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```
#!/usr/bin/env python
from subprocess import check_output as run
from datetime import datetime
from itertools import groupby
from operator import itemgetter
import re
import magic

def authors(filename):
    log = run(['git', 'log', '--follow',
              '--date=short', '--format=%aN%x09%ad', filename],
              universal_newlines=True)
    for line in log.splitlines():
        author, date = line.split('\t')
        if author != 'fix-copyright.py':
            yield author, datetime.strptime(date, '%Y-%m-%d')

def new_copyright(filename, previous):
    def f():
```

```

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

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

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

def all_files():

```

```

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

for f in all_files():
    fix_copyright(f)
////////////////////////////////////
//
// (C) Copyright Ion Gaztanaga    2006-2014
// (C) Copyright Microsoft Corporation 2014
//
// Distributed under the Boost Software License, Version 1.0.
// (See accompanying file LICENSE_1_0.txt or copy at
// http://www.boost.org/LICENSE_1_0.txt)
//
// See http://www.boost.org/libs/intrusive for documentation.
//
////////////////////////////////////

#ifndef BOOST_INTRUSIVE_DETAIL_MPL_HPP
#define BOOST_INTRUSIVE_DETAIL_MPL_HPP

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

#if defined(BOOST_HAS_PRAGMA_ONCE)
# pragma once
#endif

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

namespace boost {
namespace intrusive {
namespace detail {

using boost::move_detail::is_same;
using boost::move_detail::add_const;
using boost::move_detail::remove_const;
using boost::move_detail::remove_cv;
using
    boost::move_detail::remove_reference;
using boost::move_detail::add_reference;
using boost::move_detail::remove_pointer;
using boost::move_detail::add_pointer;

```

```

using boost::move_detail::true_type;
using boost::move_detail::false_type;
using boost::move_detail::enable_if_c;
using boost::move_detail::enable_if;
using boost::move_detail::disable_if_c;
using boost::move_detail::disable_if;
using boost::move_detail::is_convertible;
using boost::move_detail::if_c;
using boost::move_detail::if_;
using boost::move_detail::is_const;
using boost::move_detail::identity;
using boost::move_detail::alignment_of;
using boost::move_detail::is_empty;
using boost::move_detail::addressof;
using boost::move_detail::integral_constant;
using boost::move_detail::enable_if_convertible;
using boost::move_detail::disable_if_convertible;
using boost::move_detail::bool_;
using boost::move_detail::true_;
using boost::move_detail::false_;
using boost::move_detail::yes_type;
using boost::move_detail::no_type;
using
    boost::move_detail::apply;
using boost::move_detail::eval_if_c;
using boost::move_detail::eval_if;
using boost::move_detail::unvoid_ref;
using boost::move_detail::add_const_if_c;

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

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

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

// Infrastructure for providing a default type for T::TNAME if absent.

```

```

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

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

#define BOOST_INTRUSIVE_INSTANTIATE_EVAL_DEFAULT_TYPE_TMPLT(TNAME)\
template <typename T, typename DefaultType> \
struct boost_intrusive_eval_default_type_ ## TNAME \
{ \
    \
    template <typename X> \
    static char test(int, typename X::TNAME*); \
\
    \
\
    template <typename X> \
    static int test(...); \
\
\
    struct DefaultWrap \
    { typedef typename DefaultType::type TNAME; }; \
\
\
    static const bool value \
= (1 == sizeof(test<T>(0, 0))); \
\
\
    typedef typename \
        ::boost::intrusive::detail::eval_if_c \
        < value \
        , ::boost::intrusive::detail::identity<T> \

```



```

        , ::boost::intrusive::detail::identity<DefaultWrap> \
        >::type::TNAME type; \
    }; \
//

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

#define BOOST_INTRUSIVE_INTERNAL_STATIC_BOOL_IS_TRUE(TRAITS_PREFIX,
TYPEDEF_TO_FIND) \
template <class T>\
struct TRAITS_PREFIX##_bool\
{\
    template<bool Add>\
    struct two_or_three {yes_type _[2 + Add];};\
    template <class U> static yes_type test(...);\
    template <class U> static two_or_three<U::TYPEDEF_TO_FIND> test (int);\
    static const std::size_t value = sizeof(test<T>(0));\
};\
\
template <class T>\
struct TRAITS_PREFIX##_bool_is_true\
{\
    static const bool value = TRAITS_PREFIX##_bool<T>::value > sizeof(yes_type)*2;\
};\
//

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

#define BOOST_INTRUSIVE_HAS_MEMBER_FUNC_CALLED(TRAITS_NAME,
FUNC_NAME) \
template <typename Type> \

```

```

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

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

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

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

#endif //BOOST_INTRUSIVE_DETAIL_MPL_HPP
[article Invalid copyright
[quickbook 1.5]
[copyright No year]
]

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

<!-- Copyright (c) 2001-2006 CrystalClear Software, Inc.
    Subject to the Boost Software License, Version 1.0.
    (See accompanying file LICENSE_1_0.txt or http://www.boost.org/LICENSE\_1\_0.txt)
-->

<section id="date_time.license">
<title>Boost Date-Time Library License</title>

```

<bridgehead renderas="sect2">Boost Date-Time Library License</bridgehead>

<!--

<ulink url="../../index.htm">

<imagedata align="left"

format="GIF"

fileref="../../boost.png"

alt="C++ Boost" />

</ulink>-->

<!--hr /-->

<para>

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<!--hr / -->

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--- end ---

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This is an attempt to acknowledge early contributions to the garbage collector. Later contributions should instead be mentioned in README.changes.

HISTORY -

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

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

Some other contributors:

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

The SPARC specific code was originally contributed by Mark Weiser.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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=====

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```
<?xml version="1.0" encoding="UTF-8"?>
<!DOCTYPE article PUBLIC "-//Boost//DTD BoostBook XML V1.0//EN"
"http://www.boost.org/tools/boostbook/dtd/boostbook.dtd">
<article id="copyright_test" last-revision="DEBUG MODE Date: 2000/12/20 12:00:00 $"
xmlns:xi="http://www.w3.org/2001/XInclude">
  <title>Copyright Test</title>
```



```

<articleinfo>
  <copyright>
    <year>1963</year> <year>1964</year> <year>1965</year> <holder>Jane Doe</holder>
  </copyright>
  <copyright>
    <year>2018</year> <holder>Joe Blow, John Coe</holder>
  </copyright>
  <copyright>
    <year>1977</year> <year>1985</year> <holder>Someone else</holder>
  </copyright>
</articleinfo>
</article>

```

```

=====
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Copyright (c) 2009-2011 Mateusz Loskot, London, UK.

```

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```

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```

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[article Invalid copyright years

[quickbook 1.5]

[copyright 2010-2001 Timequake man]

]

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Wed, 17 July 2002, 19:27:00 +0400.

