011, D. R. Commander.
* For conditions of distribution and use, see the accompanying README file.
* This file contains Huffman entropy decoding routines.
* Much of the complexity here has to do with supporting input suspension.

---

Open Source Used In Cisco VSM 7.14.2  23244
* 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/1103682335_1604392439.32/0/libjpeg-turbo-1.2.90-6.el7.src.rpm-cosi-expand-archive-
v8mkKdjM/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-niYAlldh/libjpeg-turbo-1.2.90/jdhuff.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/1103682335_1604392439.32/0/libjpeg-turbo-1.2.90-6.el7.src.rpm-cosi-expand-archive-
v8mkKdjM/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-niYAlldh/libjpeg-turbo-1.2.90/jmemmgr.c
No license file was found, but licenses were detected in source scan.

/*
* jpegcomp.h
* *
* Copyright (C) 2010, D. R. Commander
* For conditions of distribution and use, see the accompanying README file.
*
* JPEG compatibility macros
* 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/1103682335_1604392439.32/0/libjpeg-turbo-1.2.90-6.el7.src.rpm-cosi-expand-archive-
v8mkKdjM/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-niYAlldh/libjpeg-turbo-1.2.90/jpegcomp.h
No license file was found, but licenses were detected in source scan.

IJG JPEG LIBRARY: SYSTEM ARCHITECTURE

Copyright (C) 1991-2012, Thomas G. Lane, Guido Vollbeding.
This file was part of the Independent JPEG Group's software.
It was modified by The libjpeg-turbo Project to include only information
relevant to libjpeg-turbo.
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 V̄ sample rows afterwards (remember V̄ 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 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 |--|
```

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 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:

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_PERMENANT 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'etre 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
detailed 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):

\text{jpeg_mem_init, jpeg_mem_term} \text{system-dependent initialization/shutdown}

\text{jpeg_get_small, jpeg_free_small} \text{interface to malloc and free library routines}
(or their equivalents)

\text{jpeg_get_large, jpeg_free_large} \text{interface to FAR malloc/free in MS-DOS machines;}
else usually the same as
\text{jpeg_get_small/jpeg_free_small}

\text{jpeg_mem_available} \text{estimate available memory}

\text{jpeg_open_backing_store} \text{create a backing-store object}

\text{read_backing_store, manipulate a backing-store object}
\text{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). \text{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 \text{self_destruct} (typically via
\text{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.
/* 
* 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/1103682335_1604392439.32/0/libjpeg-turbo-1.2.90-6.el7.src.rpm-cosi-expand-archive-v8mkKdjM/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-niYAILdh/libjpeg-turbo-1.2.90/rdgif.c

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

/* 
* jdcoeffct.c 
*
* This file was part of the Independent JPEG Group's software:
* Copyright (C) 1994-1997, Thomas G. Lane.
* Modifications:
* Copyright (C) 2010, D. R. Commander.
* 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.
*/
/*
 * 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.
 */

/*
 * jdmarker.c
 *
 * This file was part of the Independent JPEG Group's software:
 * Copyright (C) 1991-1998, Thomas G. Lane.
 * Modifications:
 * Copyright (C) 2012, D. R. Commander.
 * 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.
 */

/*
 * jcsample.c
 */
* Copyright (C) 1991-1996, Thomas G. Lane.
* Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB
* 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/1103682335_1604392439.32/0/libjpeg-turbo-1.2.90-6.el7.src.rpm-cosi-expand-archive-
No license file was found, but licenses were detected in source scan.

/*
* jpegtran.c
*
* This file was part of the Independent JPEG Group's software:
* Copyright (C) 1995-2010, Thomas G. Lane, Guido Vollbeding.
* Modifications:
* Copyright (C) 2010, D. R. Commander.
* 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):
*/

/*
* 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 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/1103682335_1604392439.32/0/libjpeg-turbo-1.2.90-6.el7.src.rpm-cosi-expand-archive-
v8mkKdjM/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-niYAIldh/libjpeg-turbo-1.2.90/rdcolmap.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/1103682335_1604392439.32/0/libjpeg-turbo-1.2.90-6.el7.src.rpm-cosi-expand-archive-
v8mkKdjM/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-niYAIldh/libjpeg-turbo-1.2.90/jdpostct.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/1103682335_1604392439.32/0/libjpeg-turbo-1.2.90-6.el7.src.rpm-cosi-expand-archive-
v8mkKdjM/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-niYAlldh/libjpeg-turbo-1.2.90/jinclude.h
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/1103682335_1604392439.32/0/libjpeg-turbo-1.2.90-6.el7.src.rpm-cosi-expand-archive-
v8mkKdjM/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-niYAlldh/libjpeg-turbo-1.2.90/jerror.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/1103682335_1604392439.32/0/libjpeg-turbo-1.2.90-6.el7.src.rpm-cosi-expand-archive-
v8mkKdjM/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-niYAIIdh/libjpeg-turbo-1.2.90/jpegint.h
No license file was found, but licenses were detected in source scan.

/*
 * rdswitch.c
 *
 * This file was part of the Independent JPEG Group's software:
 * Copyright (C) 1991-1996, Thomas G. Lane.
 * Modifications:
 * Copyright (C) 2010, D. R. Commander.
 * 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 fileRead quantization tables from text file
 * -scans fileRead 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/1103682335_1604392439.32/0/libjpeg-turbo-1.2.90-6.el7.src.rpm-cosi-expand-archive-
v8mkKdjM/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-niYAIIdh/libjpeg-turbo-1.2.90/rdswitch.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 stdout stream.
 *
 * This code contributed by James Arthur Boucher.
 */

Found in path(s):
* /opt/cola/permits/1103682335_1604392439.32/0/libjpeg-turbo-1.2.90-6.el7.src.rpm-cosi-expand-archive-v8mkKdjM/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-niYAlldh/libjpeg-turbo-1.2.90/wrbmp.c
No license file was found, but licenses were detected in source scan.

```
\fonttbl\f0\fswiss\fcharset0 Helvetica;\f1\fswiss\fcharset0 Times;\f2\fswiss\fcharset0 Courier
\color{black}{\fonttbl\f0\fswiss\fcharset0 Helvetica;\f1\fswiss\fcharset0 Times;\f2\fswiss\fcharset0 Courier}
\margl1440\margr1440\vieww26380\viewh15840\viewkind0
\deftab720
\pard\deftab720\ql\qnatural
\f0\fs24 \cf0 libjpeg-turbo is a JPEG image codec that uses SIMD instructions (MMX, SSE2, NEON) to accelerate baseline JPEG compression and decompression on x86, x86-64, and ARM systems. On such systems, libjpeg-turbo is generally 2-4x as fast as libjpeg, all else being equal. On other types of systems, libjpeg-turbo can still outperform libjpeg by a significant amount, by virtue of its highly-optimized Huffman coding routines. In many cases, the performance of libjpeg-turbo rivals that of proprietary high-speed JPEG codecs.

libjpeg-turbo implements both the traditional libjpeg API as well as the less powerful but more straightforward TurboJPEG API. libjpeg-turbo also features colorspace extensions that allow it to compress from/decompress to 32-bit and big-endian pixel buffers (RGBX, XBGR, etc.), as well as a full-featured Java interface.

libjpeg-turbo was originally based on libjpeg/SIMD, an MMX-accelerated derivative of libjpeg v6b developed by Miyasaka Masaru. The TigerVNC and VirtualGL projects made numerous enhancements to the codec in 2009, and in early 2010, libjpeg-turbo spun off into an independent project, with the goal of making high-speed JPEG compression/decompression technology available to a broader range of users and developers.

Found in path(s):
* /opt/cola/permits/1103682335_1604392439.32/0/libjpeg-turbo-1.2.90-6.el7.src.rpm-cosi-expand-archive-v8mkKdjM/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-niYAlldh/libjpeg-turbo-1.2.90/release/ReadMe.rtf
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):
*/

* 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):

*/

* rdrle.c
*
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.

Based on the x86 SIMD extension for IJG JPEG library,
Copyright (C) 1999-2006, MIYASAKA Masaru.
For conditions of distribution and use, see copyright notice in jsimdext.inc

This file contains the interface between the "normal" portions
of the library and the SIMD implementations when running on a
x86_64 architecture.
* Based on the x86 SIMD extension for IJG JPEG library,
* Copyright (C) 1999-2006, MIYASAKA Masaru.
* For conditions of distribution and use, see copyright notice in jsimdext.inc
* 
*/

Found in path(s):
* /opt/cola/permits/1103682335_1604392439.32/0/libjpeg-turbo-1.2.90-6.el7.src.rpm-cosi-expand-archive-
v8mkKdjM/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-niYAIldh/libjpeg-turbo-1.2.90/jsimd.h
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/1103682335_1604392439.32/0/libjpeg-turbo-1.2.90-6.el7.src.rpm-cosi-expand-archive-
v8mkKdjM/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-niYAIldh/libjpeg-turbo-1.2.90/jmemsys.h
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 jpeg/doc/cstyle.ms.tbl.Z, or cstyle.txt.Z for those without nroff/tbl).

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:

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/1103682335_1604392439.32/0/libjpeg-turbo-1.2.90-6.el7.src.rpm-cosi-expand-archive-v8mkKdjM/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-niYAIldh/libjpeg-turbo-1.2.90/coderules.txt
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/1103682335_1604392439.32/0/libjpeg-turbo-1.2.90-6.el7.src.rpm-cosi-expand-archive-v8mkKdjM/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-niYAIldh/libjpeg-turbo-1.2.90/jcapistd.c
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.
*/

Found in path(s):
* /opt/cola/permits/1103682335_1604392439.32/0/libjpeg-turbo-1.2.90-6.el7.src.rpm-cosi-expand-archive-
v8mkKdjM/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-niYAlldh/libjpeg-turbo-1.2.90/jerror.h
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/1103682335_1604392439.32/0/libjpeg-turbo-1.2.90-6.el7.src.rpm-cosi-expand-archive-
v8mkKdjM/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-niYAlldh/libjpeg-turbo-1.2.90/jcarith.c
No license file was found, but licenses were detected in source scan.

// Natural Docs is licensed under the GPL.

Found in path(s):
* /opt/cola/permits/1103682335_1604392439.32/0/libjpeg-turbo-1.2.90-6.el7.src.rpm-cosi-expand-archive-
v8mkKdjM/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-niYAlldh/libjpeg-turbo-1.2.90/doc/html/search/search.js
No license file was found, but licenses were detected in source scan.

; For conditions of distribution and use, see copyright notice in jsimdext.inc

Found in path(s):
* /opt/cola/permits/1103682335_1604392439.32/0/libjpeg-turbo-1.2.90-6.el7.src.rpm-cosi-expand-archive-
v8mkKdjM/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-niYAlldh/libjpeg-turbo-1.2.90/simd/jcsamss2-64.asm
* /opt/cola/permits/1103682335_1604392439.32/0/libjpeg-turbo-1.2.90-6.el7.src.rpm-cosi-expand-archive-
v8mkKdjM/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-niYAlldh/libjpeg-turbo-1.2.90/simd/jimmxred.asm
* /opt/cola/permits/1103682335_1604392439.32/0/libjpeg-turbo-1.2.90-6.el7.src.rpm-cosi-expand-archive-
v8mkKdjM/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-niYAlldh/libjpeg-turbo-1.2.90/simd/jf3dnflt.asm

Open Source Used In Cisco VSM 7.14.2 23280
*/

* /opt/cola/permits/1103682335_1604392439.32/0/libjpeg-turbo-1.2.90-6.el7.src.rpm-cosi-expand-archive-v8mkKdjM/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-niYAlldh/libjpeg-turbo-1.2.90/simd/jdclrss2.asm
* /opt/cola/permits/1103682335_1604392439.32/0/libjpeg-turbo-1.2.90-6.el7.src.rpm-cosi-expand-archive-v8mkKdjM/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-niYAlldh/libjpeg-turbo-1.2.90/simd/jdmrgss2.asm
* /opt/cola/permits/1103682335_1604392439.32/0/libjpeg-turbo-1.2.90-6.el7.src.rpm-cosi-expand-archive-v8mkKdjM/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-niYAlldh/libjpeg-turbo-1.2.90/simd/jcgrass2.asm
* /opt/cola/permits/1103682335_1604392439.32/0/libjpeg-turbo-1.2.90-6.el7.src.rpm-cosi-expand-archive-v8mkKdjM/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-niYAlldh/libjpeg-turbo-1.2.90/simd/jcclrss2.asm
* /opt/cola/permits/1103682335_1604392439.32/0/libjpeg-turbo-1.2.90-6.el7.src.rpm-cosi-expand-archive-v8mkKdjM/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-niYAlldh/libjpeg-turbo-1.2.90/simd/jccolss2.asm
* /opt/cola/permits/1103682335_1604392439.32/0/libjpeg-turbo-1.2.90-6.el7.src.rpm-cosi-expand-archive-v8mkKdjM/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-niYAlldh/libjpeg-turbo-1.2.90/simd/jcclrss2-64.asm
* /opt/cola/permits/1103682335_1604392439.32/0/libjpeg-turbo-1.2.90-6.el7.src.rpm-cosi-expand-archive-v8mkKdjM/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-niYAlldh/libjpeg-turbo-1.2.90/simd/jcclrss2-64.asm
* /opt/cola/permits/1103682335_1604392439.32/0/libjpeg-turbo-1.2.90-6.el7.src.rpm-cosi-expand-archive-v8mkKdjM/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-niYAlldh/libjpeg-turbo-1.2.90/simd/jcgryss2.asm
* /opt/cola/permits/1103682335_1604392439.32/0/libjpeg-turbo-1.2.90-6.el7.src.rpm-cosi-expand-archive-v8mkKdjM/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-niYAlldh/libjpeg-turbo-1.2.90/simd/jcsamss2.asm
* /opt/cola/permits/1103682335_1604392439.32/0/libjpeg-turbo-1.2.90-6.el7.src.rpm-cosi-expand-archive-v8mkKdjM/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-niYAlldh/libjpeg-turbo-1.2.90/simd/jdmermmx.asm
* /opt/cola/permits/1103682335_1604392439.32/0/libjpeg-turbo-1.2.90-6.el7.src.rpm-cosi-expand-archive-v8mkKdjM/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-niYAlldh/libjpeg-turbo-1.2.90/simd/jccolmmx.asm
* /opt/cola/permits/1103682335_1604392439.32/0/libjpeg-turbo-1.2.90-6.el7.src.rpm-cosi-expand-archive-v8mkKdjM/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-niYAlldh/libjpeg-turbo-1.2.90/simd/jdmermmx.asm
* /opt/cola/permits/1103682335_1604392439.32/0/libjpeg-turbo-1.2.90-6.el7.src.rpm-cosi-expand-archive-v8mkKdjM/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-niYAlldh/libjpeg-turbo-1.2.90/simd/jccolmmx.asm
* /opt/cola/permits/1103682335_1604392439.32/0/libjpeg-turbo-1.2.90-6.el7.src.rpm-cosi-expand-archive-v8mkKdjM/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-niYAlldh/libjpeg-turbo-1.2.90/simd/jdmrgss2-64.asm
* /opt/cola/permits/1103682335_1604392439.32/0/libjpeg-turbo-1.2.90-6.el7.src.rpm-cosi-expand-archive-v8mkKdjM/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-niYAlldh/libjpeg-turbo-1.2.90/simd/jcdolmmx.asm
* /opt/cola/permits/1103682335_1604392439.32/0/libjpeg-turbo-1.2.90-6.el7.src.rpm-cosi-expand-archive-v8mkKdjM/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-niYAlldh/libjpeg-turbo-1.2.90/simd/jdmerss2-64.asm
* /opt/cola/permits/1103682335_1604392439.32/0/libjpeg-turbo-1.2.90-6.el7.src.rpm-cosi-expand-archive-v8mkKdjM/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-niYAlldh/libjpeg-turbo-1.2.90/simd/jsimdcpu.asm
* /opt/cola/permits/1103682335_1604392439.32/0/libjpeg-turbo-1.2.90-6.el7.src.rpm-cosi-expand-archive-v8mkKdjM/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-niYAlldh/libjpeg-turbo-1.2.90/simd/jdsammmx.asm

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

/*
 * jdapistd.c
 */

* This file was part of the Independent JPEG Group's software:
* Copyright (C) 1994-1996, Thomas G. Lane.
* Modifications:
* Copyright (C) 2010, D. R. Commander.
* 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/1103682335_1604392439.32/0/libjpeg-turbo-1.2.90-6.el7.src.rpm-cosi-expand-archive-
v8mkKdjM/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-niYAlldh/libjpeg-turbo-1.2.90/jdapistd.c
No license file was found, but licenses were detected in source scan.

/ *
  * jcdctmgr.c
  *
  * This file was part of the Independent JPEG Group's software:
  * Copyright (C) 1994-1996, Thomas G. Lane.
  * Modifications:
  * Copyright (C) 1999-2006, MIYASAKA Masaru.
  * Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB
  * Copyright (C) 2011 D. R. Commander
  * 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/1103682335_1604392439.32/0/libjpeg-turbo-1.2.90-6.el7.src.rpm-cosi-expand-archive-
v8mkKdjM/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-niYAlldh/libjpeg-turbo-1.2.90/jcdctmgr.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/1103682335_1604392439.32/0/libjpeg-turbo-1.2.90-6.el7.src.rpm-cosi-expand-archive-
v8mkKdjM/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-nYAlldh/libjpeg-turbo-1.2.90/jcomapi.c
No license file was found, but licenses were detected in source scan.

/*
* cjpeg.c
*
* This file was part of the Independent JPEG Group's software:
* Copyright (C) 1991-1998, Thomas G. Lane.
* Modifications:
* Copyright (C) 2010, 2013, D. R. Commander.
* 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/1103682335_1604392439.32/0/libjpeg-turbo-1.2.90-6.el7.src.rpm-cosi-expand-archive-
v8mkKdjM/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-nYAlldh/libjpeg-turbo-1.2.90/cjpeg.c
No license file was found, but licenses were detected in source scan.

; ; jcolsamp.inc - private declarations for color conversion & up/downsampling
; ; Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB
; ; Based on
; x86 SIMD extension for IJG JPEG library
; Copyright (C) 1999-2006, MIYASAKA Masaru.
; For conditions of distribution and use, see copyright notice in jsimdext.inc
;
; [TAB8]

; pseudo-resisters to make ordering of RGB configurable
;
%if RGB_RED == 0
%define mmA mm0
%define mmB mm1
%define xmmA xmm0
%define xmmB xmm1
%elif RGB_GREEN == 0
%define mmA mm2
%define mmB mm3
%define xmmA xmm2
%define xmmB xmm3
%elif RGB_BLUE == 0
%define mmA mm4
%define mmB mm5
%define xmmA xmm4
%define xmmB xmm5
%else
%define mmA mm6
%define mmB mm7
%define xmmA xmm6
%define xmmB xmm7
%endif

%if RGB_RED == 1
%define mmC mm0
%define mmD mm1
%define xmmCxmm0
%define xmmD xmm1
%elif RGB_GREEN == 1
%define mmC mm2
%define mmD mm3
%define xmmC xmm2
%define xmmD xmm3
%elif RGB_BLUE == 1
%define mmC mm4
%define mmD mm5
%define xmmC xmm4
%define xmmD xmm5
%else
%define mmC mm6
%define mmD mm7
%define xmmC xmm6
%define xmmD xmm7
%endif

%if RGB_RED == 2
%define mmE mm0
%define mmF mm1
%define xmmE xmm0
%define xmmF xmm1
%elif RGB_GREEN == 2
%define mmE mm2
%define mmF mm3
%define xmmE xmm2
%define xmmF xmm3
%elif RGB_BLUE == 2
%define mmE mm4
%define mmF mm5
%define xmmE xmm4
%define xmmF xmm5
%else
%define mmE mm6
%define mmF mm7
%define xmmE xmm6
%define xmmF xmm7
%endif

%if RGB_RED == 3
%define mmG mm0
%define mmH mm1
%define xmmG xmm0
%define xmmH xmm1
%elif RGB_GREEN == 3
%define mmG mm2
%define mmH mm3
%define xmmG xmm2
%define xmmH xmm3
%elif RGB_BLUE == 3
%define mmG mm4
%define mmH mm5
%define xmmG xmm4
%define xmmH xmm5
%else
%define mmG mm6
%define mmH mm7
%define xmmG xmm6
%define xmmH xmm7
%endif

; -------------------------------------------------------------

Found in path(s):
* /opt/cola/permits/1103682335_1604392439.32/0/libjpeg-turbo-1.2.90-6.el7.src.rpm-cosi-expand-archive-
v8mkKdjM/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-niYAIldh/libjpeg-turbo-1.2.90/simd/jcolsamp.inc
No license file was found, but licenses were detected in source scan.

/
* jquant2.c
 *
* This file was part of the Independent JPEG Group's software:
* Copyright (C) 1991-1996, Thomas G. Lane.
* Modifications:
* Copyright (C) 2009, D. R. Commander.
* 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/1103682335_1604392439.32/0/libjpeg-turbo-1.2.90-6.el7.src.rpm-cosi-expand-archive-
v8mkKdjM/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-niYAIldh/libjpeg-turbo-1.2.90/jquant2.c
No license file was found, but licenses were detected in source scan.

/
* jdinput.c
 *
* This file was part of the Independent JPEG Group's software:
* Copyright (C) 1991-1997, Thomas G. Lane.
* Modifications:
* Copyright (C) 2010, D. R. Commander.
* 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 jdphuff.c.
Found in path(s):
* /opt/cola/permits/1103682335_1604392439.32/0/libjpeg-turbo-1.2.90-6.el7.src.rpm-cosi-expand-archive-v8mkKdjM/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-niYAlldh/libjpeg-turbo-1.2.90/jdinput.c
No license file was found, but licenses were detected in source scan.

libjpeg-turbo note: This file has been modified by The libjpeg-turbo Project to include only information relevant to libjpeg-turbo, to wordsmith certain sections, and to remove impolitic language that existed in the libjpeg v8 README. It is included only for reference. Please see README-turbo.txt for information specific to libjpeg-turbo.

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

This distribution contains a 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 ISO/IEC JTC1/SC29/WG1 standards committee (also known as JPEG, together with ITU-T SG16).

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.
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.
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.
- `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. JPEG's strong suit is compressing photographic images or other types of images that have smooth color and brightness transitions between neighboring pixels. Images with sharp lines or other abrupt features may not compress well with JPEG, and a higher JPEG quality may have to be used to avoid visible compression artifacts with such images.

JPEG is lossy, meaning that the output pixels are not necessarily identical to the input pixels. However, on photographic content and other "smooth" images, very good compression ratios can be obtained with no visible compression artifacts, and extremely high compression ratios are possible if you are willing to sacrifice image quality (by reducing the "quality" setting in the compressor.)

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.

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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.

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.ijg.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...


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.v8d.tar.gz, and in Windows-compatible "zip" archive format as http://www.ijg.org/files/jpegsr8d.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

FILE FORMAT WARS

The ISO/IEC JTC1/SC29/WG1 standards committee (also known as JPEG, together with ITU-T SG16) currently promotes different formats containing the name "JPEG" which are incompatible with original DCT-based JPEG. IJG therefore does not support these formats (see REFERENCES). 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

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

Found in path(s):
* /opt/cola/permits/1103682335_1604392439.32/0/libjpeg-turbo-1.2.90-6.el7.src.rpm-cosi-expand-archive-
v8mkKdjM/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-niYAIldh/libjpeg-turbo-1.2.90/README
No license file was found, but licenses were detected in source scan.

/*
 * jdphuff.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 Huffman entropy decoding routines for progressive JPEG.
 *
 * 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/1103682335_1604392439.32/0/libjpeg-turbo-1.2.90-6.el7.src.rpm-cosi-expand-archive-
v8mkKdjM/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-niYAIldh/libjpeg-turbo-1.2.90/jdphuff.c
No license file was found, but licenses were detected in source scan.

/*
 * jchuff.c
 *
 * This file was part of the Independent JPEG Group's software:
 * Copyright (C) 1991-1997, Thomas G. Lane.
 * Modifications:
 * Copyright (C) 2009-2011, D. R. Commander.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains Huffman entropy encoding routines.
 *
 * 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.
 */

Found in path(s):
* /opt/cola/permits/1103682335_1604392439.32/0/libjpeg-turbo-1.2.90-6.el7.src.rpm-cosi-expand-archive-
v8mkKdjM/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-niYAIldh/libjpeg-turbo-1.2.90/jhuff.c
No license file was found, but licenses were detected in source scan.

/*
 * jsimddct.h
 *
 * Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB
 *
 * Based on the x86 SIMD extension for IJG JPEG library,
 * Copyright (C) 1999-2006, MIYASAKA Masaru.
 * For conditions of distribution and use, see copyright notice in jsimdext.inc
 *
 */

Found in path(s):
* /opt/cola/permits/1103682335_1604392439.32/0/libjpeg-turbo-1.2.90-6.el7.src.rpm-cosi-expand-archive-
v8mkKdjM/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-niYAIldh/libjpeg-turbo-1.2.90/jsimddct.h
No license file was found, but licenses were detected in source scan.

/*
 * djpeg.c
 *
 * This file was part of the Independent JPEG Group's software:
 * Copyright (C) 1991-1997, Thomas G. Lane.
 * Modifications:
 * Copyright (C) 2010-2011, 2013, D. R. Commander.
 * 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/1103682335_1604392439.32/0/libjpeg-turbo-1.2.90-6.el7.src.rpm-cosi-expand-archive-
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Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

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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 common declarations for the sample applications
cjpeg and djpeg. It is **NOT** used by the core JPEG library.
*/

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

**TurboJPEG Java Wrapper**

The TurboJPEG shared library can optionally be built with a Java Native Interface wrapper, which allows the library to be loaded and used directly from Java applications. The Java front end for this is defined in several classes located under org/libjpeg turbo/turbojpeg. The source code for these Java classes is licensed under a BSD-style license, so the files can be incorporated directly into both open source and proprietary projects without restriction. A Java archive (JAR) file containing these classes is also shipped with the "official" distribution packages of libjpeg-turbo.

TJEexample.java, which should also be located in the same directory as this README file, demonstrates how to use the TurboJPEG Java API to compress and decompress JPEG images in memory.

**Performance Pitfalls**

The TurboJPEG Java API defines several convenience methods that can allocate image buffers or instantiate classes to hold the result of compress, decompress, or transform operations. However, if you use these methods, then be mindful of the amount of new data you are creating on the heap. It may be necessary to manually invoke the garbage collector to prevent heap exhaustion or to prevent performance degradation. Background garbage collection can kill performance, particularly in a multi-threaded environment (Java pauses all threads when the GC runs.)

The TurboJPEG Java API always gives you the option of pre-allocating your own source and destination buffers, which allows you to re-use those buffers for compressing/decompressing multiple images. If the image sequence you are compressing or decompressing consists of images of the same size, then pre-allocating the buffers is recommended.
If the TurboJPEG JNI library (libturbojpeg.so, libturbojpeg.jnilib, or turbojpeg.dll) is not installed under a system library directory or under a directory specified in LD_LIBRARY_PATH (Unix) or PATH (Windows), then you will need to pass an argument of -Djava.library.path={path_to_JNI_library} to java.

Found in path(s):
* /opt/cola/permits/1103682335_1604392439.32/0/libjpeg-turbo-1.2.90-6.el7.src.rpm-cosi-expand-archive-v8mkKdjM/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-niYAIIdh/libjpeg-turbo-1.2.90/java/README
* 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 without additional resampling:
 * NxN (N=1...16) 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/1103682335_1604392439.32/0/libjpeg-turbo-1.2.90-6.el7.src.rpm-cosi-expand-archive-
v8mkKdjM/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-niYAIldh/libjpeg-turbo-1.2.90/jidctint.c
No license file was found, but licenses were detected in source scan.

USING THE IJG JPEG LIBRARY

This file was part of the Independent JPEG Group's software:
Copyright (C) 1994-2011, Thomas G. Lane, Guido Vollbeding.
Modifications:
Copyright (C) 2010, D. R. Commander.
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, 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
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

```c
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:

```
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:

```
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\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.

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 color space (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.

`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)
[libjpeg v7+ API/ABI emulation only]
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:

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.

```
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".

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]
[libjpeg v7+ API/ABI emulation only]
Linear quantization scaling factors (0-100, default 100)
for use with jpeg_default_qtables().
See rdswitch.c and cjpeg.c for an example of usage.
Note that the q_scale_factor[] values use "linear" scales, so JPEG
quality levels chosen by the user must be converted to these scales
using jpeg_quality_scaling(). Here is an example that 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);

CAUTION: Setting separate quality levels for chrominance and luminance is mainly only useful if chrominance subsampling is disabled. 2x2 chrominance subsampling (AKA "4:2:0") is the default, but you can explicitly disable subsampling as follows:

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.

[libjpeg v7+ API/ABI emulation only]
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_widthWidth and height of image
JDIMENSION image_height
int num_componentsNumber of color components
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 colorspace. 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. Default is 1/1, or no scaling. Currently, the only supported scaling ratios are M/8 with all M from 1 to 16, or any reduced fraction thereof (such as 1/2, 3/4, etc.) (The library design allows for arbitrary scaling ratios but this is not likely to be implemented any time soon.) 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).
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, do careful upsampling of chroma components. If FALSE, a faster but sloppier method is used. Default is TRUE. The visual impact of the sloppier method is often very small.

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.

```plaintext
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().

```plaintext
JDIMENSION output_width
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_colorsparse(). 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_colorsparse() 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_colorsparse(), 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. jdcnlor.c currently supports

YCbCr => RGB
YCbCr => 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:

```c
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().

```c
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.

```c
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
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 (theaddon 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
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

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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
while (! jpeg_input_complete(&cinfo))
and the start-output call should read
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_SCAN_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:

```c
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:

```c
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_quant: fixed color cube colormap
- enable_external_quant: externally-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_writeTables(&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":

---

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

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.
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.)

```c
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,
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_colorsce()
  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

\[
cinfo->comp_info[i].width_in_blocks*DCTSIZE \quad \text{samples per row}
\]
\[
cinfo->comp_info[i].height_in_blocks*DCTSIZE \quad \text{rows in image}
\]

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

\[
cinfo->comp_info[0].h_samp_factor = 2 \quad \text{for Y}
\]
\[
cinfo->comp_info[0].v_samp_factor = 2
\]
\[
cinfo->comp_info[1].h_samp_factor = 1 \quad \text{for Cb}
\]
\[
cinfo->comp_info[1].v_samp_factor = 1
\]
\[
cinfo->comp_info[2].h_samp_factor = 1 \quad \text{for Cr}
\]
\[
cinfo->comp_info[2].v_samp_factor = 1
\]

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, downsampled_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 rescaling or 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*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 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, 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
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() or

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
- 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 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 cjeg or djeg 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.
/*
 * jquant1.c
 *
 * This file was part of the Independent JPEG Group's software:
 * Copyright (C) 1991-1996, Thomas G. Lane.
 * Modifications:
 * Copyright (C) 2009, D. R. Commander
 * 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/1103682335_1604392439.32/0/libjpeg-turbo-1.2.90-6.el7.src.rpm-cosi-expand-archive-v8mkKdjM/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-niYAIldh/libjpeg-turbo-1.2.90/libjpeg.txt
No license file was found, but licenses were detected in source scan.

/*
 * jdhuff.h
 *
 * This file was part of the Independent JPEG Group's software:
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 * Modifications:
 * Copyright (C) 2010-2011, D. R. Commander.
 * For conditions of distribution and use, see the accompanying README file.
 * 
 * This file contains declarations for Huffman entropy decoding routines
 * that are shared between the sequential decoder (jdhuff.c) and the
 * progressive decoder (jdphuff.c). No other modules need to see these.
 */

Found in path(s):
* /opt/cola/permits/1103682335_1604392439.32/0/libjpeg-turbo-1.2.90-6.el7.src.rpm-cosi-expand-archive-v8mkKdjM/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-niYAIldh/libjpeg-turbo-1.2.90/jquant1.c
No license file was found, but licenses were detected in source scan.

/*
 * jsimd_arm.c
 *
 * Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB
 * Copyright 2009-2011 D. R. Commander
 */
* Based on the x86 SIMD extension for IJG JPEG library,
* Copyright (C) 1999-2006, MIYASAKA Masaru.
* For conditions of distribution and use, see copyright notice in jsimdext.inc
*
* This file contains the interface between the "normal" portions
* of the library and the SIMD implementations when running on
* ARM architecture.
*
* Based on the stubs from 'jsimd_none.c'
*/

Found in path(s):
* /opt/cola/permits/1103682335_1604392439.32/0/libjpeg-turbo-1.2.90-6.el7.src.rpm-cosi-expand-archive-v8mkKdjM/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-niYAIldh/libjpeg-turbo-1.2.90/simd/jsimd_arm.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 jcpam.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/1103682335_1604392439.32/0/libjpeg-turbo-1.2.90-6.el7.src.rpm-cosi-expand-archive-v8mkKdjM/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-niYAIldh/libjpeg-turbo-1.2.90/jcapimin.c
No license file was found, but licenses were detected in source scan.

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*
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*
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*/
* Redistributions in binary form must reproduce the above copyright notice,
  * this list of conditions and the following disclaimer in the documentation
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* Neither the name of the libjpeg-turbo Project nor the names of its
  contributors may be used to endorse or promote products derived from this
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*
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* AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
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* CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
* SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
* INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
* CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
* ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
* POSSIBILITY OF SUCH DAMAGE.
*/

Found in path(s):
  */opt/cola/permits/1103682335_1604392439.32/0/libjpeg-turbo-1.2.90-6.el7.src.rpm-cosi-expand-archive-
v8mkKdjM/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-niYAlldh/libjpeg-turbo-1.2.90/tbench.c
  */opt/cola/permits/1103682335_1604392439.32/0/libjpeg-turbo-1.2.90-6.el7.src.rpm-cosi-expand-archive-
v8mkKdjM/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-niYAlldh/libjpeg-turbo-1.2.90/tunittest.c
  */opt/cola/permits/1103682335_1604392439.32/0/libjpeg-turbo-1.2.90-6.el7.src.rpm-cosi-expand-archive-
v8mkKdjM/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-niYAlldh/libjpeg-turbo-1.2.90/turbojpeg.h
  */opt/cola/permits/1103682335_1604392439.32/0/libjpeg-turbo-1.2.90-6.el7.src.rpm-cosi-expand-archive-
v8mkKdjM/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-niYAlldh/libjpeg-turbo-1.2.90/turbojpeg.c
  */opt/cola/permits/1103682335_1604392439.32/0/libjpeg-turbo-1.2.90-6.el7.src.rpm-cosi-expand-archive-
v8mkKdjM/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-niYAlldh/libjpeg-turbo-1.2.90/java/TJBench.java

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

/*
* Copyright (C)2011 D. R. Commander. All Rights Reserved.
*
* Redistribution and use in source and binary forms, with or without
* modification, are permitted provided that the following conditions are met:
*
* - Redistributions of source code must retain the above copyright notice,
*   this list of conditions and the following disclaimer.
* - Redistributions in binary form must reproduce the above copyright notice,
*   this list of conditions and the following disclaimer in the documentation
*   and/or other materials provided with the distribution.
* - Neither the name of the libjpeg-turbo Project nor the names of its
*   contributors may be used to endorse or promote products derived from this
*   software without specific prior written permission.
*/
package org.libjpegturbo.turbojpeg;

final class TJLoader {
    static void load() {
        System.loadLibrary("@TURBOJPEG_DLL_NAME@");
    }
};

Found in path(s):
* /opt/cola/permits/1103682335_1604392439.32/0/libjpeg-turbo-1.2.90-6.el7.src.rpm-cosi-expand-archive-
v8mkKdjM/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-niYAIldh/libjpeg-turbo-1.2.90/java/org/libjpegturbo/turbojpeg/TJLoader.java.in
No license file was found, but licenses were detected in source scan.

/*
 * rdtarga.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 Targa format.
 * These routines may need modification for non-Unix environments or
 * specialized applications. As they stand, they assume input from
 * an ordinary stdin 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/1103682335_1604392439.32/0/libjpeg-turbo-1.2.90-6.el7.src.rpm-cosi-expand-archive-
v8mkKdjM/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-niYAlIdh/libjpeg-turbo-1.2.90/rdtarga.c
No license file was found, but licenses were detected in source scan.

/ *
 * jdatasrc-tj.c
 *

 * This file was part of the Independent JPEG Group's software:
 * Copyright (C) 1994-1996, Thomas G. Lane.
 * Modifications:
 * Copyright (C) 2011, D. R. Commander.
 * 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/1103682335_1604392439.32/0/libjpeg-turbo-1.2.90-6.el7.src.rpm-cosi-expand-archive-v8mkKdjM/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-niYAlIdh/libjpeg-turbo-1.2.90/jdatasrc-tj.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/1103682335_1604392439.32/0/libjpeg-turbo-1.2.90-6.el7.src.rpm-cosi-expand-archive-v8mkKdjM/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-niYAlIdh/libjpeg-turbo-1.2.90/jdct.h
No license file was found, but licenses were detected in source scan.

libjpeg-turbo note: This image was extracted from the 8-bit nightshot_iso_100 image. The original can be downloaded at the link below.
The New Image Compression Test Set - Jan 2008
http://www.imagecompression.info/test_images

The images historically used for compression research (lena, barbra, pepper etc...) have outlived their useful life and its about time they become a part of history only. They are too small, come from data sources too old and are available in only 8-bit precision.

These images have been carefully selected to aid in image compression algorithm research and evaluation. These are photographic images chosen to come from a wide variety of sources and each one picked to stress different aspects of algorithms. Images are available in 8-bit, 16-bit and 16-bit linear variations, RGB and gray.

Images are available without any prohibitive copyright restrictions.

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2. Altered versions must be plainly marked as such, and must not be misinterpreted as being the originals.
3. No payment is required for distribution this material, it must be available freely under the conditions stated here. That is, it is prohibited to sell the material.
4. This notice may not be removed or altered from any distribution.

Acknowledgments: A lot of people contributed a lot of time and effort in making this test set possible. Thanks to everyone who voiced their opinion in any of the discussions online. Thanks to Axel Becker, Thomas Richter and Niels Frhling for their extensive help in picking images, running all the various tests etc... Thanks to Pete Fraser, Tony Story, Wayne J. Cosshall, David Coffin, Bruce Lindbloom and raw.fotosite.pl for the images which make up this set.

Sachin Garg [India]
sachingarg@c10n.info


Found in path(s):
* /opt/cola/permits/1103682335_1604392439.32/0/libjpeg-turbo-1.2.90-6.el7.src.rpm-cosi-expand-archive-v8mkKdjM/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-niYAIldh/libjpeg-turbo-1.2.90/testimages/nighthot_iso_100.txt

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

1.2.90 (1.3 beta1)
=================================

[1] Added support for additional scaling factors (3/8, 5/8, 3/4, 7/8, 9/8, 5/4, 11/8, 3/2, 13/8, 7/4, 15/8, and 2) when decompressing. Note that the IDCT will not be SIMD-accelerated when using any of these new scaling factors.
2. The TurboJPEG dynamic library is now versioned. It was not strictly necessary to do so, because TurboJPEG uses versioned symbols, and if a function changes in an ABI-incompatible way, that function is renamed and a legacy function is provided to maintain backward compatibility. However, certain Linux distro maintainers will blindly reject any library that is not versioned, so this was an attempt to make them happy.

3. Extended the TurboJPEG Java API so that it can be used to compress a JPEG image from and decompress a JPEG image to an arbitrary position in a large image buffer.

4. The tjDecompressToYUV() function now supports the TJFLAG_FASTDCT flag.

5. The 32-bit supplementary package for amd64 Debian systems now provides symlinks in /usr/lib/i386-linux-gnu for the TurboJPEG libraries in /usr/lib32. This allows those libraries to be used on MultiArch-compatible systems (such as Ubuntu 11 and later) without setting the linker path.

6. The TurboJPEG Java wrapper should now find the JNI library on Mac systems without having to pass -Djava.library.path=/usr/lib to java.

7. TJBench has been ported to Java to provide a convenient way of validating the performance of the TurboJPEG Java API. It can be run with 'java -cp turbojpeg.jar TJBench'.

8. cjpeg can now be used to generate JPEG files with the RGB colorspace (feature ported from jpeg-8d.)

9. The width and height in the -crop argument passed to jpegtran can now be suffixed with "f" to indicate that, when the upper left corner of the cropping region is automatically moved to the nearest iMCU boundary, the bottom right corner should be moved by the same amount. In other words, this feature causes jpegtran to strictly honor the specified width/height rather than the specified bottom right corner (feature ported from jpeg-8d.)

10. JPEG files using the RGB colorspace can now be decompressed into grayscale images (feature ported from jpeg-8d.)

11. Fixed a regression caused by 1.2.1[7] whereby the build would fail with multiple "Mismatch in operand sizes" errors when attempting to build the x86 SIMD code with NASM 0.98.

12. The in-memory source/destination managers (jpeg_mem_src() and jpeg_mem_dest()) are now included by default when building libjpeg-turbo with libjpeg v6b or v7 emulation, so that programs can take advantage of these functions without requiring the use of the backward-incompatible libjpeg v8 ABI. The "age number" of the libjpeg-turbo library on Un*x systems has been incremented by 1 to reflect this. You can disable this feature with a
configure/CMake switch in order to retain strict API/ABI compatibility with the libjpeg v6b or v7 API/ABI (or with previous versions of libjpeg-turbo.) See README-turbo.txt for more details.

[13] Added ARM v7s architecture to libjpeg.a and libturbojpeg.a in the official libjpeg-turbo binary package for OS X, so that those libraries can be used to build applications that leverage the faster CPUs in the iPhone 5 and iPad 4.

1.2.1
=====

[1] Creating or decoding a JPEG file that uses the RGB colorspace should now properly work when the input or output colorspace is one of the libjpeg-turbo colorspace extensions.

[2] When libjpeg-turbo was built without SIMD support and merged (non-fancy) upsampling was used along with an alpha-enabled colorspace during decompression, the unused byte of the decompressed pixels was not being set to 0xFF. This has been fixed. TJUnitTest has also been extended to test for the correct behavior of the colorspace extensions when merged upsampling is used.

[3] Fixed a bug whereby the libjpeg-turbo SSE2 SIMD code would not preserve the upper 64 bits of xmm6 and xmm7 on Win64 platforms, which violated the Win64 calling conventions.

[4] Fixed a regression caused by 1.2.0[6] whereby decompressing corrupt JPEG images (specifically, images in which the component count was erroneously set to a large value) would cause libjpeg-turbo to segfault.

[5] Worked around a severe performance issue with "Bobcat" (AMD Embedded APU) processors. The MASKMOVDQU instruction, which was used by the libjpeg-turbo SSE2 SIMD code, is apparently implemented in microcode on AMD processors, and it is painfully slow on Bobcat processors in particular. Eliminating the use of this instruction improved performance by an order of magnitude on Bobcat processors and by a small amount (typically 5%) on AMD desktop processors.

[6] Added SIMD acceleration for performing 4:2:2 upsampling on NEON-capable ARM platforms. This speeds up the decompression of 4:2:2 JPEGs by 20-25% on such platforms.

[7] Fixed a regression caused by 1.2.0[2] whereby, on Linux/x86 platforms running the 32-bit SSE2 SIMD code in libjpeg-turbo, decompressing a 4:2:0 or 4:2:2 JPEG image into a 32-bit (RGBX, BGRX, etc.) buffer without using fancy upsampling would produce several incorrect columns of pixels at the right-hand side of the output image if each row in the output image was not evenly divisible by 16 bytes.
Fixed an issue whereby attempting to build the SIMD extensions with Xcode 4.3 on OS X platforms would cause NASM to return numerous errors of the form “"%define' expects a macro identifier”.

Added flags to the TurboJPEG API that allow the caller to force the use of either the fast or the accurate DCT/IDCT algorithms in the underlying codec.

1.2.0
=====

Fixed build issue with YASM on Unix systems (the libjpeg-turbo build system was not adding the current directory to the assembler include path, so YASM was not able to find jsimd.h).

Fixed out-of-bounds read in SSE2 SIMD code that occurred when decompressing a JPEG image to a bitmap buffer whose size was not a multiple of 16 bytes. This was more of an annoyance than an actual bug, since it did not cause any actual run-time problems, but the issue showed up when running libjpeg-turbo in valgrind. See http://crbug.com/72399 for more information.

Added a compile-time macro (LIBJPEG_TURBO_VERSION) that can be used to check the version of libjpeg-turbo against which an application was compiled.

Added new RGBA/BGRA/ABGR/ARGB colorspace extension constants (libjpeg API) and pixel formats (TurboJPEG API), which allow applications to specify that, when decompressing to a 4-component RGB buffer, the unused byte should be set to 0xFF so that it can be interpreted as an opaque alpha channel.

Fixed regression issue whereby DevIL failed to build against libjpeg-turbo because libjpeg-turbo's distributed version of jconfig.h contained an INLINE macro, which conflicted with a similar macro in DevIL. This macro is used only internally when building libjpeg-turbo, so it was moved into config.h.

libjpeg-turbo will now correctly decompress erroneous CMYK/YCCK JPEGs whose K component is assigned a component ID of 1 instead of 4. Although these files are in violation of the spec, other JPEG implementations handle them correctly.

Added ARM v6 and ARM v7 architectures to libjpeg.a and libturbojpeg.a in the official libjpeg-turbo binary package for OS X, so that those libraries can be used to build both OS X and iOS applications.

1.1.90 (1.2 beta1)
==================

Added a Java wrapper for the TurboJPEG API. See java/README for more.
The TurboJPEG API can now be used to scale down images during decompression.

Added SIMD routines for RGB-to-grayscale color conversion, which significantly improves the performance of grayscale JPEG compression from an RGB source image.

Improved the performance of the C color conversion routines, which are used on platforms for which SIMD acceleration is not available.

Added a function to the TurboJPEG API that performs lossless transforms. This function is implemented using the same back end as jpegtran, but it performs transcoding entirely in memory and allows multiple transforms and/or crop operations to be batched together, so the source coefficients only need to be read once. This is useful when generating image tiles from a single source JPEG.

Added tests for the new TurboJPEG scaled decompression and lossless transform features to tjbench (the TurboJPEG benchmark, formerly called "jpgtest").

Added support for 4:4:0 (transposed 4:2:2) subsampling in TurboJPEG, which was necessary in order for it to read 4:2:2 JPEG files that had been losslessly transposed or rotated 90 degrees.

All legacy VirtualGL code has been re-factored, and this has allowed libjpeg-turbo, in its entirety, to be re-licensed under a BSD-style license.

libjpeg-turbo can now be built with YASM.

Added SIMD acceleration for ARM Linux and iOS platforms that support NEON instructions.

Refactored the TurboJPEG C API and documented it using Doxygen. The TurboJPEG 1.2 API uses pixel formats to define the size and component order of the uncompressed source/destination images, and it includes a more efficient version of TJBUFSIZE() that computes a worst-case JPEG size based on the level of chrominance subsampling. The refactored implementation of the TurboJPEG API now uses the libjpeg memory source and destination managers, which allows the TurboJPEG compressor to grow the JPEG buffer as necessary.

Eliminated errors in the output of jpegtran on Windows that occurred when the application was invoked using I/O redirection (jpegtran <input.jpg >output.jpg).

The inclusion of libjpeg v7 and v8 emulation as well as arithmetic coding...
Open Source Used In Cisco VSM 7.14.2

support in libjpeg-turbo v1.1.0 introduced several new error constants in jerror.h, and these were mistakenly enabled for all emulation modes, causing the error enum in libjpeg-turbo to sometimes have different values than the same enum in libjpeg. This represents an ABI incompatibility, and it caused problems with rare applications that took specific action based on a particular error value. The fix was to include the new error constants conditionally based on whether libjpeg v7 or v8 emulation was enabled.

[14] Fixed an issue whereby Windows applications that used libjpeg-turbo would fail to compile if the Windows system headers were included before jpeglib.h. This issue was caused by a conflict in the definition of the INT32 type.

[15] Fixed 32-bit supplementary package for amd64 Debian systems, which was broken by enhancements to the packaging system in 1.1.

[16] When decompressing a JPEG image using an output colorspace of JCS_EXT_RGBX, JCS_EXT_BGRX, JCS_EXT_XBGR, or JCS_EXT_XRGB, libjpeg-turbo will now set the unused byte to 0xFF, which allows applications to interpret that byte as an alpha channel (0xFF = opaque).

1.1.1
=====

[1] Fixed a 1-pixel error in row 0, column 21 of the luminance plane generated by tjEncodeYUV().

[2] libjpeg-turbo's accelerated Huffman decoder previously ignored unexpected markers found in the middle of the JPEG data stream during decompression. It will now hand off decoding of a particular block to the unaccelerated Huffman decoder if an unexpected marker is found, so that the unaccelerated Huffman decoder can generate an appropriate warning.

[3] Older versions of MinGW64 prefixed symbol names with underscores by default, which differed from the behavior of 64-bit Visual C++. MinGW64 1.0 has adopted the behavior of 64-bit Visual C++ as the default, so to accommodate this, the libjpeg-turbo SIMD function names are no longer prefixed with an underscore when building with MinGW64. This means that, when building libjpeg-turbo with older versions of MinGW64, you will now have to add -fno-leading-underscore to the CFLAGS.

[4] Fixed a regression bug in the NSIS script that caused the Windows installer build to fail when using the Visual Studio IDE.

[5] Fixed a bug in jpeg_read_coefficients() whereby it would not initialize cinfo->image_width and cinfo->image_height if libjpeg v7 or v8 emulation was enabled. This specifically caused the jpegoptim program to fail if it was linked against a version of libjpeg-turbo that was built with libjpeg v7 or v8.
emulation.


[7] Eliminated errors in the output of cjpeg on Windows that occurred when the application was invoked using I/O redirection (cjpeg <inputfile >output.jpg).

1.1.0
=====

[1] The algorithm used by the SIMD quantization function cannot produce correct results when the JPEG quality is >= 98 and the fast integer forward DCT is used. Thus, the non-SIMD quantization function is now used for those cases, and libjpeg-turbo should now produce identical output to libjpeg v6b in all cases.

[2] Despite the above, the fast integer forward DCT still degrades somewhat for JPEG qualities greater than 95, so the TurboJPEG wrapper will now automatically use the slow integer forward DCT when generating JPEG images of quality 96 or greater. This reduces compression performance by as much as 15% for these high-quality images but is necessary to ensure that the images are perceptually lossless. It also ensures that the library can avoid the performance pitfall created by [1].

[3] Ported jpgtest.cxx to pure C to avoid the need for a C++ compiler.


[5] The Windows distribution packages now include the libjpeg run-time programs (cjpeg, etc.)

[6] All packages now include jpgtest.


[8] Added two new TurboJPEG API functions, tjEncodeYUV() and tjDecompressToYUV(), to replace the somewhat hackish TJ_YUV flag.

1.0.90 (1.1 beta1)
================

[1] Added emulation of the libjpeg v7 and v8 APIs and ABIs. See README-turbo.txt for more details. This feature was sponsored by CamTrace SAS.

[3] Grayscale bitmaps can now be compressed from/decompressed to using the TurboJPEG API.

[4] jpgtest can now be used to test decompression performance with existing JPEG images.

[5] If the default install prefix (/opt/libjpeg-turbo) is used, then 'make install' now creates /opt/libjpeg-turbo/lib32 and /opt/libjpeg-turbo/lib64 sym links to duplicate the behavior of the binary packages.

[6] All symbols in the libjpeg-turbo dynamic library are now versioned, even when the library is built with libjpeg v6b emulation.

[7] Added arithmetic encoding and decoding support (can be disabled with configure or CMake options)

[8] Added a TJ_YUV flag to the TurboJPEG API, which causes both the compressor and decompressor to output planar YUV images.

[9] Added an extended version of tjDecompressHeader() to the TurboJPEG API, which allows the caller to determine the type of subsampling used in a JPEG image.

[10] Added further protections against invalid Huffman codes.

1.0.1
=====

[1] The Huffman decoder will now handle erroneous Huffman codes (for instance, from a corrupt JPEG image.) Previously, these would cause libjpeg-turbo to crash under certain circumstances.

[2] Fixed typo in SIMD dispatch routines that was causing 4:2:2 upsampling to be used instead of 4:2:0 when decompressing JPEG images using SSE2 code.

[3] configure script will now automatically determine whether the INCOMPLETE_TYPES_BROKEN macro should be defined.

1.0.0
=====

[1] 2983700: Further FreeBSD build tweaks (no longer necessary to specify --host when configuring on a 64-bit system)
[2] Created symlinks in the Unix/Linux packages so that the TurboJPEG include file can always be found in /opt/libjpeg-turbo/include, the 32-bit static libraries can always be found in /opt/libjpeg-turbo/lib32, and the 64-bit static libraries can always be found in /opt/libjpeg-turbo/lib64.

[3] The Unix/Linux distribution packages now include the libjpeg run-time programs (cjpeg, etc.) and man pages.


[6] Include distribution package for Cygwin

[7] No longer necessary to specify --without-simd on non-x86 architectures, and unit tests now work on those architectures.

0.0.93
======

[1] 2982659, Fixed x86-64 build on FreeBSD systems

[2] 2988188: Added support for Windows 64-bit systems

0.0.91
======

[1] Added documentation to .deb packages

[2] 2968313: Fixed data corruption issues when decompressing large JPEG images and/or using buffered I/O with the libjpeg-turbo decompressor

0.0.90
======

Initial release

Found in path(s):
* /opt/cola/permits/1103682335_1604392439.32/0/libjpeg-turbo-1.2.90-6.el7.src.rpm-cosi-expand-archive-v8mkKdjM/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-niYAlldh/libjpeg-turbo-1.2.90/ChangeLog.txt
No license file was found, but licenses were detected in source scan.

/*
* jsimd_i386.c
*
* Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB
* Copyright 2009-2011 D. R. Commander
*
* Based on the x86 SIMD extension for IJG JPEG library,
* Copyright (C) 1999-2006, MIYASAKA Masaru.
* For conditions of distribution and use, see copyright notice in jsimdext.inc
*
* This file contains the interface between the "normal" portions
* of the library and the SIMD implementations when running on a
* 32-bit x86 architecture.
*/

Found in path(s):
* /opt/cola/permits/1103682335_1604392439.32/0/libjpeg-turbo-1.2.90-6.el7.src.rpm-cosi-expand-archive-
v8mkKdjM/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-niYAIIdh/libjpeg-turbo-1.2.90/simd/jsimd_i386.c
No license file was found, but licenses were detected in source scan.

/*
 * jdcolext.c
 *
 * This file was part of the Independent JPEG Group's software:
 * Copyright (C) 1991-1997, Thomas G. Lane.
 * Modifications:
 * Copyright (C) 2009, 2011, D. R. Commander.
 * 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/1103682335_1604392439.32/0/libjpeg-turbo-1.2.90-6.el7.src.rpm-cosi-expand-archive-
v8mkKdjM/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-niYAIIdh/libjpeg-turbo-1.2.90/jdcolext.c
No license file was found, but licenses were detected in source scan.

*******************************************************************************
**     Background
*******************************************************************************

libjpeg-turbo is a JPEG image codec that uses SIMD instructions (MMX, SSE2, NEON) to accelerate baseline JPEG compression and decompression on x86, x86-64, and ARM systems. On such systems, libjpeg-turbo is generally 2-4x as fast as libjpeg, all else being equal. On other types of systems, libjpeg-turbo can still outperform libjpeg by a significant amount, by virtue of its highly-optimized Huffman coding routines. In many cases, the performance of libjpeg-turbo rivals that of proprietary high-speed JPEG codecs.
libjpeg-turbo implements both the traditional libjpeg API as well as the less powerful but more straightforward TurboJPEG API. libjpeg-turbo also features colorspace extensions that allow it to compress from/decompress to 32-bit and big-endian pixel buffers (RGBX, XBGR, etc.), as well as a full-featured Java interface.

libjpeg-turbo was originally based on libjpeg/SIMD, an MMX-accelerated derivative of libjpeg v6b developed by Miyasaka Masaru. The TigerVNC and VirtualGL projects made numerous enhancements to the codec in 2009, and in early 2010, libjpeg-turbo spun off into an independent project, with the goal of making high-speed JPEG compression/decompression technology available to a broader range of users and developers.

*******************************************************************************
**     License
*******************************************************************************

Most of libjpeg-turbo inherits the non-restrictive, BSD-style license used by libjpeg (see README.) The TurboJPEG wrapper (both C and Java versions) and associated test programs bear a similar license, which is reproduced below:

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*******************************************************************************
libjpeg-turbo includes two APIs that can be used to compress and decompress JPEG images:

**TurboJPEG API:** This API provides an easy-to-use interface for compressing and decompressing JPEG images in memory. It also provides some functionality that would not be straightforward to achieve using the underlying libjpeg API, such as generating planar YUV images and performing multiple simultaneous lossless transforms on an image. The Java interface for libjpeg-turbo is written on top of the TurboJPEG API.

**libjpeg API:** This is the de facto industry-standard API for compressing and decompressing JPEG images. It is more difficult to use than the TurboJPEG API but also more powerful. The libjpeg API implementation in libjpeg-turbo is both API/ABI-compatible and mathematically compatible with libjpeg v6b. It can also optionally be configured to be API/ABI-compatible with libjpeg v7 and v8 (see below.)

There is no significant performance advantage to either API when both are used to perform similar operations.

-----------------------------
Installation Directory
-----------------------------

This document assumes that libjpeg-turbo will be installed in the default directory `/opt/libjpeg-turbo` on Unix and Mac systems and `c:\libjpeg-turbo[-gcc][64]` on Windows systems. If your installation of libjpeg-turbo resides in a different directory, then adjust the instructions accordingly.

-----------------------------
Replacing libjpeg at Run Time
-----------------------------

**Un*x**

----

If a Unix application is dynamically linked with libjpeg, then you can replace libjpeg with libjpeg-turbo at run time by manipulating `LD_LIBRARY_PATH`. For instance:

```
[Using libjpeg]
> time cjpeg <vgl_5674_0098.ppm >vgl_5674_0098.jpg
real 0m0.392s
user 0m0.074s
```
sys 0m0.020s

[Using libjpeg-turbo]
> export LD_LIBRARY_PATH=/opt/libjpeg-turbo/{lib}:SLD_LIBRARY_PATH
> time cjpeg <vgl_5674_0098.ppm >vgl_5674_0098.jpg
real 0m0.109s
user 0m0.029s
sys 0m0.010s

({lib} = lib32 or lib64, depending on whether you wish to use the 32-bit or the
64-bit version of libjpeg-turbo.)

System administrators can also replace the libjpeg symlinks in /usr/lib* with
links to the libjpeg-turbo dynamic library located in /opt/libjpeg-turbo/{lib}.
This will effectively accelerate every application that uses the libjpeg
dynamic library on the system.

Windows
------

If a Windows application is dynamically linked with libjpeg, then you can
replace libjpeg with libjpeg-turbo at run time by backing up the application's
copy of jpeg62.dll, jpeg7.dll, or jpeg8.dll (assuming the application has its
own local copy of this library) and copying the corresponding DLL from
libjpeg-turbo into the application's install directory. The official
libjpeg-turbo binary packages only provide jpeg62.dll. If the application uses
jpeg7.dll or jpeg8.dll instead, then it will be necessary to build
libjpeg-turbo from source (see "libjpeg v7 and v8 API/ABI Emulation" below.)

The following information is specific to the official libjpeg-turbo binary
packages for Visual C++:

-- jpeg62.dll requires the Visual C++ 2008 C run-time DLL (msvcr90.dll).
msvcr90.dll ships with more recent versions of Windows, but users of older
Windows releases can obtain it from the Visual C++ 2008 Redistributable
Package, which is available as a free download from Microsoft's web site.

-- Features of the libjpeg API that require passing a C run-time structure,
such as a file handle, from an application to the library will probably not
work with jpeg62.dll, unless the application is also built to use the Visual
C++ 2008 C run-time DLL. In particular, this affects jpeg_stdio_dest() and
jpeg_stdio_src().

Mac
---

Mac applications typically embed their own copies of the libjpeg dylib inside
the (hidden) application bundle, so it is not possible to globally replace
libjpeg on OS X systems. Replacing the application's version of the libjpeg dylib would generally involve copying libjpeg.*.dylib from libjpeg-turbo into the appropriate place in the application bundle and using install_name_tool to repoint the libjpeg-turbo dylib to its new directory. This requires an advanced knowledge of OS X and would not survive an upgrade or a re-install of the application. Thus, it is not recommended for most users.

Using libjpeg-turbo in Your Own Programs

For the most part, libjpeg-turbo should work identically to libjpeg, so in most cases, an application can be built against libjpeg and then run against libjpeg-turbo. On Un*x systems and Cygwin, you can build against libjpeg-turbo instead of libjpeg by setting

```
CPATH=/opt/libjpeg-turbo/include
and
LIBRARY_PATH=/opt/libjpeg-turbo/{lib}
```

({lib} = lib32 or lib64, depending on whether you are building a 32-bit or a 64-bit application.)

If using MinGW, then set

```
CPATH=/c/libjpeg-turbo-gcc[64]/include
and
LIBRARY_PATH=/c/libjpeg-turbo-gcc[64]/lib
```

Building against libjpeg-turbo is useful, for instance, if you want to build an application that leverages the libjpeg-turbo colorspace extensions (see below.) On Un*x systems, you would still need to manipulate LD_LIBRARY_PATH or create appropriate symlinks to use libjpeg-turbo at run time. On such systems, you can pass -R /opt/libjpeg-turbo/{lib} to the linker to force the use of libjpeg-turbo at run time rather than libjpeg (also useful if you want to leverage the colorspace extensions), or you can link against the libjpeg-turbo static library.

To force a Un*x or MinGW application to link against the static version of libjpeg-turbo, you can use the following linker options:

```
-Wl,-Bstatic -ljpeg -Wl,-Bdynamic
```

On OS X, simply add /opt/libjpeg-turbo/lib/libjpeg.a to the linker command line.

To build Visual C++ applications using libjpeg-turbo, add c:\libjpeg-turbo[64]\include to the system or user INCLUDE environment.
variable and c:\libjpeg-turbo\lib to the system or user LIB environment variable, and then link against either jpeg.lib (to use the DLL version of libjpeg-turbo) or jpeg-static.lib (to use the static version of libjpeg-turbo.)

=====================  
Colorsace Extensions  
=====================  

libjpeg-turbo includes extensions that allow JPEG images to be compressed directly from (and decompressed directly to) buffers that use BGR, BGRX, RGBX, XBGR, and XRGB pixel ordering. This is implemented with ten new colorspace constants:

JCS_EXT_RGB /* red/green/blue */  
JCS_EXT_RGBX /* red/green/blue/x */  
JCS_EXT_BGR /* blue/green/red */  
JCS_EXT_BGRX /* blue/green/red/x */  
JCS_EXT_XBGR /* x/blue/green/red */  
JCS_EXT_XRGB /* x/red/green/blue */  
JCS_EXT_RGBA /* red/green/blue/alpha */  
JCS_EXT_BGRA /* blue/green/red/alpha */  
JCS_EXT_ABGR /* alpha/blue/green/red */  
JCS_EXT_ARGB /* alpha/red/green/blue */  

Setting cinfo.in_color_space (compression) or cinfo.out_color_space (decompression) to one of these values will cause libjpeg-turbo to read the red, green, and blue values from (or write them to) the appropriate position in the pixel when compressing from/decompressing to an RGB buffer.

Your application can check for the existence of these extensions at compile time with:

#ifndef JCS_EXTENSIONS  

At run time, attempting to use these extensions with a libjpeg implementation that does not support them will result in a "Bogus input colorspace" error. Applications can trap this error in order to test whether run-time support is available for the colorspace extensions.

When using the RGBX, BGRX, XBGR, and XRGB colorspaces during decompression, the X byte is undefined, and in order to ensure the best performance, libjpeg-turbo can set that byte to whatever value it wishes. If an application expects the X byte to be used as an alpha channel, then it should specify JCS_EXT_RGBA, JCS_EXT_BGRA, JCS_EXT_ABGR, or JCS_EXT_ARGB. When these colorspace constants are used, the X byte is guaranteed to be 0xFF, which is interpreted as opaque.

Your application can check for the existence of the alpha channel colorspace extensions at compile time with:
#ifdef JCS_ALPHA_EXTENSIONS

jcstest.c, located in the libjpeg-turbo source tree, demonstrates how to check for the existence of the colorspace extensions at compile time and run time.

===================================
libjpeg v7 and v8 API/ABI Emulation
===================================

With libjpeg v7 and v8, new features were added that necessitated extending the compression and decompression structures. Unfortunately, due to the exposed nature of those structures, extending them also necessitated breaking backward ABI compatibility with previous libjpeg releases. Thus, programs that were built to use libjpeg v7 or v8 did not work with libjpeg-turbo, since it is based on the libjpeg v6b code base. Although libjpeg v7 and v8 are still not as widely used as v6b, enough programs (including a few Linux distros) made the switch that there was a demand to emulate the libjpeg v7 and v8 ABIs in libjpeg-turbo. It should be noted, however, that this feature was added primarily so that applications that had already been compiled to use libjpeg v7+ could take advantage of accelerated baseline JPEG encoding/decoding without recompiling. libjpeg-turbo does not claim to support all of the libjpeg v7+ features, nor to produce identical output to libjpeg v7+ in all cases (see below.)

By passing an argument of --with-jpeg7 or --with-jpeg8 to configure, or an argument of -DWITH_JPEG7=1 or -DWITH_JPEG8=1 to cmake, you can build a version of libjpeg-turbo that emulates the libjpeg v7 or v8 ABI, so that programs that are built against libjpeg v7 or v8 can be run with libjpeg-turbo. The following section describes which libjpeg v7+ features are supported and which aren't.

Support for libjpeg v7 and v8 Features:
---------------------------------------

Fully supported:
-- libjpeg: IDCT scaling extensions in decompressor
libjpeg-turbo supports IDCT scaling with scaling factors of 1/8, 1/4, 3/8, 1/2, 5/8, 3/4, 7/8, 9/8, 5/4, 11/8, 3/2, 13/8, 7/4, 15/8, and 2/1 (only 1/4 and 1/2 are SIMD-accelerated.)

-- libjpeg: arithmetic coding

-- libjpeg: In-memory source and destination managers
   See notes below.

-- cjpeg: Separate quality settings for luminance and chrominance
Note that the libjpeg v7+ API was extended to accommodate this feature only for convenience purposes. It has always been possible to implement this feature with libjpeg v6b (see rdswitch.c for an example.)

-- cjpeg: 32-bit BMP support

-- cjpeg: -rgb option

-- jpegtran: lossless cropping

-- jpegtran: -perfect option

-- jpegtran: forcing width/height when performing lossless crop

-- rdjpgcom: -raw option

-- rdjpgcom: locale awareness

Not supported:

NOTE: As of this writing, extensive research has been conducted into the usefulness of DCT scaling as a means of data reduction and SmartScale as a means of quality improvement. The reader is invited to peruse the research at http://www.libjpeg-turbo.org/About/SmartScale and draw his/her own conclusions, but it is the general belief of our project that these features have not demonstrated sufficient usefulness to justify inclusion in libjpeg-turbo.

-- libjpeg: DCT scaling in compressor
cinfo.scale_num and cinfo.scale_denom are silently ignored.
There is no technical reason why DCT scaling could not be supported when emulating the libjpeg v7+ API/ABI, but without the SmartScale extension (see below), only scaling factors of 1/2, 8/15, 4/7, 8/13, 2/3, 8/11, 4/5, and 8/9 would be available, which is of limited usefulness.

-- libjpeg: SmartScale
cinfo.block_size is silently ignored.
SmartScale is an extension to the JPEG format that allows for DCT block sizes other than 8x8. Providing support for this new format would be feasible (particularly without full acceleration.) However, until/unless the format becomes either an official industry standard or, at minimum, an accepted solution in the community, we are hesitant to implement it, as there is no sense of whether or how it might change in the future. It is our belief that SmartScale has not demonstrated sufficient usefulness as a lossless format nor as a means of quality enhancement, and thus, our primary interest in providing this feature would be as a means of supporting additional DCT scaling factors.
-- libjpeg: Fancy downsampling in compressor
cinfo.do_fancy_downsampling is silently ignored.
This requires the DCT scaling feature, which is not supported.

-- jpegtran: Scaling
This requires both the DCT scaling and SmartScale features, which are not supported.

-- Lossless RGB JPEG files
This requires the SmartScale feature, which is not supported.

What About libjpeg v9?
-----------------------

libjpeg v9 introduced yet another field to the JPEG compression structure (color_transform), thus making the ABI backward incompatible with that of libjpeg v8. This new field was introduced solely for the purpose of supporting lossless SmartScale encoding. Further, there was actually no reason to extend the API in this manner, as the color transform could have just as easily been activated by way of a new JPEG colorspace constant, thus preserving backward ABI compatibility.

Our research (see link above) has shown that lossless SmartScale does not generally accomplish anything that can’t already be accomplished better with existing, standard lossless formats. Thus, at this time, it is our belief that there is not sufficient technical justification for software to upgrade from libjpeg v8 to libjpeg v9, and therefore, not sufficient technical justification for us to emulate the libjpeg v9 ABI.

========================================
In-Memory Source/Destination Managers
========================================

By default, libjpeg-turbo 1.3 and later includes the jpeg_mem_src() and jpeg_mem_dest() functions, even when not emulating the libjpeg v8 API/ABI. Previously, it was necessary to build libjpeg-turbo from source with libjpeg v8 API/ABI emulation in order to use the in-memory source/destination managers, but several projects requested that those functions be included when emulating the libjpeg v6b API/ABI as well. This allows the use of those functions by programs that need them without breaking ABI compatibility for programs that don’t, and it allows those functions to be provided in the “official” libjpeg-turbo binaries.

Those who are concerned about maintaining strict conformance with the libjpeg v6b or v7 API can pass an argument of --without-mem-srcdst to configure or an argument of -DWITH_MEM_SRCDST=0 to CMake prior to building libjpeg-turbo. This will restore the pre-1.3 behavior, in which jpeg_mem_src() and jpeg_mem_dest() are only included when emulating the libjpeg v8 API/ABI.
On Un*x systems, including the in-memory source/destination managers changes the dynamic library version from 62.0.0 to 62.1.0 if using libjpeg v6b API/ABI emulation and from 7.0.0 to 7.1.0 if using libjpeg v7 API/ABI emulation.

Note that, on most Un*x systems, the dynamic linker will not look for a function in a library until that function is actually used. Thus, if a program is built against libjpeg-turbo 1.3+ and uses jpeg_mem_src() or jpeg_mem_dest(), that program will not fail if run against an older version of libjpeg-turbo or against libjpeg v7 - until the program actually tries to call jpeg_mem_src() or jpeg_mem_dest(). Such is not the case on Windows. If a program is built against the libjpeg-turbo 1.3+ DLL and uses jpeg_mem_src() or jpeg_mem_dest(), then it must use the libjpeg-turbo 1.3+ DLL at run time.

Both cjpeg and djpeg have been extended to allow testing the in-memory source/destination manager functions. See their respective man pages for more details.

*******************************************************************************
** Mathematical Compatibility
*******************************************************************************

For the most part, libjpeg-turbo should produce identical output to libjpeg v6b. The one exception to this is when using the floating point DCT/IDCT, in which case the outputs of libjpeg v6b and libjpeg-turbo are not guaranteed to be identical (the accuracy of the floating point DCT/IDCT is constant when using libjpeg-turbo's SIMD extensions, but otherwise, it can depend heavily on the compiler and compiler settings.)

While libjpeg-turbo does emulate the libjpeg v8 API/ABI, under the hood, it is still using the same algorithms as libjpeg v6b, so there are several specific cases in which libjpeg-turbo cannot be expected to produce the same output as libjpeg v8:

-- When decompressing using scaling factors of 1/2 and 1/4, because libjpeg v8 implements those scaling algorithms a bit differently than libjpeg v6b does, and libjpeg-turbo's SIMD extensions are based on the libjpeg v6b behavior.

-- When using chrominance subsampling, because libjpeg v8 implements this with its DCT/IDCT scaling algorithms rather than with a separate downsampling/upsampling algorithm.

-- When using the floating point IDCT, for the reasons stated above and also because the floating point IDCT algorithm was modified in libjpeg v8a to improve accuracy.

-- When decompressing using a scaling factor > 1 and merged (AKA "non-fancy" or
"non-smooth") chrominance upsampling, because libjpeg v8 does not support
merged upsampling with scaling factors > 1.

*******************************************************************************
** Performance Pitfalls
*******************************************************************************

======================
Restart Markers
======================

The optimized Huffman decoder in libjpeg-turbo does not handle restart markers
in a way that makes the rest of the libjpeg infrastructure happy, so it is
necessary to use the slow Huffman decoder when decompressing a JPEG image that
has restart markers. This can cause the decompression performance to drop by
as much as 20%, but the performance will still be much greater than that of
libjpeg. Many consumer packages, such as PhotoShop, use restart markers when
generating JPEG images, so images generated by those programs will experience
this issue.

===============================================
Fast Integer Forward DCT at High Quality Levels
===============================================

The algorithm used by the SIMD-accelerated quantization function cannot produce
correct results whenever the fast integer forward DCT is used along with a JPEG
quality of 98-100. Thus, libjpeg-turbo must use the non-SIMD quantization
function in those cases. This causes performance to drop by as much as 40%.
It is therefore strongly advised that you use the slow integer forward DCT
whenever encoding images with a JPEG quality of 98 or higher.

Found in path(s): * /opt/cola/permits/1103682335_1604392439.32/0/libjpeg-turbo-1.2.90-6.el7.src.rpm-cosi-expand-archive-v8mkKdjM/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-niYAIldh/libjpeg-turbo-1.2.90/README-turbo.txt
No license file was found, but licenses were detected in source scan.

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* 2. Altered source versions must be plainly marked as such, and must not be
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/*
 * jdmainct.c
 *
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 * Modifications:
 * Copyright (C) 2010, D. R. Commander.
 * 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/1103682335_1604392439.32/0/libjpeg-turbo-1.2.90-6.el7.src.rpm-cosi-expand-archive-v8mkKdjM/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-niYAlldh/libjpeg-turbo-1.2.90/jdmainct.c
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/*
 * jmorecfg.h
 *
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 * Modifications:
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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.
 */

Found in path(s):
* /opt/cola/permits/1103682335_1604392439.32/0/libjpeg-turbo-1.2.90-6.el7.src.rpm-cosi-expand-archive-v8mkKdjM/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-niYAlldh/libjpeg-turbo-1.2.90/jmorecfg.h
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#
# Redistribution and use in source and binary forms, with or without
# modification, are permitted provided that the following conditions are met:
#
# - Redistributions of source code must retain the above copyright notice,
# this list of conditions and the following disclaimer.
#!/bin/sh

if [ ! ""id -u"" = "0" ]; then
    echo "ERROR: This script must be executed as root"
    exit -1
fi

PACKAGE=@PACKAGE_NAME@
MACPACKAGE=com.$PACKAGE.$PACKAGE
RECEIPT=/Library/Receipts/$PACKAGE.pkg

LSBOM=
if [ -d $RECEIPT ]; then
    LSBOM='lsbom -s -f -l '$RECEIPT'/Contents/Archive.bom'
else
    LSBOM='pkgutil --files '$MACPACKAGE
fi

mylsbom()
{
    $LSBOM || (echo "ERROR: Could not list package contents"; exit -1)
}

echo Removing package files ...
EXITSTATUS=0
pushd /
mylsbom | while read file; do
    if [ ! -d "$file" ]; then rm "$file" 2>&1 || EXITSTATUS=-1; fi
done
popd

echo Removing package directories ...
if [ -d /opt/$PACKAGE/bin ]; then
  rmdir /opt/$PACKAGE/bin 2>&1 || EXITSTATUS=-1
fi
if [ -d /opt/$PACKAGE/lib ]; then
  rmdir /opt/$PACKAGE/lib 2>&1 || EXITSTATUS=-1
fi
if [ -d /opt/$PACKAGE/include ]; then
  rmdir /opt/$PACKAGE/include 2>&1 || EXITSTATUS=-1
fi
rm /opt/$PACKAGE/lib32 2>&1 || EXITSTATUS=-1
rm /opt/$PACKAGE/lib64 2>&1 || EXITSTATUS=-1
if [ -d /opt/$PACKAGE/man/man1 ]; then
  rmdir /opt/$PACKAGE/man/man1 2>&1 || EXITSTATUS=-1
fi
if [ -d /opt/$PACKAGE/man ]; then
  rmdir /opt/$PACKAGE/man 2>&1 || EXITSTATUS=-1
fi
if [ -d /opt/$PACKAGE/classes ]; then
  rmdir /opt/$PACKAGE/classes 2>&1 || EXITSTATUS=-1
fi
rmdir /opt/$PACKAGE 2>&1 || EXITSTATUS=-1
rmdir /Library/Documentation/$PACKAGE 2>&1 || EXITSTATUS=-1
if [ -d $RECEIPT ]; then
  echo Removing package receipt ...
  rm -r $RECEIPT 2>&1 || EXITSTATUS=-1
else
  echo Forgetting package $MACPACKAGE ...
  pkgutil --forget $MACPACKAGE
fi

echo Removing package directories ...
if [ -d /opt/$PACKAGE/bin ]; then
  rmdir /opt/$PACKAGE/bin 2>&1 || EXITSTATUS=-1
fi
if [ -d /opt/$PACKAGE/lib ]; then
  rmdir /opt/$PACKAGE/lib 2>&1 || EXITSTATUS=-1
fi
if [ -d /opt/$PACKAGE/include ]; then
  rmdir /opt/$PACKAGE/include 2>&1 || EXITSTATUS=-1
fi
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rm /opt/$PACKAGE/lib64 2>&1 || EXITSTATUS=-1
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  rmdir /opt/$PACKAGE/include 2>&1 || EXITSTATUS=-1
fi
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rm /opt/$PACKAGE/lib64 2>&1 || EXITSTATUS=-1
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  rmdir /opt/$PACKAGE/man/man1 2>&1 || EXITSTATUS=-1
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if [ -d /opt/$PACKAGE/man ]; then
  rmdir /opt/$PACKAGE/man 2>&1 || EXITSTATUS=-1
fi
if [ -d /opt/$PACKAGE/classes ]; then
  rmdir /opt/$PACKAGE/classes 2>&1 || EXITSTATUS=-1
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if [ -d /opt/$PACKAGE/lib ]; then
  rmdir /opt/$PACKAGE/lib 2>&1 || EXITSTATUS=-1
fi
if [ -d /opt/$PACKAGE/include ]; then
  rmdir /opt/$PACKAGE/include 2>&1 || EXITSTATUS=-1
fi
rm /opt/$PACKAGE/lib32 2>&1 || EXITSTATUS=-1
rm /opt/$PACKAGE/lib64 2>&1 || EXITSTATUS=-1
if [ -d /opt/$PACKAGE/man/man1 ]; then
  rmdir /opt/$PACKAGE/man/man1 2>&1 || EXITSTATUS=-1
fi
if [ -d /opt/$PACKAGE/man ]; then
  rmdir /opt/$PACKAGE/man 2>&1 || EXITSTATUS=-1
fi
if [ -d /opt/$PACKAGE/classes ]; then
  rmdir /opt/$PACKAGE/classes 2>&1 || EXITSTATUS=-1
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  pkgutil --forget $MACPACKAGE
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fi
if [ -d /opt/$PACKAGE/include ]; then
  rmdir /opt/$PACKAGE/include 2>&1 || EXITSTATUS=-1
fi
rm /opt/$PACKAGE/lib32 2>&1 || EXITSTATUS=-1
rm /opt/$PACKAGE/lib64 2>&1 || EXITSTATUS=-1
if [ -d /opt/$PACKAGE/man/man1 ]; then
  rmdir /opt/$PACKAGE/man/man1 2>&1 || EXITSTATUS=-1
fi
if [ -d /opt/$PACKAGE/man ]; then
  rmdir /opt/$PACKAGE/man 2>&1 || EXITSTATUS=-1
fi
if [ -d /opt/$PACKAGE/classes ]; then
  rmdir /opt/$PACKAGE/classes 2>&1 || EXITSTATUS=-1
fi
rmdir /opt/$PACKAGE 2>&1 || EXITSTATUS=-1
rmdir /Library/Documentation/$PACKAGE 2>&1 || EXITSTATUS=-1
if [ -d $RECEIPT ]; then
  echo Removing package receipt ...
  rm -r $RECEIPT 2>&1 || EXITSTATUS=-1
else
  echo Forgetting package $MACPACKAGE ...
  pkgutil --forget $MACPACKAGE
fi

exit $EXITSTATUS

Found in path(s):
* /opt/cola/permits/1103682335_1604392439.32/0/libjpeg-turbo-1.2.90-6.el7.src.rpm-cosi-expand-archive-v8mkKdjM/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-niYAIldh/libjpeg-turbo-1.2.90/release/uninstall.in
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/1103682335_1604392439.32/0/libjpeg-turbo-1.2.90-6.el7.src.rpm-cosi-expand-archive-v8mKdjM/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-niYAlldh/libjpeg-turbo-1.2.90/jcmainct.c
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/*
 * jcprepct.c
 *
 * Copyright (C) 1994-1996, Thomas G. Lane.
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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
 * jcsample.c for the downsampler's needs.
 */

Found in path(s):
* /opt/cola/permits/1103682335_1604392439.32/0/libjpeg-turbo-1.2.90-6.el7.src.rpm-cosi-expand-archive-v8mKdjM/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-niYAlldh/libjpeg-turbo-1.2.90/jcprepct.c
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/*
 * jdatadst-tj.c
 *
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 * Modifications:
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 * 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/1103682335_1604392439.32/0/libjpeg-turbo-1.2.90-6.el7.src.rpm-cosi-expand-archive-v8mkKdjM/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-nYAlldh/libjpeg-turbo-1.2.90/jdatadst-tj.c
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*/
* jdatadst.c
*
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*
* 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/1103682335_1604392439.32/0/libjpeg-turbo-1.2.90-6.el7.src.rpm-cosi-expand-archive-v8mkKdjM/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-nYAlldh/libjpeg-turbo-1.2.90/jdatadst.c
No license file was found, but licenses were detected in source scan.

*/
* jsimd_none.c
*
* Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB
* Copyright 2009-2011 D. R. Commander
*
* Based on the x86 SIMD extension for IJG JPEG library,
* Copyright (C) 1999-2006, MIYASAKA Masaru.
* For conditions of distribution and use, see copyright notice in jsimdext.inc
*
* This file contains stubs for when there is no SIMD support available.
*/

Found in path(s):
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No license file was found, but licenses were detected in source scan.

/*
 * transupp.c
 *
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 * Modifications:
 * Copyright (C) 2010, D. R. Commander.
 * 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/1103682335_1604392439.32/0/libjpeg-turbo-1.2.90-6.el7.src.rpm-cosi-expand-archive-
v8mkKdjM/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-niYAIIdh/libjpeg-turbo-1.2.90/transupp.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 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/1103682335_1604392439.32/0/libjpeg-turbo-1.2.90-6.el7.src.rpm-cosi-expand-archive-
v8mkKdjM/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-niYAIIdh/libjpeg-turbo-1.2.90/wrppm.c
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/*
 * jcmarker.c
 */
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* Modifications:
  * Copyright (C) 2010, D. R. Commander.
  * 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/1103682335_1604392439.32/0/libjpeg-turbo-1.2.90-6.el7.src.rpm-cosi-expand-archive-v8mkKdjM/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-niYAIldh/libjpeg-turbo-1.2.90/jcmarker.c

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/*
 * 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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 ** documentation for any purpose and without fee is hereby granted, provided
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 ** implied warranty.
 */

Found in path(s):
* /opt/cola/permits/1103682335_1604392439.32/0/libjpeg-turbo-1.2.90-6.el7.src.rpm-cosi-expand-archive-v8mkKdjM/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-niYAlldh/libjpeg-turbo-1.2.90/rdppm.c
No license file was found, but licenses were detected in source scan.

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 *
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 * - Redistributions in binary form must reproduce the above copyright notice,
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 *   and/or other materials provided with the distribution.
 * - Neither the name of the libjpeg-turbo Project nor the names of its
 *   contributors may be used to endorse or promote products derived from this
 *   software without specific prior written permission.
 *
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 * ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
 * POSSIBILITY OF SUCH DAMAGE.
 */

Found in path(s):
* /opt/cola/permits/1103682335_1604392439.32/0/libjpeg-turbo-1.2.90-6.el7.src.rpm-cosi-expand-archive-v8mkKdjM/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-niYAlldh/libjpeg-turbo-1.2.90/java/org/libjpegturbo/turbojpeg/TJCustomFilter.java
* /opt/cola/permits/1103682335_1604392439.32/0/libjpeg-turbo-1.2.90-6.el7.src.rpm-cosi-expand-archive-v8mkKdjM/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-niYAlldh/libjpeg-turbo-1.2.90/tjutil.h
* /opt/cola/permits/1103682335_1604392439.32/0/libjpeg-turbo-1.2.90-6.el7.src.rpm-cosi-expand-archive-v8mkKdjM/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-niYAlldh/libjpeg-turbo-1.2.90/java/org/libjpegturbo/turbojpeg/TJTransform.java
* /opt/cola/permits/1103682335_1604392439.32/0/libjpeg-turbo-1.2.90-6.el7.src.rpm-cosi-expand-archive-v8mkKdjM/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-niYAlldh/libjpeg-turbo-1.2.90/tjutil.c
* /opt/cola/permits/1103682335_1604392439.32/0/libjpeg-turbo-1.2.90-6.el7.src.rpm-cosi-expand-archive-v8mkKdjM/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-niYAlldh/libjpeg-turbo-1.2.90/java/org/libjpegturbo/turbojpeg/TJTransformer.java
* /opt/cola/permits/1103682335_1604392439.32/0/libjpeg-turbo-1.2.90-6.el7.src.rpm-cosi-expand-archive-v8mkKdjM/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-niYAlldh/libjpeg-turbo-1.2.90/jcstest.c
No license file was found, but licenses were detected in source scan.

/*
 * jconfig.txt
 *
 * 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 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().
 */
OPEN SOURCE USED IN CISCO VSM 7.14.2

/*
/* #define void char */

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

/* 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.
*/
#undef CHAR_IS_UNSIGNED

/* 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>.
*/
#undef NEED_BSD_STRINGS

/* 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.
*/
#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_SHORTEXTERNAL_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 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 /* 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 cjjpeg.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 cjjpeg/djpeg.
*/
#undef PROGRESS_REPORT

#endif /* JPEG_CJPEG_DJPEG */

Found in path(s):
* /opt/cola/permits/1103682335_1604392439.32/0/libjpeg-turbo-1.2.90-6.el7.src.rpm-cosi-expand-archive-
v8mkKdjM/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-niYAlldh/libjpeg-turbo-1.2.90/jconfig.txt
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/1103682335_1604392439.32/0/libjpeg-turbo-1.2.90-6.el7.src.rpm-cosi-expand-archive-
v8mkKdjM/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-niYAIldh/libjpeg-turbo-1.2.90/jidctfst.c
No license file was found, but licenses were detected in source scan.

/*
* jdatasrc.c
*
* This file was part of the Independent JPEG Group's software:
* Copyright (C) 1994-1996, Thomas G. Lane.
* Modifications:
* Copyright (C) 2013, D. R. Commander.
* 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/1103682335_1604392439.32/0/libjpeg-turbo-1.2.90-6.el7.src.rpm-cosi-expand-archive-
v8mkKdjM/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-niYAIldh/libjpeg-turbo-1.2.90/jdatasrc.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/1103682335_1604392439.32/0/libjpeg-turbo-1.2.90-6.el7.src.rpm-cosi-expand-archive-v8mkKdjM/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-niYAlldh/libjpeg-turbo-1.2.90/jctrans.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/1103682335_1604392439.32/0/libjpeg-turbo-1.2.90-6.el7.src.rpm-cosi-expand-archive-v8mkKdjM/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-niYAlldh/libjpeg-turbo-1.2.90/rdjpgcom.c
No license file was found, but licenses were detected in source scan.

/*
 * 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 (ISO/IEC IS 11544 and CCITT Recommendation ITU-T T.82).

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

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v8mkKdjM/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-niYAIldh/libjpeg-turbo-1.2.90/java/org/libjpegturbo/turbojpeg/TJLoader.java
* /opt/cola/permits/1103682335_1604392439.32/0/libjpeg-turbo-1.2.90-6.el7.src.rpm-cosi-expand-archive-v8mkKdjM/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-niYAIldh/libjpeg-turbo-1.2.90/java/TJExample.java
* /opt/cola/permits/1103682335_1604392439.32/0/libjpeg-turbo-1.2.90-6.el7.src.rpm-cosi-expand-archive-v8mkKdjM/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-niYAIldh/libjpeg-turbo-1.2.90/java/org/libjpegturbo/turbojpeg/TJCompressor.java
* /opt/cola/permits/1103682335_1604392439.32/0/libjpeg-turbo-1.2.90-6.el7.src.rpm-cosi-expand-archive-v8mkKdjM/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-niYAIldh/libjpeg-turbo-1.2.90/java/org/libjpegturbo/turbojpeg/TJDecompressor.java

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.
 */

Found in path(s):
* /opt/cola/permits/1103682335_1604392439.32/0/libjpeg-turbo-1.2.90-6.el7.src.rpm-cosi-expand-archive-v8mkKdjM/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-niYAIldh/libjpeg-turbo-1.2.90/jfdctint.c

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

/*
 * jpeglib.h
 *
 * This file was part of the Independent JPEG Group's software:
 * Copyright (C) 1991-1998, Thomas G. Lane.
 * Modified 2002-2009 by Guido Vollbeding.
* Modifications:
* Copyright (C) 2009-2011, 2013, D. R. Commander.
* 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/1103682335_1604392439.32/0/libjpeg-turbo-1.2.90-6.el7.src.rpm-cosi-expand-archive-v8mkKdjM/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-niYAIIdh/libjpeg-turbo-1.2.90/jpeglib.h
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/1103682335_1604392439.32/0/libjpeg-turbo-1.2.90-6.el7.src.rpm-cosi-expand-archive-v8mkKdjM/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-niYAIIdh/libjpeg-turbo-1.2.90/cdjpeg.c
No license file was found, but licenses were detected in source scan.

/*
* jccolext.c
*
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*
* This file contains input colorspace conversion routines.
*/

Found in path(s):
* /opt/cola/permits/1103682335_1604392439.32/0/libjpeg-turbo-1.2.90-6.el7.src.rpm-cosi-expand-archive-v8mkKdjM/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-niYAIIdh/libjpeg-turbo-1.2.90/jccolext.c
No license file was found, but licenses were detected in source scan.
jdct.inc - private declarations for forward & reverse DCT subsystems

; Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB
; Based on
; x86 SIMD extension for IJG JPEG library
; Copyright (C) 1999-2006, MIYASAKA Masaru.
; For conditions of distribution and use, see copyright notice in jsimdext.inc
;
; Each IDCT routine is responsible for range-limiting its results and
; converting them to unsigned form (0..MAXJSAMPLE). The raw outputs could
; be quite far out of range if the input data is corrupt, so a bulletproof
; range-limiting step is required. We use a mask-and-table-lookup method
; to do the combined operations quickly.
;
%define RANGE_MASK  (MAXJSAMPLE * 4 + 3)  ; 2 bits wider than legal samples

%define ROW(n,b,s)((b)+(n)*(s))
%define COL(n,b,s)((b)+(n)*(s)*DCTSIZE)

%define DWBLOCK(m,n,b,s)((b)+(m)*DCTSIZE*(s)+(n)*SIZEOF_DWORD)
%define MMBLOCK(m,n,b,s)((b)+(m)*DCTSIZE*(s)+(n)*SIZEOF_MMWORD)
%define XMMBLOCK(m,n,b,s)((b)+(m)*DCTSIZE*(s)+(n)*SIZEOF_XMMWORD)

; ---------------------------------------------------------------

Found in path(s):
* /opt/cola/permits/1103682335_1604392439.32/0/libjpeg-turbo-1.2.90-6.el7.src.rpm-cosi-expand-archive-v8mkKdjM/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-niYAIldh/libjpeg-turbo-1.2.90/simd/jdct.inc
No license file was found, but licenses were detected in source scan.

/*
 * jdmaster.c
 *
 * This file was part of the Independent JPEG Group's software:
 * Copyright (C) 1991-1997, Thomas G. Lane.
 * Modified 2002-2009 by Guido Vollbeding.
 * Modifications:
 * Copyright (C) 2009-2011, D. R. Commander.
 * 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.
 */
libjpeg-turbo is a JPEG image codec that uses SIMD instructions (MMX, SSE2, NEON) to accelerate baseline JPEG compression and decompression on x86, x86-64, and ARM systems. On such systems, libjpeg-turbo is generally 2-4x as fast as libjpeg, all else being equal. On other types of systems, libjpeg-turbo can still outperform libjpeg by a significant amount, by virtue of its highly-optimized Huffman coding routines. In many cases, the performance of libjpeg-turbo rivals that of proprietary high-speed JPEG codecs.

libjpeg-turbo implements both the traditional libjpeg API as well as the less powerful but more straightforward TurboJPEG API. libjpeg-turbo also features colorspace extensions that allow it to compress from/decompress to 32-bit and big-endian pixel buffers (RGBX, XBGR, etc.), as well as a full-featured Java interface.

libjpeg-turbo was originally based on libjpeg/SIMD, an MMX-accelerated derivative of libjpeg v6b developed by Miyasaka Masaru. The TigerVNC and VirtualGL projects made numerous enhancements to the codec in 2009, and in
early 2010, libjpeg-turbo spun off into an independent project, with the goal of making high-speed JPEG compression/decompression technology available to a broader range of users and developers.

```
#-->%prep
#-->%setup -q

#-->%build
#-->./configure libdir=/opt/%{name}/%{__lib} mandir=/opt/%{name}/man
JPEG_LIB_VERSION=@JPEG_LIB_VERSION@ SO_MAJOR_VERSION=@SO_MAJOR_VERSION@
SO_MINOR_VERSION=@SO_MINOR_VERSION@ --with-pic @RPM_CONFIG_ARGS@
#-->make DESTDIR=$RPM_BUILD_ROOT libdir=/opt/%{name}/%{__lib} mandir=/opt/%{name}/man

%install

rm -rf $RPM_BUILD_ROOT
make install DESTDIR=$RPM_BUILD_ROOT libdir=/opt/%{name}/%{__lib} mandir=/opt/%{name}/man
docdir=/opt/%{name}/doc exampledir=/opt/%{name}/doc
rm -f $RPM_BUILD_ROOT/opt/%{name}/%{__lib}/*.la
mkdir -p $RPM_BUILD_ROOT/usr/%{__lib}
mv $RPM_BUILD_ROOT/opt/%{name}/%{__lib}/libturbojpeg.* $RPM_BUILD_ROOT/usr/%{__lib}
/sbin/ldconfig -n $RPM_BUILD_ROOT/opt/%{name}/%{__lib}
/sbin/ldconfig -n $RPM_BUILD_ROOT/usr/%{__lib}
-linux -s $RPM_BUILD_ROOT/include/turbojpeg.h $RPM_BUILD_ROOT/usr/include
ln -fs $RPM_BUILD_ROOT/opt/%{name}/%{__lib}/libturbojpeg.a $RPM_BUILD_ROOT/opt/%{name}/%{__lib}/
mkdir -p $RPM_BUILD_ROOT/usr/include
mv $RPM_BUILD_ROOT/opt/%{name}/%{__lib}/include/turbojpeg.h $RPM_BUILD_ROOT/usr/include
ln -fs $RPM_BUILD_ROOT/opt/%{name}/%{__lib}/libturbojpeg.a $RPM_BUILD_ROOT/opt/%{name}/%{__lib}/
mkdir -p $RPM_BUILD_ROOT/%{_defaultdocdir}
mv $RPM_BUILD_ROOT/opt/%{name}/%{version}/%{name} $RPM_BUILD_ROOT/%{_defaultdocdir}/%{name}-%{version}

%post -p /sbin/ldconfig
%postun -p /sbin/ldconfig

%clean
rm -rf $RPM_BUILD_ROOT

%files
%defattr(-,root,root)
%dirt %{_defaultdocdir}/%{name}-%{version}
%doc %{_defaultdocdir}/%{name}-%{version}/
%dirt /opt/%{name}/bin
/opt/%{name}/bin/cjpeg
/opt/%{name}/bin/djpeg
/opt/%{name}/bin/jpegtran
/opt/%{name}/bin/tjbench
/opt/%{name}/bin/rdjpgcom
```
Found in path(s):
* /opt/cola/permits/1103682335_1604392439.32/0/libjpeg-turbo-1.2.90-6.el7.src.rpm-cosi-expand-archive-v8mkKdjM/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-niYAIldh/libjpeg-turbo-1.2.90/release/libjpeg-turbo.spec.in

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

/*
 * jdsample.c
 *
 * This file was part of the Independent JPEG Group's software:
 * Copyright (C) 1991-1996, Thomas G. Lane.
 * Modifications:
 * Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB
 * Copyright (C) 2010, D. R. Commander.
 */
* 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_scaled_size / min_DCT_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/1103682335_1604392439.32/0/libjpeg-turbo-1.2.90-6.el7.src.rpm-cosi-expand-archive-
v8mkKdjM/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-niYA1ldh/libjpeg-turbo-1.2.90/jdsample.c
No license file was found, but licenses were detected in source scan.

License: IJG

Found in path(s):
* /opt/cola/permits/1103682335_1604392439.32/0/libjpeg-turbo-1.2.90-6.el7.src.rpm-cosi-expand-archive-
v8mkKdjM/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-niYA1ldh/libjpeg-turbo-1.2.90/jdsample.c
No license file was found, but licenses were detected in source scan.

/*
* jddctmgr.c
*
* This file was part of the Independent JPEG Group's software:
* Copyright (C) 1994-1996, Thomas G. Lane.
* Modified 2002-2010 by Guido Vollbeding.
* Modifications:
* Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB
* Copyright (C) 2010, D. R. Commander.
* 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/1103682335_1604392439.32/0/libjpeg-turbo-1.2.90-6.el7.src.rpm-cosi-expand-archive-v8mkKdjM/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-niYAIIdh/libjpeg-turbo-1.2.90/jddctmgr.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/1103682335_1604392439.32/0/libjpeg-turbo-1.2.90-6.el7.src.rpm-cosi-expand-archive-v8mkKdjM/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-niYAIIdh/libjpeg-turbo-1.2.90/wrtarga.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/1103682335_1604392439.32/0/libjpeg-turbo-1.2.90-6.el7.src.rpm-cosi-expand-archive-v8mkKdjM/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-niYAIIdh/libjpeg-turbo-1.2.90/jdarith.c
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.
*/

Found in path(s):
* /opt/cola/permits/1103682335_1604392439.32/0/libjpeg-turbo-1.2.90-6.el7.src.rpm-cosi-expand-archive-v8mkKdjM/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-niYAIldh/libjpeg-turbo-1.2.90/jccoefct.c

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

/*
* jdmerge.c
*
* This file was part of the Independent JPEG Group's software:
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* Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB
* Modifications:
* Copyright (C) 2009, 2011, D. R. Commander.
* 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
* (i.e., 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/1103682335_1604392439.32/0/libjpeg-turbo-1.2.90-6.el7.src.rpm-cosi-expand-archive-v8mkKdjM/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-niYAIIdh/libjpeg-turbo-1.2.90/jdmerge.c
No license file was found, but licenses were detected in source scan.

/*
* transupp.h
*
* Copyright (C) 1997-2011, 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 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/1103682335_1604392439.32/0/libjpeg-turbo-1.2.90-6.el7.src.rpm-cosi-expand-archive-v8mkKdjM/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-niYAIIdh/libjpeg-turbo-1.2.90/transupp.h
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/1103682335_1604392439.32/0/libjpeg-turbo-1.2.90-6.el7.src.rpm-cosi-expand-archive-
Open Source Used In Cisco VSM 7.14.2 23413

v8mkKdjM/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-niYAlldh/libjpeg-turbo-1.2.90/wrjpgcom.c

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

/*
 * simd/jsimd.h
 *
 * Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB
 * Copyright 2011 D. R. Commander
 *
 * Based on the x86 SIMD extension for IJG JPEG library,
 * Copyright (C) 1999-2006, MIYASAKA Masaru.
 * For conditions of distribution and use, see copyright notice in jsimdext.inc
 *
 */

Found in path(s):
* /opt/cola/permits/1103682335_1604392439.32/0/libjpeg-turbo-1.2.90-6.el7.src.rpm-cosi-expand-archive-
v8mkKdjM/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-niYAlldh/libjpeg-turbo-1.2.90/simd/jsimd.h

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

/*
 * jcparam.c
 *
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 * Copyright (C) 1991-1998, Thomas G. Lane.
 * Modifications:
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 * 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/1103682335_1604392439.32/0/libjpeg-turbo-1.2.90-6.el7.src.rpm-cosi-expand-archive-
v8mkKdjM/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-niYAlldh/libjpeg-turbo-1.2.90/jcparam.c

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

/*
 * jchuff.h
 *
 * Copyright (C) 1991-1997, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
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 *
 * This file contains declarations for Huffman entropy encoding routines

* that are shared between the sequential encoder (jchuff.c) and the
* progressive encoder (jcphuff.c). No other modules need to see these.
*/

Found in path(s):
* /opt/cola/permits/1103682335_1604392439.32/0/libjpeg-turbo-1.2.90-6.el7.src.rpm-cosi-expand-archive-
v8mkKdjM/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-niYAIIdh/libjpeg-turbo-1.2.90/jchuff.h
No license file was found, but licenses were detected in source scan.

/
* jcmaster.c
 *
* This file was part of the Independent JPEG Group's software:
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* Modified 2003-2010 by Guido Vollbeding.
* Modifications:
* Copyright (C) 2010, D. R. Commander.
* 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/1103682335_1604392439.32/0/libjpeg-turbo-1.2.90-6.el7.src.rpm-cosi-expand-archive-
v8mkKdjM/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-niYAIIdh/libjpeg-turbo-1.2.90/jcmaster.c
No license file was found, but licenses were detected in source scan.

Package: {__PKGNAME}
Version: {__VERSION}-{__BUILD}
Section: misc
Priority: optional
Architecture: {__ARCH}
Essential: no
Maintainer: The libjpeg-turbo Project [http://www.libjpeg-turbo.org]
Description: A SIMD-accelerated JPEG codec that provides both the libjpeg and TurboJPEG APIs
libjpeg-turbo is a JPEG image codec that uses SIMD instructions (MMX, SSE2,
NEON) to accelerate baseline JPEG compression and decompression on x86,
x86-64, and ARM systems. On such systems, libjpeg-turbo is generally 2-4x as
fast as libjpeg, all else being equal. On other types of systems,
libjpeg-turbo can still outperform libjpeg by a significant amount, by virtue
of its highly-optimized Huffman coding routines. In many cases, the
performance of libjpeg-turbo rivals that of proprietary high-speed JPEG
codecs.
* libjpeg-turbo implements both the traditional libjpeg API as well as the less
powerful but more straightforward TurboJPEG API. libjpeg-turbo also features
colorspace extensions that allow it to compress from/decompress to 32-bit and
big-endian pixel buffers (RGBX, XBGR, etc.), as well as a full-featured Java
interface.

libjpeg-turbo was originally based on libjpeg/SIMD, an MMX-accelerated
derivative of libjpeg v6b developed by Miyasaka Masaru. The TigerVNC and
VirtualGL projects made numerous enhancements to the codec in 2009, and in
early 2010, libjpeg-turbo spun off into an independent project, with the goal
of making high-speed JPEG compression/decompression technology available to a
broader range of users and developers.

Found in path(s):
* /opt/cola/permits/1103682335_1604392439.32/0/libjpeg-turbo-1.2.90-6.el7.src.rpm-cosi-expand-archive-
v8mkKdjM/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-niYALLdh/libjpeg-turbo-1.2.90/release/deb-control.tmpl
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/1103682335_1604392439.32/0/libjpeg-turbo-1.2.90-6.el7.src.rpm-cosi-expand-archive-
v8mkKdjM/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-niYALLdh/libjpeg-turbo-1.2.90/jutils.c
No license file was found, but licenses were detected in source scan.

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; for more details.

Found in path(s):
* /opt/cola/permits/1103682335_1604392439.32/0/libjpeg-turbo-1.2.90-6.el7.src.rpm-cosi-expand-archive-
v8mkKdjM/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-niYALLdh/libjpeg-turbo-1.2.90/simd/jfmmxfst.asm
* /opt/cola/permits/1103682335_1604392439.32/0/libjpeg-turbo-1.2.90-6.el7.src.rpm-cosi-expand-archive-
v8mkKdjM/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-niYALLdh/libjpeg-turbo-1.2.90/simd/jfss2fst.asm
* /opt/cola/permits/1103682335_1604392439.32/0/libjpeg-turbo-1.2.90-6.el7.src.rpm-cosi-expand-archive-
v8mkKdjM/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-niYALLdh/libjpeg-turbo-1.2.90/simd/jiss2fst-64.asm
* /opt/cola/permits/1103682335_1604392439.32/0/libjpeg-turbo-1.2.90-6.el7.src.rpm-cosi-expand-archive-
v8mkKdjM/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-niYALLdh/libjpeg-turbo-1.2.90/simd/jiss2fst-64.asm
* /opt/cola/permits/1103682335_1604392439.32/0/libjpeg-turbo-1.2.90-6.el7.src.rpm-cosi-expand-archive-
/*
 * 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/1103682335_1604392439.32/0/libjpeg-turbo-1.2.90-6.el7.src.rpm-cosi-expand-archive-v8mkKdjM/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-niYAILdh/libjpeg-turbo-1.2.90/jfdctflt.c
1.491 websocket-api 9.2.26.v20180806

1.492 perl-parent 0.225

1.492.1 Available under license:
No license file was found, but licenses were detected in source scan.

<table>
<thead>
<tr>
<th>license:</th>
<th>unknown</th>
</tr>
</thead>
</table>

Found in path(s):
* /opt/cola/permits/1103681781_1604394952.42/0/perl-parent-0.225-244.el7-1.src.rpm-cosi-expand-archive-9GejlZmo/parent-0.225.tar.gz-cosi-expand-archive-5Rq0g0aC/parent-0.225/META.yml
No license file was found, but licenses were detected in source scan.

=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 >

Copyright (c) 2007-10 Max Maischein C<< <corion@cpan.org> >>
Based on the idea of C<base.pm>, which was introduced with Perl 5.004_04.

=head1 LICENSE

This module is released under the same terms as Perl itself.

=cut

Found in path(s):
* /opt/cola/permits/1103681781_1604394952.42/0/perl-parent-0.225-244.el7-1.src.rpm-cosi-expand-archive-9GejlZmo/parent-0.225.tar.gz-cosi-expand-archive-5Rq0g0aC/parent-0.225/lib/parent.pm
No license file was found, but licenses were detected in source scan.

License:GPL+ or Artistic

Found in path(s):
* /opt/cola/permits/1103681781_1604394952.42/0/perl-parent-0.225-244.el7-1.src.rpm-cosi-expand-archive-9GejlZmo/perl-parent.spec

1.493 javax-websocket-server-impl
9.2.26.v20180806

1.494 tcl 8.5.13 8.el7
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* /opt/cola/permits/1103878428_1604400704.49/0/spring-jms-4-3-25-release-sources-jar/org/springframework/jms/listener/AbstractMessageListenerContainer.java
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* /opt/cola/permits/1103878428_1604400704.49/0/spring-jms-4-3-25-release-sources-jar/org/springframework/jms/listener/AbstractPollingMessageListenerContainer.java
* /opt/cola/permits/1103878428_1604400704.49/0/spring-jms-4-3-25-release-sources-jar/org/springframework/jms/connection/ConnectionFactoryUtils.java
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* /opt/cola/permits/1103878428_1604400704.49/0/spring-jms-4-3-25-release-sources-jar/org/springframework/jms/connection/TransactionAwareConnectionFactoryProxy.java
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jar/org/springframework/jms/annotation/JmsListener.java
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* /opt/cola/permits/1103878428_1604400704.49/0/spring-jms-4-3-25-release-sources-jar/org/springframework/jms/listener/endpoint/JmsActivationSpecFactory.java

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* /opt/cola/permits/1103878428_1604400704.49/0/spring-jms-4-3-25-release-sources-jar/org/springframework/jms/connection/CachedMessageConsumer.java
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* /opt/cola/permits/1103878428_1604400704.49/0/spring-jms-4-3-25-release-sources-jar/org/springframework/jms/MessageFormatException.java
* /opt/cola/permits/1103878428_1604400704.49/0/spring-jms-4-3-25-release-sources-jar/org/springframework/jms/support/destination/DestinationResolver.java
* /opt/cola/permits/1103878428_1604400704.49/0/spring-jms-4-3-25-release-sources-jar/org/springframework/jms/listener/adapter/ListenerExecutionFailedException.java
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* /opt/cola/permits/1103878428_1604400704.49/0/spring-jms-4-3-25-release-sources-
jar/org/springframework/jms/annotation/JmsListenerConfigurer.java
* /opt/cola/permits/1103878428_1604400704.49/0/spring-jms-4-3-25-release-sources-
jar/org/springframework/jms/config/AnnotationDrivenJmsBeanDefinitionParser.java
* /opt/cola/permits/1103878428_1604400704.49/0/spring-jms-4-3-25-release-sources-
jar/org/springframework/jms/support/destination/DynamicDestinationResolver.java
* /opt/cola/permits/1103878428_1604400704.49/0/spring-jms-4-3-25-release-sources-
jar/org/springframework/jms/config/JmsListenerContainerFactory.java
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jar/org/springframework/jms/core/JmsOperations.java
* /opt/cola/permits/1103878428_1604400704.49/0/spring-jms-4-3-25-release-sources-
jar/org/springframework/jms/config/SimpleJmsListenerContainerFactory.java
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1.510 kerberos 1.15.1

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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
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lib/gssapi/mechglue/g_export_name.c
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lib/gssapi/mechglue/g_inquire_names.c
lib/gssapi/mechglue/g_process_context.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
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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/krb5/kdb/kdb_convert.c
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   *-----------------------------------------------------------------

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Use 'perldoc ppport.h' to view the documentation below.

=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 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.