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```
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```

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```
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```

[section:mpl MPL Interoperability]

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

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

[endsect]

```
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```

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```
]
<html>
<head>
<meta http-equiv="Content-Type" content="text/html; charset=US-ASCII">
<title>MPL Interoperability</title>
<link rel="stylesheet" href="../../doc/src/boostbook.css" type="text/css">
<meta name="generator" content="DocBook XSL Stylesheets V1.79.1">
<link rel="home" href="../../index.html" title="Chapter&#160;1.&#160;Boost.TypeTraits">
<link rel="up" href="../../index.html" title="Chapter&#160;1.&#160;Boost.TypeTraits">
<link rel="prev" href="intrinsic.html" title="Support for Compiler Intrinsics">
<link rel="next" href="examples.html" title="Examples">
</head>
<body bgcolor="white" text="black" link="#0000FF" vlink="#840084" alink="#0000FF">
<table cellpadding="2" width="100%"><tr>
<td valign="top"></td>
<td align="center"><a href="../../index.html">Home</a></td>
<td align="center"><a href="../../libs/libraries.htm">Libraries</a></td>
<td align="center"><a href="http://www.boost.org/users/people.html">People</a></td>
<td align="center"><a href="http://www.boost.org/users/faq.html">FAQ</a></td>
<td align="center"><a href="../../more/index.htm">More</a></td>
</tr></table>
<hr>
<div class="spirit-nav">
<a accesskey="p" href="intrinsic.html"></a><a
accesskey="u" href="../../index.html"></a><a accesskey="h"
href="../../index.html"></a><a accesskey="n"
href="examples.html"></a>
</div>
<div class="section">
<div class="titlepage"><div><div><h2 class="title" style="clear: both">
<a name="boost_ttypetraits.mpl"></a><a class="link" href="mpl.html" title="MPL Interoperability">MPL
Interoperability</a>
</h2></div></div></div>
<p>
All the value based traits in this library conform to MPL's requirements for
an <a
href="../../libs/mpl/doc/refmanual/integral-constant.html" target="_top">Integral
Constant type</a>.
</p>
<p>
Please note that these types no longer inherit from <code class="computeroutput"><span
class="identifier">mpl</span><span class="special">::</span><span class="identifier">true_</span></code> or
<code class="computeroutput"><span class="identifier">mpl</span><span class="special">::</span><span class="identifier">false_</span></code> etc, and the library will no longer
implicitly include any MPL header. However there is an implicit conversion
```

```

from <code class="computeroutput"><span class="identifier">integral_constant</span></code> to the
corresponding MPL types, therefore tag-dispatching that uses MPL types in function
overloads will still work as before.
</p>
</div>
<table xmlns:rev="http://www.cs.rpi.edu/~gregod/boost/tools/doc/revision" width="100%"><tr>
<td align="left"></td>
<td align="right"><div class="copyright-footer">Copyright
&#169; 2000, 2011 Adobe Systems Inc, David Abrahams,
Frederic Bron, Steve Cleary, Beman Dawes, Aleksey Gurtovoy, Howard Hinnant,
Jesse Jones, Mat Marcus, Itay Maman, John Maddock, Alexander Nasonov, Thorsten
Ottosen, Roman Perepelitsa, Robert Ramey, Jeremy Siek, Robert Stewart and Steven
Watanabe<p>
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target="_top">http://www.boost.org/LICENSE_1_0.txt</a>)
</p>
</div></td>
</tr></table>
<hr>
<div class="spirit-nav">
<a accesskey="p" href="intrinsics.html"></a><a
accesskey="u" href="../index.html"></a><a accesskey="h"
href="../index.html"></a><a accesskey="n"
href="examples.html"></a>
</div>
</body>
</html>
[article Copyright Test
[quickbook 1.5]
[copyright 1963-1965 Jane Doe, 2018 Joe Blow, John Coe]
[copyright 1977,1985 Someone else]
]
var group__group_ext_mpl =
[
[ "integral_c", "structboost_1_1mpl_1_1integral__c.html", null ],
[ "list", "structboost_1_1mpl_1_1list.html", null ],
[ "vector", "structboost_1_1mpl_1_1vector.html", null ]
];
<!--
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-->
<!-- boost-no-inspect -->
<!-- HTML header for doxygen 1.8.9.1-->
<!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/xhtml;charset=UTF-8"/>
<meta http-equiv="X-UA-Compatible" content="IE=9"/>
<meta name="generator" content="Doxygen 1.8.11"/>
<title>Boost.Hana: Boost.MPL adapters</title>
<link href="tabs.css" rel="stylesheet" type="text/css"/>
<script type="text/javascript" src="jquery.js"></script>
<script type="text/javascript" src="dynsections.js"></script>
<link href="navtree.css" rel="stylesheet" type="text/css"/>
<script type="text/javascript" src="resize.js"></script>
<script type="text/javascript" src="navtreedata.js"></script>
<script type="text/javascript"
src="navtree.js"></script>
<script type="text/javascript">
$(document).ready(initResizable);
$(window).load(resizeHeight);
</script>
<link href="search/search.css" rel="stylesheet" type="text/css"/>
<script type="text/javascript" src="search/searchdata.js"></script>
<script type="text/javascript" src="search/search.js"></script>
<script type="text/javascript">
$(document).ready(function() { init_search(); });
</script>
<script type="text/x-mathjax-config">
MathJax.Hub.Config({
  extensions: ["tex2jax.js"],
  jax: ["input/TeX", "output/HTML-CSS"],
});
// Copyright Louis Dionne 2013-2017
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MathJax.Hub.Config({
  "HTML-CSS": {
    linebreaks: {
      automatic: true,
      width: "75% container"
    }
  }
});
</script><script type="text/javascript" src="https://cdn.mathjax.org/mathjax/latest/MathJax.js"></script>
<link
href="doxygen.css" rel="stylesheet" type="text/css" />
<!-- Additional javascript for drawing charts. -->
<script type="text/javascript" src="highcharts.js"></script>
<script type="text/javascript" src="highcharts-data.js"></script>
<script type="text/javascript" src="highcharts-exporting.js"></script>