<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_pvGLOBAL</td>
</tr>
<tr>
<td>grok_bin()</td>
<td>NEED_grok_bin</td>
<td>NEED_grok_bin_GLOBAL</td>
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<tr>
<td>grok_hex()</td>
<td>NEED_grok_hex</td>
<td>NEED_grok_hex_GLOBAL</td>
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<tr>
<td>grok_number()</td>
<td>NEED_grok_number</td>
<td>NEED_grok_number_GLOBAL</td>
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<tr>
<td>grok_numeric_radix()</td>
<td>NEED_grok_numeric_radix</td>
<td>NEED_grok_numeric_radixGLOBAL</td>
</tr>
<tr>
<td>grok_oct()</td>
<td>NEED_grok_oct</td>
<td>NEED_grok_octGLOBAL</td>
</tr>
<tr>
<td>load_module()</td>
<td>NEED_load_module</td>
<td>NEED_load_moduleGLOBAL</td>
</tr>
<tr>
<td>my_snprintf()</td>
<td>NEED_my_snprintf</td>
<td>NEED_my_snprintfGLOBAL</td>
</tr>
<tr>
<td>my_sprintf()</td>
<td>NEED_my_sprintf</td>
<td>NEED_my_sprintfGLOBAL</td>
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<td>my_strlcat()</td>
<td>NEED_my_strlcat</td>
<td>NEED_my_strlcatGLOBAL</td>
</tr>
<tr>
<td>my_strlcpy()</td>
<td>NEED_my_strlcpy</td>
<td>NEED_my_strlcpyGLOBAL</td>
</tr>
<tr>
<td>newCONSTSUB()</td>
<td>NEED_newCONSTSUB</td>
<td>NEED_newCONSTSUBGLOBAL</td>
</tr>
<tr>
<td>newRV_noinc()</td>
<td>NEED_newRV_noinc</td>
<td>NEED_newRV_noincGLOBAL</td>
</tr>
<tr>
<td>newSV_type()</td>
<td>NEED_newSV_type</td>
<td>NEED_newSV_typeGLOBAL</td>
</tr>
<tr>
<td>newSVpvn_flags()</td>
<td>NEED_newSVpvn_flags</td>
<td>NEED_newSVpvn_flagsGLOBAL</td>
</tr>
<tr>
<td>newSVpvn_share()</td>
<td>NEED_newSVpvn_share</td>
<td>NEED_newSVpvn_shareGLOBAL</td>
</tr>
<tr>
<td>pv_display()</td>
<td>NEED_pv_display</td>
<td>NEED_pv_displayGLOBAL</td>
</tr>
<tr>
<td>pv_escape()</td>
<td>NEED_pv_escape</td>
<td>NEED_pv_escapeGLOBAL</td>
</tr>
<tr>
<td>pv_pretty()</td>
<td>NEED_pv_pretty</td>
<td>NEED_pv_prettyGLOBAL</td>
</tr>
<tr>
<td>sv_2pv_flags()</td>
<td>NEED_sv_2pv_flags</td>
<td>NEED_sv_2pv_flagsGLOBAL</td>
</tr>
<tr>
<td>sv_2pbyte()</td>
<td>NEED_sv_2pbyte</td>
<td>NEED_sv_2pbyteGLOBAL</td>
</tr>
<tr>
<td>sv_catpvf_mg()</td>
<td>NEED_sv_catpvf_mg</td>
<td>NEED_sv_catpvf_mgGLOBAL</td>
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<tr>
<td>sv_catpvf_mg_nocontext()</td>
<td>NEED_sv_catpvf_mg_nocontext</td>
<td>NEED_sv_catpvf_mg_nocontextGLOBAL</td>
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<tr>
<td>sv_pvn_force_flags()</td>
<td>NEED_sv_pvn_force_flags</td>
<td>NEED_sv_pvn_force_flagsGLOBAL</td>
</tr>
<tr>
<td>sv_setpvf_mg()</td>
<td>NEED_sv_setpvf_mg</td>
<td>NEED_sv_setpvf_mgGLOBAL</td>
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<tr>
<td>sv_setpvf_mg_nocontext()</td>
<td>NEED_sv_setpvf_mg_nocontext</td>
<td>NEED_sv_setpvf_mg_nocontextGLOBAL</td>
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<tr>
<td>vload_module()</td>
<td>NEED_vload_module</td>
<td>NEED_vload_moduleGLOBAL</td>
</tr>
<tr>
<td>vnewSVpvnf()</td>
<td>NEED_vnewSVpvnf</td>
<td>NEED_vnewSVpvnfGLOBAL</td>
</tr>
<tr>
<td>warner()</td>
<td>NEED_warner</td>
<td>NEED_warnerGLOBAL</td>
</tr>
</tbody>
</table>
To avoid namespace conflicts, you can change the namespace of the explicitly exported functions / variables using the \texttt{DPPP\_NAMESPACE} macro. Just \texttt{#define} the macro before including \texttt{ppport.h}:

\begin{verbatim}
#define DPPP\_NAMESPACE MyOwnNamespace_
#include "ppport.h"
\end{verbatim}

The default namespace is \texttt{DPPP\_.}

The good thing is that most of the above can be checked by running \texttt{ppport.h} on your source code. See the next section for details.

\section*{EXAMPLES}

To verify whether \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, \texttt{ppport.h} can be run as a Perl script to check your source code. Simply say:

\begin{verbatim}
perl ppport.h
\end{verbatim}

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:

\begin{verbatim}
perl ppport.h --compat-version=5.6.0 --cplusplus --patch=test.diff
\end{verbatim}

If you only want your code to be scanned without any suggestions for changes, use:

\begin{verbatim}
perl ppport.h --nochanges
\end{verbatim}

You can specify a different \texttt{diff} program or options, using the \texttt{--diff} option:

\begin{verbatim}
perl ppport.h --diff='diff -C 10'
\end{verbatim}

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 [http://rt.cpan.org/](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 = '(?<!\n)[\\n]|\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 ($@ and grep /^-/i, @ARGV) {
    usage() if "@ARGV" =~ /^--?h(?:elp)?$/;
    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\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 ) : () ) ),


// Source: http://www.openas.com
Open Source Used In Cisco VSM 7.14.2

(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
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|5.011000||p
DEFSV|5.004050||p
END_EXTERN_C|5.005000||p
ENTER|||
ERRSV|5.004050||p
EXTERN|||
EXTERN_C|5.005000||p
F0convert|||n
FREETMPS|||
GIMME_V|5.004000|n
GIMME|||n
GROK_NUMERIC_RADIX|5.007002||p
G_ARRAY|||
G_DISCARD|||
G_EVAL|||
G_METHOD|5.006001||p
G_NOARGS|||
G_SCALAR|||
G_VOID|5.004000|
GetVars|||
GvSVn|5.009003||p
GvSV
Gv_AMupdate
HEf_SVKEY[5.004000]
HeHASH[5.004000]
HeKEY[5.004000]
HeKLEN[5.004000]
HePV[5.004000]
HeSVKEY_force[5.004000]
HeSVKEY_set[5.004000]
HeSVKEY[5.004000]
HeUTF8[5.011000]
HeVAL[5.004000]
HvNAMELEN_get[5.009003]
HvNAME_get[5.009003]
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INT2PTR[5.006000]
IN_LOCALE_COMPILETIME[5.007002]
IN_LOCALE_RUNTIME[5.007002]
IN_LOCALE[5.007002]
IN_PERL_COMPILETIME[5.008001]
IS_NUMBER_GREATER_THAN_UV_MAX[5.007002]
IS_NUMBER_INFINITY[5.007002]
IS_NUMBER_IN_UV[5.007002]
IS_NUMBER_NAN[5.007003]
IS_NUMBER_NEG[5.007002]
IS_NUMBER_NOT_INT[5.007002]
IVSIZE[5.006000]
IVTYPE[5.006000]
IVdf[5.006000]
LEAVE
LVRET
MARK
MULTICALL[5.011000]
MY_CXT_CLONE[5.009002]
MY_CXT_INIT[5.007002]
MY_CXT[5.007003]
MoveD[5.009002]
Move
NOOP[5.005000]
NUM2PTR[5.006000]
NVTYPE[5.006000]
NVef[5.006001]
NVrf[5.006001]
NVgf[5.006001]
Newxc[5.009003]
Newxz[5.009003]
Newx[5.009003]
Nullav
PERL_SYS_INIT3||5.006000|
PERL_SYS_INIT||
PERL_SYS_TERM||5.011000|
PERL_UCHAR_MAX||p
PERL_UCHAR_MIN||p
PERL_UINT_MAX||p
PERL_UINT_MIN||p
PERL ULONG_MAX||p
PERL ULONG_MIN||p
PERL UNUSED_ARG||p
PERL UNUSED_CONTEXT||p
PERL UNUSED DECL||p
PERL UNUSED_VAR||p
PERL UQUAD_MAX||p
PERL UQUAD_MIN||p
PERL USE GCC Brace Groups||p
PERL USHORT_MAX||p
PERL USHORT_MIN||p
PERL_VERSION||p
PL DBsignal||p
PL DBsingle||pn
PL DBsub||pn
PL DBtrace||pn
PL Sv||p
PL Bufend||p
PL Bufptr||p
PL Compiling||p
PL Copline||p
PL Curcop||p
PL Curstash||p
PL Debstash||p
PL Defgv||p
PL Dirty||p
PL Dowarn||pn
PL Errgv||p
PL Error_count||p
PL Expect||p
PL Hexdigit||p
PL Hints||p
PL In_my stash||p
PL In_my||p
PL Last_in_gv||n
PL Laststatval||p
PL Lex_state||p
PL Lex stuff||p
PL Linestr||p
PL Modglobal||n
PL_na|5.004050||pn
PL_no_modify|5.006000||p
PL_ofsgv|||n
PL_parser|5.009005||p
PL_perl_destruct_level|5.004050||p
PL_perldb|5.004050||p
PL_ppaddr|5.006000||p
PL_rsfp_filters|5.004050||p
PL_rsfp|5.004050||p
PL_rs|||n
PL_signals|5.008001||p
PL_stack_base|5.004050||p
PL_stack_sp|5.004050||p
PL_statcache|5.005000||p
PL_stdingv|5.004050||p
PL_sv_arenaroot|5.004050||p
PL_sv_no|5.004050||pn
PL_sv_undef|5.004050||pn
PL_sv_yes|5.004050||pn
PL_tainted|5.004050||p
PL_tainting|5.004050||p
PL_tokenbuf|5.011000||p
POP_MULTICALL|5.011000|
POPi|||n
POPl|||n
POPk|||n
POPpytex|5.007001||n
POPpx|5.005030||n
POPpp|||n
POPS|||n
PTR2IV|5.006000||p
PTR2NV|5.006000||p
PTR2UV|5.006000||p
PTR2nat|5.009003||p
PTR2ul|5.007001||p
PTRV|5.006000||p
PUSHMARK||
PUSH_MULTICALL|5.011000|
PUSHi|||
PUSHmortal|5.009002||p
PUSHa|||
PUSHp|||
PUSHs|||
PUSHu|5.004000||p
PUTBACK|||
PerlIO_clearerr|5.007003|
PerlIO_close|5.007003|
PerlIO_context_layers|5.009004|
PerlIO_eof||5.007003|
PerlIO_error||5.007003|
PerlIO_fileno||5.007003|
PerlIO_fill||5.007003|
PerlIO_flush||5.007003|
PerlIO_get_base||5.007003|
PerlIO_get_bufsiz||5.007003|
PerlIO_get_cnt||5.007003|
PerlIO_get_ptr||5.007003|
PerlIO_read||5.007003|
PerlIO_seek||5.007003|
PerlIO_set_cnt||5.007003|
PerlIO_set_ptrcnt||5.007003|
PerlIO_set_linebuf||5.007003|
PerlIO_stderr||5.007003|
PerlIO_stdin||5.007003|
PerlIO_stdout||5.007003|
PerlIO_tell||5.007003|
PerlIO_unread||5.007003|
PerlIO_write||5.007003|
Perl_signbit||5.009005|n
PoisonFree||5.009004||p
PoisonNew||5.009004||p
PoisonWith||5.009004||p
Poison||5.008000||p
RETVAL||n
Renewc||
Renew||
SAVECLEARSV||
SAVECOMPPAD||
SAVEPADSV||
SAVETMPS||
SAVE_DEF||5.004050||p
SPAGAIN||
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
<table>
<thead>
<tr>
<th>Variable Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>SvNOK_on</td>
</tr>
<tr>
<td>SvNOKp</td>
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<td>SvNOK</td>
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<td>SvNVX</td>
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<td>SvNV_set</td>
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<td>SvPOK_off</td>
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<td>SvPOK_only_UTF8</td>
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<td>SvPV_flags_mutable</td>
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to_utf8_substr||
to_utf8_title[5.007003]
to_utf8_upper[5.007003]
token_free||
token_getmad||
tokenize_use||
tokeq||
tokereport||
too_few_arguments||
too_many_arguments||
uiv_2buf||n
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_uvchr[5.007001]
utf8_to_uvuni[5.007001]
utf8n_to_uvchr|||
utf8n_to_uvuni[5.007001]
utilize|||
uvchr_to_utf8_flags||5.007003|
uvchr_to_utf8|||
uvuni_to_utf8_flags||5.007003|
uvuni_to_utf8||5.007001|
validate_suid|||
varname|||
vcmp||5.009000|
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vdie_common|||
vdie_croak_common|||
vdie|||
vform||5.006000|
visit|||
vivify_defelem|||
vivify_ref|||
vload_module[5.006000]|p
vmess||5.006000|
vnewSVpvn[5.006000][5.004000]|p
vnormal[5.009002]
vnumify[5.009000]
vstringify[5.009000]
vverify[5.009003]
vwarner||5.006000|
vwarn[5.006000]
wait4pid|||
warn_nocontext||vn
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]\[^*]*\*+)* / | /\[^

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
";
    }
} else { undef $hint }

$hint = [$1, [split /,?s+/, $2]]
if m{\^s*\^s+$rcs$+(Hint|Warning):\s+(w+;?s+w+)*\s*$/};

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 = $1 if m{\^s*\^s*Replace:\s+(d+)s+$rcce\s*$};
$replace = $2 if $replace and m{\^s*\^s*define\s+(w+;?s+[^)]*)*>$};
$replace = $2 if $replace and m{\^s*\^s*Replace\s+(w+;?s+[^)]*)*>$};
$replace = $2 if $replace and m{\^s*\^s*Replace (w+) with (w+)\s+s+$rcce\s*$};

$replace = $1 if m{\^s*\^s*Replace\s+(w+) with (w+)\s+s+$rcce\s*$};


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if (m{\^s*$rccs\s+(\w+*(\s*,\w+*)*)\s+depends\s+on\s+(\w+*(\s*,\w+*)*)\s+$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{$_}++, @$_]
}

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 "\n=== $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 "\nShints[$f]" if exists $hints{$f};
      print "\nWARNING:\n$warnings{$f}" if exists $warnings{$f};
      $info++;
    }
    print "\nNo portability information available.\n" 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]* )
| ( ^$HS*\#[^\r\n]*
| "[^"\\]*(?:\\.[^"\\]*)*"
| '[^'\\]*(?:\\.[^'\\]*)*'
| / (?: \*[^*]*\*+(?:[^$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;

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my $func;

for $func (keys %API) {
    my $match = $func;
    $match .= "|\revreplace\$func" if exists $revreplace{$func};
    if ($c =~ /\Ab(?:\.Perl_)?(?:\$match)\b/) {
        $file{uses_replace}{$1}++ if exists $revreplace{$func} & $1 eq $revreplace{$func};
        $file{uses_Perl}{$func}++ if $c =~ /\Ab\Perl_$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 $file{uses}{'$_'};
                }
            }
            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 $need{$_}) {
        $file{defined \$_?\'needed_global\':\'needed_static\'}{$_}++;
    } else { warning("Possibly wrong #define \$_ 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);
}
}
for $func (sort keys %{$file{uses_replace}}) {
warning("Uses $func instead of $replace{$func}");
$file{changes} += ($c =~ s/\b$func\b/$replace{$func}/g);

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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";
        }
    } else { # $file{needs}->{$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_${func}_GLOBAL\b.*\$LF//mg);
    }
}
if ($message) {
    diag($message);
    $file{changes} += ($c =~ s/^$HS*#$HS*define$HS+_GLOBAL$ 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$HS+NEED_\w+).*?$LF//m)
            || ($c =~ s/^(?=$HS*#$HS*include.*\Q$ppport\E.*)\b.*$LF//mg)
            || ($c =~ s/^(?=$HS*#$HS*include.*XSUB.*\b.*$LF//mg)
            || ($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 $opt{patch}) {
            unless ($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 $tmp |") {
            while (<F>) {
                s/\Q$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, $3); }
elsesif ($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
{
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"

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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

---

abstract: 'Perl interpreter-based 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 6.66, 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

Found in path(s):
* /opt/cola/permits/1103682419_1604395220.28/0/perl-threads-1.87-4.el7-1.src.rpm-cosi-expand-archive-RxZXp7EV/threads-1.87.tar.gz-cosi-expand-archive-UXiPLJyw/threads-1.87/META.yml
No license file was found, but licenses were detected in source scan.

License: GPLv+ or Artistic

Found in path(s):
* /opt/cola/permits/1103682419_1604395220.28/0/perl-threads-1.87-4.el7-1.src.rpm-cosi-expand-archive-RxZXp7EV/perl-threads.spec
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/1103682419_1604395220.28/0/perl-threads-1.87-4.el7-1.src.rpm-cosi-expand-archive-RxZXp7EV/threads-1.87.tar.gz-cosi-expand-archive-UXiPLJyw/threads-1.87/examples/pool.pl
* /opt/cola/permits/1103682419_1604395220.28/0/perl-threads-1.87-4.el7-1.src.rpm-cosi-expand-archive-RxZXp7EV/threads-1.87.tar.gz-cosi-expand-archive-UXiPLJyw/threads-1.87/examples/pool_reuse.pl
No license file was found, but licenses were detected in source scan.
=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
I<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, I<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
...
}
=over
=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()>.

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This will wait for the corresponding thread to complete its execution. When the thread finishes, `C<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<join()>` is determined at the time of thread creation.

```perl
# 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<join()>` or `C<detach()>` on an already joined thread will cause an error to be thrown.

```perl
=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.

=item threads->yield()
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.

=item threads-&gt;list()

=item threads-&gt;list(threads::all)

=item threads-&gt;list(threads::running)

=item threads-&gt;list(threads::joinable)

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-&gt;join() will not I<block>).

=item $thr1-&gt;equal($thr2)

Tests if two threads objects are the same thread or not. This is overloaded to the more natural forms:

    if ($thr1 == $thr2) {
        print("Threads are the same\n");
    }

# or

    if ($thr1 != $thr2) {
        print("Threads differ\n");
    }

(Thread comparison is based on thread IDs.)

=item async BLOCK;

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 semicolon after the closing brace. Like C<threads-E&gt;create(), C<async> returns a I<threads> object.
Threads are executed in an \texttt{eval} context. This method will return \texttt{undef} if the thread terminates \texttt{normal}. Otherwise, it returns the value of \texttt{$@} associated with the thread's execution status in its \texttt{eval} context.

This \texttt{private} method returns the memory location of the internal thread structure associated with a 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.

Class method that allows a thread to obtain its own \texttt{handle}.

The usual method for terminating a thread is to \texttt{return \texttt{EXPR}} from the entry point function with the appropriate return value(s).

If needed, a thread can be exited at any time by calling \texttt{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)}.

When called from a thread, this behaves like \texttt{exit} (i.e., the exit status code is ignored).

When called from the \texttt{main} thread, this behaves the same as \texttt{exit}. 

=head1 EXITING A THREAD

=head1 EXITING A THREAD

=head1 EXITING A THREAD
Calling C<die()> in a thread indicates an abnormal exit for the thread. Any C<$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 C<die()> call.

Calling L<exit()> inside a thread causes the whole application to terminate. Because of this, the use of C<exit()> inside threaded code, or in modules that might be used in threaded applications, is strongly discouraged.

If C<exit()> really is needed, then consider using the following:

    threads->exit() if threads->can('exit');  # Thread friendly
    exit(status);

This globally overrides the default behavior of calling C<exit()> inside a thread, and effectively causes such calls to behave the same as C<threads-E<gt>exit()> . In other words, with this setting, calling C<exit()> causes only the thread to terminate.

Because of its global effect, this setting should not be used inside modules or the like.

The I<main> thread is unaffected by this setting.

This overrides the default behavior of C<exit()> inside the newly created thread only.

This can be used to change the I<exit thread only> behavior for a thread after it has been created. With a I<true> argument, C<exit()> will cause only the thread to exit. With a I<false> argument, C<exit()> will terminate the application.

The I<main> thread is unaffected by this call.

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

=head1 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()> or 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 C<-E<gt>create()> with a hash reference as the first argument:
my $thr = threads->create({'context' => 'list'}, \&foo);
...
my @results = $thr->join();
In the above, the threads object is returned to the parent thread in scalar
context, and the thread's entry point function C<foo> will be called in list
(array) context such that the parent thread can receive a list (array) from
the C<-E<gt>join()> call. (C<'array'> is synonymous with C<'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:
my $thr = threads->create({'context' => 'void'}, \&foo);
...
$thr->join();
The context type may also be used as the I<key> in the hash reference followed
by a I<true> value:
threads->create({'scalar' => 1}, \&foo);
...
my ($thr) = threads->list();
my $result = $thr->join();
=head2 Implicit context
If not explicitly stated, the thread's context is implied from the context
of the C<-E<gt>create()> call:
# Create thread in list context
my ($thr) = threads->create(...);
# Create thread in scalar context
my $thr = threads->create(...);
# Create thread in void context
threads->create(...);
=head2 $thr->wantarray()
This returns the thread's context in the same manner as
L<wantarray()|perlfunc/"wantarray">.
=head2 threads->wantarray()
Class method to return the current thread's context. This returns the same
value as running L<wantarray()|perlfunc/"wantarray"> inside the current

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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.

=over

=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()> I<(for pthreads platforms)>, or supply the stack size to C<CreateThread()> I<(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
L<kill()|perlfunc/"kill SIGNAL, LIST">. For example, 'SIGTERM', 'TERM' and (depending on the OS) 15 are all valid arguments to C<|kill()|>.

Returns the thread object to allow for method chaining:

$thr->kill('SIG...')->join();

=back

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:

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();

Here's another simplistic example that illustrates the use of thread signalling in conjunction with a semaphore to provide rudimentary suspend and resume capabilities:

use threads;
use Thread::Semaphore;

sub thr_func
{
    my $sema = shift;

    # Thread 'suspend/resume' signal handler
    $SIG{'STOP'} = sub {
        $sema->down();  # Thread suspended
        $sema->up();    # Thread resumes
    };
}
CAVEAT: The thread signalling capability provided by this module does not actually send signals via the OS. It <em>emulates</em> signals at the Perl-level such that signal handlers are called in the appropriate thread. For example, sending `C<$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 <em>stuck</em> 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 `<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 `man` page for `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 `threads->exit()`. For example, the thread may have terminated because of an error, or by using `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(1<SIZE>)` returned 22

The specified `1<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 `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 `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:
$thr->set_stack_size($size);

=item Cannot signal threads without safe signals

Safe signals must be in effect to use the C<-E<gt>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<-E<gt>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 I<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 C<require> (and C<import> if needed):

    sub thr_func
    {
        require Unsafe::Module
        # Unsafe::Module->import(...);

        ....
    }

If the module is needed inside the I<main> thread, try modifying your
application so that the module is loaded (again using C<br>require> and C<br>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 C<br>join()> or C<br>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<br>Thread::Queue> to notify threads of pending work. The CPAN distribution of this module contains a simple example (F<examples/pool_reuse.pl>) illustrating the creation, use and monitoring of a pool of I<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 C<br>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 I<system> calls (e.g., using C<br>system()> or back-ticks) made from threads use the environment variable settings from the I<main> thread. In other words, changes made to C<br>%ENV> in a thread will not be visible in I<system> calls made by that thread.

To work around this, set environment variables as part of the I<system> call. For example:

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 I<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:

```
# 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/> and L<perlipc/> for more details.

Safe signals is the default behavior, and the old, immediate, unsafe
signalling behavior is only in effect in the following situations:
* Perl has been built with `PERL_OLD_SIGNALS` (see `perl -V`).

* The environment variable `PERL_SIGNALS` is set to `unsafe` (see `perlrun/PERL_SIGNALS`).

* The module `Perl::Unsafe::Signals` is used.

If unsafe signals is in effect, then signal handling is not thread-safe, and the `kill()` signalling method cannot be used.

**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.

**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 `Data::Dumper` or `Storable`), and then reconstituting it in the joining thread. If you're using Perl 5.10.0 or later, and if the class supports `shared objects|threads::shared/OBJECTS`, you can pass them via `shared queues|Thread::Queue`.

**END blocks in threads**

It is possible to add `BEGIN, UNITCHECK, CHECK, INIT and END` to threads by using `require` or `eval` with the appropriate code. These `END` blocks will then be executed when the thread's interpreter is destroyed (i.e., either during a `join()` call, or at program termination).

However, calling any `threads` methods in such an `END` block will most likely fail (e.g., the application may hang, or generate an error) due to mutexes that are needed to control functionality within the `threads` module.

For this reason, the use of `END` blocks in threads is **strongly discouraged.**

**Open directory handles**

In perl 5.14 and higher, on systems other than Windows that do not support the `fchdir` C function, directory handles (see `opendir` ) 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>


Perl threads mailing list: L<http://lists.perl.org/list/ithreads.html>

Stack size discussion: L<http://www.perlmonks.org/?node_id=532956>

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=head1 ACKNOWLEDGEMENTS

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Stack size API

=cut

Found in path(s):
* /opt/cola/permits/1103682419_1604395220.28/0/perl-threads-1.87-4.el7-1.src.rpm-cosi-expand-archive-RxZXp7EV/threads-1.87.tar.gz-cosi-expand-archive-UXiPLJyv/threads-1.87/lib/threads.pm

1.531 jackson-databind 1.9.13

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That's all there is to it! (This file is under construction.)

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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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<?xml version="1.0" encoding="UTF-8"?>
<soap:Envelope xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/">
  <soap:Body>
    <soap:Fault>
      <faultcode xmlns="http://schemas.xmlsoap.org/soap/envelope/">soap:Server</faultcode>
      <faultstring xmlns="http://schemas.xmlsoap.org/soap/envelope/">PFS_LICENSE_CREATION_FAILURE</faultstring>
      <detail xmlns="http://schemas.xmlsoap.org/soap/envelope/">
        <Exception>
          <StatusCode>0x8004C600</StatusCode>
          <Message><![CDATA[Problme lors de l'acquisition de la licence. Merci de ressayer ultieurement.]]&gt;</Message>
        </Exception>
      </detail>
    </soap:Fault>
  </soap:Body>
</soap:Envelope>

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<?xml version="1.0" encoding="utf-8"?>
<soap:Envelope xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/"
<soap:Body>
<AcquireLicenseResponse xmlns="http://schemas.microsoft.com/DRM/2007/03/protocols">
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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
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
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
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5. A program that contains no derivative of any portion of the
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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
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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
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
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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.

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 * Hibernate, Relational Persistence for Idiomatic Java
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package org.hibernate.annotations.common.reflection.java;

import java.lang.reflect.Type;
import java.util.Collection;
import org.hibernate.annotations.common.reflection.XClass;
import org.hibernate.annotations.common.reflection.java.generics.TypeEnvironment;

/**
   * @author Emmanuel Bernard
   * @author Paolo Perrotta
   */
class JavaXSimpleType extends JavaXType {

   public JavaXSimpleType(Type type, TypeEnvironment context, JavaReflectionManager factory) {
      super( type, context, factory );
   }

   public boolean isArray() {
      return false;
   }

   public boolean isCollection() {
      return false;
   }

   public XClass getElementClass() {
      return toXClass( approximate() );
   }

   public XClass getClassOrElementClass() {
return getElementClass();
}

public Class<? extends Collection> getCollectionClass() {
return null;
}

public XClass getType() {
return toXClass( approximate() );
}

public XClass getMapKey() {
return null;
}

/*
* Hibernate, Relational Persistence for Idiomatic Java
*
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* Boston, MA 02110-1301 USA
*/

package org.hibernate.annotations.common.reflection.java.generics;

import java.lang.reflect.GenericArrayType;
import java.lang.reflect.ParameterizedType;
import java.lang.reflect.Type;
import java.lang.reflect.TypeVariable;
import java.lang.reflect.WildcardType;
import java.util.HashMap;

/**
* Binds formal type arguments (typically T, E, etc.) to actual types.
* @author Davide Marchignoli
* @author Paolo Perrotta
*/

class SimpleTypeEnvironment extends HashMap<Type, Type> implements TypeEnvironment {

    private static final long serialVersionUID = 1L;

    private final TypeSwitch<Type> substitute = new TypeSwitch<Type>() {
        @Override
        public Type caseClass(Class classType) {
            return classType;
        }

        @Override
        public Type caseGenericArrayType(GenericArrayType genericArrayType) {
            Type originalComponentType = genericArrayType.getGenericComponentType();
            Type boundComponentType = bind(originalComponentType);
            // try to keep the original type if possible
            if (originalComponentType == boundComponentType) {
                return genericArrayType;
            }
            return TypeFactory.createArrayType(boundComponentType);
        }

        @Override
        public Type caseParameterizedType(ParameterizedType parameterizedType) {
            Type[] originalArguments = parameterizedType.getActualTypeArguments();
            Type[] boundArguments = substitute(originalArguments);
            // try to keep the original type if possible
            if (areSame(originalArguments, boundArguments)) {
                return parameterizedType;
            }
            return TypeFactory.createParameterizedType(parameters)
                       parameterizedType.getRawType(), boundArguments, parameterizedType.getOwnerType());
        }

    }

    private boolean areSame(Object[] array1, Object[] array2) {
        if (array1.length != array2.length) {
            return false;
        }
        for (int i = 0; i < array1.length; i++) {
            if (array1[i] != array2[i]) {
                return false;
            }
        }
    }
}
return true;

@Override
public Type caseTypeVariable(TypeVariable typeVariable) {
    if ( !containsKey( typeVariable )) {
        return typeVariable;
    }
    return get( typeVariable );
}

@Override
public Type caseWildcardType(WildcardType wildcardType) {
    return wildcardType;
}

public SimpleTypeEnvironment(Type[] formalTypeArgs, Type[] actualTypeArgs) {
    for (int i = 0; i < formalTypeArgs.length; i++) {
        put( formalTypeArgs[i], actualTypeArgs[i] );
    }
}

public Type bind(Type type) {
    return substitute.doSwitch( type );
}

private Type[] substitute(Type[] types) {
    Type[] substTypes = new Type[types.length];
    for ( int i = 0; i < substTypes.length ; i++ ) {
        substTypes[i] = bind( types[i] );
    }
    return substTypes;
}

1.541 libaio 0.3.109
1.541.1 Available under license :

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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.

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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
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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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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   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
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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.

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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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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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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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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* /opt/ws_local/PERMITS_SQL/1018976942_1591372579.04/0/jsch-0-1-51-sources-jar/com/jcraft/jsch/JSchAuthCancelException.java
* /opt/ws_local/PERMITS_SQL/1018976942_1591372579.04/0/jsch-0-1-51-sources-jar/com/jcraft/jsch/ChannelDirectTCPIPDaemon.java
* /opt/ws_local/PERMITS_SQL/1018976942_1591372579.04/0/jsch-0-1-51-sources-jar/com/jcraft/jsch/Identity.java
* /opt/ws_local/PERMITS_SQL/1018976942_1591372579.04/0/jsch-0-1-51-sources-jar/com/jcraft/jsch/JSch.java
* /opt/ws_local/PERMITS_SQL/1018976942_1591372579.04/0/jsch-0-1-51-sources-jar/com/jcraft/jsch/ProxyHTTP.java
* /opt/ws_local/PERMITS_SQL/1018976942_1591372579.04/0/jsch-0-1-51-sources-jar/com/jcraft/jsch/PortWatcher.java
* /opt/ws_local/PERMITS_SQL/1018976942_1591372579.04/0/jsch-0-1-51-sources-jar/com/jcraft/jsch/ChannelSession.java
* /opt/ws_local/PERMITS_SQL/1018976942_1591372579.04/0/jsch-0-1-51-sources-jar/com/jcraft/jsch/DHGEX256.java
* /opt/ws_local/PERMITS_SQL/1018976942_1591372579.04/0/jsch-0-1-51-sources-jar/com/jcraft/jsch/PortWatcher.java
* /opt/ws_local/PERMITS_SQL/1018976942_1591372579.04/0/jsch-0-1-51-sources-jar/com/jcraft/jsch/ChannelSession.java
* /opt/ws_local/PERMITS_SQL/1018976942_1591372579.04/0/jsch-0-1-51-sources-jar/com/jcraft/jsch/Packet.java
* /opt/ws_local/PERMITS_SQL/1018976942_1591372579.04/0/jsch-0-1-51-sources-jar/com/jcraft/jsch/ForwardedTCPIPDaemon.java
* /opt/ws_local/PERMITS_SQL/1018976942_1591372579.04/0/jsch-0-1-51-sources-jar/com/jcraft/jce/KeyPairGenDSA.java
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/*

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1018976942_1591372579.04/0/jsch-0-1-51-sources-
jar/com/jcraft/jsch/jce/PBKDF.java
* /opt/ws_local/PERMITS_SQL/1018976942_1591372579.04/0/jsch-0-1-51-sources-
jar/com/jcraft/jsch/PBKDF.java
* /opt/ws_local/PERMITS_SQL/1018976942_1591372579.04/0/jsch-0-1-51-sources-
jar/com/jcraft/jsch/ConfigRepository.java
* /opt/ws_local/PERMITS_SQL/1018976942_1591372579.04/0/jsch-0-1-51-sources-
jar/com/jcraft/jsch/KeyPairPKCS8.java

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*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1018976942_1591372579.04/0/jsch-0-1-51-sources- 
jar/com/jcraft/jsch/HostKeyRepository.java
* /opt/ws_local/PERMITS_SQL/1018976942_1591372579.04/0/jsch-0-1-51-sources- 
jar/com/jcraft/jsch/GSSContext.java
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* /opt/ws_local/PERMITS_SQL/1018976942_1591372579.04/0/jsch-0-1-51-sources-
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*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1018976942_1591372579.04/0/jsch-0-1-51-sources-jar/com/craft/jsch/UserAuthGSSAPIWithMIC.java
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*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1018976942_1591372579.04/0/jsch-0-1-51-sources-jar/com/jcraft/jsch/jcraft/HMAC.java
* /opt/ws_local/PERMITS_SQL/1018976942_1591372579.04/0/jsch-0-1-51-sources-jar/com/jcraft/jsch/jcraft/HMACSHA1.java
* /opt/ws_local/PERMITS_SQL/1018976942_1591372579.04/0/jsch-0-1-51-sources-jar/com/jcraft/jsch/RequestAgentForwarding.java
* /opt/ws_local/PERMITS_SQL/1018976942_1591372579.04/0/jsch-0-1-51-sources-jar/com/jcraft/jsch/ChannelAgentForwarding.java
* /opt/ws_local/PERMITS_SQL/1018976942_1591372579.04/0/jsch-0-1-51-sources-jar/com/jcraft/jsch/HMACMD5.java
* /opt/ws_local/PERMITS_SQL/1018976942_1591372579.04/0/jsch-0-1-51-sources-jar/com/jcraft/jsch/HMACMD596.java
* /opt/ws_local/PERMITS_SQL/1018976942_1591372579.04/0/jsch-0-1-51-sources-jar/com/jcraft/jsch/HMACSHA196.java
* /opt/ws_local/PERMITS_SQL/1018976942_1591372579.04/0/jsch-0-1-51-sources-jar/com/jcraft/jsch/Logger.java
* /opt/ws_local/PERMITS_SQL/1018976942_1591372579.04/0/jsch-0-1-51-sources-jar/com/jcraft/jsch/jgss/GSSContextKrb5.java
* /opt/ws_local/PERMITS_SQL/1018976942_1591372579.04/0/jsch-0-1-51-sources-jar/com/jcraft/jsch/ProxySOCKS4.java
1.552 perl-data-dumper 2.145

1.552.1 Available under license:

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

---
abstract: unknown
author:
- unknown
build_requires:
  Test::More: 0.98
configure_requires:
  ExtUtils::MakeMaker: 0
dynamic_config: 0
generated_by: 'ExtUtils::MakeMaker version 6.64, CPAN::Meta::Converter version 2.120921'
license: unknown
meta-spec:
  url: http://module-build.sourceforge.net/META-spec-v1.4.html
  version: 1.4
name: Data-Dumper
no_index:
directory:
  - t
  - inc
requires: {}
resources:
  bugtracker: http://rt.perl.org/perlbug/
  repository: 'git://perl5.git.perl.org/perl.git perl-git'
  x_MailingList: http://lists.cpan.org/showlist.cgi?name=perl5-porters
version: 2.145

Found in path(s):
No license file was found, but licenses were detected in source scan.

License: GPL+ or Artistic

Found in path(s):
* /opt/cola/permits/1103682059_1604394110.4/0/perl-Data-Dumper-2.145-3.el7-1.src.rpm-cosi-expand-archive-z0D2RnTI/perl-Data-Dumper.spec
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/*
   *********************************************************************************/
ppport.h -- Perl/Pollution/Portability Version 3.20

Automatically created by Devel::PPPort running under perl 5.012004.

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.

------------------------------------------------------------------------
=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
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.

OPTIONS

-help

Display a brief usage summary.

-version

Display the version of F<ppport.h>.

--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.

--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.

--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.

--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 pport.h --list-provided

to see which API elements are provided by pport.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.

<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_newCONSTSUBGLOBAL</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_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>
<tr>
<td>sv_catpvf_mg()</td>
<td>NEED_sv_catpvf_mg</td>
<td>NEED_sv_catpvf_mgGLOBAL</td>
</tr>
<tr>
<td>sv_catpvf_mg_nocntxt()</td>
<td>NEED_sv_catpvf_mg_nocntxt</td>
<td>NEED_sv_catpvf_mg_nocntxt_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_setpvf_mg()</td>
<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 `DPPP_NAMESPACE` macro. Just `#define` the macro before including `ppport.h`:

```c
#define DPPP_NAMESPACE MyOwnNamespace_
#include "ppport.h"
```

The default namespace is `DPPP_`.

=back

The good thing is that most of the above can be checked by running `ppport.h` on your source code. See the next section for details.

=head1 EXAMPLES

To verify whether `ppport.h` is needed for your module, whether you should make any changes to your code, and whether any special defines should be used, `ppport.h` can be run as a Perl script to check your source code. Simply say:

```bash
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:

```bash
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:

```bash
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 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) = $0 =~ /([\w.]+)$/;
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+/|\(\[^\|\]*\)\|\(\[^\|\]*\)\|\(\[^\|\]*\)\|\(\w+\)$/ ? ($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|| BhkDISABLE|5.014000| BhkENABLE|5.014000| BhkENTRY_set|5.014000| BhkENTRY|| BhkFLAGS|| CALL_BLOCK_HOOKS|| CLASS||n CPERLscope|5.005000||p CX_CURPAD_SAVE||| CX_CURPAD_SV|| CopFILEAV|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|5.010001||p DEFSV|5.004050||p END_EXTERN_C|5.005000||p ENTER|| ERRSV|5.004050||p EXTEND|| EXTERN_C|5.005000||p F0convert||n FREEETMPS|| GIMME_V|5.004000||n GIMME||n
GROK_NUMERIC_RADIX
G_ARRAY
G_DISCARD
G_EVAL
G_METHOD
G_NOARGS
G_SCALAR
G_VOID
GetVars
GvSVn
GvSV
Gv_AMupdate
HEf_EVKEY
HeHASH
HeKEY
HeKLEN
HePV
HeSVKEY_force
HeSVKEY_set
HeSVKEY
HeUTF8
HeVAL
HvENAME
HvNAMELEN_get
HvNAME_get
HvNAME
INT2PTR
IN_LOCALE_COMPILETIME
IN_LOCALE_RUNTIME
IN_LOCALE
IN_PERL_COMPILETIME
IS_NUMBER_GREATER_THAN_UV_MAX
IS_NUMBER_INFINITY
IS_NUMBER_IN_UV
IS_NUMBER_NAN
IS_NUMBER_NEG
IS_NUMBER_NOT_INT
IVSIZE
IVTYPE
IVdf
LEAVE
LINKLIST
LVRET
MARK
MULTICALL
MY_CXT_CLONE
MY_CXT_INIT
MY_CXT
MY_CXT_CLONE
MY_CXT_INIT
MY_CXT
SvIOK_on
SvIOKp
SvIOK
SvIVX
SvIV
SvIV_set
SvIVx
SvIV
SvIsCOW_shared_hash
SvIsCOW
SvLEN_set
SvLEN
SvLOCK
SvMAGIC_set
SvNIOK_off
SvNIOKp
SvNIOK
SvNOK_off
SvNOK_only
SvNOK_on
SvNOKp
SvNOK
SvNVX
SvNV_nomg
SvNV_set
SvNVx
SvNV
SvOK
SvOOK_offset
SvOOK
SvPOK_off
SvPOK_only_UTF8
SvPOK_only
SvPOK_on
SvPOKp
SvPOK
SvPVX_const
SvPVX_mutable
SvPVX
SvPV_const
SvPV_flags_const_nolen
SvPV_flags_const
SvPV_flags_mutable
SvPV_flags
SvPV_force_flags_mutable
SvPV_force_flags_nolen
SvPV_force_flags
SvPV_force_mutable
SvSetMagicSV|5.004000|
SvSetSV_nosteal|5.004000|
SvSetSV||
SvTAINTED_off|5.004000|
SvTAINTED_on|5.004000|
SvTAINTED|5.004000|
SvTAINT||
SvTYPE||
SvUNLOCK|5.007003|
SvUOK|5.007001|5.006000|p
SvUPGRADE||
SvUTF8_off|5.006000|
SvUTF8_on|5.006000|
SvUTF8|5.006000|
SvUVX|x|5.004000|5.006000|
p
SvUVX|5.004000|p
SvUVX_nomg|5.009001|p
SvUV_set|5.009003|p
SvUVx|5.004000|p
SvUV|5.004000|p
SvVOK|5.008001|
SvVSTRING_mg|5.009004|p
THIS||n
UNDERBAR|5.009002|p
UTF8_MAXBYTES|5.009002|p
UVSIZE|5.006000|p
UVTYPE|5.006000|p
UVX|x|5.007001|
p
UVof|5.006000|p
UVuf|5.006000|p
UVxf|5.006000|p
WARN_ALL|5.006000|p
WARN_AMBIGUOUS|5.006000|p
WARN_ASSERTIONS|5.0014000|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
WARN_PROTOTYPE|5.006000||p
WARN_QW|5.006000||p
WARN_RECURSION|5.006000||p
WARN_REDEFINE|5.006000||p
WARN_REGEXP|5.006000||p
WARN_RESERVED|5.006000||p
WARN_SEMICOLON|5.006000||p
WARN_SEVERE|5.006000||p
WARN_SIGNAL|5.006000||p
WARN_SUBSTR|5.006000||p
WARN_SYNTAX|5.006000||p
WARN_TAINT|5.006000||p
WARN_THREADS|5.008000||p
WARN_UNINITIALIZED|5.006000||p
WARN_UNOPENED|5.006000||p
WARN_UNPACK|5.006000||p
WARN_UNTIE|5.006000||p
WARN_UTF8|5.006000||p
WARN_VOID|5.006000||p
XCPT_CATCH|5.009002||p
XCPT_RETHROW|5.009002||p
XCPT_TRY_END|5.009002||p
XCPT_TRY_START|5.009002||p
XPUSHq||
XPUSHq mortal|5.009002||p
XPUSHq||
XPUSHq||
XPUSHq||
XPUSHq u|5.004000||p
XSPROTO|5.010000||p
XSRETURN EMPTY||
XSRETURN IV||
XSRETURN NO||
XSRETURN NV||
XSRETURN PV||
anonymise_cv_maybe
any_dup
ao
append_madprops
apply_atrs_my
apply_atrs_string[5.006001]
apply_atrs
apply
assert_utf8_cache_coherent
atfork_lock[5.007003]
atfork_unlock[5.007003]
av_arylen_p[5.009003]
av_clear
av_create_and_push[5.009005]
av_create_and_unshift_one[5.009005]
av_delete[5.006000]
av_exists[5.006000]
av_extend
av_fetch
av_fill
av_iter_p[5.011000]
av_len
av_make
av_pop
av_push
av_reify
av_shift
av_store
av_undef
av_unshift
ax
bad_type
bind_match
block_end
block_gimme[5.004000]
block_start
blockhook_register[5.013003]
boolSV[5.004000]
boot_core_PerlIO
boot_core_PERLIO
boot_core_UNIVERSAL
boot_core_mro
bytes_cmp_utf8[5.013007]
bytes_from_utf8[5.007001]
bytes_to_uni
bytes_to_utf8[5.006001]
call_argv[5.006000]
call_atexit[5.006000]
call_list[5.004000]
call_method|5.006000|p
call_pv|5.006000|p
call_sv|5.006000|p
caller_cx|5.013005|
calloc|5.007002|n
cando||
cast_i32|5.006000|
cast_iv|5.006000|
cast_ulong|5.006000|
cast_uv|5.006000|
check_type_and_open||
check_uni||
check_utf8_print||
checkcomma||
checkposixcc||
ckWARN|5.006000|p
ck_entersub_args_list|5.013006|
ck_entersub_args_proto_or_list|5.013006|
ck_entersub_args_proto|5.013006|
ck_warner_d|5.011001|v
ck_warner|5.011001|v
ckwarn_common||
ckwarn_d|5.009003|
ckwarn|5.009003|
cl_and||n
cl_anything||n
clear_placeholders||
clone_params_del||n
clone_params_new||n
closest_cop||
convert||
cop_free||
cop_hints_2hv|5.013007|
cop_hints_fetch_pvn|5.013007|
cop_hints_fetch_pvs|5.013007|
cop_hints_fetch_pv|5.013007|
cop_hints_fetch_sv|5.013007|
cophh_2hv|5.013007|
cophh_copy|5.013007|
cophh_delete_pvn|5.013007|
cophh_delete_pvs|5.013007|
cophh_delete_pv|5.013007|
cophh_delete_sv|5.013007|
cophh_fetch_pvn|5.013007|
cophh_fetch_pvs|5.013007|

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gp_free||
gp_ref||
grok_bin|5.007003||p
grok_bslash_c|||
grok_bslash_o|||
grok_hex|5.007003||p
grok_number|5.007002||p
grok_numeric_radix|5.007002||p
grok_oct|5.007003||p
group_end||
gv_AVadd||
gv_HVadd||
gv_IOadd||
gv_SVadd||
gv_add_by_type|5.011000|
gv_autoload4|5.004000|
gv_check||
gv_const_sv|5.009003|
gv_dump|5.006000|
gv_efullname3|5.004000|
gv_efullname4|5.006001|
gv_efullname||
gv_ename||
gv_fetchfile_flags|5.009005|
gv_fetchfile||
gv_fetchmeth_autoload|5.007003|
gv_fetchmethod_autoload|5.004000|
gv_fetchmethod_flags|5.011000|
gv_fetchmethod||
gv_fetchmeth||
gv_fetchpvcn_flags|5.009002||p
gv_fetchpvc|5.009004||p
gv_fetchpvc||
gv_fetchs|5.009002||p
gv_fullname3|5.004000|
gv_fullname4|5.006001|
gv_fullname||
gv_get_super_pkg||
gv_handler|5.007001|
gv_init_sv||
gv_init||
gv_magicalize_isa||
gv_magicalize_overload||
gv_name_set|5.009004|
gv_stashpvc|5.004000||p
gv_stashpvc|5.009003||p
gv_stashpvc||
gv_stashsv||
gv_try_downgrade
he_dup
hek_dup
hfreenentries
hsplit
hv_assert
hv_auxinit
hv_backreferences_p
hv_clear_placeholders[[5.009001]
hv_clear
hv_common_key_len[[5.010000]
hv_common[[5.010000]
hv_delayfree_ent[[5.004000]
hv_delete_common
hv_delete_ent[[5.004000]
hv_delete
hv_eiter_p[[5.009003]
hv_eiter_set[[5.009003]
hv_name_set
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_flags\|\|  
hv_undef\|\|  
ibcmp\_locale\|5.004000\|  
ibcmp\_utf8\|5.007003\|  
ibcmp\|\|  
include\|\|  
incpush\_if\_exists\|\|  
incpush\_use\_sep\|\|  
incpush\|\|  
group\|\|  
init\_argv\_symbols\|\|  
init\_dbargs\|\|  
init\_debugger\|\|  
init\_global\_struct\|\|  
init\_i18n10n\|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\|  
instr\|n  
intro\_my\|\|  
intuit\_method\|\|  
intuit\_more\|\|  
invert\|\|  
invlist\_array\|\|  
invlist\_destroy\|\|  
invlist\_extend\|\|  
invlist\_intersection\|\|  
invlist\_len\|\|  
invlist\_max\|\|  
invlist\_set\_array\|\|  
invlist\_set\_len\|\|  
invlist\_set\_max\|\|  
invlist\_trim\|\|  
invlist\_union\|\|  
nvole\_exception\_hook\|\|  
io\_close\|\|  
is\ALNUMC\|5.006000\|p  
is\ALPHA\|\|  
is\ASCII\|5.006000\|p
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is_utf8_X_LV_LVT_V
is_utf8_X_LV
is_utf8_X_L
is_utf8_X_T
is_utf8_X_V
is_utf8_X_begin
is_utf8_X_extend
is_utf8_X_non_hangul
is_utf8_X_prepend
is_utf8_alnum
is_utf8_alpha
is_utf8_ascii
is_utf8_char
is_utf8_char_slow
is_utf8_common
is_utf8_digit
is_utf8_graph
is_utf8_idcont
is_utf8_idfirst
is_utf8_lower
is_utf8_mark
is_utf8_perl_space
is_utf8_perl_word
is_utf8_posix_digit
is_utf8_print
is_utf8_punct
is_utf8_space
is_utf8_string_loclen
is_utf8_string_loc
is_utf8_string
is_utf8_upper
is_utf8_xdigit
is_utf8_xidcont
is_utf8_xidfirst
isa_lookup
items
ix
jmaybe
join_exact
keyword_plugin_standard
keyword
leave_scope
lex_bufutf8
lex_discard_to
lex_grow_linestr
lex_next_chunk
lex Peek_unichar
lex_read_space[5.011002]
lex_read_to[5.011002]
lex_read_unichar[5.011002]
lex_start[5.009005]
lex_stuff_pvn[5.011002]
lex_stuff_pvs[5.013005]
lex_stuff_pv[5.013006]
lex_stuff_sv[5.011002]
lex_unstuff[5.011002]
listkids[]
list[]
load_module_nocontext[5.0
load_module[5.006000][p
localize[]
looks_like_bool[]
looks_like_number[]
lop[]
mPUSH[5.009002][p
mPUSHn[5.009002][p
mPUSHp[5.009002][p
mPUSHs[5.010001][p
mPUSHu[5.009002][p
mXPUSH[5.009002][p
mXPUSHn[5.009002][p
mXPUSHp[5.009002][p
mXPUSHs[5.010001][p
mXPUSHu[5.009002][p
mad_free[]
madlex[]
madparse[]
magic_clear_all_env[]
magic_clearenv[]
magic_clearhints[]
magic_clearhint[]
magic_clearisa[]
magic_clearpack[]
magic_clearsig[]
magic_dump[5.006000]
magic_existspack[]
magic_freearylen_p[]
magic_freeovrld[]
magic_getarylen[]
magic_getdefelem[]
magic_getnkeys[]
magic_getpack[]
magic_getpos[]
magic_getsig[]
magic_getsubstr[]
memNEs[5.009005]|p
memNE[5.004000]|p
mem_collxfrm||n
mem_log_common||n
mess_alloc||
mess_nocontext||n
mess_sv[5.013001]
mess[5.006000]|v
method_common||
mfree[5.007002]|n
mg_clear||
mg_copy||
mg_dup||
mg_findext[5.013008]
mg_find||
mg_free_type[5.013006]
mg_free||
mg_get||
mg_length[5.005000]
mg_localize||
mg_magical||
mg_set||
mg_size[5.005000]
mini_mktime[5.007002]
missingterm||
mode_from_discipline||
modkids||
mod||
more_bodies||
more_sv||
moreswitches||
mro_clean_isarev||
mro_gather_and_rename||
mro_get_from_name[5.010001]
mro_get_linear_isa_dfs||
mro_get_linear_isa[5.009005]
mro_get_private_data[5.010001]
mro_isa_changed_in||
mro_meta_dup||
mro_meta_init||
mro_method_changed_in[5.009005]
mro_package_moved||
mro_register[5.010001]
mro_set_mro[5.010001]
mro_set_private_data[5.010001]
mul[128]|n
mulexp[10]|n
munge_qwlist_to_paren_list||
new_warnings_bitfield
next_symbol
nextargv
nextchar
ninstr
no_bareword_allowed
no_fh_allowed
no_op
not_a_number
nothreadhook
nuke_stacks
num_overflow
oopsAV
oopsHV
op_append_elem
op_append_list
op_clear
op_const_sv
op_contextualize
op_dump
op_free
op_getmad_weak
op_getmad
op_linklist
op_lvalue
op_null
op_prepend_elem
op_refcnt_dec
op_refcnt_inc
op_refcnt_lock
op_refcnt_unlock
op_scope
op_xmldump
open_script
opt_scalarhv
pMY_CXT
pMY_CXT
pTHX
pTHX
packWARN
pack_cat
packlist
pad_add_anon
pad_add_name_sv
pad_add_name
pad_alloc
pad_block_start
pad_check_dup
pad_compname_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
padlist_dup
parse_arithexpr
parse_barestmt
parse_block
parse_body
parse_fullexpr
parse_fullstmt
parse_label
parse_listexpr
parse_stmtseq
parse_termexpr
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
pmop_dump
pmop_xmldump
pmruntime
refcounted_he_new_pv
refcounted_he_new_sv
refcounted_he_value
refkids
refto
ref[5.014000]
reg_check_named_buff_matched
reg_named_buff_all[5.009005]
reg_named_buff_exists[5.009005]
reg_named_buff_fetch[5.009005]
reg_named_buff_firstkey[5.009005]
reg_named_buff_iter
reg_named_buff_nextkey[5.009005]
reg_named_buff_scalar[5.009005]
reg_named_buff
reg_namedseq
reg_node
reg_numbered_buff_fetch
reg_numbered_buff_length
reg_numbered_buff_store
reg_qr_package
reg_recode
reg_scan_name
reg_skipcomment
reg_temp_copy
reganode
regatom
regbranch
regclass_swash[5.009004]
regclass
regcppop
regcppush
regcurly
regdump_extflags
regdump[5.005000]
regdupe_internal
regexec_flags[5.005000]
regfree_internal[5.009005]
regghop3[ln]
regghop4[ln]
regghopmaybe3[ln]
reginclass
reginclass3
reginclass3
reginsert
regmatch
regnex[5.005000]
regpiece
regppposixcc
save_destructor[5.006000]
save_freeop[]
save_freepv[]
save_freesv[]
save_generic_pvref[5.006001]
save_generic_svref[5.005030]
save_gp[5.004000]
save_hash[]
save_hdelete[5.011000]
save_hek_flags[]
save_helem_flags[5.011000]
save_helem[5.004050]
save_hints[5.010001]
save_hpptr[]
save_int[]
save_item[]
save_iv[5.005000]
save_lines[]
save_list[]
save_long[]
save_magic[]
save_mortalizesv[5.007001]
save_nogv[]
save_op[5.005000]
save_padsv_and_mortalize[5.010001]
save_pptr[]
save_pushi32ptr[5.010001]
save_pushptri32ptr[]
save_pushptrptr[5.010001]
save_pushptr[5.010001]
save_re_context[5.006000]
save_scalar_at[]
save_scalar[]
save_set_svflags[5.009000]
save_shared_pvref[5.007003]
save_sptr[]
save_svref[]
save_vptr[5.006000]
savepv[]
savepvs[5.009003]
savepv[]
savesharedpv[5.009005]
savesharedpvs[5.013006]
savesharedpv[5.007003]
savesharedsvpv[5.013006]
savestackGrowCnt[5.008001]
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savesvpv[5.009002]
sawparens
scalar_mod_type
scalarboolean
scalkids
scalarseq
scalarvoid
scalar
scan_bin
scan_commit
scan_const
scan_formline
scan_heredoc
scan_hex
scan_ident
scan_inputsymbol
scan_num
scan_oct
scan_pat
scan_str
scan_subst
scan_trans
scan_version
scan_vstring
scan_word
screaminstr
search_const
seed
sequence_num
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sv_setpvf_nocontext[5.006000] [5.004000] p
sv_setpvf[5.006000] [5.004000] p
sv_setpvf_mg[5.006000] [5.004000] p
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sv_setpvs
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sv_setref_pvs[5.013006]
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
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xmldump_vindent||
xs_apiversion_bootcheck||
xs_version_bootcheck||
yyerror||
yylex||
yyparse||
yyunlex||
yywarn||
);

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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 "$f ", '.'x(40-length($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_\(/) {
my @n = find_api($define->[1]);
push @{$depends{$define->[0]}}, @n if @n

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$define = [$1, $2] if m{^\s*\#s*define\s+\$\w+\(\?\:(?=[^\)])\)?s+\(\.(.*)\)$};

if ($function) {
    if (/\^/i) {
        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+\(\.(.*)\)$};
$replace{$2} = $1 if m{^\s*\#s*define\s+\$\w+\(\?\:(?=[^\)])\)?s+\(\.(.*)\)$};
$replace{$1} = $2 if m{^\s*\$rccs\s+Replace \$\w+\) with \$\w+\$rcce\s*$};
$replace{$1} = $2 if m{^\s*\$rccs\s+Replace \$\w+\) with \$\w+\$rcce\s*$};

if (m{^\s*\$rccs\s+(\w+\(\w+(\s*,\w+)*)\s+depends\s+on\s+(\w+(\s*,\w+(\s*,\w+)*)\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*\#if\s+defined\(\$\w+\)\(?-_GLOBAL)\)?$};

for (values %depends) {
    my %s;
    $$_ = [sort grep !$s{$_}++, @$_];
}

if (exists $opt{\api-info}) {
    my $f;
    my $count = 0;
    my $match = $opt{\api-info} =~ m!^/(.*)/$! ? $1 : "^Q$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(’, ’, @$depends{($f)}), ".\n" if exists $depends{($f)};
  print "\n\nHints: \n$hints{$f}''" if exists $hints{$f};
  print "\nWARNING: \n$warnings{$f}" if exists $warnings{$f};
  $info++;
}
print "\n\nNo 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 $xsc{$_} || /\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 $filename: "$!";
    }
}
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\$ppportE[XSUB\h]\b[\^\r\n]*)\n| ^$HS*#$HS*\(?:define|elif|if(?:\(?:def)?)\b[\^\r\n]*)\n| \( ^$HS*#$HS*\[\^\r\n]*\n| \["[^"\[\]*\]+\]"\n| \[\'[^"\[\]*\]+\]"\n| / \(?: \*[^\*]*\*+(?:[^$ccs][^\*]*\*+)* / | /[^\r\n]* \(\)/ \( \^\r\n\)*\)\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\b[\^\r\n]*\bQ\$ppportE\b[\^\r\n]*/m;

my $func;
for $func (keys %API) {
    my $match = $func;
    $match .= "$revreplace{$func}" if exists $revreplace{$func};
    if ($c =~ /Ab(?:Perl\_)?($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} > Sopt('compat-version')) {
                $file{uses}{$func}++;
                my @deps = rec_depend($func);
                if (@deps) {
                    $file{uses_deps}{$func} = \@deps;
                    for (@deps) {
                        if ($_.eq == 1) { # static
                            $file{needs}{$_} = 'static' if exists $need{$_};
                        }
                    }
                }
                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 ===");

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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*?!aTHX_\?\(\)(\^[^s]*\))?\s*}{$func\1()}g);
    } }

for $func (sort keys %{$file{uses_replace}}) {
  warning("Uses $func instead of replace{$func}");
  $file{changes} += ($c =~ s/\b$func\b/replace{$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";
    } 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 {
        $file{needs_inc_ppport} += ($c =~ s/^$HS*#$HS*define$HS+NEED_$func\b.*$LF//mg);
      }
    }
  }
}
diag("File needs $func, adding static request");
}
$pp = 
#define NEED_$func$suffix
;
}
if ($pp && ($c =~ s/^(?=$HS*#$HS*define$HS+NEED_\w+)/$pp/m)) {
    $pp = 
#include "$ppport"
)
} 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.*\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 $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 $opt{patch}) {
            unless ($patch_opened) {
                if (open PATCH, ">$opt{patch}") {
                    $patch_opened = 1;
                } else {
                    error("Cannot open `$opt{patch}' for writing: $!");
                }
            }
            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 {
        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: $!");
                    }
                }
                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 {
            my $s = $file{changes} == 1 ? '' : 's';
            info("$file{changes} potentially required change$s detected");
        }
    } 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 $_[0] " }

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
 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}};  
}  

sub parse_version  
{  
  my $ver = shift;  
  
  if ($ver =~ /^\d+(\d+).\d+(\d+)$/) {  

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 && $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*(.*)=/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

\$^X \$0;
my($pl, $c) = $self =~ /(.*^\DATA__)\s*(.*)/ms;
$c =~ s{(/(?:[^\*]*\*+(?:[^$ccs]\[^*]*\*+)* / | /\[^
\]* | ("[^"\/]\.*\*+[^"]*\]" | '\[^'\]\.*\*+[^']*\]') })
use Data::Dumper;

# simple procedural interface
print Dumper($foo, $bar);

# extended usage with names
print Data::Dumper->Dump([$foo, $bar], [qw(foo *ary)]);

# configuration variables
{
    local $Data::Dumper::Purity = 1;
    eval Data::Dumper->Dump([$foo, $bar], [qw(foo *ary)]);
}

# OO usage
$d = Data::Dumper->new([$foo, $bar], [qw(foo *ary)]);
... print $d->Dump;
...
$d->Purity(1)->Terse(1)->Deepcopy(1);
eval $d->Dump;

=heading1 NAME

Data::Dumper - stringified perl data structures, suitable for both printing and C<eval>

=heading1 SYNOPSIS

use Data::Dumper;

# simple procedural interface
print Dumper($foo, $bar);

# extended usage with names
print Data::Dumper->Dump([$foo, $bar], [qw(foo *ary)]);

# configuration variables
{
    local $Data::Dumper::Purity = 1;
    eval Data::Dumper->Dump([$foo, $bar], [qw(foo *ary)]);
}

# OO usage
$d = Data::Dumper->new([$foo, $bar], [qw(foo *ary)]);
... print $d->Dump;
...
$d->Purity(1)->Terse(1)->Deepcopy(1);
eval $d->Dump;
=head1 DESCRIPTION

Given a list of scalars or reference variables, writes out their contents in Perl syntax. The references can also be objects. The content of each variable is output in a single Perl statement. Handles self-referential structures correctly.

The return value can be `eval`ed to get back an identical copy of the original reference structure. (Please do consider the security implications of eval'ing code from untrusted sources!)

Any references that are the same as one of those passed in will be named `$VAR<n>` (where `n` is a numeric suffix), and other duplicate references to substructures within `$VAR<n>` will be appropriately labeled using arrow notation. You can specify names for individual values to be dumped if you use the `Dump()` method, or you can change the default `$VAR` prefix to something else. See `$Data::Dumper::Varname` and `$Data::Dumper::Terse` below.

The default output of self-referential structures can be `eval`ed, but the nested references to `$VAR<n>` will be undefined, since a recursive structure cannot be constructed using one Perl statement. You should set the `Purity` flag to 1 to get additional statements that will correctly fill in these references. Moreover, if `eval`ed when strictures are in effect, you need to ensure that any variables it accesses are previously declared.

In the extended usage form, the references to be dumped can be given user-specified names. If a name begins with a `*`, the output will describe the dereferenced type of the supplied reference for hashes and arrays, and coderefs. Output of names will be avoided where possible if the `Terse` flag is set.

In many cases, methods that are used to set the internal state of the object will return the object itself, so method calls can be conveniently chained together.

Several styles of output are possible, all controlled by setting the `Indent` flag. See L<Configuration Variables or Methods> below for details.

=head2 Methods

=over 4

=item `$PACKAGE`->new([$ARRAYREF [, $ARRAYREF]])
Returns a newly created C<Data::Dumper> object. The first argument is an anonymous array of values to be dumped. The optional second argument is an anonymous array of names for the values. The names need not have a leading C<$> sign, and must be comprised of alphanumeric characters. You can begin a name with a C<*-> to specify that the dereferenced type must be dumped instead of the reference itself, for ARRAY and HASH references.

The prefix specified by C<$Data::Dumper::Varname> will be used with a numeric suffix if the name for a value is undefined.

Data::Dumper will catalog all references encountered while dumping the values. Cross-references (in the form of names of substructures in perl syntax) will be inserted at all possible points, preserving any structural interdependencies in the original set of values. Structure traversal is depth-first, and proceeds in order from the first supplied value to the last.

=item I<$OBJ>->Dump  I<or>  I<PACKAGE>->Dump(I<ARRAYREF [>, I<ARRAYREF]>)

Retuns the stringified form of the values stored in the object (preserving the order in which they were supplied to C<new>), subject to the configuration options below. In a list context, it returns a list of strings corresponding to the supplied values.

The second form, for convenience, simply calls the C<new> method on its arguments before dumping the object immediately.

=item I<$OBJ>->Seen(I<[HASHREF]>)

Queries or adds to the internal table of already encountered references. You must use C<Reset> to explicitly clear the table if needed. Such references are not dumped; instead, their names are inserted wherever they are encountered subsequently. This is useful especially for properly dumping subroutine references.

Expects an anonymous hash of name => value pairs. Same rules apply for names as in C<new>. If no argument is supplied, will return the "seen" list of name => value pairs, in a list context. Otherwise, returns the object itself.

=item I<$OBJ>->Values(I<[ARRAYREF]>)

Queries or replaces the internal array of values that will be dumped. When called without arguments, returns the values as a list. When called with a reference to an array of replacement values, returns the object itself. When called with any other type of argument, dies.

=item I<$OBJ>->Names(I<[ARRAYREF]>)

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Queries or replaces the internal array of user supplied names for the values that will be dumped. When called without arguments, returns the names. When called with an array of replacement names, returns the object itself. If the number of replacement names exceeds the number of values to be named, the excess names will not be used. If the number of replacement names falls short of the number of values to be named, the list of replacement names will be exhausted and remaining values will not be renamed. When called with any other type of argument, dies.

=item I<$OBJ>-Reset

Clears the internal table of "seen" references and returns the object itself.

=back

=head2 Functions

=over 4

=item Dumper(I<LIST>)

Returns the stringified form of the values in the list, subject to the configuration options below. The values will be named C<$VAR>1<n> in the output, where I<n> is a numeric suffix. Will return a list of strings in a list context.

=back

=head2 Configuration Variables or Methods

Several configuration variables can be used to control the kind of output generated when using the procedural interface. These variables are usually localized in a block so that other parts of the code are not affected by the change.

These variables determine the default state of the object created by calling the C<new> method, but cannot be used to alter the state of the object thereafter. The equivalent method names should be used instead to query or set the internal state of the object.

The method forms return the object itself when called with arguments, so that they can be chained together nicely.
$Data::Dumper::Indent  I<or>  I<$OBJ>->Indent(I<NEWVAL>)

Controls the style of indentation. It can be set to 0, 1, 2 or 3. Style 0
spews output without any newlines, indentation, or spaces between list
items. It is the most compact format possible that can still be called
valid perl. Style 1 outputs a readable form with newlines but no fancy
indentation (each level in the structure is simply indented by a fixed
amount of whitespace). Style 2 (the default) outputs a very readable form
which takes into account the length of hash keys (so the hash value lines
up). Style 3 is like style 2, but also annotates the elements of arrays
with their index (but the comment is on its own line, so array output
consumes twice the number of lines). Style 2 is the default.

=item *

$Data::Dumper::Purity  I<or>  I<$OBJ>->Purity(I<NEWVAL>)

Controls the degree to which the output can be C<eval>ed to recreate the
supplied reference structures. Setting it to 1 will output additional perl
statements that will correctly recreate nested references. The default is
0.

=item *

$Data::Dumper::Pad  I<or>  I<$OBJ>->Pad(I<NEWVAL>)

Specifies the string that will be prefixed to every line of the output.
Empty string by default.

=item *

$Data::Dumper::Varname  I<or>  I<$OBJ>->Varname(I<NEWVAL>)

Contains the prefix to use for tagging variable names in the output. The
default is "VAR".

=item *

$Data::Dumper::Useqq  I<or>  I<$OBJ>->Useqq(I<NEWVAL>)

When set, enables the use of double quotes for representing string values.
Whitespace other than space will be represented as C<\n\t\r>, "unsafe"
characters will be backslashed, and unprintable characters will be output as
quoted octal integers. Since setting this variable imposes a performance
penalty, the default is 0. C<Dump()> will run slower if this flag is set,
since the fast XSUB implementation doesn't support it yet.
=item *

$Data::Dumper::Terse  I<or>  1<$OBJ>-Terse(1<NEWVAL>)

When set, Data::Dumper will emit single, non-self-referential values as atoms/terms rather than statements. This means that the C<$VAR> names will be avoided where possible, but be advised that such output may not always be parseable by C<eval>.

=item *

$Data::Dumper::Freezer  I<or>  $<OBJ>-Freezer(1<NEWVAL>)

Can be set to a method name, or to an empty string to disable the feature. Data::Dumper will invoke that method via the object before attempting to stringify it. This method can alter the contents of the object (if, for instance, it contains data allocated from C), and even rebless it in a different package. The client is responsible for making sure the specified method can be called via the object, and that the object ends up containing only perl data types after the method has been called. Defaults to an empty string.

If an object does not support the method specified (determined using UNIVERSAL::can()) then the call will be skipped. If the method dies a warning will be generated.

=item *

$Data::Dumper::Toaster  I<or>  $<OBJ>-Toaster(1<NEWVAL>)

Can be set to a method name, or to an empty string to disable the feature. Data::Dumper will emit a method call for any objects that are to be dumped using the syntax C<bless(DATA, CLASS)-METHOD()> . Note that this means that the method specified will have to perform any modifications required on the object (like creating new state within it, and/or reblessing it in a different package) and then return it. The client is responsible for making sure the method can be called via the object, and that it returns a valid object. Defaults to an empty string.

=item *

$Data::Dumper::Deepcopy  I<or>  $<OBJ>-Deepcopy(1<NEWVAL>)

Can be set to a boolean value to enable deep copies of structures. Cross-referencing will then only be done when absolutely essential (i.e., to break reference cycles). Default is 0.
$Data::Dumper::Quotekeys  $I<OBJ>-quotekeys(NEWVAL)

Can be set to a boolean value to control whether hash keys are quoted. A defined false value will avoid quoting hash keys when it looks like a simple string. Default is 1, which will always enclose hash keys in quotes.

=item *

$Data::Dumper::Bless  $I<OBJ>-bless(NEWVAL)

Can be set to a string that specifies an alternative to the C<bless> builtin operator used to create objects. A function with the specified name should exist, and should accept the same arguments as the builtin. Default is C<bless>.

=item *

$Data::Dumper::Pair  $I<OBJ>-pair(NEWVAL)

Can be set to a string that specifies the separator between hash keys and values. To dump nested hash, array and scalar values to JavaScript, use: C<$Data::Dumper::Pair = ' : '>. Implementing C<bless> in JavaScript is left as an exercise for the reader. A function with the specified name exists, and accepts the same arguments as the builtin.

Default is: C< =E<gt> >.

=item *

$Data::Dumper::Maxdepth  $I<OBJ>-maxdepth(NEWVAL)

Can be set to a positive integer that specifies the depth beyond which we don't venture into a structure. Has no effect when C<Data::Dumper::Purity> is set. (Useful in debugger when we often don't want to see more than enough). Default is 0, which means there is no maximum depth.

=item *

$Data::Dumper::Useperl  $I<OBJ>-useperl(NEWVAL)

Can be set to a boolean value which controls whether the pure Perl implementation of C<Data::Dumper> is used. The C<Data::Dumper> module is a dual implementation, with almost all functionality written in both pure Perl and also in XS ('C'). Since the XS version is much faster, it will always be used if possible. This option lets you override the
default behavior, usually for testing purposes only. Default is 0, which means the XS implementation will be used if possible.

=item *

$Data::Dumper::Sortkeys  I<or>  $I<OBJ>-&gt;Sortkeys(I&lt;[NEWVAL]&gt;)

Can be set to a boolean value to control whether hash keys are dumped in sorted order. A true value will cause the keys of all hashes to be dumped in Perl's default sort order. Can also be set to a subroutine reference which will be called for each hash that is dumped. In this case C&lt;Data::Dumper&gt; will call the subroutine once for each hash, passing it the reference of the hash. The purpose of the subroutine is to return a reference to an array of the keys that will be dumped, in the order that they should be dumped. Using this feature, you can control both the order of the keys, and which keys are actually used. In other words, this subroutine acts as a filter by which you can exclude certain keys from being dumped. Default is 0, which means that hash keys are not sorted.

=item *

$Data::Dumper::Deparse  I<or>  $I<OBJ>-&gt;Deparse(I&lt;[NEWVAL]&gt;)

Can be set to a boolean value to control whether code references are turned into perl source code. If set to a true value, C&lt;B::Deparse&gt; will be used to get the source of the code reference. Using this option will force using the Perl implementation of the dumper, since the fast XSUB implementation doesn't support it.

Caution: use this option only if you know that your coderefs will be properly reconstructed by C&lt;B::Deparse&gt;.

=item *

$Data::Dumper::Sparseseen I<or>  $I<OBJ>-&gt;Sparseseen(I&lt;[NEWVAL]&gt;)

By default, Data::Dumper builds up the "seen" hash of scalars that it has encountered during serialization. This is very expensive. This seen hash is necessary to support and even just detect circular references. It is exposed to the user via the C&lt;Seen()&gt; call both for writing and reading.

If you, as a user, do not need explicit access to the "seen" hash, then you can set the C&lt;Sparseseen&gt; option to allow Data::Dumper to eschew building the "seen" hash for scalars that are known not to possess more than one reference. This speeds up serialization considerably if you use the XS implementation.
Note: If you turn on C<Sparseseen>, then you must not rely on the content of the seen hash since its contents will be an implementation detail!

=back

=head2 Exports

=over 4

=item Dumper

=back

=head1 EXAMPLES

Run these code snippets to get a quick feel for the behavior of this module. When you are through with these examples, you may want to add or change the various configuration variables described above, to see their behavior. (See the testsuite in the Data::Dumper distribution for more examples.)

use Data::Dumper;

package Foo;
sub new {bless {'a' => 1, 'b' => sub { return "foo" }}, $_[0]};

package Fuz;                       # a weird REF-REF-SCALAR object
sub new {bless \$_{$_ = \'fu\'z' }, $_[0]};

package main;
$foo = Foo->new;
$fuz = Fuz->new;
$boo = [ 1, [], "abcd", \*foo,
       [ 1 => 'a', 023 => 'b', 0x45 => 'c'],
       \"p\q\r", $foo, $fuz];

########
# simple usage
########

$bar = eval(Dumper($boo));
print($@) if $@;
print Dumper($boo), Dumper($bar);  # pretty print (no array indices)

$Data::Dumper::Terse = 1;       # don't output names where feasible
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$Data::Dumper::Indent = 0;       # turn off all pretty print
print Dumper($boo), "\n";

$Data::Dumper::Indent = 1;       # mild pretty print
print Dumper($boo);

$Data::Dumper::Indent = 3;       # pretty print with array indices
print Dumper($boo);

$Data::Dumper::Useqq = 1;        # print strings in double quotes
print Dumper($boo);

$Data::Dumper::Pair = ": ";   # specify hash key/value separator
print Dumper($boo);

########
# recursive structures
########

@c = ('c');
$c = \@c;
$b = \{};
$a = [1, $b, $c];
$b->{a} = $a;
$b->{b} = $a->[1];
$b->{c} = $a->[2];
print Data::Dumper->Dump([$a,$b,$c], [qw(a b c)]);

$Data::Dumper::Purity = 1;       # fill in the holes for eval
print Data::Dumper->Dump([$a, $b], [qw(*a b)]); # print as @a
print Data::Dumper->Dump([$b, $a], [qw(*b a)]); # print as %b

$Data::Dumper::Deepcopy = 1;       # avoid cross-refs
print Data::Dumper->Dump([$b, $a], [qw(*b a)]);

$Data::Dumper::Purity = 0;       # avoid cross-refs
print Data::Dumper->Dump([$b, $a], [qw(*b a)]);

########
# deep structures
########

@a = "pearl";
$b = [ $a ];
$c = \{ 'b' => $b \};
$\text{d} = [ \text{c} ];
$e = \{ 'd' => $\text{d} \};
$f = \{ 'e' => $e \};
\text{print Data::Dumper->Dump(}[$f], [\text{qw(f)}]);

$\text{Data::Dumper::Maxdepth} = 3; \quad \# \text{no deeper than 3 refs down}
\text{print Data::Dumper->Dump(}[$f], [\text{qw(f)}]);

########
\# \text{object-oriented usage}
########

$\text{d} = \text{Data::Dumper->new([}a, b], [\text{qw(a b)}]);
$\text{d}->\text{Seen}(\{'c' => $c\}); \quad \# \text{stash a ref without printing it}
$\text{d}->\text{Indent}(3);
\text{print $d->Dump};
$\text{d}->\text{Reset}->\text{Purity}(0); \quad \# \text{empty the seen cache}
\text{print join }"\text{----\n", $d->Dump};

########
\# \text{persistence}
########

\text{package Foo;}
\text{sub new \{ bless \{ state => 'awake' \}, shift \}}
\text{sub Freeze \{}
    \text{my $s = shift;}
    \text{print STDERR }"\text{preparing to sleep\n};$
    $s->\{state\} = 'asleep';
    \text{return bless $s, 'Foo::ZZZ';}
\text{}}

\text{package Foo::ZZZ;}
\text{sub Thaw \{}
    \text{my $s = shift;}
    \text{print STDERR }"\text{waking up\n};$
    $s->\{state\} = 'awake';
    \text{return bless $s, 'Foo';}
\text{}}

\text{package main;}
\text{use Data::Dumper;}
$\text{a} = \text{Foo->new;}
$\text{b} = \text{Data::Dumper->new([}a, ['c']]);
$\text{b->Freeze('Freeze');}
$b->Toaster('Thaw');
$c = $b->Dump;
print $c;
$d = eval $c;
print Data::Dumper->Dump([$d], ['d']);

########
# symbol substitution (useful for recreating CODE refs)
########

sub foo { print "foo speaking\n" }
*other = \&foo;
$bar = [ \&other ];
$d = Data::Dumper->new([\&other,$bar],["other","bar"]);
$d->Seen({ '*foo' => \&foo });
print $d->Dump;

########
# sorting and filtering hash keys
########

$Data::Dumper::Sortkeys = \&my_filter;
my $foo = { map { (ord, "$$_$_") } 'I'..'Q' };
my $bar = { %$foo };
my $baz = { reverse %$foo };
print Dumper [ $foo, $bar, $baz ];

sub my_filter {
  my ($hash) = @_;
  # return an array ref containing the hash keys to dump
  # in the order that you want them to be dumped
  return [
    # Sort the keys of %$foo in reverse numeric order
    $hash eq $foo ? (sort {$b <=> $a} keys %$hash) :
    # Only dump the odd number keys of %$bar
    $hash eq $bar ? (grep {$_ % 2} keys %$hash) :
    # Sort keys in default order for all other hashes
    (sort keys %$hash)
  ];
}

=head1 BUGS

Due to limitations of Perl subroutine call semantics, you cannot pass an
array or hash. Prepend it with a C<\> to pass its reference instead. This
will be remedied in time, now that Perl has subroutine prototypes.
For now, you need to use the extended usage form, and prepend the
name with a C<*> to output it as a hash or array.

C<Data::Dumper> cheats with CODE references. If a code reference is
encountered in the structure being processed (and if you haven't set
the C<Deparse> flag), an anonymous subroutine that
contains the string "DUMMY" will be inserted in its place, and a warning
will be printed if C<Purity> is set. You can C<eval> the result, but bear
in mind that the anonymous sub that gets created is just a placeholder.
Someday, perl will have a switch to cache-on-demand the string
representation of a compiled piece of code, I hope. If you have prior
knowledge of all the code refs that your data structures are likely
to have, you can use the C<Seen> method to pre-seed the internal reference
table and make the dumped output point to them, instead. See L</EXAMPLES>
above.

The C<Useqq> and C<Deparse> flags makes Dump() run slower, since the
XSUB implementation does not support them.

SCALAR objects have the weirdest looking C<bless> workaround.

Pure Perl version of C<Data::Dumper> escapes UTF-8 strings correctly
only in Perl 5.8.0 and later.

=head2 NOTE

Starting from Perl 5.8.1 different runs of Perl will have different
ordering of hash keys. The change was done for greater security,
see L<perlsec/"Algorithmic Complexity Attacks">. This means that
different runs of Perl will have different Data::Dumper outputs if
the data contains hashes. If you need to have identical Data::Dumper
outputs from different runs of Perl, use the environment variable
PERL_HASH_SEED, see L<perlrun/PERL_HASH_SEED>. Using this restores
the old (platform-specific) ordering: an even prettier solution might
be to use the C<Sortkeys> filter of Data::Dumper.

=head1 AUTHOR

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=head1 VERSION

Version 2.145 (March 15 2013)
SEE ALSO

perl(1)

cut

Found in path(s):
* /opt/cola/permits/1103682059_1604394110.4/0/perl-Data-Dumper-2.145-3.el7-1.src.rpm-cosi-expand-archive-z0D2RnTI/Data-Dumper-2.145.tar.gz-cosi-expand-archive-KsQN3iJW/Data-Dumper-2.145/Dumper.pm

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- Jason Novotny &lt;Jdnovotny@lbl.gov&gt; - initial work on the OpenSSL PEM processing.

- Joel Hockey &lt;joel.hockey@qsipayments.com&gt; - initial work on the OpenSSL PEM processing.

- John Steenbruggen &lt;JohnS@geotrust.com&gt; - fixing CertificationRequestInfo to handle cert request info objects without attribute blocks.

- Sascha Weinreuter &lt;Sascha.Weinreuter@cit.de&gt; - fixed SMIME saveChanges() bug.

- Andre Wehnert &lt;aw5@inf.tu-dresden.de&gt; - fixing key schedule problem in RC5-64, fixing buffer cleaning issue in buffered block cipher.

- Luigi Lo Iacono &lt;lo_iacono@inf.tu-dresden.de&gt; - adding SIC mode to the blockciphers in the provider.

- Tim Sakach &lt;tsakach@certivo.net&gt; - SMIME v2 compatibility patches.

- Marcus Povey &lt;mpovey@brookes.ac.uk&gt; - adding the PGP mode to the lightweight API and the provider.

- Sebastian Clau&amp;szlig; &lt;sc2@inf.tu-dresden.de&gt; - adding randomness setting to the certificate and CRL generators.

- Nicolas Bielza &lt;nicolas.bielza@alligacom.com&gt; - isolating the tagging bug in the ASN.1 library that was misrepresenting some ASN.1 constructed data types. Contributions to the streaming SMIME classes.

- Casey Marshall &lt;rsdio@metastatic.org&gt; - fixing the clone problem with Macs in the clean room JCE.

- Rick Zeldes &lt;rick.zeldes@eds.com&gt; - initial code for CMS/SMIME CompressedData.

- Jarek Gawor &lt;gawor@inf.tu-dresden.de&gt; - fixing ASN.1 sequence unpacking in BasicConstraints constructor.

- Brett Neumeier &lt;random@rnd.cx&gt; - patch to OriginatorIdentifierOrKey object, improvements to encoders package, introduction of UrlBase64.

- Graham Coles &lt;graham.coles@retail-logic.com&gt; - patch to isParityAdjusted in DESKeySpec.

- J&amp;ouml;n von Kattch&amp;egrave;e &lt;J.Kattchee@seeburger.de&gt; - patch to SMIMEGenerator for preventing class cast exceptions with BodyParts containing Multipart objects.

- Matteo Artuso &lt;matartuso@libero.it&gt; - picking up the possible overead in ASN1InputStream.

- Julian Morrison &lt;julian@extropy.demon.co.uk&gt; - spotting the slow down in Diffie-Hellman key generation.

- Elmar Sonnenschein &lt;eso@esomail.de&gt; - fix to long conversion in clean room SecureRandom.

- J&amp;ouml;n Schwarze &lt;JSchwarze@ulc.de&gt; - Locale fix for the clean room JCE.

- Bryan Lovquist &lt;bkl@cps.com.au&gt; - Other provider compatibility fixes for CMS signing.

- Artem Portnoy &lt;Artem_Portnoy@ibl.com&gt; - generalisations for CMSProcessableBodyPart in S/MIME. Header fix for mime messages.

- Michael H&amp;auml;usler &lt;haeusler@ponton-consulting.de&gt; - missing OID update for SHA1 with RSA Signature.
<li>Johan Seland &lt;johans#064netfonds.no&gt; - general toString for BigInteger class.</li>
<li>Johannes Nicola &lt;johannes.nicola#064novosec.com&gt; - further enhancements to OCSP response
 generation, fix to CertificateID issuer.</li>
<li>Marc Doberv &lt;marc.doberva#064ilex-si.com&gt; - help in isolating the JSSE/BC RSA key issue.</li>
<li>Jan Dvorak &lt;jan.dvorak#064mathan.cz&gt; - initial implementation of the light weight RSA cipher.</li>
<li>Joe Cohen &lt;jcohen#064forum.sys.com&gt; - converting the ArrayOutOfBoundsException in
 DERInputStream into what it should have been.</li>
<li>Chris Long &lt;aclong#064ece.cmu.edu&gt; - public key decoding to PEMReader.</li>
<li>Hes Siemelink &lt;hes#064izecom.com&gt; - findIssuer fix for CertPathBuilder, toMimeMessage
 converter for Mail API, getSize() fix for zero length messages in SMIMEMessage.</li>
<li>Stefan Puiu &lt;stefanpuiuro#064yahoo.com&gt; - initial implementation V3 policy mapping, policy
 qualifier objects in ASN.1 X.509 package.</li>
<li>Jiri Urbanec &lt;jiri.urbanec#064logicacmg.com&gt; - patch to fix defect in DERBMPString.equals().</li>
<li>Justin Kolb &lt;jkolb#064pristx.com&gt; - patch to DSA signature generation in OpenPGP. Fix for the
 unexpected "Unexpected end of ZLIB input stream" exception.</li>
<li>Ralf Hauser &lt;ralfhauser#064gmx.ch&gt; - patch to exception handling in PublicKeyRing, PEMReader, 1.4
 build script, X509 Certificate Factory, CertPathValidatorUtilities, fromAddress null check in SignedMailValidator,
 ReadOnceInputStream testing utility in MIME tests.</li>
<li>Michal Dvorak &lt;m_dvorak#064kb.cz&gt; - getNextUpdate patch for OCSP SingleResp.</li>
<li>Klaus Greve Fiorentini &lt;Klaus#064cqsd.com.br&gt; - array fix in PGP PublicKeyEncSessionPacket.</li>
<li>Olivier Refalo &lt;Olivier_Refalo#fpl.com&gt; - null pointer exception fix for JDK 1.3 CMSSignedData
 objects.</li>
<li>Mariusz Bandola &lt;mariusz.bandola#064cryptotech.com.pl&gt; - patch to DERGeneralizedTime.
 Compliance patch for OCSP TBSRequest class. Patch to X509Name for delaing with general objects in
 sequences.</li>
<li>Brien Oberstein &lt;brien.oberstein#064transacttools.net&gt; - patch to S2K algorithm in OpenPGP, initial
 PGP version 3 secret key support, initial PGP version 3 signature generation, RIPEMD160 addition to PGPUtil.</li>
<li>Ian Haywood &lt;ian#064haywood.bpa.nu&gt; - addition of getSignatureType to PGPSignature.</li>
<li>Jonathan Edwards &lt;s34gull#064mac.com&gt; - initial support for reading multiple rings from a PGP key
 file.</li>
<li>Andrew Thornton &lt;andrew#064care.t.cam.ac.uk&gt; - patch for RSA PUBLIC KEY in PEMReader.</li>
<li>Gregor Leander &lt;gl#064bos-bremen.de&gt; - initial parsing of multiple sequence entries in an X.500
 Name.</li>
<li>Antoon Bosselaers &lt;Antoon.Bosselaers#064esat.kuleuven.ac.be&gt; - help with RipeMD320
 implementation.</li>
<li>Peter Sylvester &lt;Peter.Sylvester#064edelweb.fr&gt; - improvements to the ASN.1 BasicConstraints
 object.</li>
<li>Doug &lt;ummmmm#064myrealbox.com&gt; - addition of isEncryptionKey method to OpenPGP public
 keys.</li>
<li>Antoon Bosselaers &lt;Antoon.Bosselaers#064esat.kuleuven.ac.be&gt; - help with RipeMD320
 implementation.</li>
ArmoredInputStreams.</li>
<li>Jim Ford &lt;jim#064muirford.com&gt; - patch to PGPSecretKey to avoid null pointer exception on encoding secret keys, comments on KeyExpirationTime, getBitStrength for ElGamal keys. Signature creation time patch for newly created v4 signatures.</li>
<li>Michael Hausler &lt;Michael.Hausler#064ponton-consulting.de&gt; - extra aliases for provider.</li>
<li>Sai Pullabhotla &lt;psai#064linoma.com&gt; - fix to PGP compressed data generator to improve compression levels. Performance improvements for KeyBasedLargeFileProcessor.</li>
<li>Joseph Miller &lt;joseph#064digicweb.net.nz&gt; - addition of ZeroBytePadding.</li>
<li>Lars &lt;xzy#064sagemdenmark.dk&gt; - patch to explicit padded mode for CBC block cipher MAC.</li>
<li>Jeroen van Vianen &lt;jeroen#064vanvianen.nl&gt; - the Signed and Encrypted mail example.</li>
<li>Jun Sun &lt;JSun#064diversinet.com&gt; - patch to SecureRandom to work around problem in wtke 1.0.4 and wtke 2.1.</li>
<li>Petr Dukem &lt;pdukem#064email.cz&gt; - patch to CMSSignedDataGenerator to allow it to work with PKCS11 providers.</li>
<li>Filipe Silva &lt;filipe.silva#064woedconsulting.com&gt; - patch to fix overead issue in BCPGInputStream.</li>
<li>Alpesh Parmar &lt;alps#064linuxmail.org&gt; - patch for class cast problem in PGPPublicKey.getSignatures().</li>
<li>Jay Gengelbach &lt;jgengelbach#064webmethods.com&gt; - patch to fix isSigningKey in PGPSecretKey class, patch to hashedPackets in PGP signatureGenerator, initial cut for indefinite length output.</li>
<li>Doug &lt;doug#064tigerprivacy.com&gt; - public key ring patches for ElGamal Signatures, problem key ring data.</li>
<li>Matthew Mundy &lt;mmundy1#064umbc.edu&gt; - infinite loop prevention patch to PKCS5S2ParametersGenerator.</li>
<li>Tom Cargill &lt;cargill#064profcon.com&gt; - spelling patch in provider.</li>
<li>Breitenstrom Christian &lt;C.Breitenstrom#064t-systems.com&gt; - compatibility patch to SignaturePacket, DetachedSignatureProcessor.</li>
<li>Zanotti Mirko &lt;zanotti#064cad.it&gt; - patch to ordered equality test for X509Name.</li>
<li>Nicola Scendoni &lt;nscendoni#064babelps.it&gt; - patch to add sorting to CertPath validation.</li>
<li>Ville Skytt&auml; &lt;ville.skytt&auml;&lt;#064iki.fi&gt; - patch to CRLDistPoint for cRLIssuer field. KeyStore compliance on add patches. DiffieHellman patch for provider compliance. Support for PEM object "TRUSTED CERTIFICATE". Exception handling patch in PEMReader. JavaDoc clean up.</li>
<li>Bruce Gordon &lt;bruce.gordon#savvis.net&gt; - patch to secret key creation encoding NullPointerException in OpenPGP, speed up for BCPGInputStream.</li>
<li>Miles Whiteley &lt;Miles.Whiteley#064savvis.net&gt; - "223" fix for BCPGInputStream new packets.</li>
<li>Albert Moliner &lt;amoliner#064evintia.com&gt; - initial TSP implementation.</li>
<li>Carlos Lozano &lt;carlos#064evintia.com&gt; - initial TSP implementation, patch to SignerInformation for supporting repeated signers, initial updates for supporting repeated attributes in CMS.</li>
<li>Javier Delgadillo &lt;javi#064javifcodewarp.org&gt; - initial Mozilla PublicKeyAndChallenge classes.</li>
<li>Joni Hahkala &lt;joni.hahkala#064cern.ch&gt; - initial implementations of VOMS Attribute Certificate Validation, IetfAttrSyntax, and ObjectDigestInfo. We also wish to thank the &lt;a href="http://www-egee.org"&gt;EGEE project&lt;/a&gt; for making the work available.</li>
<li>Rolf Schillinger &lt;rolf#064sir-wum.de&gt; - initial implementation of Attribute Certificate generation.</li>
<li>Sergey Bahtin &lt;Sergey_Bahtin#064yahoo.com&gt; - fix for recovering certificate aliases in BKS and UBER key stores. Initial implementations of GOST-28147, GOST-3410, EC GOST-3410, GOST OFB mode (GOFB) and GOST-3411. </li>
<li>Franck Leroy &lt;Franck.Leroy#064keynectis.com&gt; - ANS.1 set sorting. Contributions to TSP implementation. Test vectors for Bleichenbachers forgery attack. </li>
Atsuhiko Yamanaka &lt;ymnk@jcraft.com&gt; - patch for improving use of Montgomery numbers in BigInteger library. Patch to use size of private exponent in DH parameters.

Nickolay Bolkhakov &lt;tyrex@4reksoft.ru&gt; - patch for class cast exception in AuthorityInformationAccess class.

Soren Hilmer &lt;soren.hilmer@6to10enator.com&gt; - patches for CertID with issuerSerial set in TSP implementation, additional compliance testing.

Steve Mitchell &lt;mitchell@6intertrust.com&gt; - patch for stateful path validator fix. Patch to allow BigInteger class to create negative numbers from byte arrays. Additions to allow different providers to be used for asymmetric/symmetric encryption in OpenPGP.

Optimisation to avoid redundant verification in path validator. Suggestion to use PKIXParameters.getSigProvider() correctly.

Dirk Eisner &lt;D.Eisner@seeburger.de&gt; - initial implementation of ISO 78164-4 padding.

Julien Pasquier &lt;julienpasquier@free.fr&gt; - initial implementation of attribute classes from RFC 3126. Fix to KEKIdentifier, OtherKeyAttribute parsing. Initial ContentHints class.

Matteo &lt;matartuso@libero.it&gt; - sequence patch to ASN1Dump.

Andrew Paterson &lt;andrew.paterson@6burnsec.com&gt; - patches to PGP tools, isRevoked method on PGPPublicKey.

Vladimir Molotkov &lt;vladimir.n.molotkov@6intel.com&gt; - extensive provider exception handling compliance testing.

Florin Kollan &lt;adlocflo@6web.de&gt; - fix to ElGamalKeyParameters equality testing.

Pavel Vassilev &lt;paulvas@6gmail.com&gt; - Initial GOST28147Mac implementation.

Tom Pesman &lt;tom@6tnux.net&gt; - addition of DES-ede encryption for RSAPrivate keys to PEMWriter.

Lukasz Kowalczyk &lt;lukasz.b.kowalczyk@6gmail.com&gt; - patch to fix parsing issue with OpenSSL PEM based certificate requests.

Arndt Hasch &lt;Arndt.Hasch@maxence.de&gt; - additional fix for partial reading with new style PGP packets.

Fix Bernd (KCDP 11) &lt;bernd.fix@credit-suisse.com&gt; - fix for 31 byte issue and exception throwing by Whirlpool.

David M. Lee &lt;dmlee@6crossroads.com&gt; - code for add and remove secret key in the PGPSecretKeyRing class. Additions to S/MIME and CMS unit tests.

Mike Dillon &lt;md5@6embody.org&gt; - additional checks for PGP secret and public key construction, patches to copyWithNewPassword.

Fix tu-vi cung &lt;t2cung@6hotmail.com&gt; - patch for out of bounds problem in getDecoderStream method.

Chris Schultz &lt;cschultz@6gmail.com&gt; - fix for InputStream constructor for X509V2AttributeCertificate.

David M. Lee &lt;dmlee@6crossroads.com&gt; - implementation assistance with streaming CMS classes.

Joel Rees &lt;rees@64ddcom.co.jp&gt; - fix to correct getOID methods from returning same set on X.509 attribute certificates.

Francesc Sau &lt;francesc.sau@64partners.netfocus.es&gt; - micro fix for tsp Accuracy class.

Larry Bugbee &lt;lbugbee@64mac.com&gt; - initial ECNR implementation.

Remi Blancher &lt;Remi Blancher@64keynectis.com&gt; - Contributions to TSP implementation. Initial implementation of RFC 3739 and ICAO ASN.1 classes.

Brian O'Rourke &lt;brionorourke@64gmail.com&gt; - patch for signature creation time override in OpenPGP.

Andreas Schwier &lt;andreas.schwier@64cardcontact.de&gt; - initial implementation of ISO9797 MAC
Algorithm 3, addition of DES-EDE 64 MAC to the provider, fix to EC point encoding, addition of EC and RSA-PSS OIDs to CMS, addition of AES-CMAC and DESede-CMAC to JCE provider.

- Patch for trailer function in version 2 signature

- Addition of CRL writing to the PEMWriter class.


- Olaf Keller, [mailto:olaf.keller.bc@064bluewin.ch] - initial implementation of the elliptic curves over binary fields F2m. Additional tests and modifications to elliptic curve support for both F2m and Fp. Performance improvements to F2m multiplication. Initial implementation of WNAF/WTNAF point multiplication. Improvement to k value generation in ECDSA.

- Jörg Eichhorn [mailto:eichhorn@064ponton-consulting.de] - patch to fix EOF read on SharedFileInputStream, support for F2m compression.

- Karsten Ohme [mailto:widerstand@064t-online.de] - initial check against for out of range data on non byte aligned RSA keys. Addition of equals/hashCode on ECCurve.Fp. Additional curve type support for Fp, contributions to F2m compression. F2m decoding for ECPointUtil. Infinity fix and prime192v2 fix for Fp. Extra validation for RSA key creation. Fix to name typos for some OpenSSL key generators. RFC-1779 table, improved RFC 2253 compliance for X509Name. Additional constructor validation for X.509/ESS ASN.1 classes. Validation for Printable, IA5, and Numeric Strings. Fix for RFC 5280 NameConstraint checking for RDNs.

- Support for surrogate pairs in DERUTF8String, DER UTF8 test. Additional X.509 name attributes for ISIS-MTT, RFC 3039, addition of indirect CRL support, initial X509 LDAP CertStore implementation, CertificatePair class, and X509CertificatePair class. Contributions to X509Store/Parser infrastructure and design. CertPath support for implicit DSA parameters and a range of NameConstraints. Addition of support for V1 attribute certificates and attribute certificate path validation. Initial classes for ASN.1 ISIS-MTT support. Enhancements for improving compliance with the NIST CertPath tests.

- Carlos Lozano Ruiz [mailto:carlos@tradise.com] - patch for \<ctrl><m\> only handling in CRLFOutputStream.

- John Alfred Prufrock [mailto:j.a.prufrock@064gmail.com] - mods to GOST-3411 and MD2 to support ExtendedDigest.

- Stefan Neusatz Guilhen [mailto:sneusatz@064gmail.com] - initial version of RoleSyntax, improvements to AttributeCertificateHolder and AttributeCertificateIssuer.

- Marzio Lo Giudice [mailto:marzio.logiudice@064gmail.com] - fix to endianess in KDF2BytesGenerator, additional KDF2 tests.

- Georg Lippold [mailto:georg.lippold@064gmx.de] - initial implementation of NaccacheStern cipher.

- Chris Viles [mailto:chris_viles@064yahoo.com] - fix to SignatureSubpacket critical bit setting.

- Pasi Eronen [mailto:Pasi.Eronen@064nokia.com] - extra toString() support for ASN.1 library. Initial patch for large OID components.


- Maria Ivanova [mailto:maria.ivanova@064gmail.com] - support for tags > 30 in ASN.1 parsing.

- Armin H&auml;berling [mailto:arminha@student.ethz.ch] - first cut of internationalisation, initial PKIX
validation classes.</li>
</li><li>Marius Schilder &lt;mschilder#064google.com&gt; - main set of test vectors for Bleichenbacher's forgery attack.</li>
</li><li>Xavier Le Vourch &lt;xavier#064britannysoftware.com&gt; - general code clean ups.</li>
</li><li>Erik Tews &lt;e_tews#064cde.informatik.tu-darmstadt.de&gt; - initial threaded random seed generator, constant-time PKCS#1.5 decoding.</li>
</li><li>Thomas Dixon &lt;reikomusha#064gmail.com&gt; - initial implementations of TEA/XTEA, Salsa20, ISAAC, and Noekeon. XTEA enhancements.</li>
</li><li>Frank Cornelis &lt;info#064frankcornelis.be&gt; - addition of crlAccessMethod in X509ObjectIdentifiers.</li>
</li><li>Rui Joaquim &lt;rjoaquim#064cc.isel.ipl.pt&gt; - initial implementation of RSA blinding for signatures.</li>
</li><li>David Stacey &lt;DStacey#064allantgroup.com&gt; - addition of trust packet checking on revocation signatures in PGPSecretKeyRing.</li>
</li><li>Martijn Brinkers &lt;list#064mitm.nl&gt; - better exception handling in CMS enveloping, "just in time" modifications for CRL and Sequence evaluation.</li>
</li><li>Julius Davies &lt;juliusdavies#064gmail.com&gt; - additional modes and algorithm support in PEMReader.</li>
</li><li>Matthias &lt;g#064rtner.de&gt; - GnuPG compatibility changes for PBEFileProcessor.</li>
</li><li>Olga K&uuml;bler &lt;olga.kaethler#064hp-consulting.com&gt; - initial implementation of TeleTrusT EC curves, additional ISO 9797 MACs, contributions to EAC OIDs, addition of EAC algorithms to CMS Signing.</li>
</li><li>Germano Rizzo &lt;germano.rizzo#064gmail.com&gt; - initial implementation of CMac, EAX, HC-128, and HC-256, optimisations for Salsa20.</li>
</li><li>N&uuml;ria Mar&iacute; &lt;numaa#064hotmail.com&gt; - patch for alternate data type recognition in CMSStatedDataParser.</li>
</li><li>Janis Schuller &lt;js#064tzi.de&gt; - addition of NotionData packets for OpenPGP.</li>
</li><li>Michael Samblanet &lt;mike#064samblanet.com&gt; - patches towards improved Sun/default provider support in CMS.</li>
</li><li>Mike StJohns &lt;mstjohns#064comcast.net&gt; - patches for supporting empty subject in X.509 certificate generation, NoneECDSA, updates to KeyPurposeId.</li>
</li><li>Ramon Keller &lt;ramon.keller#064gmx.ch&gt; - patch to deal with null revocations return from other CRL in X509V2CRLGenerator.</li>
</li><li>Mark Nelson &lt;mark#064nbr.com&gt; - correction to excluded DN in name constraints processing for PKIX processing.</li>
</li><li>Eugene Golushkov &lt;eugene_gff#064ukr.net&gt; - mask fix to single byte read in TlsInputStream.</li>
</li><li>Julien Pasquier &lt;julienpasquier#064free.fr&gt; - additional classes for supporting signature policy and signer certificates in the ASN.1 esf and esss libraries.</li>
</li><li>Peter Knopp &lt;pknopp#064mtg.de&gt; - fix for named curve recognition in ECOST key generation.</li>
</li><li>Jakub Gwozdz &lt;jgwozdz@#064pgp.pl&gt; - addition of getTsa() to TimeStampTokenInfo.</li>
</li><li>Bartosz Malkowski &lt;bmalkow#064tigase.org&gt; - initial implementation of VMPC cipher, VMPCRandomGenerator, VMPCMac.</li>
</li><li>Tal Yacobi &lt;tal@#064octavian-tech.com&gt; - fix for issue in OpenPGP examples [#BJA-55].</li>
</li><li>Massimiliano Ziccardi &lt;massimiliano.ziccardi#064gmail.comt&gt; - support for counter signature reading in CMS API, update for multiple counter signature attributes, JCA compliance patch for PEM parsing in CertificateFactory.</li>
</li><li>Andrey Pavlenko &lt;andrey.a.pavlenko#064gmail.com&gt; - security manager patch for PKCS1Encoding property check.</li>
</li><li>J Ross Nicoll &lt;jrn#064jrn.me.uk&gt; - improved exception handling for getInstance() in ASN.1 library.
Matthew Stevenson &lt;mavricknz@064yahoo.com&gt; - patch to constructor for CRMF CertSequence.

Roelof Naude &lt;roelof.naude@064epiuse.com&gt; - patch for TLS client to send empty client certs in response to HP_CERTIFICATE_REQUEST.

Patrick Peck &lt;peck@064signature.at&gt; - identified a problem with DERApplicationSpecific and high tag numbers in ASN.1 library.

Michael LeMay &lt;lemaymd@064lemaymd.com&gt; - identified problem with EAX [#BJA-93].

Alex Dupre &lt;ale@064FreeBSD.org&gt; - fix to use of Signature rather than SignatureSpi in provider [#BJA-90]. Addition of null provider use to SignedPublicKeyAndChallenge and PKCS10CertificationRequest [#BJA-102].

Michael Schoene &lt;michael@064sigrid-und-michael.de&gt; - fix of improper handling of null in ExtendedPKIXParameters.setTrustedAICIssuers(), check for V2 signingCertificate attribute in TimeStampResponse.validate().

Ion Larrañaga &lt;ilarra@064s21sec.com&gt; - fix to default partial packet generation in BCPGOutputStream.

Bob Kerns &lt;bob.kerns@positscience.com&gt; - fix to hashCode for X509CertificateObject.

Stefan Meyer &lt;stefan.meyer@064ewe.de&gt; - backport for PKIXCertPathValidator and SMIMESignedMailReviewer.

Robert J. Moore &lt;Robert.J.Moore@allanbank.com&gt; - speedups for OpenPGPCFB mode, clean room JCE patches.

Rui Hodai &lt;rui@064po.ntts.co.jp&gt; - speed ups for Camellia implementation, CamelliaLightEngine.

Emir Bucalovic &lt;emir.bucalovic@064mail.com&gt; - initial implementation of Grain-v1 and Grain-128.

Torbjorn Svensson &lt;tobbe79@064gmail.com&gt; - initial implementation of Grain-v1 and Grain-128.

Paul FitzPatrick &lt;paulfitzpatrick.cc&gt; - error message fix to X509LDAPCertStoreSpi, comparison fix to BCSIstrictStyle.

Henrik Andersson &lt;k.henrik.andersson@064gmail.com&gt; - addition of UniqueIssuerID to certificate generation.

Cagdas Cirit &lt;cagdascirit@064gmail.com&gt; - subjectAlternativeName fix for X509CertStoreSelector.

Harakiri &lt;harakiri@064yahoo.com&gt; - datahandler patch for attached parts in SMIME signatures.

Pedro Henriques &lt;pnh@064gmail.com&gt; - explicit bounds checking for DESKeyGenerator, code simplification for OAEPEncoding.

Lothar Kimmenger &lt;job@064kimmenger.de&gt; - verbose mode for ASN1Dump, support for DERExternal, DNS performance fix for SMIME API.

Richard Farr &lt;rfarr.se@064gmail.com&gt; - initial SRP-6a implementation.

Thomas Castiglione &lt;tcastiglione@064au.ibm.com&gt; - patch to encoding for CRMF OptionalValidity.

Elisabetta Romani &lt;eromani@064sogei.it&gt; - patch for recognising multiple counter signatures.

Robin Lundgren &lt;rlundgren@064gmail.com&gt; - CMPCertificate constructor from X509CertificateStructure fix.

Petr Kadlec &lt;mormegil@064centrum.cz&gt; - fix to sign extension key and IV problem in HC-128, HC-256.

Andreas Antener &lt;antener_a@064gmx.ch&gt; - fix to buffer reset in AsymmetricBufferedBlockCipher.

Harendra Rawat &lt;hrrawat@064yahoo.com&gt; - fix for BERConstructedOcetString.

Rolf Lindemann &lt;rolf.lindemann@064trustcenter.de&gt; - patch for PKCS12 key store to support more flexible attribute specifications [#BMA-42].

Alex Artamonov &lt;alexart.home@064gmail.com&gt; - name look up patch for GOST-2001 parameters.

Mike Lyons &lt;mylons@064layer7tech.com&gt; - work arounds for EC JDK bug 6738532 and JSSE EC naming conventions.
Chris Cole &lt;chris_h_cole@yahoo.com&gt; identified a problem handling null passwords when loading a BKS keystore.

Tomáš Krivanek &lt;tom@064attack.cz&gt; added checking of Sender header to SignedMailValidator.

Michael &lt;emfau@#064it-online.de&gt; correction of field error in getResponse method in CertRepMessage.

Trevor Perrin &lt;trevor@064cryptography.com&gt; addition of constant time equals to avoid possible timing attacks.

Markus Kilångs &lt;markus@064primekey.se&gt; several enhancements to TimeStampResponseGenerator.

Dario Novakovic &lt;darionis@064yahoo.com&gt; fix for NPE when checking revocation reason on CRL without extensions.

Michael Smith &lt;msmith@064cbnco.com&gt; bug fixes and enhancements to the CMP and CRMF classes, initial Master List classes.

Andrea Zilio &lt;andrea.zilio@064gmail.com&gt; fix for PEM password encryption of private keys.

Alex Birkett &lt;alex@064birkett.co.uk&gt; added support for EC cipher suites in TLS client (RFC 4492) [#BJA-291].

Wayne Grant &lt;waynedgrant@064gmail.com&gt; additional OIDs for PCKS10 and certificate generation support.

Frank Cornelis &lt;info@064frankcornelis.be&gt; additional support classes for CAdES, enhancements to OCSP classes.

Jan Dittberner &lt;jan@064dittberner.info&gt; addHeader patch for SMIME generator.

Bob McGowan &lt;boab.mcgooo@064btinternet.com&gt; patch to support different object and mgf digests in PSS signing.

Ivo Matheis &lt;i.matheis@064seeburger.de&gt; fix to padding verification in ISO-9796-1.

Marco Sandrini &lt;nessche@064gmail.com&gt; patch to add IV to ISO9797Alg3Mac.

Alf Malf &lt;alfilmalf@#064hotmail.com&gt; removal of unnecessary limit in CMSContentInfoParser.

Alfonso Massa &lt;alfonso.massa@#064insic.it&gt; contributions to CMS time stamp classes.

Giacomo Boccardo &lt;gboccardo@#064unicastaspa.it&gt; initial work on CMSTimeStampedDataParser.

Arnis Tartu &lt;arnis@#064ut.ee&gt; patches for dealing with OIDs with specific key sizes associated in CMS.

Janusz Sikociński &lt;J.Sikociinski@064gdzie.pl&gt; addition of Features subpacket support to OpenPGP API.

Juri Hudolejev &lt;jhudolejev@064gmail.com&gt; JavaDoc fix to CMSSignedDataParser.

Liane Velten &lt;liane.velten@#064hjp-consulting.com&gt; fine tuning of code for DHParameters validation.

Shawn Willden &lt;swillden@064google.com&gt; additional functionality to PGPKeyRing.

Atanas Krachev &lt;akrachev@064gmail.com&gt; added support for revocation signatures in OpenPGP.

Mickael Laiking &lt;mickael.laiking@#064keynectis.com&gt; initial cut of EAC classes.

Tim Buktu &lt;tibktu@064hotmail.com&gt; Initial implementation of NTRU signing and encryption.

Bernd &lt;rbernd@064gmail.com&gt; Fix for open of PGP literal data stream with UTF-8 naming.

Steing Inge Morisbak &lt;stein.inge.morisbak@#064bekk.no&gt; Test code for lower case Hex data in PEM headers.

Andreas Schmid &lt;andreas.schmid@#064tngeotech.com&gt; Additional expiry time check in PGPPublicKeys.

Phil Steitz &lt;phil.steitz@064gmail.com&gt; Final patch eliminating JCE dependencies in the OpenPGP BC classes.

Ignat Korchagin &lt;ignat.korchagin@064gmail.com&gt; Initial implementation of DSTU-4145-2002, long
hash fix for DSTU-4145-2002. <li>
Petr Petrov &lt;p.petrov@bers-soft.com&gt; Testing and debugging of UTF-8 OpenPGP passwords. <li>
Daniel Fitzpatrick &lt;daniel.f.nwr@#064gmail.com&gt; Initial implementation of ephemeral key support for IES, initial implementations of RSA-KEM and ECIES-KEM, initial implementation of homogeneous projective coordinates for EC. <li>
Andy Neilson &lt;andy.neilson@#064quest.com&gt; a further patches to deal with multiple providers and PEMReader. <li>
Ted Shaw &lt;tao.xj@#064gmail.com&gt; patch to MiscPEMGenerator for handling new PKCS10CertificationRequests. <li>
Eleriseth &lt;eleriseth@#064WPECGLtYybY18RlvzI2Lv2EUVVW99v3yNV3IWROG8.fms&gt; speed up for SIC/CTR mode. Provider compatibility generalisations for EC operations. <li>
Kenny Root &lt;kenny@#064the-b.org&gt; patch for issuerAltName, subjectAltName support in X509CertificateObject, BaseBlockCipher.getIV() patch for AEAD. <li>
Maarten Bodewes &lt;maarten.bodewes@#064gmail.com&gt; initial implementation of HKDF and NIST SP 800-108 MAC based KDF functions. <li>
Philip Clay &lt;pilf_b@#064yahoo.com&gt; Initial implementation of J-PAKE. <li>
Brian Carlstrom &lt;bdc@#064carlstrom.com&gt; compliance patches for some JCA/JCE keystore and cipher classes, miscellaneous code quality improvements, initial provider PBKDF2WithHmacSHA1 SecretKeyFactory. <li>
Samuel Lid&eacute;n Borell &lt;samuel@#064primekey.se&gt; patch to add DSTU-4145 to DefaultSignatureAlgorithmFinder. <li>
Sergio Demian Lerner &lt;sergiolerner@#064certimix.com&gt; pointing out isInfinity issue in ECDSASigner signature verification. <li>
Tim Whittington &lt;tim.whittington@#064orionhealth.com&gt; patch to remove extra init call in CMac, additional of Memorable interface for Digest classes, initial implementation of GMAC, further correctness tests for IV and reset processing in OCB, CCM, and block cipher reset. Initial implementation of Skein. XSalsa20, ChaCha, reduced round Salsa20, Threefish, and the Poly1305 MAC. Documentation updates. Added OCB support to Nokeon and CAST6 in the provider, exception testing for CTS, optimisations for CCM, provider support for AAD cipher methods, safe CipherInput/OutputStream implementations for use with AAD and subsequent bug fixes, cleanup after IDEA patent expiry, work on JCE SipHash support, optimisations for AESFastEngine, further work on EncodableDigest for SHA-2 digests, contributions to BCrypt/OpenBSDBCrypt, PGP API documentation and code quality work. <li>
Marcus Lundblad &lt;marcus.lundblad@#064primekey.se&gt; patch for working around JDK jarsigner TSP bug, optional setting of IssuerSerial in TimeStampTokenGenerator, additional extensions enhancement for time stamp token generation. <li>
Andrey Zhozhin &lt;zhozhin@#064xrm.ru&gt; patch for override of TSP SignerInfo attributes. <li>
Sergey Tiunov &lt;ct5555d@#064gmail.com&gt; initial cut of DVCS classes. <li>
Damjan Kolasa &lt;fatfredyy@#064gmail.com&gt; ASN1Sequence patch for class cast issue in X9Curve. <li>
Ash Hughes &lt;ashley.hughes@#064blueyonder.co.uk&gt; patches for supporting PGPSecretKeyRing/PGPSecretKeys encodings with empty private keys, initial code for PGPSignatureSubpacketVector.getEmbeddedSignatures(). <li>
Daniel Hirsch &lt;dev@#064daniel-hirsch.de&gt; patch to support parsing of explicit EC parameters in PEM files. <li>
Daniele Ricci &lt;daniele.athome@#064gmail.com&gt; initial implementation of EC keys for OpenPGP and RFC6637 support. <li>
Matti Aarnio &lt;matti.aarnio@mathetics.fi&gt; tweaks to any build to remove dependence on shell scripts. Initial SM3 digest implementation, some EC related code cleanups, JavaDoc improvements for ASN.1 classes, addition of NONEmWithRSA to lightweight RSADigestSigner.
Babak Najafi &lt;bnajafi&#064akamai.com&gt; fixes to OpenPGP NotationData to prevent truncation problems.