```

```

<script type="text/javascript" src="chart.js"></script>
<script type="text/javascript" src="hana.js"></script>
</head>
<body>
<div id="top"><!-- do not remove this div, it is closed by doxygen! -->
<div id="titlearea">
<table cellspacing="0" cellpadding="0">
<tbody>
<tr style="height: 56px;">
<td id="projectlogo"></td>
<td style="padding-left: 0.5em;">
<div id="projectname">Boost.Hana
&#160;<span id="projectnumber">1.2.0</span>
</div>
<div id="projectbrief">Your standard library for metaprogramming</div>
</td>
<td>
<div id="MSearchBox" class="MSearchBoxInactive">
<span class="left">


<input type="text" id="MSearchField" value="Search" accesskey="S"
onfocus="searchBox.OnSearchFieldFocus(true)"
onblur="searchBox.OnSearchFieldFocus(false)"
onkeyup="searchBox.OnSearchFieldChange(event)"/>
</span><span class="right">
<a id="MSearchClose" href="javascript:searchBox.CloseResultsWindow()"></a>
</span>
</div>
</td>
</tr>
</tbody>
</table>
</div>
<!-- end header part -->
<!-- Generated by Doxygen 1.8.11 -->
<script type="text/javascript">
var searchBox = new SearchBox("searchBox", "search",false,'Search');
</script>
</div><!-- top -->
<div id="side-nav" class="ui-resizable side-nav-resizable">
<div id="nav-tree">
<div id="nav-tree-contents">
<div id="nav-sync" class="sync"></div>
</div>

```



```

</div>
<div id="splitbar" style="-moz-user-select:none;"
    class="ui-resizable-handle">
</div>
</div>
<script type="text/javascript">
$(document).ready(function(){initNavTree('group__group-ext-mpl.html','');});
</script>
<div id="doc-content">
<!-- window showing the filter options -->
<div id="MSearchSelectWindow"
    onmouseover="return searchBox.OnSearchSelectShow()"
    onmouseout="return searchBox.OnSearchSelectHide()"
    onkeydown="return searchBox.OnSearchSelectKey(event)">
</div>

<!-- iframe showing the search results (closed by default) -->
<div id="MSearchResultsWindow">
<iframe src="javascript:void(0)" frameborder="0"
    name="MSearchResults" id="MSearchResults">
</iframe>
</div>

<div class="header">
<div class="summary">
<a href="#nested-classes">Classes</a> </div>
<div class="headertitle">
<div class="title">Boost.MPL adapters<div class="ingroups"><a
class="el" href="group__group-ext.html">External adapters</a></div></div> </div>
</div><!--header-->
<div class="contents">
<a name="details" id="details"></a><h2 class="groupheader">Description</h2>
<p>Adapters for Boost.MPL containers. </p>
<table class="memberdecls">
<tr class="heading"><td colspan="2"><h2 class="groupheader"><a name="nested-classes"></a>
Classes</h2></td></tr>
<tr class="memitem:"><td class="memItemLeft" align="right" valign="top">struct &#160;</td><td
class="memItemRight" valign="bottom"><a class="el"
href="structboost_1_1mpl_1_1integral__c.html">boost::mpl::integral_c< T, v ></a></td></tr>
<tr class="memdesc:"><td class="mdescLeft">&#160;</td><td class="mdescRight">Adapter for IntegralConstants
from the Boost.MPL. <a href="structboost_1_1mpl_1_1integral__c.html#details">More...</a><br /></td></tr>
<tr class="separator:"><td colspan="2" class="memSeparator" colspan="2">&#160;</td></tr>
<tr class="memitem:"><td class="memItemLeft" align="right" valign="top">struct &#160;</td><td
class="memItemRight" valign="bottom"><a class="el" href="structboost_1_1mpl_1_1list.html">boost::mpl::list<
T ></a></td></tr>
<tr class="memdesc:"><td class="mdescLeft">&#160;</td><td class="mdescRight">Adapter for Boost.MPL lists.
<a href="structboost_1_1mpl_1_1list.html#details">More...</a><br /></td></tr>
<tr class="separator:"><td colspan="2" class="memSeparator" colspan="2">&#160;</td></tr>

```

```

<tr class="memitem:"><td class="memItemLeft" align="right" valign="top">struct &#160;</td><td
class="memItemRight" valign="bottom"><a class="el"
href="structboost_1_1mpl_1_1vector.html">boost::mpl::vector< T ></a></td></tr>
<tr class="memdesc:"><td class="mdescLeft">&#160;</td><td class="mdescRight">Adapter for Boost.MPL
vectors. <a href="structboost_1_1mpl_1_1vector.html#details">More...</a><br /></td></tr>
<tr class="separator:"><td class="memSeparator" colspan="2">&#160;</td></tr>
</table>
</div><!-- contents -->
</div><!-- doc-content -->
<!--
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(See accompanying file LICENSE.md or copy at http://boost.org/LICENSE_1_0.txt)
-->
<!-- boost-no-inspect -->
<!-- HTML footer for doxygen 1.8.9.1-->
<!-- start footer part -->
<div id="nav-path" class="navpath"><!-- id is needed for treeview function! -->
<ul>
</ul>
</div>
</body>
</html>
/*
*
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* LICENSE_1_0.txt or copy at http://www.boost.org/LICENSE_1_0.txt)
*
*/

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

//
// split_path is a small helper for outputting a path name,
// complete with a link to that path:
//

```

```

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

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

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

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

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

    std::ofstream os(m_dest_path.string().c_str());
    if(!os)
    {
        std::string msg("Error opening ");
        msg += m_dest_path.string();
        msg += " for output.";
        std::runtime_error e(msg);
        boost::throw_exception(e);
    }
    os <<

```

```

"<!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 4.0 Transitional//EN">\n"
"<html>\n"
"<head>\n"
"<title>Boost Licence Dependency Information";
if(m_module_list.size() == 1)
{
    os << " for " << *(m_module_list.begin());
}
os <<
    "</title>\n"
    "</head>\n"
    "<body>\n"
    "<H1>Boost Licence Dependency Information";
if(m_module_list.size() == 1)
{
    os << " for " << *(m_module_list.begin());
}
os <<
    "</H1>\n"
    "<H2>Contents</h2>\n"
    "<pre><a href=\"#input\">Input Information</a>\n";
if(!m_bsl_summary_mode)
    os << "<a href=\"#summary\">Licence Summary</a>\n";
os << "<a href=\"#details\">Licence Details</a>\n";

while(i != j)
{
    // title:
    os << "  <A href=\"#\" << make_link_target(licenses.first[i->first].license_name)
        << "\">" << licenses.first[i->first].license_name << "</a>\n";
    ++i;
}

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