Eric M&amp;uuml;ller &lt;eric.mueller&#064sage.de&gt; additional standard algorithm name lookups in JcaPEMKeyConverter.

Mathias Herberts &lt;Mathias.Herberts&#064gmail.com&gt; fix to inOff usage in RFC3394WrapEngine.

Daniil Ivanov &lt;daniil.ivanov&#064gmail.com&gt; addition of provider support for GOST HMAC SecretKeyFactory.

Daniele Grasso &lt;daniele.grasso86&#064gmail.com&gt; contributions to final Key calculation code for SRP6.

Andrey Utkin &lt;cindrhc&#064gmail.com&gt; patch to reconstruction of ECGOST keys from PrivateKeyInfo objects in provider classes.

Arnis Tartu &lt;arnis&#064ut.ee&gt; checker for generated key vs OID in JceCMSContentEncryptorBuilder.

AxelVDB &lt;axel-vdb&#064064riseup.net&gt; initial implementation of Shacal2.

Roberto Tyley &lt;.&gt; further work on completing gradle build.

Waldemar Dick &lt;wdick&#064devmue.de&gt; code improvement in x500 ASN.1 package.

Sid Steward &lt;sid.steward&#064pdfilabs.com&gt; code improvements to ASN1Boolean.

Alex Klyubin &lt;alex.klyubin&#064google.com&gt; AlgorithmParameters check for EC key agreement.

Jonathan Gillett &lt;gsoc.student&#064gmail.com&gt; Initial support for block cipher IVs in IESEngine, IES MAC length check bug fix.

Andreas Reiter &lt;andreas.reiter&#064tugraz.at&gt; Reported incomplete status of CertificateVerify processing in (D)TLS server, and provided fix.

Kieran Miller &lt;kieran.miller&#064gmail.com&gt; initial implementation for RFC 5649 key wrap with padding.

Oliver Ehli &lt;ehli&#064064arago.de&gt; Additional support for BSI plain ECDSA in the provider.

Daniel Heldt &lt;Daniel.Heldt&#064cryptovision.com&gt; Initial support for encodable state message digests.

Robert Bushman &lt;bounceycastle&#064064traxel.com&gt; Clean up of DirectKeySignature example.

Maurice Aarts &lt;aarts&#064064riscure.com&gt; updated to KDF generator to follow NIST SP 800-108.

Franziskus Kiefer &lt;https://github.com/franziskuskiefer&gt; initial implementation of Cramer-Shoup.

KB Sriram &lt;mail_kb&#064yahoo.com&gt; testing for odd encodings for PGP User Attribute Subpackets.

Marco Schulze &lt;marco&#064064nightlabs.de&gt; Reported verification bug in GenericSigner.

Martin Schaefer &lt;https://github.com/martinschaefer&gt; contributed a code-cleanup patch.

dstutz &lt;https://github.com/dstutz&gt; added iteration count setters to PKCS#12 PBE mac/key generator builders.

Tobias Wich &lt;toibas.wich&#064064ecsec.de&gt; Provided patch for TLS to work around servers sending Supported Elliptic Curves extension unexpectedly.

Hauke Mehrtens &lt;hauke&#064064hauke-m.de&gt; TLS patch to add ECDHE_ECDSA CCM ciphersuites from RFC 7251.

Daniel Zimmerman &lt;dmz&#064064galois.com&gt; Further key quality improvements to RSAKeyPairGenerator.

Jens Kapitzak &lt;jk.kapitzak&#064schwarze-allianz.de&gt; Iterable support in OpenPGP API, code cleanup in OpenPGP API.

Johan Eklund &lt;johan&#064064primekey.se&gt; update to RFC 6960 for OCSPObjectIdentifiers.

nikosn &lt;https://github.com/nikosn&gt; Fix to encoding of EC private keys to ensure encoding matches order length.

Axel von dem Bruch &lt;axel-vdb&#064064riseup.net&gt; Contributions to BCrypt/OpenBSDBCrypt, original
version of Blake2bDigest.

Derek Atkins &lt;derek@ihtfp.com&gt; Documentation fixes to X9ObjectIdentifiers.

Peter Jr Halicky &lt;peter@6halicky.sk&gt; Correction to notification/error message handling in SignedMailValidator.

lartiguePierre &lt;https://github.com/lartiguePierre&gt; Fix for counter signature SID in CMSSignedData.

Thomas Belot &lt;thomas.belot+BC@#064gmail.com&gt; Initial CertPathLoopTest for demonstrating stack overflow issue.

Rich DiCroce &lt;https://github.com/rdcroce&gt; Initial implementation of server-side TLS-SRP support. TLS API extension to support non-blocking usage.

Björn Kautler &lt;https://github.com/Vampire&gt; Refinements to cert path validation (authority key addition, certificate order preservation).

Dominik Schwunn &lt;https://github.com/dschuermann&gt; Method for returning signatures/verifications without user IDs on PGPPublicKey, method for exposing S2K in PGPSecretKey, constants for GNU protection modes in S2K classes, optional version header for armored output.

Michael &lt;MSKnete@web.de&gt; Initial fix for bitStrength issue for OpenPGP EC keys, correction for generic type on RecipientInformationStore.

Tobias Wagner &lt;https://github.com/tobias.wagner@n-design.de&gt; Fix SecureRandom handling in BcAsymmetricKeyWrapper [#BJA-536].

Sergio Giro &lt;https://github.com/6ssi/gro@#064google.com&gt; Fixed adding of additional stores from CRL distribution point [#BJA-537], Fixed missing null check for CRL certificate issuer [#BJA-538], removal of risky zeroisation code in PBE.java, check for salt in PBEKeys that require it.

bschuette &lt;https://github.com/bschuette&gt; Fixed typo in DefaultSignatureAlgorithmIdentifierFinder, additional methods on CMSSignedDataParser.

Leonard Dallot &lt;https://github.com/dallotTazTag&gt; Fix to S2K usage of none on changing passwords on keys without passwords originally.

Jan Willem Janssen &lt;https://github.com/dallotTazTag&gt; Support for DSAParameters in lightweight SubjectPublicKeyInfoFactory, initial object signer verifier for BC lightweight EC.

Sebastian Oerding &lt;https://github.com/sebastian.oerding@robotron.de&gt; Fixes to toString() in x509.CertificatePolicies.

Kai Kramer &lt;kai.kramer@#064gmail.com&gt; Code to deal with orphaned chain certificates in the PKCS#12 KeyStore.

Benoit Charles &lt;https://github.com/benoit.charles@opentrust.com&gt; Fix for IES data length check on decryption.

Niko &lt;https://github.com/nfink95@#064gmail.com&gt; Fix to cast issue in getOutputSize() for ECIES.

akwizgran &lt;https://github.com/akwizgran&gt; Fixed clone of key in Blake2bDigest copy constructor, blake2b reset issue for variant keys.

Matthias Edelhoff &lt;https://github.com/MatthiasEdelhoff&gt; BasicConstraintsValidation pathlen fix in PKIX certpath classes.

Lukasz Deputat &lt;https://github.com/lukasz.deputat@#064gmail.com&gt; Fixed bugs in TlsUtils read methods [#BJA-592].

Justin Ludwig &lt;https://github.com/justinludwig&gt; Iterator fix for PGPObjectFactory to handle stream packets at start of iterated data.

Andre&ecute; Berenguel &lt;https://github.com/aberenguel&gt; Fix to include ECNamedCurveSpec in EC AlgorithmParameterSpi.

Slawomir Jaranowski &lt;https://github.com/slawaekjaranowski&gt; Patch to make cipher/hash/signature name methods in PGP internal API public.

Andrey Vasilyev &lt;https://github.com/andrey-vasilyev&gt; Initial implementation of GOST R 34.11-2012.

William Glanton &lt;https://github.com/wglanton77@#064gmail.com&gt; Fixed bug in Poly1305 [#BJA-620].

jdvorak001 &lt;https://github.com/jdvorak001&gt; Speed improvements for ASN.1 ObjectIdentifier cache.

Joseph Naegele &lt;https://github.com/jnaegele&gt; Patch for handling multiple certificates in a DANE
SMIMEA entry.</li>
<li>The Google Security Team (Project Wycheproof) &lt;https://github.com/google/wycheproof&gt;; defect analysis and additional test cases for the provider.</li>
<li>Gorka Irazoqui &lt;https://github.com/girazoki&gt;; from Intel Security Center of Excellence &lt;https://security-center.intel.com/&gt;; detection of the issue with AESFastEngine (CVE-2016-1000339), additional suggestions for improvement to hardening of AESEngine and finding cache sensitivities in EC key generation/signing.</li>
<li>Joerg Senekowitsch &lt;https://github.com/joergsenekowitsch&gt;; patch to deal with hard coded boolean in EAC ECDSA Public Key.</li>
<li>The Google Security Team (Project Wycheproof) &lt;https://github.com/google/wycheproof&gt;; defect analysis and additional test cases for the provider.</li>
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<li>Alexandr Krivoshta &lt;https://github.com/AlexandrKrivoshta&gt;; N4 calculation fix to GOFB mode.</li>
<li>Gorka Irazoqui &lt;https://github.com/girazoki&gt;; from Intel Security Center of Excellence &lt;https://security-center.intel.com/&gt;; detection of the issue with AESFastEngine (CVE-2016-1000339), additional suggestions for improvement to hardening of AESEngine and finding cache sensitivities in EC key generation/signing.</li>
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Adam Vartanian &lt;https://github.com/flooey&gt; use of ShortBuffer exception and buffer size pre-check in Cipher.doFinal().

Bernd &lt;https://github.com/ecki&gt; Fix to make PGPUtil.pipeFileContents use buffer and not leak file handle.

Shartung &lt;https://github.com/shartung&gt; Additional EC Key Agreement algorithms in support of German BSI TR-03111.

Paul Schaub &lt;https://github.com/vanitasvitae&gt; bringing PGPSecretKey.getUserIds() into line with PGPPublicKey.getUserIds(). Exception message fix in BcPublicKeyDataDecryptorFactory. Additional tests on PGP key ring generation.

Nick of Nexlar &lt;https://github.com/nros&gt; update to OpenPGP package to handle a broader range of EC curves.

catbref &lt;https://github.com/catbref&gt; sample implementation of RFC 7748/Ed25519 (incorporated work from github users Valdim and str4d as well).

gerlion &lt;https://github.com/gerlion&gt; detection of concurrency issue with pre-1.60 EC math library.

fgrieu &lt;fgrieu&#064;gmail.com&gt; identification and suggested fixes for possible timing vulnerability in OAEPEncoding and RSACoreEngine.

MTG &lt;https://github.com/mtgag&gt; patch for decoding issues in PKIPublicationInfo and CertifiedKeyPair.

Andreas Gadermaier &lt;up.gadermaier&#064;gmail.com&gt; initial version of Argon2 PBKDF algorithm.

Tony Washer &lt;tony.washer@yahoo.co.uk&gt; review of qTesla, Java 1.9 module code, additional test code and debugging for GOST, DSTU, and ECNR algorithms. Initial lightweight implementation of the ZUC ciphers and macs.

Vincent Bouckaert &lt;https://github.com/veebee&gt; initial version of RFC 4998 ASN.1 classes.


AuRimas Liutikas &lt;https://github.com/liutikas&gt; JavaDoc patches to ReasonsMask.

Gabriel Sroka &lt;https://github.com/gabrielsroka&gt; corrected comments in RSA validation.

sarah-mdv &lt;https://github.com/sarah-mdv&gt; improvements to JceKeyTransRecipientInfoGenerator, tests for JournalingSecureRandom, initial implementation of JournaledAlgorithm.

Jesse Feinman &lt;https://github.com/jessefeinman&gt; performance optimisation in RSAKeyParameters.

Giliis95 &lt;https://github.com/Giliis95&gt; improved JSSE compatibility for setEnabledCipherSuites.

Haemnin Yoo &lt;https://github.com/yoohaemin&gt; Javadoc fixes.

Antoine Toulme &lt;https://github.com/atouleme&gt; Initial implementation of EthereumIESEngine.

Golden Looly &lt;https://github.com/looly&gt; Patch for addition of C1C3C2 mode to SM2Engine.

Moses Palm&eacute;r, TrueSec &lt;Henrik.Palmer&#064;truesec.se&gt; Additional improvements to constant time comparisons.

Ren&xacute; Korthaus&lt;https://github.com/securitykernel&gt; Update to XMSS/XMSS^MT OID values to bring them in line with RFC 8391.

THausherr &lt;https://github.com/THausherr&gt; Addition generic support for CMS/TSP functions.

Gaylor Bosson &lt;https://github.com/Gilthoniel&gt; Initial implementation of Blake2xs.

gaelallaire&lt;https://github.com/gaelallaire&gt; Patch for unprotected PGP private keys as SExpr.

im-scooter&lt;https://github.com/im-scooter&gt; Patch for case-insensitive behaviour of Param-Z.

Nick hitchan&lt;https://github.com/hitchan&gt; Fix for typo in engineInitSign() in EdEc SignatureSpi.

dbusche&lt;https://github.com/dbusche&gt; Argon2 optimisations.

Daniel Heldt&lt;https://github.com/dheldt&gt; Fixing encodings in unicode tests to allow a wider range of Java compilers to work. Tweak to inheritance in JceKeyAgreeRecipient.

Ugochukwu Mmaduekwe&lt;https://github.com/Xor-el&gt; Fix for initially bugged legacy Integers.numberOfLeadingZeros method.
<li>Gsealy &lt;https://github.com/Gsealy&gt; addition of PBKDF2withHmacSM3 to the provider.</li>
<li>aphuang2013 &lt;https://github.com/aphuang2013&gt; update to path validation in EST service for ClearPath EST.</li>
<li>Kevin Herron &lt;https://github.com/kevinherron&gt; Initial ChaCha20Poly1305 prototype.</li>
<li>vkreml &lt;https://github.com/svkreml&gt; GOST compliance change for DefaultCMSSignatureEncryptionAlgorithmFinder.</li>
<li>Tobias Ospelt &lt;tobias@pentagrid.ch&gt; Identification of 1.63 regression in ASN.1 parsing.</li>
</ul>

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The specification of DOM Level 1's various parts is at:
http://www.w3.org/TR/1998/REC-DOM-Level-1-19981001/level-one.html

Links to all available W3C DOM Java Bindings can be found at:
http://www.w3.org/DOM/DOMTR

The actual classes of The Simple API for CSS (SAC) came from:
http://www.w3.org/Style/CSS/SAC/
http://www.w3.org/2002/06/sacjava-1.3.zip

The actual DOM Java Language Binding classes for SMIL came from:
http://dev.w3.org/cvsweb/java/classes/org/w3c/dom/smil/
(both ElementTimeControl.java and TimeEvent.java were taken at revision 1.1)

The actual DOM Java Language Binding classes for SVG 1.1 came from:
http://www.w3.org/TR/SVG11/java.html

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### 1.569 gobject-introspection 1.56.1 1.el7

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1.572 perl-carp 1.26

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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
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.

INSTALLATION
perl Makefile.PL
make
make test
make install

AUTHOR

The 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 Carp into an independent distribution.

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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:

=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) Carp 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 Carp 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 (e.g., 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 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>.

=head2 $Carp::MaxArgLen

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>.

=head2 $Carp::MaxArgNums

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>.

=head2 $Carp::Verbose

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>.

=head2 @CARP_NOT

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 \texttt{C<Carp>} report the error as coming from a caller not in \texttt{C<My::Carp::Package>}, nor from \texttt{C<My::Friendly::Caller>}.

Also read the \texttt{L</DESCRIPTION>} section above, about how \texttt{C<Carp>} decides where the error is reported from.

Use \texttt{C<@CARP_NOT>}, instead of \texttt{C<$Carp::CarpLevel>}.

Overrides \texttt{C<Carp>}'s use of \texttt{C<@ISA>}.

=head2 %Carp::Internal

This says what packages are internal to Perl. \texttt{C<Carp>} will never report an error as being from a line in a package that is internal to Perl. For example:

\begin{verbatim}
$Carp::Internal{ (__PACKAGE__) }++;  
# time passes...  
sub foo { ... or confess("whatever") };
\end{verbatim}

would give a full stack backtrace starting from the first caller outside of \texttt{__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 \texttt{C<%Carp::CarpInternal>}. But it is slightly different for the summary message generated by \texttt{C<carp>} or \texttt{C<croak>}. There errors will not be reported on any lines that are calling packages in \texttt{C<%Carp::CarpInternal>}. For example \texttt{C<Carp>} itself is listed in \texttt{C<%Carp::CarpInternal>}. Therefore the full stack backtrace from \texttt{C<confess>} will not start inside of \texttt{C<Carp>}, and the short message from calling \texttt{C<croak>} is not placed on the line where \texttt{C<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{C<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{C<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 C<$Carp::CarpLevel>.
Instead use C<@CARP_NOT>, C<%Carp::Internal> and C<%Carp::CarpInternal>.

Defaults to C<0>.

=head1 BUGS

The Carp routines don't handle exception objects currently.
If called with a first argument that is a reference, they simply
call die() or warn(), as appropriate.

=head1 SEE ALSO

L<Carp::Always>,
L<Carp::Clan>

=head1 AUTHOR

The 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 Carp into an independent
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---
abstract: 'alternative warn and die for modules'
author:
  - unknown
buildRequires:
  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
metaSpec:
  url: http://module-build.sourceforge.net/META-spec-v1.4.html
  version: 1.4
  name: Carp
noIndex:
directory:
  - t
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requires:
  Exporter: 0
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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
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<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

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1.582 perl-file-path 2.09
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=head1 NAME

File::Path - Create or remove directory trees

=head1 VERSION

This document describes version 2.09 of File::Path, released 2013-01-17.

=head1 SYNOPSIS
use File::Path qw(make_path remove_tree);

make_path('foo/bar/baz', '/zug/zwang');
make_path('foo/bar/baz', '/zug/zwang', {  
  verbose => 1,
  mode => 0711,
});

remove_tree('foo/bar/baz', '/zug/zwang');
remove_tree('foo/bar/baz', '/zug/zwang', {  
  verbose => 1,
  error => \my $err_list,
});

# legacy (interface promoted before v2.00)
mkpath('/foo/bar/baz');
mkpath('/foo/bar/baz', 1, 0711);
mkpath(['/foo/bar/baz', 'blurfl/quux'], 1, 0711);
rmtree('foo/bar/baz', 1, 1);
rmtree(['foo/bar/baz', 'blurfl/quux'], 1, 1);

# legacy (interface promoted before v2.06)
mkpath('foo/bar/baz', '/zug/zwang', { verbose => 1, mode => 0711 });
rmtree('foo/bar/baz', '/zug/zwang', { verbose => 1, mode => 0711 });

=head1 DESCRIPTION

This module provide a convenient way to create directories of arbitrary depth and to delete an entire directory subtree from the filesystem.

The following functions are provided:

=over

=item make_path( $dir1, $dir2, .... )

=item make_path( $dir1, $dir2, ...., \%opts )

=over

The C<make_path> function creates the given directories if they don't exists before, much like the Unix command C<mkdir -p>.

The function accepts a list of directories to be created. Its behaviour may be tuned by an optional hashref appearing as the last parameter on the call.

The function returns the list of directories actually created during
the call; in scalar context the number of directories created.

The following keys are recognised in the option hash:

=over

=item mode => $num

The numeric permissions mode to apply to each created directory
(defaults to 0777), to be modified by the current $umask. If the
directory already exists (and thus does not need to be created),
the permissions will not be modified.

$umask is recognised as an alias for this parameter.

=item verbose => $bool

If present, will cause $make_path to print the name of each directory
as it is created. By default nothing is printed.

=item error => \$err

If present, it should be a reference to a scalar.
This scalar will be made to reference an array, which will
be used to store any errors that are encountered. See the L</"ERROR
HANDLING"> section for more information.

If this parameter is not used, certain error conditions may raise
a fatal error that will cause the program will halt, unless trapped
in an $eval block.

=item owner => $owner

=item user => $owner

=item uid => $owner

If present, will cause any created directory to be owned by $owner.
If the value is numeric, it will be interpreted as a uid, otherwise
as username is assumed. An error will be issued if the username cannot be
mapped to a uid, or the uid does not exist, or the process lacks the
privileges to change ownership.

Ownership of directories that already exist will not be changed.

$user and $uid are aliases of $owner.

=item group => $group
If present, will cause any created directory to be owned by the group \texttt{C<$group>}. If the value is numeric, it will be interpreted as a gid, otherwise as group name is assumed. An error will be issued if the group name cannot be mapped to a gid, or the gid does not exist, or the process lacks the privileges to change group ownership.

Group ownership of directories that already exist will not be changed.

```perl
make_path '/var/tmp/webcache', {owner=>'nobody', group=>'nogroup'};
```

=back

==item mkpath( $dir )

==item mkpath( $dir, $verbose, $mode )

==item mkpath( [$dir1, $dir2,...], $verbose, $mode )

==item mkpath( $dir1, $dir2,..., \%opt )

The \texttt{mkpath()} function provide the legacy interface of \texttt{make_path()} with a different interpretation of the arguments passed. The behaviour and return value of the function is otherwise identical to \texttt{make_path()}.

==item remove_tree( $dir1, $dir2, .... )

==item remove_tree( $dir1, $dir2, ...., \%opts )

The \texttt{C<remove_tree>} function deletes the given directories and any files and subdirectories they might contain, much like the Unix command \texttt{C<rm -r>} or \texttt{C<del /s>} on Windows.

The function accepts a list of directories to be removed. Its behaviour may be tuned by an optional hashref appearing as the last parameter on the call.

The functions returns the number of files successfully deleted.

The following keys are recognised in the option hash:

=over

==item verbose => $bool

If present, will cause \texttt{C<remove_tree>} to print the name of each file as it is unlinked. By default nothing is printed.
=item safe => $bool

When set to a true value, will cause C<remove_tree> to skip the files for which the process lacks the required privileges needed to delete files, such as delete privileges on VMS. In other words, the code will make no attempt to alter file permissions. Thus, if the process is interrupted, no filesystem object will be left in a more permissive mode.

=item keep_root => $bool

When set to a true value, will cause all files and subdirectories to be removed, except the initially specified directories. This comes in handy when cleaning out an application's scratch directory.

    remove_tree( '/tmp', {keep_root => 1} );

=item result => \$res

If present, it should be a reference to a scalar. This scalar will be made to reference an array, which will be used to store all files and directories unlinked during the call. If nothing is unlinked, the array will be empty.

    remove_tree( '/tmp', {result => \my $list} );
    print "unlinked $\n" for @$list;

This is a useful alternative to the C<verbose> key.

=item error => \$err

If present, it should be a reference to a scalar. This scalar will be made to reference an array, which will be used to store any errors that are encountered. See the L<"ERROR HANDLING"> section for more information.

Removing things is a much more dangerous proposition than creating things. As such, there are certain conditions that C<remove_tree> may encounter that are so dangerous that the only sane action left is to kill the program.

Use C<error> to trap all that is reasonable (problems with permissions and the like), and let it die if things get out of hand. This is the safest course of action.

=back

=item rmtree( $dir )
The rmtree() function provides the legacy interface of remove_tree() with a different interpretation of the arguments passed. The behaviour and return value of the function is otherwise identical to remove_tree().

ERROR HANDLING

The following error handling mechanism is considered experimental and is subject to change pending feedback from users.

If make_path or remove_tree encounter an error, a diagnostic message will be printed to STDERR via carp (for non-fatal errors), or via croak (for fatal errors).

If this behaviour is not desirable, the error attribute may be used to hold a reference to a variable, which will be used to store the diagnostics. The variable is made a reference to an array of hash references. Each hash contains a single key/value pair where the key is the name of the file, and the value is the error message (including the contents of $! when appropriate). If a general error is encountered the diagnostic key will be empty.

An example usage looks like:

```
remove_tree( 'foo/bar', 'bar/rat', {error => \my $err} );
if (@$err) {
  for my $diag (@$err) {
    my ($file, $message) = %$diag;
    if ($file eq '') {
      print "general error: $message\n";
    } else {
```
print "problem unlinking $file: $message\n";
}
}
}
else {
    print "No error encountered\n";
}

Note that if no errors are encountered, C<$err> will reference an empty array. This means that C<$err> will always end up TRUE; so you need to test C<@$err> to determine if errors occurred.

=head2 NOTES

C<File::Path> blindly exports C<mkpath> and C<rmtree> into the current namespace. These days, this is considered bad style, but to change it now would break too much code. Nonetheless, you are invited to specify what it is you are expecting to use:

use File::Path 'rmtree';

The routines C<make_path> and C<remove_tree> are B<not> exported by default. You must specify which ones you want to use.

use File::Path 'remove_tree';

Note that a side-effect of the above is that C<mkpath> and C<rmtree> are no longer exported at all. This is due to the way the C<Exporter> module works. If you are migrating a codebase to use the new interface, you will have to list everything explicitly. But that's just good practice anyway.

use File::Path qw(remove_tree rmtree);

=head3 API CHANGES

The API was changed in the 2.0 branch. For a time, C<mkpath> and C<rmtree> tried, unsuccessfully, to deal with the two different calling mechanisms. This approach was considered a failure.

The new semantics are now only available with C<make_path> and C<remove_tree>. The old semantics are only available through C<mkpath> and C<rmtree>. Users are strongly encouraged to upgrade to at least 2.08 in order to avoid surprises.

=head3 SECURITY CONSIDERATIONS

There were race conditions 1.x implementations of File::Path's
C<rmtree> function (although sometimes patched depending on the OS distribution or platform). The 2.0 version contains code to avoid the problem mentioned in CVE-2002-0435.

See the following pages for more information:

http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=286905
http://www.nttp.perl.org/group/perl.perl5.porters/2005/01/msg97623.html

Additionally, unless the C<safe> parameter is set (or the third parameter in the traditional interface is TRUE), should a C<remove_tree> be interrupted, files that were originally in read-only mode may now have their permissions set to a read-write (or "delete OK") mode.

=head1 DIAGNOSTICS

FATAL errors will cause the program to halt (C<croak>), since the problem is so severe that it would be dangerous to continue. (This can always be trapped with C<eval>, but it's not a good idea. Under the circumstances, dying is the best thing to do).

SEVERE errors may be trapped using the modern interface. If the they are not trapped, or the old interface is used, such an error will cause the program will halt.

All other errors may be trapped using the modern interface, otherwise they will be C<carp>ed about. Program execution will not be halted.

=item mkdir [path]: [errmsg] (SEVERE)

C<make_path> was unable to create the path. Probably some sort of permissions error at the point of departure, or insufficient resources (such as free inodes on Unix).

=item No root path(s) specified

C<make_path> was not given any paths to create. This message is only emitted if the routine is called with the traditional interface.
The modern interface will remain silent if given nothing to do.

=item No such file or directory

On Windows, if C<make_path> gives you this warning, it may mean that you have exceeded your filesystem's maximum path length.
=item cannot fetch initial working directory: [errmsg]

C<remove_tree> attempted to determine the initial directory by calling C<Cwd::getcwd>, but the call failed for some reason. No attempt will be made to delete anything.

=item cannot stat initial working directory: [errmsg]

C<remove_tree> attempted to stat the initial directory (after having successfully obtained its name via C<getcwd>), however, the call failed for some reason. No attempt will be made to delete anything.

=item cannot chdir to [dir]: [errmsg]

C<remove_tree> attempted to set the working directory in order to begin deleting the objects therein, but was unsuccessful. This is usually a permissions issue. The routine will continue to delete other things, but this directory will be left intact.

=item directory [dir] changed before chdir, expected dev=[n] ino=[n], actual dev=[n] ino=[n], aborting. (FATAL)

C<remove_tree> recorded the device and inode of a directory, and then moved into it. It then performed a C<stat> on the current directory and detected that the device and inode were no longer the same. As this is at the heart of the race condition problem, the program will die at this point.

=item cannot make directory [dir] read+writeable: [errmsg]

C<remove_tree> attempted to change the permissions on the current directory to ensure that subsequent unlinkings would not run into problems, but was unable to do so. The permissions remain as they were, and the program will carry on, doing the best it can.

=item cannot read [dir]: [errmsg]

C<remove_tree> tried to read the contents of the directory in order to acquire the names of the directory entries to be unlinked, but was unsuccessful. This is usually a permissions issue. The program will continue, but the files in this directory will remain after the call.

=item cannot reset chmod [dir]: [errmsg]

C<remove_tree>, after having deleted everything in a directory, attempted to restore its permissions to the original state but failed. The directory may wind up being left behind.
=item cannot remove [dir] when cwd is [dir]

The current working directory of the program is F</some/path/to/here> and you are attempting to remove an ancestor, such as F</some/path>. The directory tree is left untouched.

The solution is to C<chdir> out of the child directory to a place outside the directory tree to be removed.

=item cannot chdir to [parent-dir] from [child-dir]: [errmsg], aborting. (FATAL)

C<remove_tree>, after having deleted everything and restored the permissions of a directory, was unable to chdir back to the parent. The program halts to avoid a race condition from occurring.

=item cannot stat prior working directory [dir]: [errmsg], aborting. (FATAL)

C<remove_tree> was unable to stat the parent directory after have returned from the child. Since there is no way of knowing if we returned to where we think we should be (by comparing device and inode) the only way out is to C<croak>.

=item previous directory [parent-dir] changed before entering [child-dir], expected dev=[n] ino=[n], actual dev=[n] ino=[n], aborting. (FATAL)

When C<remove_tree> returned from deleting files in a child directory, a check revealed that the parent directory it returned to wasn't the one it started out from. This is considered a sign of malicious activity.

=item cannot make directory [dir] writeable: [errmsg]

Just before removing a directory (after having successfully removed everything it contained), C<remove_tree> attempted to set the permissions on the directory to ensure it could be removed and failed. Program execution continues, but the directory may possibly not be deleted.

=item cannot remove directory [dir]: [errmsg]

C<remove_tree> attempted to remove a directory, but failed. This may because some objects that were unable to be removed remain in the directory, or a permissions issue. The directory will be left behind.

=item cannot restore permissions of [dir] to [0nnn]: [errmsg]

After having failed to remove a directory, C<remove_tree> was unable to restore its permissions from a permissive state back to a possibly more restrictive setting. (Permissions given in octal).
item cannot make file [file] writeable: [errmsg]

C<remove_tree> attempted to force the permissions of a file to ensure it could be deleted, but failed to do so. It will, however, still attempt to unlink the file.

item cannot unlink file [file]: [errmsg]

C<remove_tree> failed to remove a file. Probably a permissions issue.

item cannot restore permissions of [file] to [0nnn]: [errmsg]

After having failed to remove a file, C<remove_tree> was also unable to restore the permissions on the file to a possibly less permissive setting. (Permissions given in octal).

item unable to map [owner] to a uid, ownership not changed

C<make_path> was instructed to give the ownership of created directories to the symbolic name [owner], but C<getpwnam> did not return the corresponding numeric uid. The directory will be created, but ownership will not be changed.

item unable to map [group] to a gid, group ownership not changed

C<make_path> was instructed to give the group ownership of created directories to the symbolic name [group], but C<getgrnam> did not return the corresponding numeric gid. The directory will be created, but group ownership will not be changed.

=back

=head1 SEE ALSO

=over 4

=item *

L<File::Remove>

Allows files and directories to be moved to the Trashcan/Recycle Bin (where they may later be restored if necessary) if the operating system supports such functionality. This feature may one day be made available directly in C<File::Path>.

=item *
When removing directory trees, if you want to examine each file to
decide whether to delete it (and possibly leaving large swaths
alone), `File::Find::Rule` offers a convenient and flexible approach
to examining directory trees.

=head1 BUGS

Please report all bugs on the RT queue:

`http://rt.cpan.org/NoAuth/Bugs.html?Dist=File-Path`

You can also send pull requests to the Github repository:

`https://github.com/dland/File-Path`

=head1 ACKNOWLEDGEMENTS

Paul Szabo identified the race condition originally, and Brendan
O'Dea wrote an implementation for Debian that addressed the problem.
That code was used as a basis for the current code. Their efforts
are greatly appreciated.

Gisle Aas made a number of improvements to the documentation for
2.07 and his advice and assistance is also greatly appreciated.

=head1 AUTHORS

Tim Bunce and Charles Bailey. Currently maintained by David Landgren
<david@landgren.net>.

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=cut

Found in path(s):
* /opt/cola/permits/1103682065_1604395625.49/0/perl-File-Path-2.09-2.el7-1.src.rpm-cosi-expand-archive-
No license file was found, but licenses were detected in source scan.

License: GPL+ or Artistic

Found in path(s):
* /opt/cola/permits/1103682065_1604395625.49/0/perl-File-Path-2.09-2.el7-1.src.rpm-cosi-expand-archive-qGg7v0uU/perl-File-Path.spec
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This file is the README for File::Path version 2.09

INSTALLATION

perl Makefile.PL
make
make test
make install

TESTING

This module requires the following modules for thorough testing:

(These are core, you should be ok)
Cwd
File::Path
File::Spec::Functions
Test::More

(These are optional)
Test::Output
Test::Pod
Test::Pod::Coverage

For more advanced testing, it is possible to run the
eg/setup-extra-tests program as root. This will create a
directory 'EXTRA' that contains a mixture of files and
directories owned both by root and a specified user
(uid or login name).

sudo perl eg/setup-extra-tests -u david
make test

This is used to exercise parts of the code that ordinarily wouldn't be visited. That is, as root, some files and directories will be created that the user 'david', which will run the test suite, will not be able to remove.

It would be nice to do something tricksy like this for Win32, which has a much richer privilege scheme.

BUGS

Please report all bugs on the RT queue:

L<http://rt.cpan.org/NoAuth/Bugs.html?Dist=File-Path>

You can also send pull requests to the Github repository:

L<https://github.com/dland/File-Path>

AUTHORS

Tim Bunce and Charles Bailey.

Currently maintained by David Landgren <david@landgren.net>.

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* /opt/cola/permits/1103682065_1604395625.49/0/perl-File-Path-2.09-2.el7-1.src.rpm-cosi-expand-archive-qGg7v0uU/File-Path-2.09.tar.gz-cosi-expand-archive-0XmaVOoeE/File-Path-2.09/README

1.583 pacemaker 1.1.20

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1.588 perl 5.16.3-293.el7

1.588.1 Available under license :

use strict;
use lib 't/lib';
use MBTest;
use DistGen;
use strict;
use lib 't/lib';
use MBTest;  
use DistGen;

plan 'no_plan';

# Ensure any Module::Build modules are loaded from correct directory
blib_load('Module::Build');
# Create test distribution
#

{ my $dist = DistGen->new(
   name => 'Simple::Name',
   version => '0.01',
   license => 'perl'
);

$dist->regen;
$dist->chdir_in;

my $mb = $dist->new_from_context();
isa_ok( $mb, "Module::Build" );
is( $mb->license, 'perl',
   "license 'perl' is valid"
);

my $meta = $mb->get_metadata( fatal => 0 );

is( $meta->{license} => 'perl', "META license will be 'perl'" );
is( $meta->{resources}{license}, "http://dev.perl.org/licenses/",
   "META license URL is correct"
);

}

{
   my $dist = DistGen->new(
      name => 'Simple::Name',
      version => '0.01',
      license => 'VaporWare'
   );

   $dist->regen;
   $dist->chdir_in;

   my $mb = $dist->new_from_context();
   isa_ok( $mb, "Module::Build" );
is( $mb->license, 'VaporWare',
      "license 'VaporWare' is valid"
   );

   my $meta = $mb->get_metadata( fatal => 0 );
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<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

That's all there is to it!
---
abstract: 'Build and install Perl modules'
author:
  - 'Ken Williams <kwilliams@cpan.org>'
  - "Development questions, bug reports, and patches should be sent to the\nModule-Build mailing list at <module-
build@perl.org>,"
builtRequires:
  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
  license: http://dev.perl.org/licenses/
  repository: http://github.com/dagolden/module-build/
  version: 3
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Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.6 of 6 September 2010

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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) <year>  <name of author>

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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:

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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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1.591 zlib 2.27 34.base.el7
1.591.1 Available under license:

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1.592 rpm 4.11.3 35.el7

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Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

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these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

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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 Program.

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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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<one line to give the program's name and a brief idea of what it does.>
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This is free software, and you are welcome to redistribute it
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<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

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Version 2, June 1991

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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.

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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.

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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.

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.

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1.599 libdes 3.23

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1.608 sudo 1.8.23-3.el7

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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
Bostley, P.J.
Bowes, Keith
Boyce, Keith Garry
Brantley, Michael
Braun, Rob
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ek, Vitezslav
Coleman, Chris
Corzine, Deven T.
Cusack, Frank
Dai, Wei
Dill, David
Earickson, Jeff
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Edgington, Ben
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Espie, Marc
Faigon, Ariel
Farrell, Brian
Fobes, Steve
Fryninger, Mike
G., Daniel Richard
Gailly, Jean-loup
Gelman, Stephen
Gerraty, Simon J.
Graber, Stephane
Guillory, B.
Hayman, Randy M.
Henke, Joachim
Hideaki, Yoshifuji
Hieb, Dave
Holloway, Nick
Hoover, Adam
Hunter, Michael T.
Hutchings, Ben
Irgang, Eric
Jackson, Brian
Jackson, John R.
The following people have worked to translate sudo into other languages:

Blittermann, Mario
Bogus, Jakub
Buo-ren, Lin
Casagrande, Milo
Castro, Felipe
Cho, Seong-ho
Chernoivan, Yuri
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Fontenelle, Rafael
Garca-Fontes, Walter
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Hamasaki, Takeshi
Hamming, Peter
Hansen, Joe
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Kramer, Jakob
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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.

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However, unrestricted linking of non-free programs would deprive the
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# Jackson JSON processor

Jackson is a high-performance, Free/Open Source JSON processing library. It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has been in development since 2007. It is currently developed by a community of developers, as well as supported commercially by FasterXML.com.

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1.615 cryptsetup 2.0.3 3.el7

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1.617 spring-beans 4.3.25.RELEASE

1.618 gnutls 3.3.29-8.el7

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1.620 spdy-core 9.2.26.v20180806

1.621 xml-schema-core 2.2.1

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Here is a list of the main contributors to lm-sensors version 3.

* Frodo Looijaard  
  Original author of libsensors, sensors-detect, sensors and isadump.
* Merlin Hughes  
  Original author of sensord.
* Bob Schlaermann  
  Dynamic chip feature detection (a.k.a. generic chip support) in libsensors and sensors.
* Mark M. Hoffman  
  Many improvements to the libsensors configuration file scanner.
* 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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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, 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.

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END OF TERMS AND CONDITIONS

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.

<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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<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

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[This is the first released version of the Lesser GPL. It also counts as the successor of the GNU Library Public License, version 2, hence the version number 2.1.]

Preamble

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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.

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.

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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.

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.

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   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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<one line to give the library'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.

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!
BEGIN{
  FS="\";  
  print "/* ==> Do not modify this file!! " 
  "*- buffer-read-only: t -*. vi"
  ":set ro:";
  print " It is created automatically by copying.awk.";
  print " Modify copying.awk instead. <= */*;"
  print ""
  print "#include "defs.h"
  print "#include "command.h"
  print "#include "gdbcmd.h"
  print ""
  print "static void show_copying_command (char *, int);"
print " _("Various kinds of warranty you do not have."),";
print " &showlist);
print " ";
print " /* For old-timers, allow \"info copying\", etc. */ ";
print " add_info (\"copying\", show_copying_command, ");
print " _("Conditions for redistributing copies of GDB\")");
print " add_info (\"warranty\", show_warranty_command, ");
print " _("Various kinds of warranty you do not have."));
print " ");
}]
@node Library Copying
@appendixsec GNU LESSER GENERAL PUBLIC LICENSE

@cindex LGPL, Lesser General Public License
@center Version 2.1, February 1999

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[This is the first released version of the Lesser GPL. It also counts
as the successor of the GNU Library Public License, version 2, hence the
version number 2.1.]
@end display

@appendixsubsec 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 Lesser General Public License, applies to some
specially designated software---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 \texttt{Lesser} General Public License because it does \texttt{Less} to protect the user's freedom than the ordinary General Public License. It also provides other free software developers \texttt{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 \texttt{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 \texttt{``work based on the library''} and a \texttt{``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.

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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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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.

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@enumerate a
@item
The modified work must itself be a software library.

@item
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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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.)

@end enumerate

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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.

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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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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.)

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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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 enumerate

@if tex
@end iftex

@if info
@end ifinfo

@end page

@appendixsubsec How to Apply These Terms to Your New Libraries

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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.

@example
@var{one line to give the library's name and an idea of what it does.}
Copyright (C) @var{year}  @var{name of author}

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@end smallexample

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:

@example
Yoyodyne, Inc., hereby disclaims all copyright interest in the library `Frob' (a library for tweaking knobs) written by James Random Hacker.

@var{signature of Ty Coon}, 1 April 1990
Ty Coon, President of Vice
@end smallexample

That's all there is to it!

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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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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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<signature of Ty Coon>, 1 April 1990
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She /usr/bin/env python

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+++copyright.py

This script updates the list of years in the copyright notices in most files maintained by the GDB project.

Usage: cd src/gdb && python copyright.py

Always review the output of this script before committing it!
A useful command to review the output is:
  `% filterdiff -x *.c -x *.cc -x *.h -x *.exp updates.diff`
This removes the bulk of the changes which are most likely to be correct.

---
import datetime
import os
import os.path
import subprocess

def get_update_list():
    """Return the list of files to update.

    Assumes that the current working directory when called is the root
    of the GDB source tree (NOT the gdb/ subdirectory!).  The names of
    the files are relative to that root directory.
    """
    result = []
    for gdb_dir in ('gdb', 'sim', 'include/gdb'):
        for root, dirs, files in os.walk(gdb_dir, topdown=True):
            for dirname in dirs:
                reldirname = "%s/%s" % (root, dirname)
                if (dirname in EXCLUDE_ALL_LIST
                    or reldirname in EXCLUDE_LIST
                    or reldirname in NOT_FSF_LIST
                    or reldirname in BY_HAND):
                    # Prune this directory from our search list.
                    dirs.remove(dirname)
            for filename in files:
                relpath = "%s/%s" % (root, filename)
                if (filename in EXCLUDE_ALL_LIST
                    or relpath in EXCLUDE_LIST
                    or relpath in NOT_FSF_LIST
                    or relpath in BY_HAND):
                    # Ignore this file.
                    pass
                else:
                    result.append(relpath)
    return result

def update_files(update_list):
    """Update the copyright header of the files in the given list.

    We use gnulib's update-copyright script for that.
    """
    # We want to use year intervals in the copyright notices, and
    # all years should be collapsed to one single year interval,
    # even if there are "holes" in the list of years found in the
    # original copyright notice (OK'ed by the FSF, case [gnu.org #719834]).
    os.environ['UPDATE_COPYRIGHT_USE_INTERVALS'] = '2'
# Perform the update, and save the output in a string.
update_cmd = ['bash', 'gdb/gnulib/import/extra/update-copyright']
update_cmd += update_list

p = subprocess.Popen(update_cmd, stdout=subprocess.PIPE, stderr=subprocess.STDOUT)
update_out = p.communicate()[0]

# Process the output. Typically, a lot of files do not have
# a copyright notice :-(. The update-copyright script prints
# a well defined warning when it did not find the copyright notice.
# For each of those, do a sanity check and see if they may in fact
# have one. For the files that are found not to have one, we filter
# the line out from the output, since there is nothing more to do,
# short of looking at each file and seeing which notice is appropriate.
# Too much work! (~4,000 files listed as of 2012-01-03).
update_out = update_out.splitlines()
warning_string = ': warning: copyright statement not found'
warning_len = len(warning_string)
for line in update_out:
    if line.endswith('
'):
        line = line[:-1]
    if line.endswith(warning_string):
        filename = line[:-warning_len]
        if may_have_copyright_notice(filename):
            print line
        else:
            # Unrecognized file format. !?!
            print "*** " + line


def may_have_copyright_notice(filename):
    """Check that the given file does not seem to have a copyright notice.

    The filename is relative to the root directory.
    This function assumes that the current working directory is that root
directory.
    The algorithm is fairly crude, meaning that it might return
    some false positives. I do not think it will return any false
    negatives... We might improve this function to handle more
    complex cases later...
    ""
    # For now, it may have a copyright notice if we find the word
    # "Copyright" at the (reasonable) start of the given file, say
    # 50 lines...
MAX_LINES = 50

fd = open(filename)

lineno = 1
for line in fd:
    if 'Copyright' in line:
        return True
    lineno += 1
if lineno > 50:
    return False
return False

def main ():
    """The main subprogram.""
    if not os.path.isfile("gnulib/import/extra/update-copyright"): 
        print "Error: This script must be called from the gdb directory."
    root_dir = os.path.dirname(os.getcwd())
    os.chdir(root_dir)

    update_list = get_update_list()
    update_files (update_list)

    # Remind the user that some files need to be updated by HAND...
    if BY_HAND:
        print
        print "\033[31mREMINDER: The following files must be updated by hand." \ 
        "\033[0m"
        for filename in BY_HAND + MULTIPLE_COPYRIGHT_HEADERS:
            print "  ", filename

############################################################################
# Some constants, placed at the end because they take up a lot of room.
# The actual value of these constants is not significant to the understanding 
# of the script.
#
############################################################################

# Files which should not be modified, either because they are 
# generated, non-FSF, or otherwise special (e.g. license text, 
# or test cases which must be sensitive to line numbering). 
#
# Filenames are relative to the root directory.
EXCLUDE_LIST = ( 
    'gdb/CONTRIBUTE',
    'gdb/gnulib'
# Files which should not be modified, either because they are
gen:ated, non-FSF, or otherwise special (e.g. license text,
or test cases which must be sensitive to line numbering).
#
# Matches any file or directory name anywhere. Use with caution.
# This is mostly for files that can be found in multiple directories.
# Eg: We want all files named COPYING to be left untouched.

EXCLUDE_ALL_LIST = (  
    "COPYING", "COPYING.LIB", "CVS", "configure", "copying.c",  
    "fdl.texi", "gpl.texi", "a4local.m4",  
)

# The list of files to update by hand.
BY_HAND = (  
    # These files are sensitive to line numbering.
    "gdb/testsuite/gdb.base/step-line.inp",  
    "gdb/testsuite/gdb.base/step-line.c",  
)

# Files containing multiple copyright headers. This script is only
# fixing the first one it finds, so we need to finish the update
# by hand.
MULTIPLE_COPYRIGHT_HEADERS = (  
    "gdb/doc/gdb.texinfo",  
    "gdb/doc/refcard.tex",  
    "gdb/gdbarch.sh",  
)

# The list of file which have a copyright, but not head by the FSF.
# Filenames are relative to the root directory.
NOT_FSF_LIST = (  
    "gdb/exc_request.defs",  
    "gdb/gdbtk",  
    "gdb/testsuite/gdb.gdbtk/",  
    "sim/arm/armemu.h", "sim/arm/armos.c", "sim/arm/gdbhost.c",  
    "sim/arm/armos.h", "sim/arm/armcopro.c", "sim/arm/armemu.c",  
    "sim/arm/kid.c", "sim/arm/thumbemu.c", "sim/arm/armdefs.h",  
    "sim/arm/armopts.h", "sim/arm/dbg_cp.h", "sim/arm/dbg_rdi.h",  
    "sim/arm/parent.c", "sim/arm/armsupp.c", "sim/arm/armrdi.c",  
    "sim/arm/bag.c", "sim/arm/armvirt.c", "sim/arm/main.c", "sim/arm/bag.h",  
    "sim/arm/communicate.c", "sim/arm/gdbhost.h", "sim/arm/armfpe.h",  
    "sim/arm/arminit.c",  
    "sim/common/cgen-fpu.c", "sim/common/cgen-fpu.h",  
    "sim/common/cgen-accfp.c",  
)
"sim/erc32/sis.h", "sim/erc32/erc32.c", "sim/erc32/func.c",
"sim/erc32/float.c", "sim/erc32/interf.c", "sim/erc32/sis.c",
"sim/erc32/exec.c",
"sim/mips/m16run.c", "sim/mips/sim-main.c",
"sim/moxie/moxie-gdb.dts",
# Not a single file in sim/ppc/ appears to be copyright FSF :-(.
"sim/ppc/filter.h", "sim/ppc/gen-support.h", "sim/ppc/ld-insn.h",
"sim/ppc/hw_sem.c", "sim/ppc/hw_disk.c", "sim/ppc/decode_branch.h",
"sim/ppc/sim-endian.h", "sim/ppc/table.c", "sim/ppc/hw_core.c",
"sim/ppc/gen-support.c", "sim/ppc/gen-semantics.h", "sim/ppc/cpu.h",
"sim/ppc/sim_callbacks.h", "sim/ppc/RUN", "sim/ppc/Makefile.in",
"sim/ppc/emul_chirp.c", "sim/ppc/hw_nvram.c", "sim/ppc/dc-test.01",
"sim/ppc/hw_phb.c", "sim/ppc/hw_eeeprom.c", "sim/ppc/bits.h",
"sim/ppc/hw_vm.c", "sim/ppc/cap.h", "sim/ppc/os_emul.h",
"sim/ppc/options.h", "sim/ppc/gen-decode.c", "sim/ppc/filter.c",
"sim/ppc/corefile-n.h", "sim/ppc/std-config.h", "sim/ppc/ld-decode.h",
"sim/ppc/filter_filename.h", "sim/ppc/hw_shm.c",
"sim/ppc/pk_disklabel.c", "sim/ppc/dc-simple", "sim/ppc/misc.h",
"sim/ppc/device_table.h", "sim/ppc/ld-insn.c", "sim/ppc/inline.c",
"sim/ppc/emul_bugapi.h", "sim/ppc/hw_cpu.h", "sim/ppc/debug.h",
"sim/ppc/hw_idc.c", "sim/ppc/debug.c", "sim/ppc/gen-itable.h",
"sim/ppc/interrupts.c", "sim/ppc/hw_glue.c", "sim/ppc/emul_unix.c",
"sim/ppc/sim_calls.c", "sim/ppc/dc-complex", "sim/ppc/ld-cache.c",
"sim/ppc/registers.h", "sim/ppc/dc-test.02", "sim/ppc/options.c",
"sim/ppc/gen-h.c", "sim/ppc/registers.c", "sim/ppc/device.h",
"sim/ppc/emul_chirp.h", "sim/ppc/hw_register.c", "sim/ppc/hw_init.c",
"sim/ppc/sim-endian-n.h", "sim/ppc/filter_filename.c",
"sim/ppc/bits.c", "sim/ppc/decode_fields.h", "sim/ppc/hw_memory.c",
"sim/ppc/misc.c", "sim/ppc/double.c", "sim/ppc/p pcap.h",
"sim/ppc/hw_trace.c", "sim/ppc/emul_netbsd.h", "sim/ppc/psim.c",
"sim/ppc/pcc-instructions", "sim/ppc/tree.h", "sim/ppc/README",
"sim/ppc/gen-icache.h", "sim/ppc/gen-model.h", "sim/ppc/ld-cache.h",
"sim/ppc/mon.c", "sim/ppc/corefile.h", "sim/ppc/vm.c",
"sim/ppc/INSTALL", "sim/ppc/gen-model.c", "sim/ppc/hw_cpu.c",
"sim/ppc/corefile.c", "sim/ppc/hw_opic.c", "sim/ppc/gen-icache.c",
"sim/ppc/events.h", "sim/ppc/os_emul.c", "sim/ppc/emul_generic.c",
"sim/ppc/main.c", "sim/ppc/hw_comm.c", "sim/ppc/gen-semantics.c",
"sim/ppc/emul_bugapi.c", "sim/ppc/device.c", "sim/ppc/emul_generic.h",
"sim/ppc/tree.c", "sim/ppc/mon.h", "sim/ppc/interrupts.h",
"sim/ppc/cap.c", "sim/ppc/cpu.c", "sim/ppc/hw_phb.h",
"sim/ppc/device_table.c", "sim/ppc/ff.c", "sim/ppc/ff.c",
"sim/ppc/dc-stupid", "sim/ppc/hw_pal.c", "sim/ppc/ppc-srtable",
"sim/ppc/emul_unix.h", "sim/ppc/words.h", "sim/ppc/basics.h",
"sim/ppc/hw_hltable.c", "sim/ppc/lf.c", "sim/ppc/ld-decode.c",
"sim/ppc/sim-endian.c", "sim/ppc/gen-itable.c",
"sim/ppc/decode_expression.h", "sim/ppc/table.h", "sim/ppc/dgen.c",
"sim/ppc/events.c", "sim/ppc/gen-icache.h", "sim/ppc/emul_netbsd.c",
"sim/ppc/igen.c", "sim/ppc/vm_n.h", "sim/ppc/vm.h"
"sim/ppc/hw_iobus.c", "sim/ppc/inline.h",
"sim/testsuite/sim/bfin/s21.s", "sim/testsuite/sim/mips/mips32-dsp2.s",
)

if __name__ == "__main__":
    main()
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functions (ten lines or less in length), then the use of the object
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**1.632 libcap 2.22 9.el7**

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1.634 python-requests 2.6.0

1.634.1 Available under license:

Requests includes some vendorized python libraries to ease installation.