```

```

"</pre>";

//
// input Information:
//
os << "<a name=\"input\"></a><h2>Input Information</h2>\n";
if(m_scan_mode)
    os << "<P>The following files were scanned for boost dependencies:<BR>";
else
    os << "<P>The following Boost modules were checked:<BR>";

std::list<std::string>::const_iterator si = m_module_list.begin();
std::list<std::string>::const_iterator sj = m_module_list.end();
while(si != sj)
{
    os
    << *si << "<BR>";
    ++si;
}
os << "</p><p>The Boost path was: <code>" << m_boost_path.string() << "</code></P>";
//
// extract the boost version number from the boost directory tree,
// not from this app (which may have been built from a previous
// version):
//
fileview version_file(m_boost_path / "boost/version.hpp");
static const boost::regex version_regex(
    "^[:blank:]*#[[:blank:]]*define[:blank:]]+BOOST_VERSION[:blank:]]+(\\d+)");
boost::cmatch what;
if(boost::regex_search(version_file.begin(), version_file.end(), what, version_regex))
{
    int version = boost::lexical_cast<int>(what.str(1));
    os << "<p>The Boost version is: " << version / 100000 << "." << version / 100 % 1000 << "." << version % 100
    << "</P>\n";
}

//
// output each license:
//
i = m_license_data.begin();
j = m_license_data.end();
if(!m_bsl_summary_mode)
{
    //
    // start with the summary:
    //
    os << "<a name=\"summary\"></a><h2>Licence

```

```

Summary</h2>\n";
while(i != j)
{
    // title:
    os <<
        "<H3>" << licenses.first[i->first].license_name << "</H3>\n";
    // license text:
    os << "<BLOCKQUOTE>" << licenses.first[i->first].license_text << "</BLOCKQUOTE>";
    // Copyright holders:
    os << "<P>This license is used by " << i->second.authors.size()
        << " authors and " << i->second.files.size()
        << " files <a href=\"#" << make_link_target(licenses.first[i->first].license_name) << "\">(see details)</a>";
    os << "</P></BLOCKQUOTE>\n";
    ++i;
}
}
//
// and now the details:
//
i = m_license_data.begin();
j = m_license_data.end();
int license_index = 0;
os << "<a name=\"details\"></a><h2>Licence Details</h2>\n";
while(i != j)
{
    // title:
    os <<
        "<H3><A name=\"\" << make_link_target(licenses.first[i->first].license_name)
        << "\"></a>" << licenses.first[i->first].license_name
<< "</H3>\n";
    // license text:
    os << "<BLOCKQUOTE>" << licenses.first[i->first].license_text << "</BLOCKQUOTE>";
    if(!m_bsl_summary_mode || (license_index >= 3))
    {
        // Copyright holders:
        os << "<P>This license is used by the following " << i->second.authors.size() << " copyright
holders:</P>\n<BLOCKQUOTE><P>";
        std::set<std::string>::const_iterator x, y;
        x = i->second.authors.begin();
        y = i->second.authors.end();
        while(x != y)
        {
            os << *x << "<BR>\n";
            ++x;
        }
        os << "</P></BLOCKQUOTE>\n";
        // Files using this license:
        os << "<P>This license applies to the following " << i->second.files.size() << "

```

```

files:</P>\n<BLOCKQUOTE><P>";
    std::set<fs::path, path_less>::const_iterator m, n;
    m = i->second.files.begin();
    n = i->second.files.end();
    while(m != n)
    {
        os << split_path(m_boost_path,
*m) << "<br>\n";
        ++m;
    }
    os << "</P></BLOCKQUOTE>\n";
}
else
{
    os << "<P>This license is used by " << i->second.authors.size() << " authors (list omitted for brevity).</P>\n";
    os << "<P>This license applies to " << i->second.files.size() << " files (list omitted for brevity).</P>\n";
}
++license_index;
++i;
}
//
// Output list of files not found to be under license control:
//
os << "<h2><a name=\"files\"></a>Files With No Recognisable Licence</h2>\n"
    "<P>The following " << m_unknown_licenses.size() << " files had no recognisable license
information:</P><BLOCKQUOTE><P>\n";
std::set<fs::path, path_less>::const_iterator i2, j2;
i2 = m_unknown_licenses.begin();
j2 = m_unknown_licenses.end();
while(i2 != j2)
{
    os << split_path(m_boost_path, *i2) << "<br>\n";
    ++i2;
}
os << "</p></BLOCKQUOTE>";
//
// Output list of files with no found
copyright holder:
//
os << "<h2><a name=\"authors\"></a>Files With No Recognisable Copyright Holder</h2>\n"
    "<P>The following " << m_unknown_authors.size() << " files had no recognisable copyright
holder:</P>\n<BLOCKQUOTE><P>";
i2 = m_unknown_authors.begin();
j2 = m_unknown_authors.end();
while(i2 != j2)
{
    os << split_path(m_boost_path, *i2) << "<br>\n";
    ++i2;
}

```

```

}
os << "</p></BLOCKQUOTE>";
if(!m_bsl_summary_mode)
{
    //
    // Output list of files that have been moved over to the Boost
    // Software License, along with enough information for human
    // verification.
    //
    os << "<h2><a name=\"bsl-converted\"></a>Files that can be automatically converted to the Boost Software
License</h2>\n"
    << "<P>The following " << m_converted_to_bsl.size() << " files can be automatically converted to the Boost
Software License, but require manual verification before they can be committed to CVS:</P>\n";
    if (!m_converted_to_bsl.empty())

    {
        typedef std::map<fs::path, std::pair<std::string, std::string>, path_less>
            ::const_iterator conv_iterator;
        conv_iterator i = m_converted_to_bsl.begin(),
            ie = m_converted_to_bsl.end();
        int file_num = 1;
        while (i != ie)
        {
            os << "<P>[" << file_num << "] File: <tt>" << split_path(m_boost_path, i->first)
                << "</tt><br>\n<table border=\"1\">\n  <tr>\n    <td><pre>"
                << i->second.first << "</pre></td>\n  <td><pre>"
                << i->second.second << "</pre></td>\n  </tr>\n</table>\n";
            ++i;
            ++file_num;
        }
    }
    //
    // Output list of files that could be moved over to the Boost Software License
    //
    os << "<h2><a name=\"to-bsl\"></a>Files that could be converted to the Boost Software License</h2>\n"
    << "<P>The following " << m_can_migrate_to_bsl.size() << " files could be manually
converted to the Boost Software License, but have not yet been:</P>\n<BLOCKQUOTE><P>";
    i2 = m_can_migrate_to_bsl.begin();
    j2 = m_can_migrate_to_bsl.end();
    while(i2 != j2)
    {
        os << split_path(m_boost_path, *i2) << "<br>\n";
        ++i2;
    }
    os << "</p></BLOCKQUOTE>";
    //
    // Output list of files that can not be moved over to the Boost Software License
    //