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1.635 less 458 9.el7

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jar/com/thoughtworks/xstream/converters/basic/BigDecimalConverter.java
* /opt/cola/permits/1099284121_1602432616.33/0/xstream-1-4-12-sources-2-
jar/com/thoughtworks/xstream/converters/basic/BigIntegerConverter.java

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jar/com/thoughtworks/xstream/io/xml/Dom4JXmlWriter.java

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* /opt/cola/permits/1099284121_1602432616.33/0/xstream-1-4-12-sources-2-jar/com/thoughtworks/xstream/annotations/XStreamContainedType.java
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* /opt/cola/permits/1099284121_1602432616.33/0/xstream-1-4-12-sources-2-
  jar/com/thoughtworks/xstream/mapper/XStream11XmlFriendlyMapper.java
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* /opt/cola/permits/1099284121_1602432616.33/0/xstream-1-4-12-sources-2-
  jar/com/thoughtworks/xstream/core/ReferenceByIdMarshallingStrategy.java
  
  * /opt/cola/permits/1099284121_1602432616.33/0/xstream-1-4-12-sources-2-
  jar/com/thoughtworks/xstream/core/TreeMarshallingStrategy.java
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  jar/com/thoughtworks/xstream/core/ReferenceByIdMarshallingStrategy.java
  
  * /opt/cola/permits/1099284121_1602432616.33/0/xstream-1-4-12-sources-2-
  jar/com/thoughtworks/xstream/core/TreeMarshallingStrategy.java
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jar/com/thoughtworks/xstream/security/InterfaceTypePermission.java
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jar/com/thoughtworks/xstream/core/ReferenceByXPathMarshaller.java
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* /opt/cola/permits/1099284121_1602432616.33/0/xstream-1-4-12-sources-2-jar/com/thoughtworks/xstream/converters/extended/ISO8601GregorianCalendarConverter.java
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* /opt/cola/permits/1099284121_1602432616.33/0/xstream-1-4-12-sources-2-jar/com/thoughtworks/xstream/converters/collections/SingletonCollectionConverter.java
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* /opt/cola/permits/1099284121_1602432616.33/0/xstream-1-4-12-sources-2-jar/com/thoughtworks/xstream/converters/SingletonValueConverter.java
* /opt/cola/permits/1099284121_1602432616.33/0/xstream-1-4-12-sources-2-jar/com/thoughtworks/xstream/converters/basic/AbstractSingletonValueConverter.java
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  jar/com/thoughtworks/xstream/converters/extended/SqlDateConverter.java
* /opt/cola/permits/1099284121_1602432616.33/0/xstream-1-4-12-sources-2-
  jar/com/thoughtworks/xstream/converters/extended/SqlTimeConverter.java
* /opt/cola/permits/1099284121_1602432616.33/0/xstream-1-4-12-sources-2-
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  * /opt/cola/permits/1099284121_1602432616.33/0/xstream-1-4-12-sources-2-
    jar/com/thoughtworks/xstream/converters/time/DurationConverter.java
  * /opt/cola/permits/1099284121_1602432616.33/0/xstream-1-4-12-sources-2-
    jar/com/thoughtworks/xstream/converters/time/MonthDayConverter.java

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  jar/com/thoughtworks/xstream/io/xml/XomReader.java
* /opt/cola/permits/1099284121_1602432616.33/0/xstream-1-4-12-sources-2-
  jar/com/thoughtworks/xstream/io/xml/DomWriter.java
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  jar/com/thoughtworks/xstream/mapper/SystemAttributeAliasingMapper.java
  /opt/cola/permits/1099284121_1602432616.33/0/xstream-1-4-12-sources-2-
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*/opt/cola/permits/1099284121_1602432616.33/0/xstream-1-4-12-sources-2-jar/com/thoughtworks/xstream/core/Caching.java
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*/

Found in path(s):
* /opt/cola/permits/1099284121_1602432616.33/0/xstream-1-4-12-sources-2.jar/com/thoughtworks/xstream/mapper/ElementIgnoringMapper.java
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* /opt/cola/permits/1099284121_1602432616.33/0/xstream-1-4-12-sources-2.jar/com/thoughtworks/xstream/mapper/DefaultImplementationsMapper.java
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* Created on 10. May 2004 by Joe Walnes

Found in path(s):
* /opt/cola/permits/1099284121_1602432616.33/0/xstream-1-4-12-sources-2.jar/com/thoughtworks/xstream/converters/extended/package.html
* /opt/cola/permits/1099284121_1602432616.33/0/xstream-1-4-12-sources-2.jar/com/thoughtworks/xstream/converters/collections/package.html
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Created on 08.12.2007 by Joerg Schaible

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Found in path(s):
/ opt/ cola/ permits/ 1099284121_ 1602432616. 33/ 0/ xstream- 1- 4- 12- sources- 2- jar/ com/ thoughtworks/ xstream/ converters/ extended/LookAndFeelConverter.java
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Found in path(s):
/ opt/ cola/ permits/ 1099284121_ 1602432616. 33/ 0/ xstream- 1- 4- 12- sources- 2- jar/ com/ thoughtworks/ xstream/ converters/ reflection/ SortableFieldKeySorter.java
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Created on 03. September 2004 by Joe Walnes

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Found in path(s):
/ opt/ cola/ permits/ 1099284121_ 1602432616. 33/ 0/ xstream- 1- 4- 12- sources- 2- jar/ com/ thoughtworks/ xstream/ io/ xml/ XomWriter.java
/ opt/ cola/ permits/ 1099284121_ 1602432616. 33/ 0/ xstream- 1- 4- 12- sources- 2- jar/ com/ thoughtworks/ xstream/ io/ xml/ JDomWriter.java
/ opt/ cola/ permits/ 1099284121_ 1602432616. 33/ 0/ xstream- 1- 4- 12- sources- 2- jar/ com/ thoughtworks/ xstream/ io/ xml/ JDomReader.java
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* /opt/cola/permits/1099284121_1602432616.33/0/xstream-1-4-12-sources-2-
jar/com/thoughtworks/xstream/converters/extended/ThrowableConverter.java
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* /opt/cola/permits/1099284121_1602432616.33/0/xstream-1-4-12-sources-2-
jar/com/thoughtworks/xstream/converters/extended/ToStringConverter.java
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jar/com/thoughtworks/xstream/core/util/DependencyInjectionFactory.java
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* /opt/cola/permits/1099284121_1602432616.33/0/xstream-1-4-12-sources-2-
jar/com/thoughtworks/xstream/converters/javabean/JavaBeanProvider.java
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Found in path(s):
* /opt/cola/permits/1099284121_1602432616.33/0/xstream-1-4-12-sources-2-
jar/com/thoughtworks/xstream/io/xml/JDom2Driver.java
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Found in path(s):
* /opt/cola/permits/1099284121_1602432616.33/0/xstream-1-4-12-sources-2-
jar/com/thoughtworks/xstream/converters/time/AbstractChronoLocalDateConverter.java
* /opt/cola/permits/1099284121_1602432616.33/0/xstream-1-4-12-sources-2-
jar/com/thoughtworks/xstream/converters/time/WeekFieldsConverter.java
* /opt/cola/permits/1099284121_1602432616.33/0/xstream-1-4-12-sources-2-
jar/com/thoughtworks/xstream/converters/time/ValueRangeConverter.java
* /opt/cola/permits/1099284121_1602432616.33/0/xstream-1-4-12-sources-2-
jar/com/thoughtworks/xstream/converters/time/ThaiBuddhistDateConverter.java
* /opt/cola/permits/1099284121_1602432616.33/0/xstream-1-4-12-sources-2-
jar/com/thoughtworks/xstream/converters/time/JapaneseDateConverter.java
* /opt/cola/permits/1099284121_1602432616.33/0/xstream-1-4-12-sources-2-
jar/com/thoughtworks/xstream/converters/time/MinguoDateConverter.java
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* /opt/cola/permits/1099284121_1602432616.33/0/xstream-1-4-12-sources-2-
jar/com/thoughtworks/xstream/converters/basic/NullConverter.java
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* /opt/cola/permits/1099284121_1602432616.33/0/xstream-1-4-12-sources-2-
jar/com/thoughtworks/xstream/core/util/Fields.java
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* /opt/cola/permits/1099284121_1602432616.33/0/xstream-1-4-12-sources-2-
jar/com/thoughtworks/xstream/converters/enum/EnumMapConverter.java  
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* /opt/cola/permits/1099284121_1602432616.33/0/xstream-1-4-12-sources-2-
jar/com/thoughtworks/xstream/converters/time/package.html  
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* /opt/cola/permits/1099284121_1602432616.33/0/xstream-1-4-12-sources-2-
jar/com/thoughtworks/xstream/converters/reflection/SerializableConverter.java  
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* /opt/cola/permits/1099284121_1602432616.33/0/xstream-1-4-12-sources-2-
  jar/com/thoughtworks/xstream/core/util/ISO8601JodaTimeConverter.java
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Found in path(s):
* /opt/cola/permits/1099284121_1602432616.33/0/xstream-1-4-12-sources-2-
  jar/com/thoughtworks/xstream/core/TreeUnmarshaller.java
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* /opt/cola/permits/1099284121_1602432616.33/0/xstream-1-4-12-sources-2-
  jar/com/thoughtworks/xstream/converters/extended/JavaClassConverter.java

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* /opt/cola/permits/1099284121_1602432616.33/0/xstream-1-4-12-sources-2-
  jar/com/thoughtworks/xstream/io/xml/xppdom/Xpp3DomBuilder.java
* /opt/cola/permits/1099284121_1602432616.33/0/xstream-1-4-12-sources-2-
  jar/com/thoughtworks/xstream/io/xml/Dom4JWriter.java
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 * com.thoughtworks.xstream.converters.reflection.
 */

Found in path(s):
* /opt/cola/permits/1099284121_1602432616.33/0/xstream-1-4-12-sources-2-
  jar/com/thoughtworks/xstream/core/util/SelfStreamingInstanceChecker.java
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Manifest-Version: 1.0
Archiver-Version: Plexus Archiver
Created-By: Apache Maven
Built-By: joehni
Build-Jdk: 1.8.0_222
Specification-Title: XStream Core
Specification-Vendor: XStream
Implementation-Title: XStream Core
*/

Found in path(s):
* /opt/cola/permits/1099284121_1602432616.33/0/xstream-1-4-12-sources-2-jar/com/thoughtworks/xstream/converters/extended/EncodedByteArrayConverter.java
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* /opt/cola/permits/1099284121_1602432616.33/0/xstream-1-4-12-sources-2-jar/com/thoughtworks/xstream/io/xml/KXml2Driver.java
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  jar/com/thoughtworks/xstream/io/AbstractReader.java
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  jar/com/thoughtworks/xstream/mapper/ImmutableTypesMapper.java
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  jar/com/thoughtworks/xstream/io/xml/XppDomWriter.java
* /opt/cola/permits/1099284121_1602432616.33/0/xstream-1-4-12-sources-2-
  jar/com/thoughtworks/xstream/io/path/PathTracker.java
* /opt/cola/permits/1099284121_1602432616.33/0/xstream-1-4-12-sources-2-
  jar/com/thoughtworks/xstream/io/xml/DomReader.java
* /opt/cola/permits/1099284121_1602432616.33/0/xstream-1-4-12-sources-2-
  jar/com/thoughtworks/xstream/io/xml/XppDomReader.java
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jar/com/thoughtworks/xstream/io/xml/JDom2Writer.java
* /opt/cola/permits/1099284121_1602432616.33/0/xstream-1-4-12-sources-2-
jar/com/thoughtworks/xstream/io/xml/JDom2Reader.java
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jar/com/thoughtworks/xstream/converters/reflection/SelfStreamingInstanceChecker.java
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jar/com/thoughtworks/xstream/core/util/CompositeClassLoader.java
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* c.t.x.converters.reflection.SerializationMemberInvoker.
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* /opt/cola/permits/1099284121_1602432616.33/0/xstream-1-4-12-sources-2-jar/com/thoughtworks/xstream/security/ForbiddenClassException.java
* /opt/cola/permits/1099284121_1602432616.33/0/xstream-1-4-12-sources-2-jar/com/thoughtworks/xstream/security/AnyTypePermission.java
* /opt/cola/permits/1099284121_1602432616.33/0/xstream-1-4-12-sources-2-jar/com/thoughtworks/xstream/security/NoTypePermission.java
* /opt/cola/permits/1099284121_1602432616.33/0/xstream-1-4-12-sources-2-jar/com/thoughtworks/xstream/security/TypePermission.java

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* /opt/cola/permits/1099284121_1602432616.33/0/xstream-1-4-12-sources-2-jar/com/thoughtworks/xstream/mapper/CGLIBMapper.java
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Found in path(s):
* /opt/cola/permits/1099284121_1602432616.33/0/xstream-1-4-12-sources-2-jar/com/thoughtworks/xstream/io/xml/StaxDriver.java
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Found in path(s):
* /opt/cola/permits/1099284121_1602432616.33/0/xstream-1-4-12-sources-2-jar/com/thoughtworks/xstream/core/util/PresortedMap.java
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Found in path(s):
* /opt/cola/permits/1099284121_1602432616.33/0/xstream-1-4-12-sources-2-jar/com/thoughtworks/xstream/io/xml/AbstractDocumentWriter.java
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* /opt/cola/permits/1099284121_1602432616.33/0/xstream-1-4-12-sources-2-
jar/com/thoughtworks/xstream/io/xml/xppdom/Xpp3Dom.java
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* /opt/cola/permits/1099284121_1602432616.33/0/xstream-1-4-12-sources-2-
  jar/com/thoughtworks/xstream/io/json/JettisonStaxWriter.java
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* /opt/cola/permits/1099284121_1602432616.33/0/xstream-1-4-12-sources-2-
  jar/com/thoughtworks/xstream/converters/extended/LocaleConverter.java
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* /opt/cola/permits/1099284121_1602432616.33/0/xstream-1-4-12-sources-2-jar/com/thoughtworks/xstream/converters/reflection/ReflectionConverter.java
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* /opt/cola/permits/1099284121_1602432616.33/0/xstream-1-4-12-sources-2-jar/com/thoughtworks/xstream/converters/enums/EnumToStringConverter.java
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* /opt/cola/permits/1099284121_1602432616.33/0/xstream-1-4-12-sources-2-jar/com/thoughtworks/xstream/converters/extended/StackTraceElementFactory15.java
* /opt/cola/permits/1099284121_1602432616.33/0/xstream-1-4-12-sources-2-jar/com/thoughtworks/xstream/converters/extended/NamedArrayConverter.java
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Found in path(s):
* /opt/cola/permits/1099284121_1602432616.33/0/xstream-1-4-12-sources-2-jar/com/thoughtworks/xstream/io/xml/XmlFriendlyReader.java
* /opt/cola/permits/1099284121_1602432616.33/0/xstream-1-4-12-sources-2-jar/com/thoughtworks/xstream/io/xml/XmlFriendlyWriter.java
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Found in path(s):
*/opt/cola/permits/1099284121_1602432616.33/0/xstream-1-4-12-sources-2-
jar/com/thoughtworks/xstream/io/ExtendedHierarchicalStreamWriter.java
*/opt/cola/permits/1099284121_1602432616.33/0/xstream-1-4-12-sources-2-
jar/com/thoughtworks/xstream/io/ExtendedHierarchicalStreamWriterHelper.java
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Found in path(s):
*/opt/cola/permits/1099284121_1602432616.33/0/xstream-1-4-12-sources-2-
jar/com/thoughtworks/xstream/security/NullPermission.java
*/opt/cola/permits/1099284121_1602432616.33/0/xstream-1-4-12-sources-2-
jar/com/thoughtworks/xstream/security/ExplicitTypePermission.java
*/opt/cola/permits/1099284121_1602432616.33/0/xstream-1-4-12-sources-2-
jar/com/thoughtworks/xstream/security/NoPermission.java
*/opt/cola/permits/1099284121_1602432616.33/0/xstream-1-4-12-sources-2-
jar/com/thoughtworks/xstream/security/ArrayTypePermission.java
*/opt/cola/permits/1099284121_1602432616.33/0/xstream-1-4-12-sources-2-
jar/com/thoughtworks/xstream/security/RegExpTypePermission.java
*/opt/cola/permits/1099284121_1602432616.33/0/xstream-1-4-12-sources-2-
jar/com/thoughtworks/xstream/security/WildcardTypePermission.java
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*/opt/cola/permits/1099284121_1602432616.33/0/xstream-1-4-12-sources-2-
jar/com/thoughtworks/xstream/io/json/JsonHierarchicalStreamDriver.java
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Found in path(s):
*/opt/cola/permits/1099284121_1602432616.33/0/xstream-1-4-12-sources-2-
jar/com/thoughtworks/xstream/converters/basic/URIConverter.java
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Found in path(s):
*/opt/cola/permits/1099284121_1602432616.33/0/xstream-1-4-12-sources-2-
jar/com/thoughtworks/xstream/converters/extended/ActivationDataFlavorConverter.java
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Found in path(s):
* /opt/cola/permits/1099284121_1602432616.33/0/xstream-1-4-12-sources-2-jar/com/thoughtworks/xstream/converters/reflection/FieldUtil14.java
* /opt/cola/permits/1099284121_1602432616.33/0/xstream-1-4-12-sources-2-jar/com/thoughtworks/xstream/converters/reflection/FieldUtil15.java
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* /opt/cola/permits/1099284121_1602432616.33/0/xstream-1-4-12-sources-2-jar/com/thoughtworks/xstream/converters/extended/JavaFieldConverter.java
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* /opt/cola/permits/1099284121_1602432616.33/0/xstream-1-4-12-sources-2-
jar/com/thoughtworks/xstream/io/xml/KXml2DomDriver.java
* /opt/cola/permits/1099284121_1602432616.33/0/xstream-1-4-12-sources-2-
jar/com/thoughtworks/xstream/io/xml/Xpp3DomDriver.java
* /opt/cola/permits/1099284121_1602432616.33/0/xstream-1-4-12-sources-2-
jar/com/thoughtworks/xstream/io/xml/AbstractXppDomDriver.java
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jar/com/thoughtworks/xstream/converters/collections/MapConverter.java
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* /opt/cola/permits/1099284121_1602432616.33/0/xstream-1-4-12-sources-2-jar/com/thoughtworks/xstream/converters/time/YearConverter.java
* /opt/cola/permits/1099284121_1602432616.33/0/xstream-1-4-12-sources-2-jar/com/thoughtworks/xstream/converters/time/OffsetTimeConverter.java
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Found in path(s):
* /opt/cola/permits/1099284121_1602432616.33/0/xstream-1-4-12-sources-2-jar/com/thoughtworks/xstream(converters/extended/ISO8601DateConverter.java
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Found in path(s):
* /opt/cola/permits/1099284121_1602432616.33/0/xstream-1-4-12-sources-2-jar/com/thoughtworks/xstream/io/binary/ReaderDepthState.java
* /opt/cola/permits/1099284121_1602432616.33/0/xstream-1-4-12-sources-2-jar/com/thoughtworks/xstream/io/binary/BinaryStreamWriter.java
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* /opt/cola/permits/1099284121_1602432616.33/0/xstream-1-4-12-sources-2-jar/com/thoughtworks/xstream/security/PrimitiveTypePermission.java
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* /opt/cola/permits/1099284121_1602432616.33/0/xstream-1-4-12-sources-2-
  jar/com/thoughtworks/xstream/converters/extended/PropertyEditorCapableConverter.java

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* /opt/cola/permits/1099284121_1602432616.33/0/xstream-1-4-12-sources-2-
  jar/com/thoughtworks/xstream/io/path/package.html

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* /opt/cola/permits/1099284121_1602432616.33/0/xstream-1-4-12-sources-2-
  jar/com/thoughtworks/xstream/io/xml/xppdom/XppDom.java
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Found in path(s):
* /opt/cola/permits/1099284121_1602432616.33/0/xstream-1-4-12-sources-2-
jar/com/thoughtworks/xstream/converters/extended/NamedMapConverter.java

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Found in path(s):
* /opt/cola/permits/1099284121_1602432616.33/0/xstream-1-4-12-sources-2-
jar/com/thoughtworks/xstream/io/xml/AbstractXmlWriter.java

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 * Created on 14. August 2004 by Joe Walnes
 */

/*
 * A SAX { @link org.xml.sax.XMLReader parser} that acts as an XStream
 */
* [@link com.thoughtworks.xstream.io.HierarchicalStreamWriter] to enable direct generation of a
* SAX event flow from the XStream serialization of a list of list of Java objects.
* <p>
* As a custom SAX parser, this class ignores the arguments of the two standard parse methods ([@link
* #parse(java.lang.String})
* and [@link #parse(org.xml.sax.InputSource)) but relies on a proprietary SAX property
* [@link #SOURCE_OBJECT_LIST_PROPERTY] to define the list of objects to serialize.
* </p>
* <p>
* Configuration of this SAX parser is achieved through the standard
* [@link #setProperty SAX property mechanism]. While specific setter methods require direct
* access to the parser instance, SAX properties support configuration settings to be propagated
* through a chain of [@link org.xml.sax.XMLFilter filters] down to the underlying parser
* object.
* </p>
* <p>
* This mechanism shall be used to configure the
* [@link #SOURCE_OBJECT_LIST_PROPERTY objects to be serialized] as well as the
* [@link #CONFIGURED_XSTREAM_PROPERTY XStream facade].
* </p>
* @author Laurent Bihanic
*/
/**
 * Sets the value of a property.
 * <p>
 * The property name is any fully-qualified URI. It is possible for an XMLReader to recognize a property name but
 * to be unable to set its value.</p>
 * </p>
 * XMLReaders are not required to recognize setting any specific property names, though a core set is provided with
 * SAX2.</p>
* <p>
* Some property values may be immutable or mutable only in specific contexts, such as before, during, or after
* a parse.</p>
* <p>
* This method is also the standard mechanism for setting extended handlers.</p>
* <p>
* <strong>Note</strong>: This implementation only supports two (proprietary) properties: [@link #CONFIGURED_XSTREAM_PROPERTY]
* and [@link #SOURCE_OBJECT_LIST_PROPERTY].</p>
* 
* @param name the property name, which is a fully-qualified URI.
* @param value the requested value for the property.
* @throws SAXNotRecognizedException when the XMLReader does not recognize the property name.
* @throws SAXNotSupportedException when the XMLReader recognizes the property name but cannot set the requested value.
* @see #getProperty
*/
/**
 * Parses an XML document from a system identifier (URI).
 * <p>
 * This method is a shortcut for the common case of reading a document from a system identifier. It is the exact equivalent of the following:
 * </p>
 * <pre>
 * parse(new InputSource(systemId));
 * </pre>
 * </blockquote>
 * <p>
 * If the system identifier is a URL, it must be fully resolved by the application before it is passed to the parser.</p>
 * <p>
 * <strong>Note</strong>: As a custom SAX parser, this class ignores the <code>systemId</code> argument of this method and relies on the proprietary SAX property
 * { @link #SOURCE_OBJECT_LIST_PROPERTY}) to define the list of objects to serialize.</p>
 * *
 * @param systemId the system identifier (URI).
 * @throws SAXException Any SAX exception, possibly wrapping another exception.
 * @see #parse(org.xml.sax.InputSource)
 */

Found in path(s):
* /opt/cola/permits/1099284121_1602432616.33/0/xstream-1-4-12-sources-2.jar/com/thoughtworks/xstream/io/xml/SaxWriter.java
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 * Created on 12.10.2010 by Joerg Schaible, extracted from TreeSetConverter.
 */

Found in path(s):
* /opt/cola/permits/1099284121_1602432616.33/0/xstream-1-4-12-sources-2-
jar/com/thoughtworks/xstream/core/util/PresortedSet.java
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 * Created on 25. March 2004 by Joe Walnes
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Found in path(s):
* /opt/cola/permits/1099284121_1602432616.33/0/xstream-1-4-12-sources-2-
jar/com/thoughtworks/xstream/converters/extended/DynamicProxyConverter.java
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* /opt/cola/permits/1099284121_1602432616.33/0/xstream-1-4-12-sources-2-
jar/com/thoughtworks/xstream/converters/extended/JavaMethodConverter.java
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Found in path(s):
* /opt/cola/permits/1099284121_1602432616.33/0/xstream-1-4-12-sources-2.jar/com/thoughtworks/xstream/core/util/ArrayIterator.java

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* /opt/cola/permits/1099284121_1602432616.33/0/xstream-1-4-12-sources-2-
  jar/com/thoughtworks/xstream/mapper/ImplicitCollectionMapper.java

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  jar/com/thoughtworks/xstream/io/xml/JDomDriver.java

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  jar/com/thoughtworks/xstream/converters/extended/FontConverter.java

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jar/com/thoughtworks/xstream/core/TreeMarshaller.java

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jar/com/thoughtworks/xstream/io/binary/Token.java

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jar/com/thoughtworks/xstream/MarshallingStrategy.java

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jar/com/thoughtworks/xstream/converters/time/ChronologyConverter.java
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jar/com/thoughtworks/xstream/core/util/OrderRetainingMap.java
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jar/com/thoughtworks/xstream/converters/enums/EnumConverter.java
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jar/com/thoughtworks/xstream/mapper/OuterClassMapper.java
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  jar/com/thoughtworks/xstream/converters/basic/UUIDConverter.java
* /opt/cola/permits/1099284121_1602432616.33/0/xstream-1-4-12-sources-2-
  jar/com/thoughtworks/xstream/converters/basic/StringBuilderConverter.java
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  jar/com/thoughtworks/xstream/converters/javabean/PropertySorter.java
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1.640.1 Available under license :
 # Contributions to the urllib3 project

 ## Creator & Maintainer

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* victor.vde <http://code.google.com/u/victor.vde/>
  * HTTPS patch (which inspired HTTPSConnectionPool)

* erikcederstrand <http://code.google.com/u/erikcederstrand/>
  * NTLM-authenticated HTTPSConnectionPool
  * Basic-authenticated HTTPSConnectionPool (merged into make_headers)

* niphlod <niphlod@gmail.com>
  * Client-verified SSL certificates for HTTPSConnectionPool
  * Response gzip and deflate encoding support
  * Better unicode support for filepost using StringIO buffers

* btoconnor <brian@btoconnor.net>
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  * 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>
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* Stephen Holsapple <sholsapp@gmail.com>
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* 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
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* 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>
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* Aaron Meurer <asmeurer@gmail.com>
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* 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

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  * [Brief summary of your changes]

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1.646 openssh 7.4p1 16.el7
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diff -up openssh-7.4p1/sftp-server.8.sftp-force-mode openssh-7.4p1/sftp-server.8
--- openssh-7.4p1/sftp-server.8.sftp-force-mode2016-12-19 05:59:41.000000000 +0100
+++ openssh-7.4p1/sftp-server.82017-02-09 10:35:41.926475399 +0100
@@ -38,6 +38,7 @@
 .Op Fl P Ar blacklisted_requests
 .Op Fl p Ar whitelisted_requests
 .Op Fl u Ar umask
+ .Op Fl m Ar force_file_perms
 .Ek
 .Nm
 .Fl Q Ar protocol_feature
 @@ -138,6 +139,10 @@ Sets an explicit umask 2
to be applied to newly-created files and directories, instead of the user's default mask.
+.It Fl m Ar force_file_perms
+Sets explicit file permissions to be applied to newly-created files instead
+of the default or client requested mode. Numeric values include:
+777, 755, 750, 666, 644, 640, etc. Option -u is ineffective if -m is set.
 .El
 .Pp
On some systems,
diff -up openssh-7.4p1/sftp-server.c.sftp-force-mode openssh-7.4p1/sftp-server.c
--- openssh-7.4p1/sftp-server.c.sftp-force-mode2017-02-09 10:22:36.498019921 +0100
+++ openssh-7.4p1/sftp-server.c2017-02-09 10:35:07.190520959 +0100
@@ -65,6 +65,10 @@ struct sshbuf *oqueue;
 /* Version of client */
static u_int version;

+/* Force file permissions */
+int permforce = 0;
+long permforcemode;
+
+/* SSH2_FXP_INIT received */
static int init_done;

@@ -679,6 +683,7 @@ process_open(u_int32_t id)
    Attrib a;
    char *name;
    int r, handle, fd, flags, mode, status = SSH2_FX_FAILURE;
+    mode_t old_umask = 0;

    if ((r = sshbuf_get_cstring(iqueue, &name, NULL)) != 0 ||
        (r = sshbuf_get_u32(iqueue, &pflags)) != 0 || /* portable flags */
    @ @ -688.6 +693.10 @@ process_open(u_int32_t id)
    debug3("request %u: open flags %d", id, pflags);
    flags = flags_from_portable(pflags);
    mode = (a.flags & SSH2_FILEXFER_ATTR_PERMISSIONS) ? a.perm : 0666;
+    if (permforce == 1) {   /* Force perm if -m is set */
+        mode = permforcemode;
+        old_umask = umask(0); /* so umask does not interfere */
+    }
    logit("open "%s" flags %s mode 0%o",
        name, string_from_portable(pflags), mode);
    if (readonly &&
    @ @ -709.6 +718.8 @@ process_open(u_int32_t id)
    }
    }
    }
+    if (permforce == 1)
+    +(void) umask(old_umask); /* restore umask to something sane */
    if (status != SSH2_FX_OK)
        send_status(id, status);
    free(name);
    @ @ -1490.7 +1501.7 @@ sftp_server_usage(void)
    fprintf(stderr,
            "usage: %s [-ehR] [-d start_directory] [-f log_facility] "
            "[-l log_level]\n[\n[-P blacklisted_requests] "
            "[-P whitelisted_requests] [-u umask]\n[\n" + "[-p whitelisted_requests] [-u umask] [-m force_file_perms]\n" + "%s -Q protocol_feature\n",
            __progname, __progname);
    exit(1);
    @ @ -1516.7 +1527.7 @@ sftp_server_main(int argc, char **argv,
    pw = pwcopy(argc, argv);
while (!skipargs && (ch = getopt(argc, argv, -
    switch (ch) {
    case 'Q':
    if (strcasecmp(optarg, "requests") != 0) {
        fatal("Invalid umask \"%s\", optarg);
    }
    break;
    case 'm':
    /* Force permissions on file received via sftp */
    permforce = 1;
    permforcemode = strtol(optarg, &cp, 8);
    if (permforcemode < 0 || permforcemode > 0777 ||
    *cp != '\0' || (permforcemode == 0 &&
    errno != 0))
    fatal("Invalid file mode \"%s\", optarg);
    break;
    case 'h':
    default:
    sftp_server_usage();
    This package was debianized by Jamie Beverly <soupboy@sourceforge.net> on
    Wed, 13 Jan 2010 01:08:49 +0300.

    It was downloaded from http://pamsshagentauth.sf.net/

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 */

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#if !defined(HAVE_POLL) && !defined(HAVE_POLL_H)
#endif

#ifndef 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 POLLOUT 0x0004
#define POLLERR 0x0008
#if 0
/* the following are currently not implemented */
#define POLLPRI 0x0002
#define POLLHUP 0x0010
#define POLLNVAL 0x0020
#define POLLRD NORM 0x0040
#define POLLNORM POLLRD NORM
#define POLLWRNORM POLLOUT
#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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 */
#ifndef HAVE_SETRESGID
insetresgid(gid_t, gid_t, gid_t);
#endif
#endif
HAVE_SETRESUID
insetresuid(uid_t, uid_t, uid_t);
#endif
*/
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 */

/* OPENBSD ORIGINAL: sys/sys/poll.h */

#ifndef _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 POLLOUT 0x0004
#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 POLLRDNORM
#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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* @author Antoon Bosselaers <antoon.bosselaers@esat.kuleuven.ac.be>
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[The licence continues]  

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   *
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   *
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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 */
int waitpid(int, int *, int);

#endif /* !HAVE_WAITPID */
#endif /* _BSD_WAITPID_H */

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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) (int)(WIFEXITED(w) ? ((_W_INT(w) >> 8) & 0377) : -1)
#define WTERMSIG(w) (int)(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 */

1.647 kerberos 1.15.1-34.el7

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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')
        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
    # Check 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'\s*(\*)?\*?\*/\s*', '', 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

ln += 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)
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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

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The implementations of GSSAPI mechglue in GSSAPI-SPNEGO in:

- `lib/gssapi/gssapi_err_generic.c`
- `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`

Source code: `src/lib/gssapi`
class="o"/>
</span><span class="n">mechglue</span><span class="o"/>
</span><span class="n">g_rel_buffer</span><span class="o"/>
</span><span class="n">gssapi</span><span class="o"/>

<span class="n">g_rel_cred</span><span class="o"/>
</span><span class="n">gssapi</span><span class="o"/>

<span class="n">g_rel_name</span><span class="o"/>
</span><span class="n">gssapi</span><span class="o"/>

<span class="n">g_rel_oid_set</span><span class="o"/>
</span><span class="n">gssapi</span><span class="o"/>

<span class="n">g_seal</span><span class="o"/>
</span><span class="n">gssapi</span><span class="o"/>

<span class="n">g_sign</span><span class="o"/>
</span><span class="n">gssapi</span><span class="o"/>

<span class="n">g_store_cred</span><span class="o"/>
</span><span class="n">gssapi</span><span class="o"/>

<span class="n">g_unseal</span><span class="o"/>
</span><span class="n">gssapi</span><span class="o"/>

<span class="n">g_userok</span><span class="o"/>
</span><span class="n">gssapi</span><span class="o"/>

<span class="n">g_utils</span><span class="o"/>
</span><span class="n">gssapi</span><span class="o"/>

<span class="n">g_verify</span><span class="o"/>
</span><span class="n">gssapi</span><span class="o"/>

<span class="n">gssd_pname_to_uid</span><span class="o"/>
</span><span class="n">gssapi</span><span class="o"/>

<span class="n">mglueP</span><span class="o"/>
</span><span class="n">gssapi</span><span class="o"/>

<span class="n">oid_ops</span><span class="o"/>
</span><span class="n">gssapi</span><span class="o"/>

<span class="n">spnego</span><span class="o"/>
</span><span class="n">gssapiP_spnego</span><span class="o"/>

<span class="n">spnego_mech</span><span class="o"/>
</span><span class="n">gssapiP_spnego</span><span class="o"/>

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kadmin/server/ipropd_svc.c
lib/kdb/iprop.kdb_convert.c
lib/kdb/iprop.kdb_log.c
lib/krb5/error_tables/kdb5_err.et
kprop/kpropd_rpc.kproplog.c
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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
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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.. parsed-literal::

   lib/gssapi/generic/gssapi_err_generic.et
   lib/gssapi/mechglue/g_accept_sec_context.c
   lib/gssapi/mechglue/g_acquire_credential.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_credential.c
   lib/gssapi/mechglue/g_inquire_names.c
   lib/gssapi/mechglue/g_process_context.c
   lib/gssapi/mechglue/g_release_buffer.c
   lib/gssapi/mechglue/g_release_credential.c
   lib/gssapi/mechglue/g_release_name.c
   lib/gssapi/mechglue/g_release_oid_set.c
   lib/gssapi/mechglue/g_seal.c
   lib/gssapi/mechglue/g_sign.c
   lib/gssapi/mechglue/g_store_credential.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
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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internal static class _XceedVersionInfo
{
public const string BaseVersion = "2.0";
public const string Version = BaseVersion + ".0.0";
public const string PublicKeyToken = "ba83ff368b7563c6";
}

1.654 jts 1.13
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1.655 shadow-utils 4.1.5.1

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1.656 jetty 9.2.26.v20180806

1.657 yum-metadata-parser 1.1.4

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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.

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
3a0982da308228d796df35f98d787c5cff2bb5bb6.

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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The actual DOM Java Language Binding classes in xml-commons came from:

http://www.w3.org/TR/2004/REC-DOM-Level-3-Core-20040407/java-binding.html

The specification of DOM Level 3’s various parts is at:

http://www.w3.org/TR/2004/REC-DOM-Level-3-Core-20040407/
http://www.w3.org/TR/2004/REC-DOM-Level-3-LS-20040407/
http://www.w3.org/TR/2004/NOTE-DOM-Level-3-XPath-20040226/
The specification of DOM Level 2’s various parts is at:
http://www.w3.org/TR/2000/REC-DOM-Level-2-Events-20001113/
http://www.w3.org/TR/2000/REC-DOM-Level-2-Style-20001113/
http://www.w3.org/TR/2000/REC-DOM-Level-2-Traversal-Range-20001113/
http://www.w3.org/TR/2000/REC-DOM-Level-2-Views-20001113/

The specification of DOM Level 1’s various parts is at:

Links to all available W3C DOM Java Bindings can be found at:
http://www.w3.org/DOM/DOMTR

The actual classes of The Simple API for CSS (SAC) came from:
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*m4/ax_func_which_gethostbyname_r.m4

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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.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 Jansen (jansen@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(agle@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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@end appendixsubsec Preamble

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1.675 pixman 0.34.0 1.el7

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From network_io/unix/inet_ntop.c, network_io/unix/inet_pton.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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1.702 jetty-io 9.2.26.v20180806

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  jar/org/quartz/management/ManagementRESTServiceConfiguration.java
* /opt/ws_local/PERMITS_SQL/1092870732_1600803311.42/0/quartz-2-3-0-sources-1-
  jar/org/quartz/management/ManagementServer.java

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jar/org/quartz/core/QuartzScheduler.java
* /opt/ws_local/PERMITS_SQL/1092870732_1600803311.42/0/quartz-2-3-0-sources-1-
jar/org/quartz/impl/jdbcjobstore/StdJDBCConstants.java
* /opt/ws_local/PERMITS_SQL/1092870732_1600803311.42/0/quartz-2-3-0-sources-1-
jar/org/quartz/TriggerListener.java
* /opt/ws_local/PERMITS_SQL/1092870732_1600803311.42/0/quartz-2-3-0-sources-1-
jar/org/quartz/SchedulerMetaData.java
* /opt/ws_local/PERMITS_SQL/1092870732_1600803311.42/0/quartz-2-3-0-sources-1-
jar/org/quartz/SchedulerContext.java
* /opt/ws_local/PERMITS_SQL/1092870732_1600803311.42/0/quartz-2-3-0-sources-1-
jar/org/quartz/Calendar.java
* /opt/ws_local/PERMITS_SQL/1092870732_1600803311.42/0/quartz-2-3-0-sources-1-
jar/org/quartz/impl/jdbcjobstore/StdJDBCDelegate.java
* /opt/ws_local/PERMITS_SQL/1092870732_1600803311.42/0/quartz-2-3-0-sources-1-
jar/org/quartz/simpl/SimpleClassLoadHelper.java
* /opt/ws_local/PERMITS_SQL/1092870732_1600803311.42/0/quartz-2-3-0-sources-1-
jar/org/quartz/ee/jmx/jboss/QuartzService.java
* /opt/ws_local/PERMITS_SQL/1092870732_1600803311.42/0/quartz-2-3-0-sources-1-
jar/org/quartz/plugins/xml/XMLSchedulingDataProcessorPlugin.java
* /opt/ws_local/PERMITS_SQL/1092870732_1600803311.42/0/quartz-2-3-0-sources-1-
jar/org/quartz/simpl/ThreadContextClassLoadHelper.java
* /opt/ws_local/PERMITS_SQL/1092870732_1600803311.42/0/quartz-2-3-0-sources-1-
jar/org/quartz/impl/jdbcjobstore/SimpleSemaphore.java
* /opt/ws_local/PERMITS_SQL/1092870732_1600803311.42/0/quartz-2-3-0-sources-1-
jar/org/quartz/impl/jdbcjobstore/CacheDelegate.java
* /opt/ws_local/PERMITS_SQL/1092870732_1600803311.42/0/quartz-2-3-0-sources-1-
jar/org/quartz/spi/InstanceIdGenerator.java
* /opt/ws_local/PERMITS_SQL/1092870732_1600803311.42/0/quartz-2-3-0-sources-1-
jar/org/quartz/impl/jdbcjobstore/TriggerStatus.java
* /opt/ws_local/PERMITS_SQL/1092870732_1600803311.42/0/quartz-2-3-0-sources-1-
jar/org/quartz/impl/jdbcjobstore/Constants.java
* /opt/ws_local/PERMITS_SQL/1092870732_1600803311.42/0/quartz-2-3-0-sources-1-
jar/org/quartz/simpl/SimpleInstanceIdGenerator.java
* /opt/ws_local/PERMITS_SQL/1092870732_1600803311.42/0/quartz-2-3-0-sources-1-
jar/org/quartz/ee/jta/JTAJobRunShell.java
* /opt/ws_local/PERMITS_SQL/1092870732_1600803311.42/0/quartz-2-3-0-sources-1-
jar/org/quartz/impl/StdJob RunShellFactory.java
* /opt/ws_local/PERMITS_SQL/1092870732_1600803311.42/0/quartz-2-3-0-sources-1-
jar/org/quartz/impl/jdbcjobstore/oracle/OracleDelegate.java
* /opt/ws_local/PERMITS_SQL/1092870732_1600803311.42/0/quartz-2-3-0-sources-1-
jar/org/quartz/spi/TimeBroker.java
* /opt/ws_local/PERMITS_SQL/1092870732_1600803311.42/0/quartz-2-3-0-sources-1-
jar/org/quartz/utils/weblogic/WeblogicConnectionProvider.java
* /opt/ws_local/PERMITS_SQL/1092870732_1600803311.42/0/quartz-2-3-0-sources-1-
jar/org/quartz/spi/SchedulerPlugin.java
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* /opt/ws_local/PERMITS_SQL/1092870732_1600803311.42/0/quartz-2-3-0-sources-1-jar/org/terracotta/trigger/TriggerFacade.java
* /opt/ws_local/PERMITS_SQL/1092870732_1600803311.42/0/quartz-2-3-0-sources-1-jar/org/terracotta/quartz/wrappers/TriggerFacade.java
* /opt/ws_local/PERMITS_SQL/1092870732_1600803311.42/0/quartz-2-3-0-sources-1-jar/org/terracotta/quartz/TerracottaToolkitBuilder.java
* /opt/ws_local/PERMITS_SQL/1092870732_1600803311.42/0/quartz-2-3-0-sources-1-jar/org/terracotta/quartz/TerracottaToolkitBuilder.java
jar/org/terracotta/quartz/wrappers/JobFacade.java
* /opt/ws_local/PERMITS_SQL/1092870732_1600803311.42/0/quartz-2-3-0-sources-1-
jar/org/terracotta/quartz/PlainTerracottaJobStore.java
* /opt/ws_local/PERMITS_SQL/1092870732_1600803311.42/0/quartz-2-3-0-sources-1-
jar/org/terracotta/quartz/TerracottaJobStore.java
* /opt/ws_local/PERMITS_SQL/1092870732_1600803311.42/0/quartz-2-3-0-sources-1-
jar/org/terracotta/quartz/collections/ToolkitDSHolder.java
* /opt/ws_local/PERMITS_SQL/1092870732_1600803311.42/0/quartz-2-3-0-sources-1-
jar/org/terracotta/quartz/AbstractTerracottaJobStore.java

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* /opt/ws_local/PERMITS_SQL/1092870732_1600803311.42/0/quartz-2-3-0-sources-1-
jar/org/quartz/plugins/interrupt/JobInterruptMonitorPlugin.java
* /opt/ws_local/PERMITS_SQL/1092870732_1600803311.42/0/quartz-2-3-0-sources-1-
jar/org/quartz/impl/jdbcjobstore/UpdateLockRowSemaphore.java
* /opt/ws_local/PERMITS_SQL/1092870732_1600803311.42/0/quartz-2-3-0-sources-1-
jar/org/quartz/listeners/BroadcastTriggerListener.java
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jar/org/quartz/listeners/BroadcastJobListener.java

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* /opt/ws_local/PERMITS_SQL/1092870732_1600803311.42/0/quartz-2-3-0-sources-1-jar/org/quartz/CronExpression.java
* /opt/ws_local/PERMITS_SQL/1092870732_1600803311.42/0/quartz-2-3-0-sources-1-jar/org/quartz/impl/matchers/NotMatcher.java
* /opt/ws_local/PERMITS_SQL/1092870732_1600803311.42/0/quartz-2-3-0-sources-1-jar/org/quartz/impl/matchers/EverythingMatcher.java
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* /opt/ws_local/PERMITS_SQL/1092870732_1600803311.42/0/quartz-2-3-0-sources-1-jar/org/quartz/spi/MutableTrigger.java
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* /opt/ws_local/PERMITS_SQL/1092870732_1600803311.42/0/quartz-2-3-0-sources-1-jar/org/quartz/TriggerKey.java
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* /opt/ws_local/PERMITS_SQL/1092870732_1600803311.42/0/quartz-2-3-0-sources-1-jar/org/quartz/SimpleTrigger.java
* /opt/ws_local/PERMITS_SQL/1092870732_1600803311.42/0/quartz-2-3-0-sources-1-jar/org/quartz/CalendarIntervalScheduleBuilder.java
* /opt/ws_local/PERMITS_SQL/1092870732_1600803311.42/0/quartz-2-3-0-sources-1-jar/org/quartz/CronTrigger.java
* /opt/ws_local/PERMITS_SQL/1092870732_1600803311.42/0/quartz-2-3-0-sources-1-jar/org/quartz/impl/jdbcjobstore/DailyTimeIntervalTriggerPersistenceDelegate.java
* /opt/ws_local/PERMITS_SQL/1092870732_1600803311.42/0/quartz-2-3-0-sources-1-jar/org/quartz/ExecuteInJJATransaction.java
* /opt/ws_local/PERMITS_SQL/1092870732_1600803311.42/0/quartz-2-3-0-sources-1-jar/org/quartz/JobDetail.java
* /opt/ws_local/PERMITS_SQL/1092870732_1600803311.42/0/quartz-2-3-0-sources-1-jar/org/quartz/DisallowConcurrentExecution.java
* /opt/ws_local/PERMITS_SQL/1092870732_1600803311.42/0/quartz-2-3-0-sources-1-jar/org/quartz/JobExecutionContext.java
* /opt/ws_local/PERMITS_SQL/1092870732_1600803311.42/0/quartz-2-3-0-sources-1-jar/org/quartz/TriggerBuilder.java
* /opt/ws_local/PERMITS_SQL/1092870732_1600803311.42/0/quartz-2-3-0-sources-1-jar/org/quartz/CalendarIntervalTrigger.java
* /opt/ws_local/PERMITS_SQL/1092870732_1600803311.42/0/quartz-2-3-0-sources-1-jar/org/quartz/impl/matchers/OrMatcher.java
* /opt/ws_local/PERMITS_SQL/1092870732_1600803311.42/0/quartz-2-3-0-sources-1-jar/org/quartz/JobKey.java
* /opt/ws_local/PERMITS_SQL/1092870732_1600803311.42/0/quartz-2-3-0-sources-1-jar/org/quartz/SimpleScheduleBuilder.java
* /opt/ws_local/PERMITS_SQL/1092870732_1600803311.42/0/quartz-2-3-0-sources-1-jar/org/quartz/SchedulerConfigException.java
* /opt/ws_local/PERMITS_SQL/1092870732_1600803311.42/0/quartz-2-3-0-sources-1-jar/org/quartz/JobExecutionException.java
* /opt/ws_local/PERMITS_SQL/1092870732_1600803311.42/0/quartz-2-3-0-sources-1-jar/org/quartz/impl/matchers/NameMatcher.java
* /opt/ws_local/PERMITS_SQL/1092870732_1600803311.42/0/quartz-2-3-0-sources-1-jar/org/quartz/DailyTimeIntervalScheduleBuilder.java
* /opt/ws_local/PERMITS_SQL/1092870732_1600803311.42/0/quartz-2-3-0-sources-1-jar/org/quartz/impl/triggers/CoreTrigger.java
* /opt/ws_local/PERMITS_SQL/1092870732_1600803311.42/0/quartz-2-3-0-sources-1-jar/org/quartz/JobBuilder.java
* /opt/ws_local/PERMITS_SQL/1092870732_1600803311.42/0/quartz-2-3-0-sources-1-jar/org/quartz/TimeOfDay.java

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*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1092870732_1600803311.42/0/quartz-2-3-0-sources-1-jar/org/quartz/impl/jdbcjobstore/AttributeRestoringConnectionInvocationHandler.java
* /opt/ws_local/PERMITS_SQL/1092870732_1600803311.42/0/quartz-2-3-0-sources-1-jar/org/quartz/listeners/SchedulerListenerSupport.java
* /opt/ws_local/PERMITS_SQL/1092870732_1600803311.42/0/quartz-2-3-0-sources-1-jar/org/quartz/ee/jmx/jboss/JBoss4RMIRemoteMBeanScheduler.java
* /opt/ws_local/PERMITS_SQL/1092870732_1600803311.42/0/quartz-2-3-0-sources-1-jar/org/quartz/listeners/JobListenerSupport.java
* /opt/ws_local/PERMITS_SQL/1092870732_1600803311.42/0/quartz-2-3-0-sources-1-jar/org/quartz/plugins/SchedulerPluginWithUserTransactionSupport.java
* /opt/ws_local/PERMITS_SQL/1092870732_1600803311.42/0/quartz-2-3-0-sources-1-jar/org/quartz/utils/StringKeyDirtyFlagMap.java
* /opt/ws_local/PERMITS_SQL/1092870732_1600803311.42/0/quartz-2-3-0-sources-1-jar/org/quartz/implementations/impl/jdbcjobstore/TablePrefixAware.java
* /opt/ws_local/PERMITS_SQL/1092870732_1600803311.42/0/quartz-2-3-0-sources-1-jar/org/quartz/impl/SchedulerPluginWithUserTransactionSupport.java
* /opt/ws_local/PERMITS_SQL/1092870732_1600803311.42/0/quartz-2-3-0-sources-1-jar/org/quartz/impl/SchedulerPluginWithUserTransactionSupport.java
* /opt/ws_local/PERMITS_SQL/1092870732_1600803311.42/0/quartz-2-3-0-sources-1-jar/org/quartz/listeners/TriggerListenerSupport.java

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Found in path(s):
* /opt/ws_local/PERMITS_SQL/1092870732_1600803311.42/0/quartz-2-3-0-sources-1-jar/org/terracotta/quartz/collections/SerializationHelper.java
* /opt/ws_local/PERMITS_SQL/1092870732_1600803311.42/0/quartz-2-3-0-sources-1-jar/org/terracotta/quartz/collections/TimeTrigger.java

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*/
Found in path(s):
* /opt/ws_local/PERMITS_SQL/1092870732_1600803311.42/0/quartz-2-3-0-sources-1-
  jar/org/quartz/utils/DirtyFlagMap.java
* /opt/ws_local/PERMITS_SQL/1092870732_1600803311.42/0/quartz-2-3-0-sources-1-
  jar/org/quartz/core/JobRunShell.java
* /opt/ws_local/PERMITS_SQL/1092870732_1600803311.42/0/quartz-2-3-0-sources-1-
  jar/org/quartz/impl/DirectSchedulerFactory.java
* /opt/ws_local/PERMITS_SQL/1092870732_1600803311.42/0/quartz-2-3-0-sources-1-
  jar/org/quartz/core/QuartzSchedulerThread.java
* /opt/ws_local/PERMITS_SQL/1092870732_1600803311.42/0/quartz-2-3-0-sources-1-
  jar/org/quartz/spi/JobStore.java
* /opt/ws_local/PERMITS_SQL/1092870732_1600803311.42/0/quartz-2-3-0-sources-1-
  jar/org/quartz/ee/servlet/QuartzInitializerServlet.java
* /opt/ws_local/PERMITS_SQL/1092870732_1600803311.42/0/quartz-2-3-0-sources-1-
  jar/org/quartz/spi/ThreadPool.java
* /opt/ws_local/PERMITS_SQL/1092870732_1600803311.42/0/quartz-2-3-0-sources-1-
  jar/org/quartz/impl/calendar/BaseCalendar.java
* /opt/ws_local/PERMITS_SQL/1092870732_1600803311.42/0/quartz-2-3-0-sources-1-
  jar/org/quartz/impl/calendar/MonthlyCalendar.java
* /opt/ws_local/PERMITS_SQL/1092870732_1600803311.42/0/quartz-2-3-0-sources-1-
  jar/org/quartz/impl/SchedulerFactory.java
* /opt/ws_local/PERMITS_SQL/1092870732_1600803311.42/0/quartz-2-3-0-sources-1-
  jar/org/quartz/utils/PoolingConnectionProvider.java
* /opt/ws_local/PERMITS_SQL/1092870732_1600803311.42/0/quartz-2-3-0-sources-1-
  jar/org/quartz/ee/servlet/QuartzInitializerListener.java
* /opt/ws_local/PERMITS_SQL/1092870732_1600803311.42/0/quartz-2-3-0-sources-1-
  jar/org/quartz/impl/calendar/WeeklyCalendar.java

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Found in path(s):
* /opt/ws_local/PERMITS_SQL/1092870732_1600803311.42/0/quartz-2-3-0-sources-1-jar/org/quartz/impl/jdbcjobstore/TriggerPersistenceDelegate.java
* /opt/ws_local/PERMITS_SQL/1092870732_1600803311.42/0/quartz-2-3-0-sources-1-jar/org/quartz/utils/ClassUtils.java
* /opt/ws_local/PERMITS_SQL/1092870732_1600803311.42/0/quartz-2-3-0-sources-1-jar/org/quartz/impl/jdbcjobstore/SimplePropertiesTriggerProperties.java
* /opt/ws_local/PERMITS_SQL/1092870732_1600803311.42/0/quartz-2-3-0-sources-1-jar/org/quartz/impl/SchedulerDetailsSetter.java
* /opt/ws_local/PERMITS_SQL/1092870732_1600803311.42/0/quartz-2-3-0-sources-1-jar/org/quartz/impl/DefaultThreadExecutor.java
* /opt/ws_local/PERMITS_SQL/1092870732_1600803311.42/0/quartz-2-3-0-sources-1-jar/org/quartz/impl/jdbcjobstore/SimplePropertiesTriggerPersistenceDelegateSupport.java
* /opt/ws_local/PERMITS_SQL/1092870732_1600803311.42/0/quartz-2-3-0-sources-1-jar/org/quartz/impl/jdbcjobstore/CalendarIntervalTriggerPersistenceDelegate.java
* /opt/ws_local/PERMITS_SQL/1092870732_1600803311.42/0/quartz-2-3-0-sources-1-jar/org/quartz/impl/jdbcjobstore/CronTriggerPersistenceDelegate.java
* /opt/ws_local/PERMITS_SQL/1092870732_1600803311.42/0/quartz-2-3-0-sources-1-jar/org/quartz/impl/jdbcjobstore/SimpleTriggerPersistenceDelegate.java

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Found in path(s):
* /opt/ws_local/PERMITS_SQL/1092870732_1600803311.42/0/quartz-2-3-0-sources-1-jar/META-INF/MANIFEST.MF

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 * limitations under the License.
 */

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1092870732_1600803311.42.jar/org/terracotta/quartz/DefaultClusteredJobStore.java
* /opt/ws_local/PERMITS_SQL/1092870732_1600803311.42.jar/org/terracotta/quartz/collections/SerializedToolkitStore.java
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Found in path(s):
* /opt/ws_local/PERMITS_SQL/1092870732_1600803311.42.jar/org/quartz/utils/counter/CounterManager.java
* /opt/ws_local/PERMITS_SQL/1092870732_1600803311.42.jar/org/quartz/utils/counter/sampled/SampledRateCounterImpl.java
* /opt/ws_local/PERMITS_SQL/1092870732_1600803311.42.jar/org/quartz/utils/counter/sampled/SampledRateCounterConfig.java
* /opt/ws_local/PERMITS_SQL/1092870732_1600803311.42.jar/org/quartz/utils/counter/sampled/SampledCounter.java
* /opt/ws_local/PERMITS_SQL/1092870732_1600803311.42.jar/org/quartz/utils/counter/sampled/SampledCounterImpl.java
* /opt/ws_local/PERMITS_SQL/1092870732_1600803311.42.jar/org/quartz/utils/counter/sampled/SampledCounterConfig.java
1.705 perl-scalar-list-utils 1.27

1.705.1 Available under license:

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```plaintext
---
abstract: 'Common Scalar and List utility subroutines'
author:
  - 'Graham Barr <gbarr@cpan.org>'
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: Scalar-List-Utils
no_index:
  directory:
    - t
    - inc
requires:
  Test::More: 0
resources:
  repository: https://github.com/Scalar-List-Utils/Scalar-List-Utils
version: 1.27

Found in path(s):
* /opt/cola/permits/1103681649_1604394634.14/0/perl-Scalar-List-Utils-1.27-248.el7-1.src.rpm-cosi-expand-archive-nYt8sqJs/Scalar-List-Utils-1.27.tar.gz-cosi-expand-archive-Xh80cYI1/Scalar-List-Utils-1.27/MYMETA.yml

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license: perl
```
Name: perl-Scalar-List-Utils
Version: 1.27
Release: 248%{?dist}
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}"
makedist
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):
* /opt/cola/permits/1103681649_1604394634.14/0/perl-Scalar-List-Utils-1.27-248.el7-1.src.rpm-cosi-expand-archive-nYt8sqJs/perl-Scalar-List-Utils.spec

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This package is a replacement for the built-in 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 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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Found in path(s):
* /opt/cola/permits/1103681649_1604394634.14/0/perl-Scalar-List-Utils-1.27-248.el7-1.src.rpm-cosi-expand-
archive-nYt8sqJs/Scalar-List-Utils-1.27.tar.gz-cosi-expand-archive-Xh80cYI1/Scalar-List-Utils-1.27/README

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/*
   ----------------------------------------------------------------------
   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 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 `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.

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 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.

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<tr>
<td>pv_pretty()</td>
<td>NEED_pv_pretty</td>
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</tr>
</tbody>
</table>
To avoid namespace conflicts, you can change the namespace of the explicitly exported functions / variables using the C<D PPP_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 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 = 3.19_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]";
# 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;

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$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 ) : ()),
    } }
    qw(
        AvFILLp|5.004050||p
        AvFILL||
        CLASS||n
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        CX_CURPAD_SV||
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    );
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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 "$f ":'x(40-length($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_\(/) {
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;

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else {
    $function->[1] = $_; 
}

$function = [1, ""] if m{^DPPP_(my\(_\(w+\))\)};

$replace = $1 if m{^s*$rccs\(s+Replace:s+\(w+d\)s+rccce\(s*\$\)};
$replace{$2} = $1 if $replace and m{^s*\#s*define\(s+(w+)\(?\(\[^\)]*\)\)?s+(w+)\)};
$replace{$2} = $1 if m{^s*$rccs\(s+Replace \(w+\) with \(w+\)s+rccce\s*\$\)};

if (m{^s*$rccs\(s+(w+\(s*,s*\(w+\)*\))s+depends\(s+on\(s+(w+\(s*,s*\(w+\)*\))s+rccce\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;
    $s = [sort grep !$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 "=== $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 "\nShints\{\$f\}" if exists $hints{$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'}'.";
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 {

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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{

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( ^$HS*\#\#\#\$include[:-]*[a\^u\n]+\b(?:\Q$ppport\E|XSUB\b)\b[^\^u\n]*
| ^$HS*\#\$define\[if\([^\^u\n]*\)?|\(\?\):\?\(\?\):\?\b[^\^u\n]*
| ( ^$HS*\#\^[^\w\r\n]*
  | [^[^u\^\r\n]*\?\|\^[^u\w\r\n]*\?\)
  | [^[^u\w\r\n]*\?\|\^[^u\w\r\n]*\?
  | / (?::[^\^u\^\r\n]*\?[^\^u\w\r\n]*\?[^\^u\w\r\n]* \| /[^\^u\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\[^\w\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\(?:\QPerl_\E\)?($match)\b/) {
    $file{uses_replace} \{ $1 \}++ if exists $revreplace\{func\} && $1 eq $revreplace\{func\};
    $file{usesPerl} \{ $func \}++ if $c =~ /\^\b\QPerl_\E\E\$func\b/m;
    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} \{ $._ \};
            
          }
        }
      }
    }
    for ($func, @deps) {
      $file{needs} \{ $._ \} = 'static' if exists $need \{ $._ \};
    }
  }
  if (exists $API\{func\} \{ todo \} && $API\{func\} \{ todo \} > $opt\{compat-version\}) {
    if ($c =~ /\^\b\Qfunc\b/m) {
      $file{uses_todo} \{ $func \}++;
      
    }
  }
}

while ($c =~ /\^$HS*\#\$HS*\$define\$HS+(NEED\(_\w\+\_\_GLOBAL\))\b/m) {
  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*\(\s*)(?!aTHX_?)(\)|[^\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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for $func (sort keys %{$file{uses_replace}}) {
    warning("Uses $func instead of $replace{$func}");
    $file{changes} += ($c =~ s{\bPerl_$func\(\s*\)\(\s*aTHX_?\)\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\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+)/(Spp/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)
    || ($c =~ s/^s/([^$HS*#$HS*define.*Q$ppport/E)/Spp/m)
    || ($c =~ s/^s/([^$HS*#$HS*define.*XSUB.\s*?)/S1Spp/m)
    || ($c =~ s/^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$s)\n" : ";
info("Analysis completed$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") {
            "

Open Source Used In Cisco VSM 7.14.2  25656
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

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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 $tmp |") {
    while (<F>) {
        s/$tmp/$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'
    }

    $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'
;"
    }
}

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.0%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' => '*' );
$usage =~ s/\^perl\s+\S+/$^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+ COPYRIGHT\s*(.*)\s*=\w+/ms;
  $copy =~ s/^(?=$HS+)/    /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

/my;$c = $self =~ /(.*^__DATA__)(.*)/ms;
$c =~ s\{| defined \$2 \? ' ' : ($1 || '') }gsex;
$c =~ s!s+!!mg;
$c =~ s!s!SLF!!mg;
$c =~ s!s*#s*!#mg;
$c =~ s!s*!!mg;

open OUT, ">$0" or die "cannot strip $0: $!";
print OUT "$spl$c\n"
exit 0;
}

__DATA__
*/
NAME

List::Util::XS - Indicate if List::Util was compiled with a C compiler

SYNOPSIS

use List::Util::XS 1.20;

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>.

SEE ALSO

L<Scalar::Util>, L<List::Util>, L<List::MoreUtils>

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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.