```



```

os << "<h2><a name=\"not-to-bsl\"></a>Files that can NOT be converted to the Boost Software
License</h2>\n"
"<P>The following " << m_cannot_migrate_to_bsl.size() << " files cannot be converted to the Boost Software
License because we need the permission of more authors:</P>\n<BLOCKQUOTE><P>";
i2 = m_cannot_migrate_to_bsl.begin();
j2 = m_cannot_migrate_to_bsl.end();
while(i2 != j2)
{
os << split_path(m_boost_path, *i2) << "<br>\n";
++i2;
}
os << "</p></BLOCKQUOTE>";
//
// Output list of authors that
we need permission for to move to the BSL
//
os << "<h2><a name=\"need-bsl-authors\"></a>Authors we need for the BSL</h2>\n"
"<P>Permission of the following authors is needed before we can convert to the Boost Software License. The
list of authors that have given their permission is contained in <code>more/blanket-
permission.txt</code>.</P>\n<BLOCKQUOTE><P>";
std::copy(m_authors_for_bsl_migration.begin(), m_authors_for_bsl_migration.end(),
std::ostream_iterator<std::string>(os, "<br>\n"));
os << "</p></BLOCKQUOTE>";
//
// output a table of copyright information:
//
os << "<H2><a name=\"copyright\"></a>Copyright Holder Information</H2><table border=\"1\">\n";
std::map<std::string, std::set<fs::path, path_less> >::const_iterator ad, ead;
ad = m_author_data.begin();
ead = m_author_data.end();
while(ad != ead)
{
os << "<tr><td>" << ad->first << "</td><td>";
std::set<fs::path,
path_less>::const_iterator fi, efi;
fi = ad->second.begin();
efi = ad->second.end();
while(fi != efi)
{
os << split_path(m_boost_path, *fi) << " ";
++fi;
}
os << "</td></tr>\n";
++ad;
}
os << "</table>\n";
}

```

```

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

```

```

        os << " <I>(Circular dependency!)</I>";
        break; // circular dependency!!!
    }
    seen_deps.insert(dep->second);
    last_dep = dep;
    dep = m_dependencies.find(dep->second);
    if((dep == m_dependencies.end()) || (0 == compare_paths(dep->second, last_dep->second)))
        break;
    }
    os << "\n";
    ++fi;
}
os << "</pre></BLOCKQUOTE>\n";

os << "</body></html>\n";

if(!os)
{
    std::string msg("Error writing to ");
    msg += m_dest_path.string();
    msg += ".";
    std::runtime_error e(msg);
    boost::throw_exception(e);
}

}
[/=====
Boost.Geometry (aka GGL, Generic Geometry Library)

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Version 1.0. (See accompanying file LICENSE_1_0.txt or copy at
http://www.boost.org/LICENSE\_1\_0.txt)
=====/]

```

1.2 websocketpp 0.8.0

1.2.1 Available under license :

Main Library:

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Bundled Libraries:

***** Base 64 Library (base64/base64.hpp) *****

base64.hpp is a repackaging of the base64.cpp and base64.h files into a single header suitable for use as a header only library. This conversion was done by Peter Thorson (webmaster@zaphoyd.com) in 2012. All modifications to the code are redistributed under the same license as the original, which is listed below.

base64.cpp and base64.h

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Ren Nyffenegger rene.nyffenegger@adp-gmbh.ch

***** SHA1 Library (sha1/sha1.hpp) *****

sha1.hpp is a repackaging of the sha1.cpp and sha1.h files from the shallsha1 library (<http://code.google.com/p/smallsha1/>) into a single header suitable for use as a header only library. This conversion was done by Peter Thorson (webmaster@zaphoyd.com) in 2013. All modifications to the code are redistributed under the same license as the original, which is listed below.

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***** MD5 Library (common/md5.hpp) *****

md5.hpp is a reformulation of the md5.h and md5.c code from <http://www.opensource.apple.com/source/cups/cups-59/cups/md5.c> to allow it to function as a component of a header only library. This conversion was done by Peter Thorson (webmaster@zaphoyd.com) in 2012 for the WebSocket++ project. The changes are released under the same license as the original (listed below)

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L. Peter Deutsch
ghost@aladdin.com

***** UTF8 Validation logic (utf8_validation.hpp) *****

utf8_validation.hpp is adapted from code originally written by Bjoern Hoehrmann <bjoern@hoehrmann.de>. See <http://bjoern.hoehrmann.de/utf-8/decoder/dfa/> for details.

The original license:

Copyright (c) 2008-2009 Bjoern Hoehrmann <bjoern@hoehrmann.de>

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1.3 lame 3.100

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- This package was originally made by Stefan Karrmann <S.Karrmann@gmx.net> on Thu, 31 Aug 2000 22:15:07 +0200.

The current maintainer is Rogrio Brito <rbrito@users.sf.net>.

It was downloaded from the CVS repository at <<http://sf.net/projects/lame>>.

Upstream Authors: The LAME team <lame-dev@lists.sf.net>.

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Version 2, June 1991

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That's all there is to it!

```
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    "http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">
<html xmlns="http://www.w3.org/1999/xhtml" xml:lang="en" lang="en">
<head>
  <meta name="generator" content="PSPad editor, www.pspad.com" />
  <meta http-equiv="content-type" content="text/html; charset=UTF-8" />
  <link rel="stylesheet" type="text/css" href="styles/lame.css" />
  <title>LAME MP3 Encoder :: Developers</title>
</head>
<body>
<div id="menu">
  <ul>
    <li><a href="index.html">Index page</a></li>
    <li><a href="about.html">About LAME</a></li>
    <li><a href="introduction.html">Intro to encoding</a></li>
    <li><a href="usage.html">Usage of LAME</a></li>
    <li><a href="history.html">Version history</a></li>
    <li><a href="contributors.html">Coders of LAME</a></li>
    <li><a href="contact.html">Contact LAME</a></li>
    <li><a style="border: 0" href="links.html">LAME links</a></li>
  </ul>
</div>
<div id="container">
<div id="content">

<div align="center">
  
  <h2 class="hilight">LAME Developers</h2>
</div>

<p>
Note: if possible, please do not contact developers directly, but proceed as
mentioned in the <a href="contact.html">contact page</a>.
</p>

<p>
LAME was originally developed by Mike Cheng, from 1998 to 1999. After he
retired, the project started being maintained by Mark Taylor till early 2003.
After 2003, the project became managed by core developpers' teamwork, with no
official hierarchy or leadership.
```

</p>

<p>

The following list only represents some of the individuals (in alphabetical order of family name) that contributed resources to LAME development. LAME owes its quality and speed to contributions from many other people, including the many people who post to the mp3encoder mailing list. See History for more complete details.

</p>

<table
class="devlist">
<tbody>

<tr>
<th colspan="2">Primary developers:</th>
</tr>

<tr>
<td>Robert Hegemann</td>
<td>Tuning, optimizations, psychoacoustics...</td>
</tr>

<tr>
<td>Alexander Leidinger</td>
<td>Multiplatform configuration, libraries handling, release management...</td>
</tr>

<tr>
<td>Rogério Brito</td>
<td>Debian packaging, debugging.</td>
</tr>

<tr><th colspan="2">Primary developers - Retired:</th></tr>

<tr>
<td width="30%">Gabriel Bouvigne</td>
<td>Tuning, optimizations, psychoacoustics...</td>
</tr>

<tr>
<td>Mike Cheng</td>
<td>Maintainer of LAME v2.x.</td>
</tr>

<tr>
<td>Frank Klemm</td>

<td>Psychoacoustics, optimizations.</td>
</tr>
<tr> <td>Naoki Shibata</td> <td>Psychoacoustics (NSPsyTune model, NSSafeJoint).</td>
</tr>
<tr> <td>Mark Taylor</td> <td>Maintainer of LAME v3.x, initial implementer of GPsycho psychoacoustic model.</td>
</tr>
<tr> <td>Takehiro Tominaga</td> <td>Psychoacoustics, bitstream, optimizations, assembly code...</td>
</tr>
<tr><th colspan="2">Additional developers:</th></tr>
<tr> <td>Roberto Amorim</td> <td>Web pages and documentation.</td>
</tr>
<tr> <td>John Dahlstrom</td> <td>Adaptive ATH.</td>
</tr>
<tr> <td>John Dee</td> <td>LAME extended VBR header.</td>
</tr>
<tr> <td>Dominique Duvivier</td> <td>Speed optimizations.</td>
</tr>
<tr> <td>Albert Faber</td> <td>Author of CDex and lame_enc.dll.</td>
</tr>

```
<tr>
  <td><a href="http://sourceforge.net/users/pgubanov">Peter Gubanov</a></td>
  <td>LAME DirectShow Filter.</td>
</tr>
```

```
<tr>
  <td><a href="http://sourceforge.net/users/glessard">Guillaume Lessard</a></td>
  <td>&nbsp;</td>
</tr>
```

```
<tr>
  <td><a href="http://sourceforge.net/users/robux4">Steve Lhomme</a></td>
  <td>LAME ACM codec.</td>
</tr>
```

```
<tr>
  <td><a href="http://sourceforge.net/users/gramps">Don Melton</a></td>
  <td>id3v1 and v2 code.</td>
</tr>
```

```
<tr>
  <td><a href="http://sourceforge.net/users/dibrom/">Darin Morrison</a></td>
  <td>Presets tuning.</td>
</tr>
```

```
<tr>
  <td><a href="http://sourceforge.net/users/kylev/">Kyle VanderBeek</a></td>
  <td>Python bindings, website clean-up.</td>
</tr>
```

```
</tbody>
</table>
```

```
</div>
<div id="footer">
```

```
<a href="http://sourceforge.net/projects/lame"></a>
```

```
<a href="http://validator.w3.org/#validate_by_upload"></a>
```

```
<a href="http://jigsaw.w3.org/css-validator/"></a>

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</div>

</div>

</body>

</html>

## 1.4 tidy 5.7.24

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# HTML Tidy

## HTML parser and pretty printer

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@geoffmcl, HTACG, and others.

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Dave Raggett <dsr@w3.org>

The contributing author(s) would like to thank all those who  
helped with testing, bug fixes and suggestions for improvements.  
This wouldn't have been possible without your help.

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## 1.5 protobuf 3.7.1

## 1.6 jansson 2.10

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## 1.7 opus 1.3.1

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# 1.8 protobuf 3.12.2

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This file contains a list of people who have made large contributions to the public version of Protocol Buffers.

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Paul Haahr <haahr@google.com>

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- \* Small patch to handle trailing slashes in --proto\_path flag.

Johan Euphrosine <propy@aminche.com>

- \* Small patch to fix Python CallMethod().

Ulrich Kunitz <kune@deine-taler.de>

- \* Small optimizations to Python serialization.

Leandro Lucarella <llucax@gmail.com>

- \* VI syntax highlighting tweaks.
- \* Fix compiler to not make output executable.

Dilip Joseph <dilip.antony.joseph@gmail.com>

- \* Heuristic detection of sub-messages when printing unknown fields in text format.

Brian Atkinson <nairb774@gmail.com>

- \* Added @Override annotation to generated Java code where appropriate.

Vincent Choiniere <Choiniere.Vincent@hydro.qc.ca>

- \* Tru64 support.

Monty Taylor <monty.taylor@gmail.com>

- \* Solaris 10 + Sun Studio fixes.

Alek Storm <alek.storm@gmail.com>

- \* Slicing support for repeated scalar fields for the Python API.

Oleg Smolsky <oleg.smolsky@gmail.com>

- \* MS Visual Studio error format option.
- \* Detect unordered\_map in stl\_hash.m4.

Brian Olson <brianolson@google.com>

- \* gzip/zlib I/O support.

Michael Poole <mdpoole@troilus.org>

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

Wink Saville <wink@google.com>

- \* Fixed initialization ordering problem in logging code.

Will Pierce <willp@nuclei.com>

- \* Small patch improving performance of in Python serialization.

Alexandre Vassalotti <alexandre@peadrop.com>

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

Scott Stafford <scott.stafford@gmail.com>

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

Alexander Melnikov <alm@sibmail.ru>

- \* HPUX support.

Oliver Jowett <oliver.jowett@gmail.com>

- \* Detect whether zlib is new enough in configure script.

- \* Fixes for Solaris 10 32/64-bit confusion.

Evan Jones <evanj@mit.edu>

- \* 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.

Michael Kucharski <m.kucharski@gmail.com>

- \* 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 xLC compiler build issues

- \* Added atomicops for AIX (POWER)

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## 1.9 libilbc 2.0.2

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## 1.12 hunspell 1.7.1

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- \* and affix
- compression in general, please see:
- \* <http://www.cs.ucla.edu/ficus-members/geoff/ispell.html>
- \* (the home page for ispell)
- \*
- \* 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
- \* case conversion tables.
- \*
- \*/

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## 1.13 tiny-xml 2.5.3

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```
/** @mainpage
```

```
<h1> TinyXML </h1>
```

TinyXML is a simple, small, C++ XML parser that can be easily integrated into other programs.

```
<h2> What it does. </h2>
```

In brief, TinyXML parses an XML document, and builds from that a Document Object Model (DOM) that can be read, modified, and saved.

XML stands for "eXtensible Markup Language." It allows you to create your own document markups. Where HTML does a very good job of marking documents for browsers, XML allows you to define any kind of document markup, for example a document that describes a "to do" list for an organizer application. XML is a very structured and convenient format. All those random file formats created to store application data can all be replaced with XML. One parser for everything.

The best place for the complete, correct, and quite frankly hard to read spec is at <http://www.w3.org/TR/2004/REC-xml-20040204/>.