```perl
$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.

```perl
$fund = dualvar 86, "Nix";
$dual = isdual($fund);            # true
```

Note that a scalar can be made to have both string and numeric content through numeric operations:

```perl
$foo = "10";
$dual = isdual($foo);             # false
$bar = $foo + 0;
$dual = isdual($foo);             # true
```

Note that although C<$!> appears to be dual-valued variable, it is actually implemented using a tied scalar:

```perl
#!/usr/bin/perl

#!/usr/bin/perl
$!  = 1;
print("$!
");                           # "Operation not permitted"
$dual = isdual($!);                   # false
```

You can capture its numeric and string content using:

```perl
$err = dualvar $!, $!
$dual = isdual($err);                # true
```

==item isvstring EXPR

If EXPR is a scalar which was coded as a vstring the result is true.

```perl
$v   = v49.46.48;
$fmt = isvstring($v) ? "%vd" : "%s"; #true
printf($fmt,$v);
```

==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.

    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.

    $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.

    $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.

    set_prototype \&foo, \$$;
=item tainted EXPR

Return true if the result of EXPR is tainted

   $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.

   {  
      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.

   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 C<grep()> for instance
when grepping through a list of weakened references to objects that may have
been destroyed already:

   @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.

   $ref = \$foo;
$weak = isweak($ref);  # false
weaken($ref);
$weak = isweak($ref);  # true

B<NOTE>: Copying a weak reference creates a normal, strong, reference.

$copy = $ref;
$weak = isweak($copy);  # false

=head1 DIAGNOSTICS

Module use may give one of the following errors during import.

=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

=head1 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

=head1 SEE ALSO

L<List::Util>

=head1 COPYRIGHT
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 { $_.|| return 0 for @_; 1 }

# All arguments are false

    sub none { $_.&& return 0 for @_; 1 }

# One argument is false
sub notall { $_.|| 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>

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=cut

Found in path(s):
* /opt/cola/permits/1103681649_1604394634.14/0/perl-Scalar-List-Utils-1.27-248.el7-1.src.rpm-cosi-expand-archive-nYt8sqJs/Scalar-List-Utils-1.27.tar.gz-cosi-expand-archive-Xh80cYI1/Scalar-List-Utils-1.27/lib/List/Util.pm

1.706 microcode-ctl 2.1

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This updated microcode supersedes microcode provided by Red Hat with the CVE-2017-5715 (Spectre) CPU branch injection vulnerability mitigation.

Historically, Red Hat has provided updated microcode, developed by our microprocessor partners, as a customer convenience. Red Hat had temporarily suspended this practice while microcode stabilized. Red Hat is once again providing an updated Intel microcode package (microcode_ctl) and AMD microcode package (linux-firmware) to customers in order to simplify deployment processes and minimize downtime. Well continue to update these microcode packages as necessary. Please contact your hardware vendor to determine whether more recent BIOS/firmware updates are recommended because additional improvements may be available.

This kbase https://access.redhat.com/articles/3436091 includes a table that maps Intel and AMD CPU processor code family names to updated Intel and AMD microcode package versions.

1.707 apache 2.2.15

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From network_io/unix/inet_ntop.c, network_io/unix/inet_pton.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:

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* 
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    <signature of Ty Coon>, 1 April 1989
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1.723 newt 1.0.2-1.el7

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1.724 tcsh 6.18.01-15.el7

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People who have contributed to tcsh for win32 with bugfixes, functionality,
and other useful pieces of code. If I've left you out, please let me know!

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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 ******************/
/*
* POSIXThis system supports IEEE Std 1003.1-1988 (POSIX).
*/
#undef POSIX

/*
* POSIXJOBSThis 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

/*
* 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 -- tcsh 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 SYSVREL0

/*
 * YPBUGSWork around Sun YP bugs that cause expansion of ~username
 *to send command output to /dev/null
 */
#undef YPBUGS

/******************** local defines **********************/

#endif /* _h_config */

1.725 fast-infoset 1.2.16

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=head1 NAME

Date::Language::Hungarian - Magyar format for Date::Format

=head1 SYNOPSIS

my $lang = Date::Language->new('Hungarian');
print $lang->time2str("%a %b %e %T %Y", time);

@lt = localtime(time);
print $lang->time2str($template, time);
print $lang->strftime($template, @lt);

print $lang->time2str($template, time, $zone);
print $lang->strftime($template, @lt, $zone);

print $lang->ctime(time);
print $lang->asctime(@lt);

print $lang->ctime(time, $zone);
print $lang->asctime(@lt, $zone);
See L<Date::Format>.

=head1 AUTHOR

Paula Goddard (paula-at- paulacska-dot- com)

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=cut

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* /opt/cola/permits/1103681697_1604394739.21/0/perl-TimeDate-2.30-2.el7.src.rpm-cosi-expand-archive-NnGPgpnM/TimeDate-2.30.tar.gz-cosi-expand-archive-gZXzUbOZ/TimeDate-2.30/lib/Date/Language/Hungarian.pm

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abstract: unknown
author:
  - 'Graham Barr <gbarr@pobox.com>'
build_requires:
  ExtUtils::MakeMaker: 0
configure_requires:
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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: TimeDate
no_index:
directory:
  - t
  - inc
requires: {}
resources:
  repository: http://github.com/gbarr/perl-TimeDate
version: 2.30

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=encoding utf8

=head1 NAME

Date::Language::Bulgarian - localization for Date::Format

=head1 DESCRIPTION

This is Bulgarian localization for Date::Format.
It is important to note that this module source code is in utf8.
All strings which it outputs are in utf8, so it is safe to use it
currently only with English. You are left alone to try and convert
the output when using different Date::Language::* in the same application.
This should be addressed in the future.

=head1 SYNOPSIS

use strict;
use warnings;
use Date::Language;
local $=/;  
my $template ="%a %b %e %T %Y (%Y-%m-%d %H:%M:%S)";
my $time=1290883821;  #or just use time();
my @lt = localtime($time);
my %languages = qw(English GMT German EEST Bulgarian EET);
binmode(select,'utf8');

foreach my $l(keys %languages){
    my $lang = Date::Language->new($l);
    my $zone = $languages{$l};
    print $/, "$l $zone";
    print $lang->time2str($template, $time);
}
Found in path(s):
  * /opt/cola/permits/1103681697_1604394739.21/0/perl-TimeDate-2.30-2.el7.src.rpm-cosi-expand-archive-
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    2.30/lib/Date/Language/Bulgarian.pm
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This is the perl5 TimeDate distribution. It requires perl version 5.003
or later

This distribution replaces my earlier GetDate distribution, which was
only a date parser. The date parser contained in this distribution is
far superior to the yacc based parser, and a *lot* faster.

The parser contained here will only parse absolute dates, if you want a
date parser that can parse relative dates then take a look at the Time
modules by David Muir on CPAN.

You install the library by running these commands:

    perl Makefile.PL
    make
    make test
    make install

Please report any bugs/suggestions to <gbarr@pobox.com>

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1.730 tmpwatch 2.11

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Version 2, June 1991

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c-ares  http://daniel.haxx.se/projects/c-ares/license.html

(Used for asynchronous name resolves) Uses an MIT license that is very liberal and imposes no restrictions on any other library or part you may link with.

zlib    http://www.gzip.org/zlib/zlib_license.html

(Used for compressed Transfer-Encoding support) Uses an MIT-style license that shouldn't collide with any other library.

krb4

While nothing in particular says that a Kerberos4 library must use any particular license, the one I've tried and used successfully so far (kth-krb4) is partly Original BSD-licensed with the announcement clause. Some of the code in libcurl that is written to deal with Kerberos4 is Modified BSD-licensed.

MIT Kerberos http://web.mit.edu/kerberos/www/dist/

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fbopenssl

(Used for SPNEGO support) Unclear license. Based on its name, I assume that it uses the OpenSSL license and thus shares the same issues as described for OpenSSL above.

libidn http://josefsson.org/libidn/

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OpenLDAP http://www.openldap.org/software/release/license.html

(Used for LDAP support) Uses a Modified BSD-style license. Since libcurl uses OpenLDAP as a shared library only, I have not heard of anyone that ships OpenLDAP linked with libcurl in an app.

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The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, your program's commands might be different; for a GUI interface, you would use an "about box".

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1.736 perl-time-hires 1.9725

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/*
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 */

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/*

ppport.h -- Perl/Pollution/Portability Version 3.13

Automatically created by Devel::PPPort running under perl 5.008008.

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
 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

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.

OPTIONS

-help

Display a brief usage summary.

-version

Display the version of F<ppport.h>.

-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.
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.

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.

---

Open Source Used In Cisco VSM 7.14.2  26055
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 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
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\>.

=head1 EXAMPLES

To verify whether C\<ppport.h> is needed for your module, whether you should make any changes to your code, and whether any special defines

<table>
<thead>
<tr>
<th>Function / Variable</th>
<th>Static Request</th>
<th>Global Request</th>
</tr>
</thead>
<tbody>
<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_strlcat()</td>
<td>NEED_my_strlcat</td>
<td>NEED_my_strlcat_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_share()</td>
<td>NEED_newSVpvn_share</td>
<td>NEED_newSVpvn_share_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>
<tr>
<td>sv_catpvf_mg()</td>
<td>NEED_sv_catpvf_mg</td>
<td>NEED_sv_catpvf_mg_GLOBAL</td>
</tr>
<tr>
<td>sv_catpvf_mg_nocontext()</td>
<td>NEED_sv_catpvf_mg_nocontext</td>
<td>NEED_sv_catpvf_mg_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_setpvf_mg()</td>
<td>NEED_sv_setpvf_mg</td>
<td>NEED_sv_setpvf_mg_GLOBAL</td>
</tr>
<tr>
<td>sv_setpvf_mg_nocontext()</td>
<td>NEED_sv_setpvf_mg_nocontext</td>
<td>NEED_sv_setpvf_mg_nocontext_GLOBAL</td>
</tr>
<tr>
<td>vload_module()</td>
<td>NEED_vload_module</td>
<td>NEED_vload_module_GLOBAL</td>
</tr>
<tr>
<td>vnewSVpfv()</td>
<td>NEED_vnewSVpfv</td>
<td>NEED_vnewSVpfv_GLOBAL</td>
</tr>
<tr>
<td>warner()</td>
<td>NEED_warner</td>
<td>NEED_warner_GLOBAL</td>
</tr>
</tbody>
</table>
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
perl ppport.h --copy=.new
```

To display portability information for the C<newSVpvn> function, use:

```perl
perl ppport.h --api-info=newSVpvn
```

Since the argument to C<--api-info> can be a regular expression, you can use

```perl
perl ppport.h --api-info=/_nomg$/
```

to display portability information for all C<_nomg> functions or

```perl
perl ppport.h --api-info=/\/
```

to display information for all known API elements.
# 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 `http://rt.cpan.org/`.

Please include the following information:

1. The complete output from running "perl -V"
2. This file.
3. The name and version of the module you were trying to build.
4. A full log of the build that failed.
5. Any other information that you think could be relevant.

For the latest version of this code, please get the `Devel::PPPort` module from CPAN.

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=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 $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'}'
";
    }

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+)\|([^|]*)\|([^|]*)\|([^\s]*)(\s*)(.*)$/
    ? ($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(
    AvFILL-p|5.004050||p
    AvFILL||
    CLASS||
    CX_CURPAD_SAVE||
    CX_CURPAD_SV||
    CopFILEAV|5.006000||p
    CopFILEGV_set|5.006000||p
    CopFILEGV|5.006000||p
    CopFILESV|5.006000||p
    CopFILE_set|5.006000||p
    CopSTASH_eq|5.006000||p
    CopSTASHPV_set|5.006000||p
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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||
token_getmad||
tokenize_use||
tokeq||
tokereport||
vverify\|5.009003\|
vwarner\|5.006000\|
vwarn\|5.006000\|
wait4pid\|
warn_nocontext\|\|vn
warner_nocontext\|\|vn
warner\|5.006000\|5.004000\|pv
warn\|\|v
watch\|
whichsig\|
write_no_mem\|
write_to_stderr\|
xmldump_all\|
xmldump_attr\|
xmldump_eval\|
xmldump_form\|
xmldump_indent\|
xmldump_packsubs\|
xmldump_sub\|
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}), ",un";
    }
    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;
    $code =~ s{
        /(?<!\w)[^\w]*\*+(?:[^$ccs]\[^*]*\*+)* / | \[\^\w\]*
    | \'^\w\*\(?<!\w\[^'\w]*\)*""'
    | \('[^'\w]*\[^'\w]*\)* \}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
";
      }
    } 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] =~ /\AMI/) {
      $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*\#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 $define;
    } else {
      $function->[1] .= ";
    }
  }

  $function = [$1, "]; if m{^(DPPP\_\(my\_(\w+))};
$replace = $1 if m{\^s*$rcce\s+Replace:\s+(\d+)\s+$rcce\s*$};
$replace{$2} = $1 if $replace and m{\^s*#define\s+(\w+)(?:\(.*\))?\s+$rcce\s*$};
$replace{$2} = $1 if m{\^s*$rcce\s+Replace \(\w+\) with \(\w+\)\s+$rcce\s*$};
$replace{$1} = $2 if m{\^s*$rcce\s+Replace \(\w+\) with \(\w+\)\s+$rcce\s*$};
if (m{\^s*$rcce\s+\(\w+\)\s+depends\(\w+\)\s+\(\w+\)\s+\(\w+\)\s+\(\w+\)\s+$rcce\s*$}) {
  push @{$depends{$1}}, map { s/\s+/\g{1}/ } split /,/, $2;
}
$need{$1} = 1 if m{\^s*#if\s+defined\(NEED_\(\w+\)\s+\(\w+\)\s+$rcce\s*$\)};
for (values %depends) {
  my %s;
  $s_ = [sort grep !$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 "\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 \n\nShints(\$f)" if exists Shints{$f};
      print \n\nWARNING:\n\nSwarnings(\$f)" if exists $warnings{$f};
      $info++;
    }
    print "\nNo 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;
$file{has_inc_ppport} = $c =~ /^$HS*#$HS*include[^\r\n]+\b\Q$ppport\E\b/m;

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my $func;

for $func (keys %API) {
    my $match = $func;
    $match .= "|$revreplace{$func}" if exists $revreplace{$func};
    if ($c =~ /Ab(?:Perl_)?($match)\b/) {
        $file{uses_replace}{$func}++ 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}) {
            $file{uses}{$func}++;
            my @deps = rec_depend($func);
            if (@deps) {
                $file{uses_deps}{$func} = \@deps;
                for (@deps) {
                    if ($c =~ /Perl_$func\b/) {
                        $file{uses}{$_} = 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 ($c =~ /\^$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*\(\s*)(?!aTHX_?)(\)|[^\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}}) {
warning("Uses $func instead of $replace{$func}");

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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";
        } else {
            diag($message);
            $file{changes} += ($c =~ s/^$HS*#$HS*define$HS+NEED_${func}\b.*$LF//mg);
        }
    }
}
if ($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 = "\n"

    for $func (sort keys %{$file{needs}}) {
        my $type = $file{needs}[$func];
        next if $type eq 'extern';
        my $suffix = $type eq 'global' ? '_GLOBAL' : "\n";
        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");
            }
            $pp += "\n#define NEED_$func$suffix\n";
        }
    }
    if ($pp && ($c =~ s/^(?=$HS*#$HS*define$HS+NEED_\w+)/$pp/m)) {
        $pp = "\n";
        $file{changes}++;
    }
}

unless ($file{has_inc_ppport}) {
    diag("Needs to include '$ppport'\n"
    $pp := qq(#include "$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'\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$ix$rcces/$ccs$ccom[$ix] $cce/;
  }
  else {
    $c =~ s/$rccs$ix$rcces/$ccom[$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: $!");
      }
    }
  }
  elseif (exists $opt{patch} || $opt{changes}) {
    if (exists $opt{patch}) {
      unless ($patch_opened) {
    
  

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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 = $file{changes} == 1 ? 's' : 's';
    info("$file{changes} potentially required change$s detected");
} else {
    info("Looks good");
} else {
    close PATCH if $patch_opened;

    exit 0;

sub try_use { eval "use @_\; return $@ eq " }
--- $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;
        }
    }

echo

echo

echo

echo

echo

echo

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\'
    }

    $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;

    return ($1, $2, $3);
}

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$ver =~ s/$/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 };
\$@ and die "Cannot require Devel::PPPort, please install.\\n";
if (\$Devel::PPPort::VERSION < $VERSION) {
die "$0 was originally generated with Devel::PPPort $VERSION.\\n"

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"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 source used in cisco vsm 7.14.2  26116

deq

_found in path(s):
* /opt/cola/permits/1103682215_1604395590.96/0/perl-Time-HiRes-1.9725-3.el7-1.src.rpm-cosi-expand-archive-
    aQ1lGMrr/Time-HiRes-1.9725.tar.gz-cosi-expand-archive-DDG6oUEW/Time-HiRes-1.9725/ppport.h

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

=head1 NAME

Time::HiRes - High resolution alarm, sleep, gettimeofday, interval timers

=head1 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.

**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.

**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<printf>/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.

**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_gettime() returns are always 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 I<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.

=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.

=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():

    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>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 (!SvOK(*svp)) croak("Time::NVtime isn't a function pointer");
myNVtime = INT2PTR(double(*()), SvIV(*svp));
```
printf("The current time is: %f", (*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<alarm>.

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=head1 COPYRIGHT AND LICENSE

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it under the same terms as Perl itself.

=cut

Found in path(s):
* /opt/cola/permits/1103682215_16043590.96/0/perl-Time-HiRes-1.9725-3.el7-1.src.rpm-cosi-expand-archive-
aQ11GMrr/Time-HiRes-1.9725.tar.gz-cosi-expand-archive-DDG6oUEW/Time-HiRes-1.9725/HiRes.pm
No license file was found, but licenses were detected in source scan.

Time::HiRes module: High resolution time, sleep, and alarm.

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 '-nolineenumbers' 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
ewer version of Perl.

POD documentation is embedded.


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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/1103682215_1604395590.96/0/perl-Time-HiRes-1.9725-3.el7-1.src.rpm-cosi-expand-archive-
aQl1GMrr/Time-HiRes-1.9725.tar.gz-cosi-expand-archive-DDG6oUEW/Time-HiRes-1.9725/README
No license file was found, but licenses were detected in source scan.

License: GPL+ or Artistic

Found in path(s):
* /opt/cola/permits/1103682215_1604395590.96/0/perl-Time-HiRes-1.9725-3.el7-1.src.rpm-cosi-expand-archive-
aQl1GMrr/perl-Time-HiRes.spec
No license file was found, but licenses were detected in source scan.

---
abstract: 'High resolution alarm, sleep, gettimeofday, interval timers'
author:
  - Jarkko Hietaniemi <jhi@iki.fi>'
built_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

Found in path(s):
* /opt/cola/permits/1103682215_1604395590.96/0/perl-Time-HiRes-1.9725-3.el7-1.src.rpm-cosi-expand-archive-
aQ1lGMrr/Time-HiRes-1.9725.tar.gz-cosi-expand-archive-DDG6oUEW/Time-HiRes-1.9725/META.yml

1.737 python-backports 1
1.737.1 Available under license:
   No license file was found, but licenses were detected in source scan.

   License: Public Domain

   Found in path(s):
* /opt/cola/permits/1103681980_1604395046.07/0/python-backports-1.0-8.el7.src.rpm-cosi-expand-archive-
GUjHebdT/python-backports.spec

1.738 perl-module-pluggable 4.8
1.738.1 Available under license:
   No license file was found, but licenses were detected in source scan.

   =pod

   =head1 NAME

   Module::Pluggable - automatically give your module the ability to have plugins

   =head1 SYNOPSIS

   Simple use Module::Pluggable -

   package MyClass;
   use Module::Pluggable;

   and then later ...

   use MyClass;
   my $mc = MyClass->new();
# returns the names of all plugins installed under MyClass::Plugin::*
my @plugins = $mc->plugins();

=head1 EXAMPLE

Why would you want to do this? Say you have something that wants to pass an object to a number of different plugins in turn. For example you may want to extract meta-data from every email you get sent and do something with it. Plugins make sense here because then you can keep adding new meta data parsers and all the logic and docs for each one will be self contained and new handlers are easy to add without changing the core code. For that, you might do something like ...

package Email::Examiner;

use strict;
use Email::Simple;
use Module::Pluggable require => 1;

sub handle_email {
  my $self = shift;
  my $email = shift;

  foreach my $plugin ($self->plugins) {
    $plugin->examine($email);
  }

  return 1;
}

.. and all the plugins will get a chance in turn to look at it.

This can be trivially extended so that plugins could save the email somewhere and then no other plugin should try and do that. Simply have it so that the C<examine> method returns C<1> if it has saved the email somewhere. You might also want to be paranoid and check to see if the plugin has an C<examine> method.

    foreach my $plugin ($self->plugins) {
      next unless $plugin->can('examine');
      last if $plugin->examine($email);
    }

And so on. The sky's the limit.
=head1 DESCRIPTION

Provides a simple but, hopefully, extensible way of having 'plugins' for
your module. Obviously this isn't going to be the be all and end all of
solutions but it works for me.

Essentially all it does is export a method into your namespace that
looks through a search path for .pm files and turn those into class names.

Optionally it instantiates those classes for you.

=head1 ADVANCED USAGE

Alternatively, if you don't want to use 'plugins' as the method ...

    package MyClass;
    use Module::Pluggable sub_name => 'foo';

and then later ...

    my @plugins = $mc->foo();

Or if you want to look in another namespace

    package MyClass;
    use Module::Pluggable search_path => ['Acme::MyClass::Plugin', 'MyClass::Extend'];

or directory

    use Module::Pluggable search_dirs => ['mylibs/Foo'];

Or if you want to instantiate each plugin rather than just return the name

    package MyClass;
    use Module::Pluggable instantiate => 'new';

and then

    # whatever is passed to 'plugins' will be passed
    # to 'new' for each plugin
    my @plugins = $mc->plugins(@options);
package MyClass;
use Module::Pluggable require => 1;

since requiring automatically searches inner packages, which may not be desirable, you can turn this off

package MyClass;
use Module::Pluggable require => 1, inner => 0;

You can limit the plugins loaded using the except option, either as a string, array ref or regex

package MyClass;
use Module::Pluggable except => 'MyClass::Plugin::Foo';

or

package MyClass;
use Module::Pluggable except => ['MyClass::Plugin::Foo', 'MyClass::Plugin::Bar'];

or

package MyClass;
use Module::Pluggable except => qr/^MyClass::Plugin::(Foo|Bar)$/;

and similarly for only which will only load plugins which match.

Remember you can use the module more than once

package MyClass;
use Module::Pluggable search_path => 'MyClass::Filters' sub_name => 'filters';
use Module::Pluggable search_path => 'MyClass::Plugins' sub_name => 'plugins';

and then later ...

my @filters = $self->filters;
my @plugins = $self->plugins;

=head1 PLUGIN SEARCHING

Every time you call 'plugins' the whole search path is walked again. This allows for dynamically loading plugins even at run time. However this can get expensive and so if you don't expect to want to add new plugins at run time you could do
package Foo;
use strict;
use Module::Pluggable sub_name => '_plugins';

our @PLUGINS;
sub plugins { @PLUGINS ||= shift->_plugins }
1;

=head1 INNER PACKAGES

If you have, for example, a file `<lib/Something/Plugin/Foo.pm>` that contains package definitions for both `<Something::Plugin::Foo>` and `<Something::Plugin::Bar>` then as long as you either have either the `<require>` or `<instantiate>` option set then we'll also find `<Something::Plugin::Bar>`. Nifty!

=head1 OPTIONS

You can pass a hash of options when importing this module.

The options can be ...

=head2 sub_name

The name of the subroutine to create in your namespace.

By default this is 'plugins'

=head2 search_path

An array ref of namespaces to look in.

=head2 search_dirs

An array ref of directories to look in before @INC.

=head2 instantiate

Call this method on the class. In general this will probably be 'new' but it can be whatever you want. Whatever arguments are passed to 'plugins' will be passed to the method.

The default is 'undef' i.e just return the class name.

=head2 require

Just require the class, don't instantiate (overrides 'instantiate');
=head2 inner

If set to 0 will not search inner packages.
If set to 1 will override require.

=head2 only

Takes a string, array ref or regex describing the names of the only plugins to return. Whilst this may seem perverse... well, it is. But it also makes sense. Trust me.

=head2 except

Similar to require it takes a description of plugins to exclude from returning. This is slightly less perverse.

=head2 package

This is for use by extension modules which build on Module::Pluggable: passing a package option allows you to place the plugin method in a different package other than your own.

=head2 file_regex

By default Module::Pluggable only looks for .pm files.

By supplying a new file_regex then you can change this behaviour e.g

    file_regex => qr/\plugin$/

=head2 include_editor_junk

By default Module::Pluggable ignores files that look like they were left behind by editors. Currently this means files ending in ~ (~), the extensions .swp or .swo, or files beginning with ..#.

Setting include_editor_junk changes Module::Pluggable so it does not ignore any files it finds.

=head2 follow_symlinks

Whether, when searching directories, to follow symlinks.

Defaults to 1 i.e do follow symlinks.

=head2 min_depth, max_depth

This will allow you to set what 'depth' of plugin will be allowed.
So, for example, C<MyClass::Plugin::Foo> will have a depth of 3 and
C<MyClass::Plugin::Foo::Bar> will have a depth of 4 so to only get the former
(i.e C<MyClass::Plugin::Foo>) do

    package MyClass;
    use Module::Pluggable max_depth => 3;

and to only get the latter (i.e C<MyClass::Plugin::Foo::Bar>)

    package MyClass;
    use Module::Pluggable min_depth => 4;

=head1 TRIGGERS

Various triggers can also be passed in to the options.

If any of these triggers return 0 then the plugin will not be returned.

=head2 before_require <plugin>

Gets passed the plugin name.

If 0 is returned then this plugin will not be required either.

=head2 on_require_error <plugin> <err>

Gets called when there's an error on requiring the plugin.

Gets passed the plugin name and the error.

The default on_require_error handler is to C<carp> the error and return 0.

=head2 on_instantiate_error <plugin> <err>

Gets called when there's an error on instantiating the plugin.

Gets passed the plugin name and the error.

The default on_instantiate_error handler is to C<carp> the error and return 0.

=head2 after_require <plugin>

Gets passed the plugin name.

If 0 is returned then this plugin will be required but not returned as a plugin.
METHODs

search_path

The method C<search_path> is exported into you namespace as well. You can call that at any time to change or replace the search_path.

$self->search_path( add => "New::Path" ); # add
$self->search_path( new => "New::Path" ); # replace

BEHAVIOUR UNDER TEST ENVIRONMENT

In order to make testing reliable we exclude anything not from blib if blib.pm is in %INC.

However if the module being tested used another module that itself used C<Module::Pluggable> then the second module would fail. This was fixed by checking to see if the caller had (\^/|/)blib/ in their filename.

There's an argument that this is the wrong behaviour and that modules should explicitly trigger this behaviour but that particular code has been around for 7 years now and I'm reluctant to change the default behaviour.

You can now (as of version 4.1) force Module::Pluggable to look outside blib in a test environment by doing either

    require Module::Pluggable;
    $Module::Pluggable::FORCE_SEARCH_ALL_PATHS = 1;
    import Module::Pluggable;

    or

    use Module::Pluggable force_search_all_paths => 1;

FUTURE PLANS

This does everything I need and I can't really think of any other features I want to add. Famous last words of course

Recently tried fixed to find inner packages and to make it 'just work' with PAR but there are still some issues.

However suggestions (and patches) are welcome.

DEVELOPMENT
The master repo for this module is at

https://github.com/simonwistow/Module-Pluggable

=head1 AUTHOR

Simon Wistow <simon@thegestalt.org>

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=head1 BUGS

None known.

=head1 SEE ALSO

L<File::Spec>, L<File::Find>, L<File::Basename>, L<Class::Factory::Util>, L<Module::Pluggable::Ordered>

cut

Found in path(s):
* /opt/cola/permits/1103681435_1604394352.1/0/perl-Module-Pluggable-4.8-3.el7-1.src.rpm-cosi-expand-archive-bkf9ch4u/Module-Pluggable-4.8.tar.gz-cosi-expand-archive-XIG4LI9h/Module-Pluggable-4.8/lib/Module/Pluggable.pm

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

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Found in path(s):
* /opt/cola/permits/1103681435_1604394352.1/0/perl-Module-Pluggable-4.8-3.el7-1.src.rpm-cosi-expand-archive-bkf9ch4u/perl-Module-Pluggable.spec

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=head1 BUGS
None known.

=cut

Found in path(s):
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---

abstract: 'automatically give your module the ability to have plugins'

author:
- 'Simon Wistow <simon@thegestalt.org>'

build_requires:
  Test::More: 0.62

configure_requires:
  Module::Build: 0.38

dynamic_config: 1

generated_by: 'Module::Build version 0.38, CPAN::Meta::Converter version 2.112621'

license: perl

meta-spec:
  url: http://module-build.sourceforge.net/META-spec-v1.4.html
  version: 1.4

name: Module-Pluggable

provides:
  Devel::InnerPackage:
    file: lib/Devel/InnerPackage.pm
    version: 0.4

  Module::Pluggable:
    file: lib/Module/Pluggable.pm
    version: 4.8

  Module::Pluggable::Object:
    file: lib/Module/Pluggable/Object.pm
    version: 4.8

requires:
  File::Basename: 0
  File::Spec: 3.00
  if: 0

resources:
  license: http://dev.perl.org/licenses/
  version: 4.8

Found in path(s):
* /opt/cola/permits/1103681435_1604394352.1/0/perl-Module-Pluggable-4.8-3.el7-1.src.rpm-cosi-expand-archive-bkf9ch4u/Module-Pluggable-4.8.tar.gz-cosi-expand-archive-XIG4LI9h/Module-Pluggable-4.8/META.yml
No license file was found, but licenses were detected in source scan.

NAME
Module::Pluggable - automatically give your module the ability to have plugins

SYNOPSIS
Simple use Module::Pluggable -

    package MyClass;
    use Module::Pluggable;

    use MyClass;
    my $mc = MyClass->new();
    # returns the names of all plugins installed under MyClass::Plugin::*
    my @plugins = $mc->plugins();

EXAMPLE
Why would you want to do this? Say you have something that wants to pass
an object to a number of different plugins in turn. For example you may
want to extract meta-data from every email you get sent and do something
with it. Plugins make sense here because then you can keep adding new
meta data parsers and all the logic and docs for each one will be self
contained and new handlers are easy to add without changing the core
code. For that, you might do something like ...

    package Email::Examiner;
    use strict;
    use Email::Simple;
    use Module::Pluggable require => 1;

    sub handle_email {
        my $self = shift;
        my $email = shift;

        foreach my $plugin ($self->plugins) {
            $plugin->examine($email);
        }

        return 1;
    }

    .. and all the plugins will get a chance in turn to look at it.

This can be trivally extended so that plugins could save the email
somewhere and then no other plugin should try and do that. Simply have
it so that the "examine" method returns 1 if it has saved the email
somewhere. You might also want to be paranoid and check to see if the
plugin has an "examine" method.

    foreach my $plugin ($self->plugins) {
        next unless $plugin->can('examine');
        last if $plugin->examine($email);
    }

And so on. The sky's the limit.

DESCRIPTION
Provides a simple but, hopefully, extensible way of having 'plugins' for
your module. Obviously this isn't going to be the be all and end all of
solutions but it works for me.

Essentially all it does is export a method into your namespace that
looks through a search path for .pm files and turn those into class
names.

Optionally it instantiates those classes for you.

ADVANCED USAGE
Alternatively, if you don't want to use 'plugins' as the method ...

    package MyClass;
    use Module::Pluggable sub_name => 'foo';

and then later ...

    my @plugins = $mc->foo();

Or if you want to look in another namespace

    package MyClass;
    use Module::Pluggable search_path => ['Acme::MyClass::Plugin', 'MyClass::Extend'];

or directory

    use Module::Pluggable search_dirs => ['mylibs/Foo'];

Or if you want to instantiate each plugin rather than just return the
name

    package MyClass;
    use Module::Pluggable instantiate => 'new';
and then

    # whatever is passed to 'plugins' will be passed
    # to 'new' for each plugin
    my @plugins = $mc->plugins(@options);

alternatively you can just require the module without instantiating it

    package MyClass;
    use Module::Pluggable require => 1;

since requiring automatically searches inner packages, which may not be desirable, you can turn this off

    package MyClass;
    use Module::Pluggable require => 1, inner => 0;

You can limit the plugins loaded using the except option, either as a string, array ref or regex

    package MyClass;
    use Module::Pluggable except => 'MyClass::Plugin::Foo';

or

    package MyClass;
    use Module::Pluggable except => ['MyClass::Plugin::Foo', 'MyClass::Plugin::Bar'];

or

    package MyClass;
    use Module::Pluggable except => qr/^MyClass::Plugin::(Foo|Bar)$/;

and similarly for only which will only load plugins which match.

Remember you can use the module more than once

    package MyClass;
    use Module::Pluggable search_path => 'MyClass::Filters' sub_name => 'filters';
    use Module::Pluggable search_path => 'MyClass::Plugins' sub_name => 'plugins';

and then later ...

    my @filters = $self->filters;
    my @plugins = $self->plugins;

PLUGIN SEARCHING
  Every time you call 'plugins' the whole search path is walked again.
This allows for dynamically loading plugins even at run time. However this can get expensive and so if you don't expect to want to add new plugins at run time you could do

```
package Foo;
use strict;
use Module::Pluggable sub_name => '_plugins';

our @PLUGINS;
sub plugins { @PLUGINS ||= shift->_plugins }
1;
```

**INNER PACKAGES**

If you have, for example, a file `lib/Something/Plugin/Foo.pm` that contains package definitions for both "Something::Plugin::Foo" and "Something::Plugin::Bar" then as long as you either have either the require or instantiate option set then we'll also find "Something::Plugin::Bar". Nifty!

**OPTIONS**

You can pass a hash of options when importing this module.

```
The options can be ...

sub_name
The name of the subroutine to create in your namespace.

By default this is 'plugins'

search_path
An array ref of namespaces to look in.

search_dirs
An array ref of directorys to look in before @INC.

instantiate
Call this method on the class. In general this will probably be 'new' but it can be whatever you want. Whatever arguments are passed to 'plugins' will be passed to the method.

The default is 'undef' i.e just return the class name.

require
Just require the class, don't instantiate (overrides 'instantiate');

inner
If set to 0 will not search inner packages. If set to 1 will override "require".
```
only
Takes a string, array ref or regex describing the names of the only
plugins to return. Whilst this may seem perverse ... well, it is. But it
also makes sense. Trust me.

except
Similar to "only" it takes a description of plugins to exclude from
returning. This is slightly less perverse.

package
This is for use by extension modules which build on "Module::Pluggable":
passing a "package" option allows you to place the plugin method in a
different package other than your own.

file_regex
By default "Module::Pluggable" only looks for *.pm* files.

By supplying a new "file_regex" then you can change this behaviour e.g

    file_regex => qr/>.plugin$/

include_editor_junk
By default "Module::Pluggable" ignores files that look like they were
left behind by editors. Currently this means files ending in ~ (~), the
extensions .swp or .swo, or files beginning with #.

Setting "include_editor_junk" changes "Module::Pluggable" so it does not
ignore any files it finds.

follow_symlinks
Whether, when searching directories, to follow symlinks.

Defaults to 1 i.e do follow symlinks.

min_depth, max_depth
This will allow you to set what 'depth' of plugin will be allowed.

So, for example, "MyClass::Plugin::Foo" will have a depth of 3 and
"MyClass::Plugin::Foo::Bar" will have a depth of 4 so to only get the
former (i.e "MyClass::Plugin::Foo") do

    package MyClass;
    use Module::Pluggable max_depth => 3;

and to only get the latter (i.e "MyClass::Plugin::Foo::Bar")

    package MyClass;
use Module::Pluggable min_depth => 4;

TRIGGERS
Various triggers can also be passed in to the options.

If any of these triggers return 0 then the plugin will not be returned.

before_require <plugin>
   Gets passed the plugin name.

   If 0 is returned then this plugin will not be required either.

on_require_error <plugin> <err>
   Gets called when there's an error on requiring the plugin.

   Gets passed the plugin name and the error.

   The default on_require_error handler is to "carp" the error and return 0.

on_instantiate_error <plugin> <err>
   Gets called when there's an error on instantiating the plugin.

   Gets passed the plugin name and the error.

   The default on_instantiate_error handler is to "carp" the error and return 0.

after_require <plugin>
   Gets passed the plugin name.

   If 0 is returned then this plugin will be required but not returned as a plugin.

METHODs
search_path
   The method "search_path" is exported into you namespace as well. You can call that at any time to change or replace the search_path.

   $self->search_path( add => "New::Path" ); # add
   $self->search_path( new => "New::Path" ); # replace

BEHAVIOUR UNDER TEST ENVIRONMENT
In order to make testing reliable we exclude anything not from blib if blib.pm is in %INC.

However if the module being tested used another module that itself used "Module::Pluggable" then the second module would fail. This was fixed by
checking to see if the caller had (^|/)blib/ in their filename.

There's an argument that this is the wrong behaviour and that modules should explicitly trigger this behaviour but that particular code has been around for 7 years now and I'm reluctant to change the default behaviour.

You can now (as of version 4.1) force Module::Pluggable to look outside blib in a test environment by doing either

```perl
require Module::Pluggable;
$Module::Pluggable::FORCE_SEARCH_ALL_PATHS = 1;
import Module::Pluggable;
```

or

```perl
use Module::Pluggable force_search_all_paths => 1;
```

FUTURE PLANS
This does everything I need and I can't really think of any other features I want to add. Famous last words of course

Recently tried fixed to find inner packages and to make it 'just work' with PAR but there are still some issues.

However suggestions (and patches) are welcome.

DEVELOPMENT
The master repo for this module is at

https://github.com/simonwistow/Module-Pluggable

AUTHOR
Simon Wistow <simon@thegestalt.org>

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BUGS
None known.

SEE ALSO
File::Spec, File::Find, File::Basename, Class::Factory::Util, Module::Pluggable::Ordered

Found in path(s):
=pod

=head1 NAME

Module::Pluggable::Object - automatically give your module the ability to have plugins

=head1 SYNOPSIS

Simple use Module::Pluggable -

    package MyClass;
    use Module::Pluggable::Object;

    my $finder = Module::Pluggable::Object->new(%opts);
    print "My plugins are: ", join(" ", $finder->plugins).

=head1 DESCRIPTION

Provides a simple but, hopefully, extensible way of having 'plugins' for your module. Obviously this isn't going to be the be all and end all of solutions but it works for me.

Essentially all it does is export a method into your namespace that looks through a search path for .pm files and turn those into class names.

Optionally it instantiates those classes for you.

This object is wrapped by C<Module::Pluggable>. If you want to do something odd or add non-general special features you're probably best to wrap this and produce your own subclass.

=head1 OPTIONS

See the C<Module::Pluggable> docs.

=head1 AUTHOR

Simon Wistow <simon@thegestalt.org>

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=head1 BUGS

None known.

=head1 SEE ALSO

L<Module::Pluggable>

=cut

Found in path(s):
* /opt/cola/permits/1103681435_1604394352.1/0/perl-Module-Pluggable-4.8-3.el7-1.src.rpm-cosi-expand-archive-bkf9ch4u/Module-Pluggable-4.8.tar.gz-cosi-expand-archive-XIG4LI9h/Module-Pluggable-4.8/lib/Module/Pluggable/Object.pm

1.739 txw2 2.2.11

1.740 security-web 3.1.0

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1.741 libunwind 1.2-2.el7
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1.742 javax-websocket-client-impl
9.2.26.v20180806

1.743 spring-security-ldap 3.1.0
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Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.6 of 6 September 2010

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1.754 hunspell 1.3.2 15.el7

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* An almost complete rewrite of MySpell for use by
  * the Mozilla project has been developed by David Einstein
  * (Deinst@world.std.com). David and I are now
  * working on parallel development tracks to help
  * our respective projects (Mozilla and OpenOffice.org
  * and we will maintain full affix file and dictionary
  * file compatibility and work on merging our versions
  * of MySpell back into a single tree. David has been
  * a significant help in improving MySpell.

* Special thanks also go to La'szlo' Ne'meth
  * <nemethl@gyorsposta.hu> who is the author of the
  * Hungarian dictionary and who developed and contributed
  * the code to support compound words in MySpell
  * and fixed numerous problems with the encoding
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About XmlPull API

It is a minimalist API: very easy to implement standalone or on top of existing parser. The API allows both fast high
level iteration (using next() method) and low level tokenizing (using nextToken() token) and is designed for easy
building on top of it SAX, XML pull parsers that uses iterators with event objects, or even DOM implementations.
To support J2ME and real small implementation parsing of DOCDECL is optional (but DOCDECL can be reported if requested).

The aim is to provide a similar but orthogonal pull parsing basis to widely successful push parsing SAX API. The XmlPull API is in public domain in hope that it will be embraced by Java developers (conformance tests are under LGPL license to minimize risk of incompatible implementations).

1.759 firewalld 0.5.3

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**1.764 slf4j 1.7.25**

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1.766 pycurl 7.19.0

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

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Version 2.0, January 2004

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---
abstract: 'Perl pragma to declare constants'
author:
  - 'SÃ©bastien Aperghis-Tramoni <sebastien@aperghis.net>''
build_requires:
  Test::More: 0
configure_requires:
  Module::Build: 0.2808
dynamic_config: 1
generated_by: 'Module::Build version 0.4003, 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: constant
provides:
constant:
  file: lib/constant.pm
  version: 1.27
resources:
  license: http://dev.perl.org/licenses/
  version: 1.27

Found in path(s):
* /opt/cola/permits/1103682239_1604394057.41/0/perl-constant-1.27-2.el7-1.src.rpm-cosi-expand-archive-5w89Oc4Q/constant-1.27.tar.gz-cosi-expand-archive-QjXsofv/constant-1.27/META.yml
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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
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

CPAN Request Tracker:
    http://rt.cpan.org/Dist/Display.html?Name=constant

AnnoCPAN, annotated CPAN documentation:
    http://annocpan.org/dist/constant

CPAN Ratings:
    http://cpanratings.perl.org/d/constant

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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..\n";     # 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.

```perl
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:

```perl
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.

```perl
my @workdays = WEEKDAYS[1 .. 5];  # WRONG!
my @workdays = (WEEKDAYS)[1 .. 5]; # right
```

=head2 Defining multiple constants at once

Instead of writing multiple `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.

```perl
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 after the `use` statement is finished.

```perl
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.)

```perl
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' >>.

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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)

BUGS

Please report any bugs or feature requests via the perlbug(1) utility.

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>.

Documentation mostly rewritten by Ilmari Karonen, E<lt>F<perl@itz.pp.sci.fi>E<gt>.

This program is maintained by the Perl 5 Porters. The CPAN distribution is maintained by SE<eacute>bastien Aperghis-Tramoni E<lt>F<sebastien@aperghis.net>E<gt>.

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1.780 python-iniparse 0.4
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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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1.784 regexp 2.7.2

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```

1.792 libdb 5.3.21

1.793 bouncy-castle 1.60

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```
1.794 perl-encode 2.51

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=head1 NAME

Encode - character encodings in Perl

=head1 SYNOPSIS

use Encode qw(encode decode);

$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:

=item L<Encode::Alias> - Alias definitions to encodings
=item L<Encode::Encoding> - Encode Implementation Base Class
=item L<Encode::Supported> - List of Supported Encodings
=item L<Encode::CN> - Simplified Chinese Encodings
=item L<Encode::JP> - Japanese Encodings
=item L<Encode::KR> - Korean Encodings
=item L<Encode::TW> - Traditional Chinese Encodings

=head1 DESCRIPTION

The C<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 C<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 L<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 I<how>. L<perlunitut> and L<perlunifaq> explain the I<why>. 
=head2 TERMINOLOGY

=head3 character

A character in the range 0 .. 2**32-1 (or more); what Perl's strings are made of.

=head3 byte

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

$octets  = 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:

$octets = encode("iso-8859-1", $string);

B<CAVEAT>: When you run C<$octets = encode("utf8", $string)>>, then $octets I<might not be equal to> $string. Though both contain the same data, the UTF8 flag for $octets 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])

Open Source Used In Cisco VSM 7.14.2 26654
This function returns the string that results from decoding the scalar value \$OCTETS, assumed to be a sequence of octets in \$ENCODING, into Perl's internal form. The returns the resulting string. As with encode(), \$ENCODING can be either a canonical name or an alias. For encoding names and aliases, see \$"Defining Aliases"; for \$CHECK, see \$"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 \$string = decode("utf8", \$octets), then \$string might not be equal to \$octets. Though both contain the same data, the UTF8 flag for \$string is on unless \$octets consists entirely of ASCII data on ASCII machines or EBCDIC on EBCDIC machines. See \$"The UTF8 flag" below.

If the \$string is \$undefined, then \$undefined is returned.

=head3 find_encoding

[\$obj =] find_encoding(ENCODING)

Returns the \$encoding object corresponding to \$ENCODING. Returns \$undefined if no matching \$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.

```perl
find_encoding("latin1")->name; # iso-8859-1
```

See L<Encode::Encoding> for details.

=head3 from_to

```perl
[$length =] from_to($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:

```perl
from_to($octets, "iso-8859-1", "cp1250");
```

and to convert it back:

```perl
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:

```perl
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:

```perl
$data = encode("utf8", decode("iso-8859-1", $data));
```

See L</"The UTF8 flag"> below.

Also note that:

```perl
from_to($octets, $from, $to, $check);
```

is equivalent t:o
$octets = encode($to, decode($from, $octets), $check);

Yes, it does not respect the $check during decoding. It is deliberately done that way. If you need minute control, use $decode$ followed by $encode$ 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,
=head2 Defining Aliases

To add a new alias to a given encoding, use:

use Encode;
use Encode::Alias;
define_alias(NEWNAME => ENCODING);

After that, I<NEWNAME> can be used as an alias for I<ENCODING>. I<ENCODING> may be either the name of an encoding or an I<encoding object>.

Before you do that, first make sure the alias is nonexistent using C<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

C<resolve_alias()> does not need C<use Encode::Alias>; it can be imported via C<use Encode qw(resolve_alias)>.

See L<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 C<< Content-Type: text/plain; charset=I<WHATEVER> >>. For most cases, the canonical name works, but sometimes it does not, most notably with "utf-8-strict".

As of C<Encode> version 2.21, a new method C<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: L<Encode::Encoding>

=head1 Encoding via PerlIO

If your perl supports C<PerlIO> (which is the default), you can use a C<PerlIO> layer to decode and encode directly via a filehandle. The following two examples are fully identical in functionality:
### Version 1 via PerlIO

```perl
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()

```perl
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:

```perl
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, `Encode` supports coderef values for `CHECK`; see below.

_B<NOTE:_ Not all encodings support this feature.
Some encodings ignore the `CHECK` argument. For example, `Encode::Unicode` ignores `CHECK` and it always croaks on error.

=head2 List of `CHECK` values

=head3 FB_DEFAULT

`CHECK` = `Encode::FB_DEFAULT` ( == 0)

If `CHECK` is 0, encoding and decoding replace any malformed character with a substitution character. When you encode, `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 <"utf8"> is given.

=head3 FB_CROAK

`CHECK` = `Encode::FB_CROAK` ( == 1)

If `CHECK` is 1, methods immediately die with an error message. Therefore, when `CHECK` is 1, you should trap exceptions with `eval{ }`, unless you really want to let it `die`.

=head3 FB_QUIET

`CHECK` = `Encode::FB_QUIET`

If `CHECK` is set to `Encode::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 `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, Encode::FB_QUIET);
    # $buffer now contains the unprocessed partial character
}
```

=head3 FB_WARN
I<CHECK> = Encode::FB_WARN

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.

=head3 FB_PERLQQ FB_HTMLCREF FB_XMLCREF

=over 2

=item perlqq mode (I<CHECK> = Encode::FB_PERLQQ)

=item HTML charref mode (I<CHECK> = Encode::FB_HTMLCREF)

=item XML charref mode (I<CHECK> = Encode::FB_XMLCREF)

=back

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<HHH>> is inserted for a malformed character, where
I<HHH> 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<&#I<NNN>;> where I<NNN> is a decimal number, and
XML uses C<&#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)>.

<table>
<thead>
<tr>
<th>FB_DEFAULT</th>
<th>FB_CROAK</th>
<th>FB QUIET</th>
<th>FB_WARN</th>
<th>FB_PERLQQ</th>
</tr>
</thead>
<tbody>
<tr>
<td>DIE_ON_ERR</td>
<td>0x0001</td>
<td>X</td>
<td></td>
<td></td>
</tr>
<tr>
<td>WARN_ON_ERR</td>
<td>0x0002</td>
<td>X</td>
<td></td>
<td></td>
</tr>
<tr>
<td>RETURN_ON_ERR</td>
<td>0x0004</td>
<td>X</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>LEAVE_SRC</td>
<td>0x0008</td>
<td>X</td>
<td></td>
<td></td>
</tr>
<tr>
<td>PERLQQ</td>
<td>0x0100</td>
<td>X</td>
<td></td>
<td></td>
</tr>
<tr>
<td>HTMLCREF</td>
<td>0x0200</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>XMLCREF</td>
<td>0x0400</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
If the C<Encode::LEAVE_SRC> bit is not set but C<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:

```perl
$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>}>

To define a new encoding, use:

```perl
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.

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.>

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.

When *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 *Encode* handles the UTF8 flag.

=over 2

=item *

When you *encode*, the resulting UTF8 flag is always B<off>.

=item *

When you *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)>,

When $octet is... The UTF8 flag in $utf8 is

---------------------------------------------
In ASCII only (or EBCDIC only) OFF
In ISO-8859-1 ON
In any other Encoding ON
---------------------------------------------

As you see, there is one exception: in ASCII. That way you can assume Goal #1. And with *Encode*, Goal #2 is assumed but you still have to be
careful in the cases mentioned in the **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.

=head2 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.

=head3 is_utf8

is_utf8(STRING [, CHECK])

**INTERNAL** Tests whether the UTF8 flag is turned on in the I<STRING>. If I<CHECK> is true, also checks whether I<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.

=head3 _utf8_on

_utf8_on(STRING)

**INTERNAL** Turns the I<STRING>’s internal UTF8 flag B<on>. The I<STRING> is I<not> checked for containing only well-formed UTF-8. Do not use this unless you I<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 I<STRING> is not a string.

**NOTE**: For security reasons, this function does not work on tainted values.

=head3 _utf8_off

_utf8_off(STRING)

**INTERNAL** Turns the I<STRING>’s internal UTF8 flag B<off>. Do not use frivolously. Returns the previous state of the UTF8 flag, or C<undef> if I<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.
NOTE: For security reasons, this function does not work on tainted values.

=head1 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 0xFD0 .. 0xFDFF, the last two code points in any plane (0xI<XX>_FFFFE and 0xI<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 `Encode` module, `"UTF-8"` is actually a canonical name for `"utf-8-strict"`. That hyphen between the `"UTF"` and the `"8"` is critical; without it, `Encode` goes "liberal" and (perhaps overly-)permissive:

```perl
find_encoding("UTF-8")->{name # is 'utf-8-strict'
find_encoding("utf-8")->{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

`Encode::Encoding`,
`Encode::Supported`,
`Encode::PerlIO`,
`encoding`,
`perlfunc/open`,
`perlunicode`, `perluniintro`, `perlunifaq`, `perlunitut`

=head1 MAINTAINER

This project was originated by the late Nick Ing-Simmons and later maintained by Dan Kogai. See AUTHORS for a full list of people involved. For any questions, send mail to 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/1103682545_1604395302.16/0/perl-Encode-2.51-7.el7-1.src.rpm-cosi-expand-archive-dVEvHtKA/Encode-2.51.tar.gz-cosi-expand-archive-vod7W2cF/Encode-2.51/Encode.pm
No license file was found, but licenses were detected in source scan.

License: GPL+ or Artistic

Found in path(s):
* /opt/cola/permits/1103682545_1604395302.16/0/perl-Encode-2.51-7.el7-1.src.rpm-cosi-expand-archive-dVEvHtKA/perl-Encode.spec

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

---
abstract: unknown
author:
- unknown
buildRequires:
  ExtUtils::MakeMaker: 0
configureRequires:
  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: Encode
noIndex:
directory:
  - t
  - inc
requires: {}
version: 2.51

Found in path(s):
* /opt/cola/permits/1103682545_1604395302.16/0/perl-Encode-2.51-7.el7-1.src.rpm-cosi-expand-archive-dVEvHtKA/Encode-2.51.tar.gz-cosi-expand-archive-vod7W2cF/Encode-2.51/META.yml

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

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.

**COPYRIGHT AND LICENCE**

Copyright (C) 2002 Your Name <your@address.domain>

This library 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/1103682545_1604395302.16/0/perl-Encode-2.51-7.el7-1.src.rpm-cosi-expand-archive-dVEvHtKA/Encode-2.51.tar.gz-cosi-expand-archive-vod7W2cF/Encode-2.51/Encode/README.e2x
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>Special Encoding</td>
<td></td>
</tr>
<tr>
<td>iso-8859-1</td>
<td>latin1</td>
<td>[ISO]</td>
</tr>
<tr>
<td>null</td>
<td>Special Encoding</td>
<td></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
"asci-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.

<table>
<thead>
<tr>
<th>Coding Scheme</th>
<th>Description</th>
<th>Source</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.

=over 2

=item ISO-8859 and corresponding vendor mappings

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

<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)</td>
<td>cp437</td>
<td>AdobeStandardEncoding</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>cp863</td>
<td>(DOSCanadaF)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>W. Europe</td>
<td>iso-8859-1</td>
<td>cp850</td>
<td>cp1252</td>
<td>MacRoman</td>
<td>nextstep</td>
</tr>
</tbody>
</table>
hp-roman8
cp860 (DOSPortuguese)

Cntrl. Europe iso-8859-2 cp852 cp1250 MacCentralEurRoman
MacCroatian
MacRomanian
MacRumanian

Latin3[1] iso-8859-3
Latin4[2] iso-8859-4

Cyrillic iso-8859-5 cp855 cp1251 MacCyrillic
(See also next section) cp866 MacUkrainian

Arabic iso-8859-6 cp864 cp1256 MacArabic
 cp1006 MacFarsi

Greek iso-8859-7 cp737 cp1253 MacGreek
 cp869 (DOSGreek2)

Hebrew iso-8859-8 cp862 cp1255 MacHebrew

Turkish iso-8859-9 cp857 cp1254 MacTurkish

Nordics iso-8859-10 cp865
 cp861 MacIcelandic
 MacSami

Thai iso-8859-11[3] cp874 MacThai
(iso-8859-12 is nonexistent. Reserved for Indics?)

Baltics iso-8859-13 cp775 cp1257

Celtics iso-8859-14


Latin10 iso-8859-16

Vietnamese viscii cp1258 MacVietnamese

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

[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

Macintosh encodings don't seem to be registered in such entities as
IANA. "Canonical" names in Encode are based upon Apple's Tech Note
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]

=Gback

=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.

=back

=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.
## Encode::CN -- Continental China

<table>
<thead>
<tr>
<th>Standard</th>
<th>DOS/Win Macintosh</th>
<th>Comment/Reference</th>
</tr>
</thead>
<tbody>
<tr>
<td>(gbk)</td>
<td>cp936 [2]</td>
<td></td>
</tr>
<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></td>
</tr>
</tbody>
</table>

[1] GB2312 is aliased to this. See L\langle Microsoft-related naming mess\rangle
[2] gbk is aliased to this. See L\langle Microsoft-related naming mess\rangle

## 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>[RFC1468]</td>
</tr>
<tr>
<td>7bit-jis</td>
<td></td>
<td>[RFC2237]</td>
</tr>
<tr>
<td>iso-2022-jp</td>
<td></td>
<td></td>
</tr>
<tr>
<td>iso-2022-jp-1</td>
<td></td>
<td></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></td>
<td>[RFC1557]</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</td>
<td>MacChineseTrad {big5 aliased to big5-eten}</td>
</tr>
<tr>
<td>big5-hkscs</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

=item 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></td>
<td>Chinese Character Code for Information Interchange</td>
</tr>
<tr>
<td>euc-tw</td>
<td></td>
<td>EUC (Extended Unix Character)</td>
</tr>
<tr>
<td>gb18030</td>
<td></td>
<td>GBK with Traditional Characters</td>
</tr>
</tbody>
</table>

=item 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.

<table>
<thead>
<tr>
<th>Standard</th>
<th>DOS/Win Macintosh</th>
<th>Comment/Reference</th>
</tr>
</thead>
<tbody>
<tr>
<td>cp37</td>
<td></td>
<td></td>
</tr>
<tr>
<td>cp500</td>
<td></td>
<td></td>
</tr>
<tr>
<td>cp875</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
cp1026
cp1047
posix-bc

=item Encode::Symbols
For symbols and dingbats.

symbol
dingbats
MacDingbats
AdobeZdingbat
AdobeSymbol

=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.

MIME-Header [RFC2047]
MIME-B [RFC2047]
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 available at L<http://www.unicode.org/>). Contributions welcome.

=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 L<http://lxr.mozilla.org/seamonkey/source/intl/uconv/ucvlatin/vps.uf> and L<http://lxr.mozilla.org/seamonkey/source/intl/uconv/ucvlatin/vps.ut> 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.

=over 2

=item *

First we start with which characters to include. We call this collection of characters I<character repertoire>.

=item *
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 character set.

If your computer can grow the character set without further processing, you can go ahead and use it. This is called a coded character set (CCS) or 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 encode the character set to use it.

A 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 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" ".

=head1 Encoding Classification (by Anton Tagunov and Dan Kogai)

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.

=item *

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
EUC-KR    Big5    GB2312

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. See 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)

=item *

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!

=back

The rule of thumb is to use C<UTF-8> unless you know what
ISO-IR-165    [RFC1345]
VISCI
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.

=head2 Microsoft-related naming mess

Microsoft products misuse the following names:

=over 2

=item 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>.

=back

=head1 Glossary

=over 2

=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).

[RFC 2277]

=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

=over 2

=item ECMA

European Computer Manufacturers Association
L<http://www.ecma.ch>

=over 2

=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/>

=over 2

=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

=over 2

=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/>

=over 2

=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.

=back

=back

=head2 Other Notable Sites
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/cjkinfo/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


item C<CJKV Information Processing> by Ken Lunde

CJKV Information Processing

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L<http://oreilly.com/catalog/9780596514471/> or your favourite bookstore.

1.795 direct3d 10.0.10240.16412
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1.795.2 Available under license :

The Independent JPEG Group's JPEG software

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README for release 6b of 27-Mar-1998

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Serious users of this software (particularly those incorporating it into larger programs) should contact IJG at jpeg-info@uunet.uu.net to be added to our electronic mailing list. Mailing list members are notified of updates and have a chance to participate in technical discussions, etc.

This software is the work of Tom Lane, Philip Gladstone, Jim Boucher, Lee Crocker, Julian Minguillon, Luis Ortiz, George Phillips, Davide Rossi, Guido Vollbeding, 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.
RELATED SOFTWARE Other stuff you should get.
FILE FORMAT WARS Software *not* to get.
TO DO Plans for future IJG releases.

Other documentation files in the distribution are:

User documentation:
install.doc  How to configure and install the IJG software.
usage.doc   Usage instructions for cjpeg, djpeg, jpegtran,
            rdjpgcom, and wrjpgcom.
*.1          Unix-style man pages for programs (same info as usage.doc).
wizard.doc  Advanced usage instructions for JPEG wizards only.
change.log  Version-to-version change highlights.

Programmer and internal documentation:
libjpeg.doc How to use the JPEG library in your own programs.
example.c   Sample code for calling the JPEG library.
structure.doc Overview of the JPEG library's internal structure.
filelist.doc Road map of IJG files.
coderules.doc Coding style rules --- please read if you contribute code.

Please read at least the files install.doc and usage.doc. Useful 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 compression and
decompression. JPEG (pronounced "jay-peg") is a standardized compression
method for full-color and gray-scale images. JPEG is intended for compressing
"real-world" scenes; line drawings, cartoons and other non-realistic images
are not its strong suit. JPEG is lossy, meaning that the output image is not
exactly identical to the input image. Hence you must not use JPEG if you
have to have identical output bits. However, on typical photographic images,
very good compression levels can be obtained with no visible change, and
remarkably high compression levels are possible if you can tolerate a low-quality image. For more details, see the references, or just experiment with various compression settings.

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. For legal reasons, we are not distributing code for the arithmetic-coding variants of JPEG; see LEGAL ISSUES. 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 "rdipcom" and "wripcom", 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.

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It appears that the arithmetic coding option of the JPEG spec is covered by patents owned by IBM, AT&T, and Mitsubishi. Hence arithmetic coding cannot legally be used without obtaining one or more licenses. For this reason, support for arithmetic coding has been removed from the free JPEG software. (Since arithmetic coding provides only a marginal gain over the unpatented Huffman mode, it is unlikely that very many implementations will support it.) So far as we are aware, there are no patent restrictions on the remaining code.

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.

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REFERENCES
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We highly 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 ftp://ftp.uu.net/graphics/jpeg/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...


The JPEG standard itself is not available electronically; you must order a paper copy through ISO or ITU. (Unless you feel a need to own a certified official copy, we recommend buying the Pennebaker and Mitchell book instead; it's much cheaper and includes a great deal of useful explanatory material.) In the USA, copies of the standard may be ordered from ANSI Sales at (212) 642-4900, or from Global Engineering Documents at (800) 854-7179. (ANSI doesn't take credit card orders, but Global does.) It's not cheap: as of 1992, ANSI was charging $95 for Part 1 and $47 for Part 2, plus 7% shipping/handling. The standard is divided into two parts, Part 1 being the actual specification, while Part 2 covers compliance testing methods. Part 1 is titled "Digital Compression and Coding of Continuous-tone Still Images, Part 1: Requirements and guidelines" and has document numbers ISO/IEC IS 10918-1, ITU-T T.81. Part 2 is titled "Digital Compression and Coding of Continuous-tone Still Images, Part 2: Compliance testing" and has document numbers ISO/IEC IS 10918-2, ITU-T T.83.

Some extensions to the original JPEG standard are defined in JPEG Part 3, a newer ISO standard numbered ISO/IEC IS 10918-3 and ITU-T T.84. IJG currently does not support any Part 3 extensions.

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. A copy of the JFIF spec is available from:

Literature Department
C-Cube Microsystems, Inc.
1778 McCarthy Blvd.
Milpitas, CA 95035
phone (408) 944-6300, fax (408) 944-6314
A PostScript version of this document is available by FTP at ftp://ftp.uu.net/graphics/jpeg/jfif.ps.gz. There is also a plain text version at ftp://ftp.uu.net/graphics/jpeg/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 ftp.sgi.com or from ftp://ftp.uu.net/graphics/jpeg/. 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. libtiff is available from ftp://ftp.sgi.com/graphics/tiff/.

ARCHIVE LOCATIONS
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The "official" archive site for this software is ftp.uu.net (Internet address 192.48.96.9). The most recent released version can always be found there in directory graphics/jpeg. This particular version will be archived as ftp://ftp.uu.net/graphics/jpeg/jpegsrc.v6b.tar.gz. If you don't have direct Internet access, UUNET's archives are also available via UUCP; contact help@uunet.uu.net for information on retrieving files that way.

Numerous Internet sites maintain copies of the UUNET files. However, only ftp.uu.net is guaranteed to have the latest official version.

You can also obtain this software in DOS-compatible "zip" archive format from the SimTel archives (ftp://ftp.simtel.net/pub/simtelnet/msdos/graphics/), or on CompuServe in the Graphics Support forum (GO CIS:GRAPHSUP), library 12 "JPEG Tools". Again, these versions may sometimes lag behind the ftp.uu.net release.

The JPEG FAQ (Frequently Asked Questions) article is a useful source of general information about JPEG. It is updated constantly and therefore is not included in this distribution. The FAQ is posted every two weeks to Usenet newsgroups comp.graphics.misc, news.answers, and other groups. It is available on the World Wide Web at http://www.faqs.org/faqs/jpeg-faq/ and other news.answers archive sites, including the official news.answers archive at rtfm.mit.edu: ftp://rtfm.mit.edu/pub/usenet/news.answers/jpeg-faq/.
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RELATED SOFTWARE
=================
Numerous viewing and image manipulation programs now support JPEG. (Quite a few of them use this library to do so.) The JPEG FAQ described above lists some of the more popular free and shareware viewers, and tells where to obtain them on Internet.

If you are on a Unix machine, we highly recommend Jef Poskanzer's free PBMPLUS software, which provides many useful operations on PPM-format image files. In particular, it can convert PPM images to and from a wide range of other formats, thus making cjpeg/djpeg considerably more useful. The latest version is distributed by the NetPBM group, and is available from numerous sites, notably ftp://wuarchive.wustl.edu/graphics/graphics/packages/NetPBM/. Unfortunately PBMPLUS/NETPBM is not nearly as portable as the IJG software is; you are likely to have difficulty making it work on any non-Unix machine.

A different free JPEG implementation, written by the PVRG group at Stanford, is available from ftp://havefun.stanford.edu/pub/jpeg/. This program is designed for research and experimentation rather than production use; it is slower, harder to use, and less portable than the IJG code, but it is easier to read and modify. Also, the PVRG code supports lossless JPEG, which we do not. (On the other hand, it doesn't do progressive JPEG.)

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

Some JPEG programs produce files that are not compatible with our library. The root of the problem is that the ISO JPEG committee failed to specify a concrete file format. Some vendors "filled in the blanks" on their own, creating proprietary formats that no one else could read. (For example, none of the early commercial JPEG implementations for the Macintosh were able to exchange compressed files.)

The file format we have adopted is called JFIF (see REFERENCES). This format has been agreed to by a number of major commercial JPEG vendors, and it has become the de facto standard. JFIF is a minimal or "low end" representation. We recommend the use of TIFF/JPEG (TIFF revision 6.0 as modified by TIFF Technical Note #2) for "high end" applications that need to record a lot of additional data about an image. TIFF/JPEG is fairly new and not yet widely supported, unfortunately.

The upcoming JPEG Part 3 standard defines a file format called SPIFF. SPIFF is interoperable with JFIF, in the sense that most JFIF decoders should be able to read the most common variant of SPIFF. SPIFF has some technical advantages over JFIF, but its major claim to fame is simply that it is an official standard rather than an informal one. At this point it is unclear whether SPIFF will supersede JFIF or whether JFIF will remain the de-facto standard. IJG intends to support SPIFF once the standard is frozen, but we have not decided whether it should become our default output format or not.
(In any case, our decoder will remain capable of reading JFIF indefinitely.)

Various proprietary file formats incorporating JPEG compression also exist. We have little or no sympathy for the existence of these formats. Indeed, one of the original reasons for developing this free software was to help force convergence on common, open format standards for JPEG files. Don't use a proprietary file format!

TO DO
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The major thrust for v7 will probably be improvement of visual quality. The current method for scaling the quantization tables is known not to be very good at low Q values. We also intend to investigate block boundary smoothing, "poor man's variable quantization", and other means of improving quality-vs-file-size performance without sacrificing compatibility.

In future versions, we are considering supporting some of the upcoming JPEG Part 3 extensions --- principally, variable quantization and the SPIFF file format.

As always, speeding things up is of great interest.

Please send bug reports, offers of help, etc. to jpeg-info@uunet.uu.net.

1.796 commons-collections 3.1

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J. M. G. Elliott
15-Jul-2000

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**1.807 batik-css 1.7**

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In a mail sent to Bruno Lowagie on January 23, 2008, Brian Burkhalter (@sun.com) writes: "This code is under a BSD license and supersedes the older codec packages on which your code is based. It also includes numerous fixes among them being the ability to handle a lot of 'broken' TIFFs."

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FYI: Brian also added: "A bit of history might be in order. The codec classes that you used originally were based on some classes included with JAI but not strictly part of JAI. As of Java SE 1.4 an official Image I/O framework was added in javax.imageio.... This framework supports these formats:

Java 1.4: GIF (read only), JPEG, PNG
Java 1.5: Added support for BMP and WBMP
Java 1.6: Added support for writing GIF

The JAI Image I/O Tools packages (jai-imageio-core) were created to support formats handled by JAI but not included in Java SE as well as some new things like JPEG2000."

(4) the file com/lowagie/text/pdf/codec/TIFFConstants and some other TIFF related code is derived from LIBTIFF:

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For the aclocal/ax_boost_base.m4 and contrib/fb303/aclocal/ax_boost_base.m4 components:

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--------------------------------------------------
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   L. Peter Deutsch
   ghost@aladdin.com

   */

--------------------------------------------------
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lib/ocaml/OCamlMakefile and lib/ocaml/README-OCamlMakefile components:

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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 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.

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When a "work that uses the Library" uses material from a header file
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1.822 direct3d 6.1.7600.16385

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--- README for release 6b of 27-Mar-1998 ---

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This software is the work of Tom Lane, Philip Gladstone, Jim Boucher, Lee Crocker, Julian Minguillon, Luis Ortiz, George Phillips, Davide Rossi, Guido Vollbeding, Ge’ Weijers, and other members of the Independent JPEG Group.

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DOCUMENTATION ROADMAP
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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.
Other documentation files in the distribution are:

User documentation:
- install.doc: How to configure and install the IJG software.
- usage.doc: Usage instructions for cjpeg, djpeg, jpegtran, rdjpgcom, and wrjpgcom.
- *.1: Unix-style man pages for programs (same info as usage.doc).
- wizard.doc: Advanced usage instructions for JPEG wizards only.

Programmer and internal documentation:
- libjpeg.doc: How to use the JPEG library in your own programs.
- example.c: Sample code for calling the JPEG library.
- structure.doc: Overview of the JPEG library's internal structure.
- filelist.doc: Road map of IJG files.
- coderules.doc: Coding style rules --- please read if you contribute code.

Please read at least the files install.doc and usage.doc. Useful 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 compression and decompression. JPEG (pronounced "jay-peg") is a standardized compression method for full-color and gray-scale images. JPEG is intended for compressing "real-world" scenes; line drawings, cartoons and other non-realistic images are not its strong suit. JPEG is lossy, meaning that the output image is not exactly identical to the input image. Hence you must not use JPEG if you have to have identical output bits. However, on typical photographic images, very good compression levels can be obtained with no visible change, and remarkably high compression levels are possible if you can tolerate a low-quality image. For more details, see the references, or just experiment with various compression settings.

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. For legal reasons, we are not distributing code for the arithmetic-coding
variants of JPEG; see LEGAL ISSUES. 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.

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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, ltconfig, ltmain.sh). Another support script, install-sh, is copyright by M.I.T. but is also freely distributable.

It appears that the arithmetic coding option of the JPEG spec is covered by
patents owned by IBM, AT&T, and Mitsubishi. Hence arithmetic coding cannot legally be used without obtaining one or more licenses. For this reason, support for arithmetic coding has been removed from the free JPEG software. (Since arithmetic coding provides only a marginal gain over the unpatented Huffman mode, it is unlikely that very many implementations will support it.) So far as we are aware, there are no patent restrictions on the remaining code.

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

We highly 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 ftp://ftp.uu.net/graphics/jpeg/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...

The JPEG standard itself is not available electronically; you must order a paper copy through ISO or ITU. (Unless you feel a need to own a certified official copy, we recommend buying the Pennebaker and Mitchell book instead; it's much cheaper and includes a great deal of useful explanatory material.) In the USA, copies of the standard may be ordered from ANSI Sales at (212) 642-4900, or from Global Engineering Documents at (800) 854-7179. (ANSI doesn't take credit card orders, but Global does.) It's not cheap: as of 1992, ANSI was charging $95 for Part 1 and $47 for Part 2, plus 7% shipping/handling. The standard is divided into two parts, Part 1 being the actual specification, while Part 2 covers compliance testing methods. Part 1 is titled "Digital Compression and Coding of Continuous-tone Still Images, Part 1: Requirements and guidelines" and has document numbers ISO/IEC IS 10918-1, ITU-T T 81. Part 2 is titled "Digital Compression and Coding of Continuous-tone Still Images, Part 2: Compliance testing" and has document numbers ISO/IEC IS 10918-2, ITU-T T 83.

Some extensions to the original JPEG standard are defined in JPEG Part 3, a newer ISO standard numbered ISO/IEC IS 10918-3 and ITU-T T 84. IJG currently does not support any Part 3 extensions.

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. A copy of the JFIF spec is available from:

Literature Department
C-Cube Microsystems, Inc.
1778 McCarthy Blvd.
Milpitas, CA 95035
phone (408) 944-6300, fax (408) 944-6314
A PostScript version of this document is available by FTP at ftp://ftp.uu.net/graphics/jpeg/jfif.ps.gz. There is also a plain text version at ftp://ftp.uu.net/graphics/jpeg/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 ftp.sgi.com or from ftp://ftp.uu.net/graphics/jpeg/. 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. libtiff is available from ftp://ftp.sgi.com/graphics/tiff/.

ARCHIVE LOCATIONS

The "official" archive site for this software is ftp.uu.net (Internet address 192.48.96.9). The most recent released version can always be found there in directory graphics/jpeg. This particular version will be archived as ftp://ftp.uu.net/graphics/jpeg/jpegsrc.v6b.tar.gz. If you don't have direct Internet access, UUNET's archives are also available via UUCP; contact help@uunet.uu.net for information on retrieving files that way.

Numerous Internet sites maintain copies of the UUNET files. However, only ftp.uu.net is guaranteed to have the latest official version.

You can also obtain this software in DOS-compatible "zip" archive format from the SimTel archives (ftp://ftp.simtel.net/pub/simtelnet/msdos/graphics/), or on CompuServe in the Graphics Support forum (GO CIS:GRAPHSUP), library 12 "JPEG Tools". Again, these versions may sometimes lag behind the ftp.uu.net release.

The JPEG FAQ (Frequently Asked Questions) article is a useful source of general information about JPEG. It is updated constantly and therefore is not included in this distribution. The FAQ is posted every two weeks to Usenet newsgroups comp.graphics.misc, news.answers, and other groups. It is available on the World Wide Web at http://www.faqs.org/faqs/jpeg-faq/ and other news.answers archive sites, including the official news.answers archive at rtfm.mit.edu: ftp://rtfm.mit.edu/pub/usenet/news.answers/jpeg-faq/. 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

RELATED SOFTWARE

Numerous viewing and image manipulation programs now support JPEG. (Quite a few of them use this library to do so.) The JPEG FAQ described above lists some of the more popular free and shareware viewers, and tells where to obtain them on Internet.

If you are on a Unix machine, we highly recommend Jef Poskanzer's free PBMPLUS software, which provides many useful operations on PPM-format image files. In particular, it can convert PPM images to and from a wide range of
other formats, thus making cjeg/djpeg considerably more useful. The latest version is distributed by the NetPBM group, and is available from numerous sites, notably ftp://wuarchive.wustl.edu/graphics/graphics/packages/NetPBM/. Unfortunately PBMPLUS/NETPBM is not nearly as portable as the IJG software is; you are likely to have difficulty making it work on any non-Unix machine.

A different free JPEG implementation, written by the PVRG group at Stanford, is available from ftp://havefun.stanford.edu/pub/jpeg/. This program is designed for research and experimentation rather than production use; it is slower, harder to use, and less portable than the IJG code, but it is easier to read and modify. Also, the PVRG code supports lossless JPEG, which we do not. (On the other hand, it doesn't do progressive JPEG.)

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

Some JPEG programs produce files that are not compatible with our library. The root of the problem is that the ISO JPEG committee failed to specify a concrete file format. Some vendors "filled in the blanks" on their own, creating proprietary formats that no one else could read. (For example, none of the early commercial JPEG implementations for the Macintosh were able to exchange compressed files.)

The file format we have adopted is called JFIF (see REFERENCES). This format has been agreed to by a number of major commercial JPEG vendors, and it has become the de facto standard. JFIF is a minimal or "low end" representation. We recommend the use of TIFF/JPEG (TIFF revision 6.0 as modified by TIFF Technical Note #2) for "high end" applications that need to record a lot of additional data about an image. TIFF/JPEG is fairly new and not yet widely supported, unfortunately.

The upcoming JPEG Part 3 standard defines a file format called SPIFF. SPIFF is interoperable with JFIF, in the sense that most JFIF decoders should be able to read the most common variant of SPIFF. SPIFF has some technical advantages over JFIF, but its major claim to fame is simply that it is an official standard rather than an informal one. At this point it is unclear whether SPIFF will supersede JFIF or whether JFIF will remain the de-facto standard. IJG intends to support SPIFF once the standard is frozen, but we have not decided whether it should become our default output format or not. (In any case, our decoder will remain capable of reading JFIF indefinitely.)

Various proprietary file formats incorporating JPEG compression also exist. We have little or no sympathy for the existence of these formats. Indeed, one of the original reasons for developing this free software was to help force convergence on common, open format standards for JPEG files. Don't use a proprietary file format!
TO DO
=====

The major thrust for v7 will probably be improvement of visual quality. The current method for scaling the quantization tables is known not to be very good at low Q values. We also intend to investigate block boundary smoothing, "poor man's variable quantization", and other means of improving quality-vs-file-size performance without sacrificing compatibility.

In future versions, we are considering supporting some of the upcoming JPEG Part 3 extensions --- principally, variable quantization and the SPIFF file format.

As always, speeding things up is of great interest.

Please send bug reports, offers of help, etc. to jpeg-info@uunet.uu.net.

1.823 wget 1.14 18.el7_6.1

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Version 3, 29 June 2007

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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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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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**1.825 json-c 0.11 4.el7_0**

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1.826 thread-pool 0.2.5
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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
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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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:
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

/* -*- mode: c; c-basic-offset: 4; indent-tabs-mode: nil -*-
/*
/*

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The implementations of GSSAPI mechglue in GSSAPI-SPNEGO in `~/src/lib/gssapi` include the following files:

.. 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
   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:

.. 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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and the initial implementation of incremental propagation, including
the following new or changed files:

- `iprop_hdr.h`
- `ipropd_svc.c`
- `iprop.c`
- `iprop_x.c`
- `iprop_convert.c`
- `iprop_log.c`
- `iprop_log.h`
- `kdb5_error_tables.c`
- `kprop.c`
- `kpropd_rpc.c`

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1.831 gstreamer 1.14.0
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1.834 apr-util 1.5.2 6.el7
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1.838 redhat-upgrade-tool 0.9.5

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1.840 miglayout 3.5.5

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1.841 ding-libs 0.6.1

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Alan Beale <biljir@pobox.com> also deserves special credit as he has, in addition to providing the 12Dicts package and being a major contributor to the ENABLE word list, given me an incredible amount of feedback and created a number of special lists (those found in the Supplement) in order to help improve the overall quality of SCOWL.

The 10 level includes the 1000 most common English words (according to the Moby (TM) Words II [MWords] package), a subset of the 1000 most common words on the Internet (again, according to Moby Words II), and frequently class 16 from Brian Kelk's "UK English Wordlist"
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Date: Sat, 08 Jul 2000 20:27:21 +0100
From: Brian Kelk <Brian.Kelk@cl.cam.ac.uk>

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myself. Finally a small list of abbreviations not commonly found in other word lists is included.

The name files form the Census report is a government document which I don't think can be copyrighted.

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The 70 level includes Brian's frequency class 0 and the 74,550 common dictionary words from the MWords package. The common dictionary words, like those from the 12Dicts package, have had all likely inflections added. The 70 level also included the 5desk list from version 4.0 of the 12Dics package which is the public domain.

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My VARCON package was used to create the American, British, and Canadian word list.

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1.843 dmidecode 3.1 2.el7
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    That's all there is to it!
    This code was extracted from the Perl 5 core at perl 5.15.5.

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1.846 systemd 219 67.el7_7.1

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J. M. G. Elliott
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1.851 zlib 1.1.4

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 * version 1.2.11, January 15th, 2017
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 */

1.852 boost 1.43.0

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@end group
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@c Local Variables:
@c ispell-local-pdict: "ispell-dict"
@c End:

## 1.870 perl-exporter 5.68
### 1.870.1 Available under license :

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```perl
abstract: 'Implements default import method for modules'
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 2.120921'
license: perl
meta-spec:
  url: http://module-build.sourceforge.net/META-spec-v1.4.html
  version: 1.4
name: Exporter
no_index:
directory:
  - t
  - inc
recommends:
  Test::Pod: 1.18
  Test::Pod::Coverage: 1.04
requires:
  Carp: 1.05
resources:
  bugtracker: http://rt.perl.org/perlbug/
```
Exporter - Implements default import method for modules

In module F<YourModule.pm>:

package YourModule;
require Exporter;
@ISA = qw(Exporter);
@EXPORT_OK = qw(munge frobnicate);  # symbols to export on request

or

package YourModule;
use Exporter 'import'; # gives you Exporter's import() method directly
@EXPORT_OK = qw(munge frobnicate);  # symbols to export on request

In other files which wish to use C<YourModule>:

use YourModule qw(frobnicate);      # import listed symbols
frobnicate ($left, $right)          # calls YourModule::frobnicate

Take a look at L</Good Practices> for some variants
you will like to use in modern Perl code.

The Exporter module implements an C<import> method which allows a module
to export functions and variables to its users' namespaces. Many modules
use Exporter rather than implementing their own C<import> method because Exporter provides a highly flexible interface, with an implementation optimised for the common case.

Perl automatically calls the C<import> method when processing a C<use> statement for a module. Modules and C<use> are documented in L<perlfunc> and L<perlmod>. Understanding the concept of modules and how the C<use> statement operates is important to understanding the Exporter.

=head2 How to Export

The arrays C<@EXPORT> and C<@EXPORT_OK> in a module hold lists of symbols that are going to be exported into the users name space by default, or which they can request to be exported, respectively. The symbols can represent functions, scalars, arrays, hashes, or typeglobs. The symbols must be given by full name with the exception that the ampersand in front of a function is optional, e.g.

```perl
@EXPORT    = qw(afunc $scalar @array);   # afunc is a function
@EXPORT_OK = qw(&bfunc %hash *typeglob); # explicit prefix on &bfunc
```

If you are only exporting function names it is recommended to omit the ampersand, as the implementation is faster this way.

=head2 Selecting What to Export

Do B<not> export method names!

Do B<not> export anything else by default without a good reason!

Exports pollute the namespace of the module user. If you must export try to use C<@EXPORT_OK> in preference to C<@EXPORT> and avoid short or common symbol names to reduce the risk of name clashes.

Generally anything not exported is still accessible from outside the module using the C<YourModule::item_name> (or C<< $blessed_ref->method >>) syntax. By convention you can use a leading underscore on names to informally indicate that they are 'internal' and not for public use.

(It is actually possible to get private functions by saying:

```perl
my $subref = sub { ... };
$subref->(@args);      # Call it as a function
$obj->$subref(@args);  # Use it as a method
```

However if you use them for methods it is up to you to figure out how to make inheritance work.)
As a general rule, if the module is trying to be object oriented then export nothing. If it’s just a collection of functions then anything but use C<<@EXPORT>> with caution. For function and method names use barewords in preference to names prefixed with ampersands for the export lists.

Other module design guidelines can be found in L<perlmod>.

=head2 How to Import

In other files which wish to use your module there are three basic ways for them to load your module and import its symbols:

=over 4
=item C<use YourModule;>

This imports all the symbols from YourModule's C<<@EXPORT>> into the namespace of the C<use> statement.

=item C<use YourModule ();>

This causes perl to load your module but does not import any symbols.

=item C<use YourModule qw(...);>

This imports only the symbols listed by the caller into their namespace. All listed symbols must be in your C<<@EXPORT>> or C<<@EXPORT_OK>>, else an error occurs. The advanced export features of Exporter are accessed like this, but with list entries that are syntactically distinct from symbol names.

=back

Unless you want to use its advanced features, this is probably all you need to know to use Exporter.

=head1 Advanced Features

=head2 Specialised Import Lists

If any of the entries in an import list begins with !, : or / then the list is treated as a series of specifications which either add to or delete from the list of names to import. They are processed left to right. Specifications are in the form:

[!]name This name only
[!]:DEFAULT All names in @EXPORT
Open Source Used In Cisco VSM 7.14.2  27418

[!]:tag         All names in $EXPORT_TAGS{tag} anonymous list
[!]/pattern/    All names in @EXPORT and @EXPORT_OK which match

A leading ! indicates that matching names should be deleted from the list of names to import. If the first specification is a deletion it is treated as though preceded by :DEFAULT. If you just want to import extra names in addition to the default set you will still need to include :DEFAULT explicitly.

e.g., F<Module.pm> defines:

    @EXPORT      = qw(A1 A2 A3 A4 A5);
    @EXPORT_OK   = qw(B1 B2 B3 B4 B5);
    %EXPORT_TAGS = (T1 => [qw(A1 A2 B1 B2)], T2 => [qw(A1 A2 B3 B4)]);

Note that you cannot use tags in @EXPORT or @EXPORT_OK.

Names in EXPORT_TAGS must also appear in @EXPORT or @EXPORT_OK.

An application using Module can say something like:

    use Module qw(:DEFAULT :T2 !B3 A3);

Other examples include:

    use Socket qw(!/^[AP]F_/ !SOMAXCONN !SOL_SOCKET);
    use POSIX  qw(:errno_h :termios_h !TCSADRAIN !/^EXIT/);

Remember that most patterns (using //) will need to be anchored with a leading ^, e.g., C</^EXIT/> rather than C</EXIT/>.

You can say C<BEGIN { $Exporter::Verbose=1 } to see how the specifications are being processed and what is actually being imported into modules.

=head2 Exporting Without Using Exporter's import Method

Exporter has a special method, 'export_to_level' which is used in situations where you can't directly call Exporter's import method. The export_to_level method looks like:

    MyPackage->export_to_level(
        $where_to_export, $package, @what_to_export
    );

where C<$where_to_export> is an integer telling how far up the calling stack to export your symbols, and C:@what_to_export> is an array telling what
symbols *to* export (usually this is C<@_>). The C<$package> argument is currently unused.

For example, suppose that you have a module, A, which already has an import function:

```perl
package A;

@ISA = qw(Exporter);
@EXPORT_OK = qw ($b);

sub import
{
    $A::b = 1;    # not a very useful import method
}
```

and you want to Export symbol C<$A::b> back to the module that called package A. Since Exporter relies on the import method to work, via inheritance, as it stands Exporter::import() will never get called. Instead, say the following:

```perl
package A;

@ISA = qw(Exporter);
@EXPORT_OK = qw ($b);

sub import
{
    $A::b = 1;
    A->export_to_level(1, @_);
}
```

This will export the symbols one level 'above' the current package - ie: to the program or module that used package A.

Note: Be careful not to modify C<@_> at all before you call export_to_level - or people using your package will get very unexplained results!

=head2 Exporting Without Inheriting from Exporter

By including Exporter in your C<@ISA> you inherit an Exporter's import() method but you also inherit several other helper methods which you probably don't want. To avoid this you can do

```perl
package YourModule;
use Exporter qw( import );
```

which will export Exporter's own import() method into YourModule. Everything will work as before but you won't need to include Exporter in
C<@YourModule::ISA>.

Note: This feature was introduced in version 5.57 of Exporter, released with perl 5.8.3.

=head2 Module Version Checking

The Exporter module will convert an attempt to import a number from a module into a call to C<< $module_name->VERSION($value) >>. This can be used to validate that the version of the module being used is greater than or equal to the required version.

For historical reasons, Exporter supplies a C<require_version> method that simply delegates to C<VERSION>. Originally, before C<UNIVERSAL::VERSION> existed, Exporter would call C<require_version>.

Since the C<UNIVERSAL::VERSION> method treats the C<$VERSION> number as a simple numeric value it will regard version 1.10 as lower than 1.9. For this reason it is strongly recommended that you use numbers with at least two decimal places, e.g., 1.09.

=head2 Managing Unknown Symbols

In some situations you may want to prevent certain symbols from being exported. Typically this applies to extensions which have functions or constants that may not exist on some systems.

The names of any symbols that cannot be exported should be listed in the C<@EXPORT_FAIL> array.

If a module attempts to import any of these symbols the Exporter will give the module an opportunity to handle the situation before generating an error. The Exporter will call an export_fail method with a list of the failed symbols:

```perl
@failed_symbols = $module_name->export_fail(@failed_symbols);
```

If the C<export_fail> method returns an empty list then no error is recorded and all the requested symbols are exported. If the returned list is not empty then an error is generated for each symbol and the export fails. The Exporter provides a default C<export_fail> method which simply returns the list unchanged.

Uses for the C<export_fail> method include giving better error messages for some symbols and performing lazy architectural checks (put more symbols into C<@EXPORT_FAIL> by default and then take them out if someone actually tries to use them and an expensive check shows that they are usable on that platform).
Tag Handling Utility Functions

Since the symbols listed within C<%EXPORT_TAGS> must also appear in either C<@EXPORT> or C<@EXPORT_OK>, two utility functions are provided which allow you to easily add tagged sets of symbols to C<@EXPORT> or C<@EXPORT_OK>:

%EXPORT_TAGS = (foo => [qw(aa bb cc)], bar => [qw(aa cc dd)]);

Exporter::export_tags('foo');     # add aa, bb and cc to @EXPORT
Exporter::export_ok_tags('bar');  # add aa, cc and dd to @EXPORT_OK

Any names which are not tags are added to C<@EXPORT> or C<@EXPORT_OK> unchanged but will trigger a warning (with C<-w>) to avoid misspelt tags names being silently added to C<@EXPORT> or C<@EXPORT_OK>. Future versions may make this a fatal error.

Generating Combined Tags

If several symbol categories exist in C<%EXPORT_TAGS>, it's usually useful to create the utility ":all" to simplify "use" statements.

The simplest way to do this is:

%EXPORT_TAGS = (foo => [qw(aa bb cc)], bar => [qw(aa cc dd)]);

# add all the other ":class" tags to the ":all" class,
# deleting duplicates
{
  my %seen;

  push @{$EXPORT_TAGS{all}},
      grep {!$seen{$_}++} @{$EXPORT_TAGS{$_}} foreach keys %EXPORT_TAGS;
}

F<CGI.pm> creates an ":all" tag which contains some (but not really all) of its categories. That could be done with one small change:

# add some of the other ":class" tags to the ":all" class,
# deleting duplicates
{
  my %seen;

  push @{$EXPORT_TAGS{all}},
      grep {!$seen{$_}++} @{$EXPORT_TAGS{$_}}
       foreach qw/html2 html3 netscape form cgi internal/;
}
Note that the tag names in `<%EXPORT_TAGS>` don't have the leading `:`.

=head2 `<AUTOLOAD>`ed Constants

Many modules make use of `<AUTOLOAD>`ing for constant subroutines to avoid having to compile and waste memory on rarely used values (see `L<perlsub>` for details on constant subroutines). Calls to such constant subroutines are not optimized away at compile time because they can't be checked at compile time for constancy.

Even if a prototype is available at compile time, the body of the subroutine is not (it hasn't been `<AUTOLOAD>`ed yet). `perl` needs to examine both the `<()` prototype and the body of a subroutine at compile time to detect that it can safely replace calls to that subroutine with the constant value.

A workaround for this is to call the constants once in a `<BEGIN>` block:

```perl
package My;

use Socket;

foo( SO_LINGER );  ## SO_LINGER NOT optimized away; called at runtime
BEGIN { SO_LINGER }
foo( SO_LINGER );  ## SO_LINGER optimized away at compile time.
```

This forces the `<AUTOLOAD>` for `<SO_LINGER>` to take place before `<SO_LINGER>` is encountered later in the `<My>` package.

If you are writing a package that `<AUTOLOAD>`s, consider forcing an `<AUTOLOAD>` for any constants explicitly imported by other packages or which are usually used when your package is `<use>`d.

=head1 Good Practices

=head2 Declaring `<@EXPORT_OK>` and Friends

When using `<Exporter>` with the standard `<strict>` and `<warnings>` pragmas, the `<our>` keyword is needed to declare the package variables `<@EXPORT_OK>`, `<@EXPORT>`, `<@ISA>`, etc.

```perl
our @ISA = qw(Exporter);
our @EXPORT_OK = qw(munge frobnicate);
```

If backward compatibility for Perls under 5.6 is important, one must write instead a `<use vars>` statement.
There are some caveats with the use of runtime statements like `require Exporter` and the assignment to package variables, which can be very subtle for the unaware programmer. This may happen for instance with mutually recursive modules, which are affected by the time the relevant constructions are executed.

The ideal (but a bit ugly) way to never have to think about that is to use `BEGIN` blocks. So the first part of the `<SYNOPSIS>` code could be rewritten as:

```perl
package YourModule;

use strict;
use warnings;
our (@ISA, @EXPORT_OK);
BEGIN {
    require Exporter;
    @ISA = qw(Exporter);
    @EXPORT_OK = qw(munge frobnicate);  # symbols to export on request
}
```

The `BEGIN` will assure that the loading of `Exporter.pm` and the assignments to `@ISA` and `@EXPORT_OK` happen immediately, leaving no room for something to get awry or just plain wrong.

With respect to loading `Exporter` and inheriting, there are alternatives with the use of modules like `base` and `parent`.

```perl
use base qw( Exporter );
# or
use parent qw( Exporter );
```

Any of these statements are nice replacements for `BEGIN { require Exporter; @ISA = qw(Exporter); }` with the same compile-time effect. The basic difference is that `base` code interacts with declared `fields` while `parent` is a streamlined version of the older `base` code to just establish the IS-A relationship.
For more details, see the documentation and code of L<base> and L<parent>.

Another thorough remedy to that runtime vs. compile-time trap is to use L<Exporter::Easy>, which is a wrapper of Exporter that allows all boilerplate code at a single gulp in the use statement.

    use Exporter::Easy (    
        OK => [ qw(munge frobnicate) ],  
    );
    # @ISA setup is automatic
    # all assignments happen at compile time

=head2 What Not to Export

You have been warned already in L</Selecting What to Export> to not export:

=over 4

=item *

method names (because you don't need to and that's likely to not do what you want),

=item *

anything by default (because you don't want to surprise your users... badly)

=item *

anything you don't need to (because less is more)

=back

There's one more item to add to this list. Do B<not> export variable names. Just because C<Exporter> lets you do that, it does not mean you should.

    @EXPORT_OK = qw( $svar @avar %hvar ); # DON'T!

Exporting variables is not a good idea. They can change under the hood, provoking horrible effects at-a-distance, that are too hard to track and to fix. Trust me: they are not worth it.
To provide the capability to set/get class-wide settings, it is best instead to provide accessors as subroutines or class methods instead.

=head1 SEE ALSO

C<Exporter> is definitely not the only module with symbol exporter capabilities. At CPAN, you may find a bunch of them. Some are lighter. Some provide improved APIs and features. Peek the one that fits your needs. The following is a sample list of such modules.

Exporter::Easy
Exporter::Lite
Exporter::Renaming
Exporter::Tidy
 Sub::Exporter / Sub::Installer
 Perl6::Export / Perl6::Export::Attrs

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NAME
  Exporter - Implements default import method for modules

SYNOPSIS
  In module YourModule.pm:

  package YourModule;
  require Exporter;
  @ISA = qw(Exporter);
  @EXPORT_OK = qw(munge frobnicate); # symbols to export on request

  or

  package YourModule;
  use Exporter 'import'; # gives you Exporter's import() method directly
@EXPORT_OK = qw(munge frobnicate);  # symbols to export on request

In other files which wish to use "YourModule":

use YourModule qw(frobnicate);      # import listed symbols
frobnicate ($left, $right)          # calls YourModule::frobnicate

Take a look at "Good Practices" for some variants you will like to use in modern Perl code.

DESCRIPTION
The Exporter module implements an "import" method which allows a module to export functions and variables to its users' namespaces. Many modules use Exporter rather than implementing their own "import" method because Exporter provides a highly flexible interface, with an implementation optimised for the common case.

Perl automatically calls the "import" method when processing a "use" statement for a module. Modules and "use" are documented in perlfunc and perlmod. Understanding the concept of modules and how the "use" statement operates is important to understanding the Exporter.

How to Export
The arrays @EXPORT and @EXPORT_OK in a module hold lists of symbols that are going to be exported into the users name space by default, or which they can request to be exported, respectively. The symbols can represent functions, scalars, arrays, hashes, or typeglobs. The symbols must be given by full name with the exception that the ampersand in front of a function is optional, e.g.

@EXPORT    = qw(afunc $scalar @array);   # afunc is a function
@EXPORT_OK = qw(&bfunc %hash *typeglob); # explicit prefix on &bfunc

If you are only exporting function names it is recommended to omit the ampersand, as the implementation is faster this way.

Selecting What To Export
Do not export method names!
Do not export anything else by default without a good reason!

Exports pollute the namespace of the module user. If you must export try to use @EXPORT_OK in preference to @EXPORT and avoid short or common symbol names to reduce the risk of name clashes.

Generally anything not exported is still accessible from outside the module using the "YourModule::item_name" (or "$blessed_ref->method") syntax. By convention you can use a leading underscore on names to
informally indicate that they are 'internal' and not for public use.

(It is actually possible to get private functions by saying:

```perl
my $subref = sub { ... };
$subref->(@args);        # Call it as a function
$obj->$subref(@args);    # Use it as a method
```

However if you use them for methods it is up to you to figure out how to make inheritance work.)

As a general rule, if the module is trying to be object oriented then export nothing. If it's just a collection of functions then @EXPORT_OK anything but use @EXPORT with caution. For function and method names use barewords in preference to names prefixed with ampersands for the export lists.

Other module design guidelines can be found in perlmod.

**How to Import**

In other files which wish to use your module there are three basic ways for them to load your module and import its symbols:

```
"use YourModule;"
This imports all the symbols from YourModule's @EXPORT into the namespace of the "use" statement.

"use YourModule ();"
This causes perl to load your module but does not import any symbols.

"use YourModule qw(...);"
This imports only the symbols listed by the caller into their namespace. All listed symbols must be in your @EXPORT or @EXPORT_OK, else an error occurs. The advanced export features of Exporter are accessed like this, but with list entries that are syntactically distinct from symbol names.

Unless you want to use its advanced features, this is probably all you need to know to use Exporter.

**Advanced features**

**Specialised Import Lists**

If any of the entries in an import list begins with !, : or / then the list is treated as a series of specifications which either add to or delete from the list of names to import. They are processed left to right. Specifications are in the form:
A leading ! indicates that matching names should be deleted from the list of names to import. If the first specification is a deletion it is treated as though preceded by :DEFAULT. If you just want to import extra names in addition to the default set you will still need to include :DEFAULT explicitly.

E.g., Module.pm defines:

```perl
@EXPORT = qw(A1 A2 A3 A4 A5);
@EXPORT_OK = qw(B1 B2 B3 B4 B5);
%EXPORT_TAGS = (T1 => [qw(A1 A2 B1 B2)], T2 => [qw(A1 A2 B3 B4)]);
```

Note that you cannot use tags in @EXPORT or @EXPORT_OK. Names in EXPORT_TAGS must also appear in @EXPORT or @EXPORT_OK.

An application using Module can say something like:

```perl
use Module qw(:DEFAULT :T2 !B3 A3);
```

Other examples include:

```perl
use Socket qw(!/^\[AP\]F_/ !SOMAXCONN !SOL_SOCKET);
use POSIX qw(:errno_h :termios_h !TCSADRAIN !/^EXIT/);
```

Remember that most patterns (using //) will need to be anchored with a leading ^, e.g., "/^EXIT/" rather than "/^EXIT/".

You can say "BEGIN { $Exporter::Verbose=1 }" to see how the specifications are being processed and what is actually being imported into modules.

Exporting without using Exporter's import method

Exporter has a special method, 'export_to_level' which is used in situations where you can't directly call Exporter's import method. The export_to_level method looks like:

```perl
MyPackage->export_to_level($where_to_export, $package, @what_to_export);
```

where $where_to_export is an integer telling how far up the calling stack to export your symbols, and @what_to_export is an array telling what symbols *to* export (usually this is @_). The $package argument is currently unused.
For example, suppose that you have a module, A, which already has an import function:

```perl
package A;

@ISA = qw(Exporter);
@EXPORT_OK = qw ($b);

sub import
{
    $A::b = 1;     # not a very useful import method
}
```

and you want to Export symbol $A::b back to the module that called package A. Since Exporter relies on the import method to work, via inheritance, as it stands Exporter::import() will never get called. Instead, say the following:

```perl
package A;
@ISA = qw(Exporter);
@EXPORT_OK = qw ($b);

sub import
{
    $A::b = 1;
    A->export_to_level(1, @_);
}
```

This will export the symbols one level 'above' the current package - ie: to the program or module that used package A.

Note: Be careful not to modify @_ at all before you call export_to_level - or people using your package will get very unexplained results!

Exporting without inheriting from Exporter

By including Exporter in your @ISA you inherit an Exporter's import() method but you also inherit several other helper methods which you probably don't want. To avoid this you can do

```perl
package YourModule;
use Exporter qw( import );
```

which will export Exporter's own import() method into YourModule. Everything will work as before but you won't need to include Exporter in @YourModule::ISA.

Note: This feature was introduced in version 5.57 of Exporter, released with perl 5.8.3.
Module Version Checking
The Exporter module will convert an attempt to import a number from a module into a call to "$module_name->require_version($value)". This can be used to validate that the version of the module being used is greater than or equal to the required version.

The Exporter module supplies a default "require_version" method which checks the value of $VERSION in the exporting module.

Since the default "require_version" method treats the $VERSION number as a simple numeric value it will regard version 1.10 as lower than 1.9. For this reason it is strongly recommended that you use numbers with at least two decimal places, e.g., 1.09.

Managing Unknown Symbols
In some situations you may want to prevent certain symbols from being exported. Typically this applies to extensions which have functions or constants that may not exist on some systems.

The names of any symbols that cannot be exported should be listed in the @EXPORT_FAIL array.

If a module attempts to import any of these symbols the Exporter will give the module an opportunity to handle the situation before generating an error. The Exporter will call an export_fail method with a list of the failed symbols:

   @failed_symbols = $module_name->export_fail(@failed_symbols);

If the "export_fail" method returns an empty list then no error is recorded and all the requested symbols are exported. If the returned list is not empty then an error is generated for each symbol and the export fails. The Exporter provides a default "export_fail" method which simply returns the list unchanged.

Uses for the "export_fail" method include giving better error messages for some symbols and performing lazy architectural checks (put more symbols into @EXPORT_FAIL by default and then take them out if someone actually tries to use them and an expensive check shows that they are usable on that platform).

Tag Handling Utility Functions
Since the symbols listed within %EXPORT_TAGS must also appear in either @EXPORT or @EXPORT_OK, two utility functions are provided which allow you to easily add tagged sets of symbols to @EXPORT or @EXPORT_OK:

   %EXPORT_TAGS = (foo => [qw(aa bb cc)], bar => [qw(aa cc dd)]);
Exporter::export_tags('foo');  # add aa, bb and cc to @EXPORT
Exporter::export_ok_tags('bar');  # add aa, cc and dd to @EXPORT_OK

Any names which are not tags are added to @EXPORT or @EXPORT_OK
unchanged but will trigger a warning (with "-w") to avoid misspelt tags
names being silently added to @EXPORT or @EXPORT_OK. Future versions may
make this a fatal error.

Generating combined tags
If several symbol categories exist in %EXPORT_TAGS, it's usually useful
to create the utility ":all" to simplify "use" statements.

The simplest way to do this is:

%EXPORT_TAGS = (foo => [qw(aa bb cc)], bar => [qw(aa cc dd)]);

# add all the other ":class" tags to the ":all" class,
# deleting duplicates
{
  my %seen;

  push @{$EXPORT_TAGS{all}},
  grep {!$seen{$_}++} @{$EXPORT_TAGS{$_}} foreach keys %EXPORT_TAGS;
}

CGI.pm creates an ":all" tag which contains some (but not really all) of
its categories. That could be done with one small change:

# add some of the other ":class" tags to the ":all" class,
# deleting duplicates
{
  my %seen;

  push @{$EXPORT_TAGS{all}},
  grep {!$seen{$_}++} @{$EXPORT_TAGS{$_}}
  foreach qw/html2 html3 netscape form cgi internal/;
}

Note that the tag names in %EXPORT_TAGS don't have the leading ":".

"AUTOLOAD"ed Constants
Many modules make use of "AUTOLOAD"ing for constant subroutines to avoid
having to compile and waste memory on rarely used values (see perlsub
for details on constant subroutines). Calls to such constant subroutines
are not optimized away at compile time because they can't be checked at
compile time for constancy.
Even if a prototype is available at compile time, the body of the subroutine is not (it hasn't been "AUTOLOAD"ed yet). perl needs to examine both the "()" prototype and the body of a subroutine at compile time to detect that it can safely replace calls to that subroutine with the constant value.

A workaround for this is to call the constants once in a "BEGIN" block:

```perl
package My;

use Socket;

foo( SO_LINGER );  ## SO_LINGER NOT optimized away; called at runtime
BEGIN { SO_LINGER }
foo( SO_LINGER );  ## SO_LINGER optimized away at compile time.
```

This forces the "AUTOLOAD" for "SO_LINGER" to take place before SO_LINGER is encountered later in "My" package.

If you are writing a package that "AUTOLOAD"s, consider forcing an "AUTOLOAD" for any constants explicitly imported by other packages or which are usually used when your package is "use"d.

**Good Practices**

**Declaring @EXPORT_OK and Friends**

When using "Exporter" with the standard "strict" and "warnings" pragmas, the "our" keyword is needed to declare the package variables @EXPORT_OK, @EXPORT, @ISA, etc.

```perl
our @ISA = qw(Exporter);
our @EXPORT_OK = qw(munge frobnicate);
```

If backward compatibility for Perls under 5.6 is important, one must write instead a "use vars" statement.

```perl
use vars qw(@ISA @EXPORT_OK);
@ISA = qw(Exporter);
@EXPORT_OK = qw(munge frobnicate);
```

**Playing Safe**

There are some caveats with the use of runtime statements like "require Exporter" and the assignment to package variables, which can very subtle for the unaware programmer. This may happen for instance with mutually recursive modules, which are affected by the time the relevant constructions are executed.

The ideal (but a bit ugly) way to never have to think about that is to use "BEGIN" blocks. So the first part of the "SYNOPSIS" code could be
package YourModule;

use strict;
use warnings;

our (@ISA, @EXPORT_OK);
BEGIN {
    require Exporter;
    @ISA = qw(Exporter);
    @EXPORT_OK = qw(munge frobnicate);  # symbols to export on request
}

The "BEGIN" will assure that the loading of Exporter.pm and the assignments to @ISA and @EXPORT_OK happen immediately, leaving no room for something to get awry or just plain wrong.

With respect to loading "Exporter" and inheriting, there are alternatives with the use of modules like "base" and "parent".

use base qw( Exporter );
# or
use parent qw( Exporter );

Any of these statements are nice replacements for "BEGIN { require Exporter; @ISA = qw(Exporter); }" with the same compile-time effect. The basic difference is that "base" code interacts with declared "fields" while "parent" is a streamlined version of the older "base" code to just establish the IS-A relationship.

For more details, see the documentation and code of base and parent.

Another thorough remedy to that runtime vs. compile-time trap is to use Exporter::Easy, which is a wrapper of Exporter that allows all boilerplate code at a single gulp in the use statement.

use Exporter::Easy (
    OK => [ qw(munge frobnicate) ],
);  # @ISA setup is automatic
# all assignments happen at compile time

What not to Export
You have been warned already in "Selecting What To Export" to not export:

* method names (because you don't need to and that's likely to not do
what you want),

* anything by default (because you don't want to surprise your users... badly)

* anything you don't need to (because less is more)

There's one more item to add to this list. Do not export variable names. Just because "Exporter" lets you do that, it does not mean you should.

```
@EXPORT_OK = qw( $svar @avar %hvar ); # DON'T!
```

Exporting variables is not a good idea. They can change under the hood, provoking horrible effects at-a-distance, that are too hard to track and to fix. Trust me: they are not worth it.

To provide the capability to set/get class-wide settings, it is best instead to provide accessors as subroutines or class methods instead.

SEE ALSO
"Exporter" is definitely not the only module with symbol exporter capabilities. At CPAN, you may find a bunch of them. Some are lighter. Some provide improved APIs and features. Peek the one that fits your needs. The following is a sample list of such modules.

- Exporter::Easy
- Exporter::Lite
- Exporter::Renaming
- Exporter::Tidy
- Sub::Exporter / Sub::Installer
- Perl6::Export / Perl6::Export::Attrs

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