An intro to XML

(that I really like) can be found at

<http://skew.org/xml/tutorial/>.

There are different ways to access and interact with XML data.

TinyXML uses a Document Object Model (DOM), meaning the XML data is parsed into a C++ objects that can be browsed and manipulated, and then written to disk or another output stream. You can also construct an XML document from scratch with C++ objects and write this to disk or another output

stream.

TinyXML is designed to be easy and fast to learn. It is two headers and four cpp files. Simply add these to your project and off you go. There is an example file - xmltest.cpp - to get you started.

TinyXML is released under the ZLib license, so you can use it in open source or commercial code. The details of the license are at the top of every source file.

TinyXML attempts to be a flexible parser, but with truly correct and compliant XML output. TinyXML should compile on any reasonably C++ compliant system. It does not rely on exceptions or RTTI. It can be compiled with or without STL support. TinyXML fully supports the UTF-8 encoding, and the first 64k character entities.

<h2> What it doesn't do. </h2>

TinyXML doesn't parse or use DTDs (Document Type Definitions) or XSLs (eXtensible Stylesheet Language.) There are other parsers out there (check out [www.sourceforge.org](http://www.sourceforge.org), search for XML) that are much more fully featured. But they are also much bigger, take longer to set up in your project, have a higher learning curve, and often have a more restrictive license. If you are working with browsers or have more complete XML needs, TinyXML is not the parser for you.

The following DTD syntax will not parse at this time in TinyXML:

```
@verbatim
<!DOCTYPE Archiv [
 <!ELEMENT Comment (#PCDATA)>
]>
@endverbatim
```

because TinyXML sees this as a !DOCTYPE node with an illegally embedded !ELEMENT node. This may be addressed in the future.

<h2> Tutorials. </h2>

For the impatient, here is a tutorial to get you going. A great way to get started, but it is worth your time to read this (very short) manual completely.

- @subpage tutorial0

<h2> Code Status. </h2>



TinyXML is mature, tested code. It is very stable. If you find bugs, please file a bug report on the sourceforge web site ([www.sourceforge.net/projects/tinyxml](http://www.sourceforge.net/projects/tinyxml)). We'll get them straightened out as soon as possible.

There are some areas of improvement; please check sourceforge if you are interested in working on TinyXML.

## <h2> Related Projects </h2>

TinyXML projects you may find useful! (Descriptions provided by the projects.)

<ul>

<li> <b>TinyXPath</b> (<http://tinyxpath.sourceforge.net>). TinyXPath is a small footprint XPath syntax decoder, written in C++.</li>

<li> <b>TinyXML++</b> (<http://code.google.com/p/ticpp/>). TinyXML++ is a completely new interface to TinyXML that uses MANY of the C++ strengths. Templates, exceptions, and much better error handling.</li>

</ul>

<h2>

Features </h2>

## <h3> Using STL </h3>

TinyXML can be compiled to use or not use STL. When using STL, TinyXML uses the std::string class, and fully supports std::istream, std::ostream, operator<<, and operator>>. Many API methods have both 'const char\*' and 'const std::string&' forms.

When STL support is compiled out, no STL files are included whatsoever. All the string classes are implemented by TinyXML itself. API methods all use the 'const char\*' form for input.

Use the compile time #define:

TIXML\_USE\_STL

to compile one version or the other. This can be passed by the compiler, or set as the first line of "tinyxml.h".

Note: If compiling the test code in Linux, setting the environment variable TINYXML\_USE\_STL=YES/NO will control STL compilation. In the Windows project file, STL and non STL targets are provided. In your project, It's probably easiest to add the line "#define TIXML\_USE\_STL" as the first line of tinyxml.h.

### <h3> UTF-8 </h3>

TinyXML supports UTF-8 allowing to manipulate XML files in any language. TinyXML also supports "legacy mode" - the encoding used before UTF-8 support and probably best described as "extended ascii".

Normally, TinyXML will try to detect the correct encoding and use it. However, by setting the value of TIXML\_DEFAULT\_ENCODING in the header file, TinyXML can be forced to always use one encoding.

TinyXML will assume Legacy Mode until one of the following occurs:

<ol>

<li> If the non-standard but common "UTF-8 lead bytes" (0xef 0xbb 0xbf) begin the file or data stream, TinyXML will read it as UTF-8. </li>

<li> If the declaration tag is read, and it has an encoding="UTF-8", then TinyXML will read it as UTF-8. </li>

<li> If the declaration tag is read, and it has no encoding specified, then TinyXML will read it as UTF-8. </li>

<li> If the declaration tag is read, and it has an encoding="something else", then TinyXML will read it as Legacy Mode. In legacy mode, TinyXML will work as it did before. It's

not clear what that mode does exactly, but old content should keep working.</li>

<li> Until one of the above criteria is met, TinyXML runs in Legacy Mode.</li>

</ol>

What happens if the encoding is incorrectly set or detected? TinyXML will try to read and pass through text seen as improperly encoded. You may get some strange results or mangled characters. You may want to force TinyXML to the correct mode.

You may force TinyXML to Legacy Mode by using LoadFile( TIXML\_ENCODING\_LEGACY ) or LoadFile( filename, TIXML\_ENCODING\_LEGACY ). You may force it to use legacy mode all the time by setting TIXML\_DEFAULT\_ENCODING = TIXML\_ENCODING\_LEGACY. Likewise, you may force it to TIXML\_ENCODING\_UTF8 with the same technique.

For English users, using English XML, UTF-8 is the same as low-ASCII. You don't need to be aware of UTF-8 or change your code in any way. You can think of UTF-8 as a "superset" of ASCII.

UTF-8 is not a double byte format - but it is a standard encoding of Unicode!

TinyXML

does not use or directly support wchar, TCHAR, or Microsoft's \_UNICODE at this time.

It is common to see the term "Unicode" improperly refer to UTF-16, a wide byte encoding of unicode. This is a source of confusion.

For "high-ascii" languages - everything not English, pretty much - TinyXML can handle all languages, at the same time, as long as the XML is encoded in UTF-8. That can be a little tricky, older programs and operating systems

tend to use the "default" or "traditional" code page. Many apps (and almost all modern ones) can output UTF-8, but older or stubborn (or just broken) ones still output text in the default code page.

For example, Japanese systems traditionally use SHIFT-JIS encoding.

Text encoded as SHIFT-JIS can not be read by TinyXML.

A good text editor can import SHIFT-JIS and then save as UTF-8.

The `<a href="http://skew.org/xml/tutorial/">Skew.org link</a>` does a great job covering the encoding issue.

The test file "utf8test.xml" is an XML containing English, Spanish, Russian, and Simplified Chinese. (Hopefully they are translated correctly). The file "utf8test.gif" is a screen capture of the XML file, rendered in IE. Note that if you don't have the correct fonts (Simplified Chinese or Russian) on your system, you won't see output that matches the GIF file even if you can parse it correctly. Also note that (at least on my Windows machine) console output is in a Western code page, so that `Print()` or `printf()` cannot correctly display the file. This is not a bug in TinyXML - just an OS issue. No data is lost or destroyed by TinyXML. The console just doesn't render UTF-8.

### <h3> Entities </h3>

TinyXML recognizes the pre-defined "character entities", meaning special characters. Namely:

```
@verbatim
& &
< <
> >
" "
' '
@endverbatim
```

These are recognized when the XML document is read, and translated to there UTF-8 equivalents. For instance, text with the XML of:

```
@verbatim
Far & Away
@endverbatim
```

will have the `Value()` of "Far & Away" when queried from the `TiXmlText` object, and will be written back to the XML stream/file as an ampersand. Older versions of TinyXML "preserved" character entities, but the newer versions will translate them into characters.

Additionally, any character can be specified by its Unicode code point:

The syntax "&#xA0;" or "&#160;" are both to the non-breaking space character.

### <h3> Printing </h3>

TinyXML can print output in several different ways that all have strengths and limitations.

- Print( FILE\* ). Output to a std-C stream, which includes all C files as well as stdout.
- "Pretty prints", but you don't have control over printing options.
- The output is streamed directly to the FILE object, so there is no memory overhead in the TinyXML code.
- used by Print() and SaveFile()
- operator<<. Output to a c++ stream.
- Integrates with standard C++ iostreams.
- Outputs in "network printing" mode without line breaks. Good for network transmission and moving XML between C++ objects, but hard for a human to read.
- TiXmlPrinter. Output to a std::string or memory buffer.
- API is less concise
- Future printing options will be put here.
- Printing may change slightly in future versions as it is refined and expanded.

### <h3> Streams </h3>

With TIXML\_USE\_STL on TinyXML supports C++ streams (operator <<, >>) streams as well as C (FILE\*) streams. There are some differences that you may need to be aware of.

C style output:

- based on FILE\*
- the Print() and SaveFile() methods

Generates formatted output, with plenty of white space, intended to be as human-readable as possible. They are very fast, and tolerant of ill formed XML documents. For example, an XML document that contains 2 root elements and 2 declarations, will still print.

C style input:

- based on FILE\*
- the Parse() and LoadFile() methods

A fast, tolerant read. Use whenever you don't need the C++ streams.

C++ style output:

- based on std::ostream
- operator<<

Generates

condensed output, intended for network transmission rather than readability. Depending on your system's implementation of the ostream class, these may be somewhat slower. (Or may not.) Not tolerant of ill formed XML: a document should contain the correct one root element. Additional root level elements will not be streamed out.

C++ style input:

- based on std::istream
- operator>>

Reads XML from a stream, making it useful for network transmission. The tricky part is knowing when the XML document is complete, since there will almost certainly be other data in the stream. TinyXML will assume the XML data is complete after it reads the root element. Put another way, documents that are ill-constructed with more than one root element will not read correctly. Also note that operator>> is somewhat slower than Parse, due to both implementation of the STL and limitations of TinyXML.

<h3> White space </h3>

The world simply does not agree on whether white space should be kept, or condensed.

For example, pretend the '\_' is a space, and look at "Hello\_\_\_\_world". HTML, and at least some XML parsers, will interpret this as "Hello\_world". They condense white space. Some XML parsers do not, and will leave it as "Hello\_\_\_\_world". (Remember to keep pretending the \_ is a space.) Others suggest that \_\_Hello\_\_\_\_world\_\_ should become Hello\_\_\_\_world.

It's an issue that hasn't been resolved to my satisfaction. TinyXML supports the first 2 approaches. Call TiXmlBase::SetCondenseWhiteSpace( bool ) to set the desired behavior. The default is to condense white space.

If you change the default, you should call TiXmlBase::SetCondenseWhiteSpace( bool ) before making any calls to Parse XML data, and I don't recommend changing it after it has been set.

<h3> Handles </h3>

Where browsing an XML document in a robust way, it is important to check for null returns from method calls. An error safe implementation can generate a lot of code like:

@verbatim

```
TiXmlElement* root = document.FirstChildElement(
 "Document");
if (root)
{
 TiXmlElement* element = root->FirstChildElement("Element");
```

```

if (element)
{
 TiXmlElement* child = element->FirstChildElement("Child");
 if (child)
 {
 TiXmlElement* child2 = child->NextSiblingElement("Child");
 if (child2)
 {
 // Finally do something useful.
 }
 }
}
@endverbatim

```

Handles have been introduced to clean this up. Using the TiXmlHandle class, the previous code reduces to:

```

@verbatim
TiXmlHandle docHandle(&document);
TiXmlElement* child2 = docHandle.FirstChild("Document").FirstChild("Element").Child("Child", 1
).ToElement();
if (child2)
{
 // do something useful
}
@endverbatim

```

Which is much easier to deal with. See TiXmlHandle for more information.

### <h3> Row and Column tracking </h3>

Being able to track nodes and attributes back to their origin location in source files can be very important for some applications. Additionally, knowing where parsing errors occurred in the original source can be very time saving.

TinyXML can track the row and column origin of all nodes and attributes in a text file. The TiXmlBase::Row() and TiXmlBase::Column() methods return the origin of the node in the source text. The correct tabs can be configured in TiXmlDocument::SetTabSize().

## <h2> Using and Installing </h2>

To Compile and Run xmltest:

A Linux Makefile and a Windows Visual C++ .dsw file is provided. Simply compile and run. It will write the file demotest.xml to your disk and generate output on the screen. It also tests walking the DOM by printing out the number of nodes found using different techniques.

The Linux makefile is very generic and runs on many systems - it is currently tested on mingw and MacOSX. You do not need to run 'make depend'. The dependencies have been hard coded.

### <h3>Windows project file for VC6</h3>

<ul>

<li>tinyxml: tinyxml library, non-STL </li>

<li>tinyxmlSTL: tinyxml library, STL </li>

<li>tinyXmlTest: test app, non-STL </li>

<li>tinyXmlTestSTL: test app,  
STL </li>

</ul>

### <h3>Makefile</h3>

At the top of the makefile you can set:

PROFILE, DEBUG, and TINYXML\_USE\_STL. Details (such that they are) are in the makefile.

In the tinyxml directory, type "make clean" then "make". The executable file 'xmltest' will be created.

### <h3>To Use in an Application:</h3>

Add tinyxml.cpp, tinyxml.h, tinyxmlerror.cpp, tinyxmlparser.cpp, tinystr.cpp, and tinystr.h to your project or make file. That's it! It should compile on any reasonably compliant C++ system. You do not need to enable exceptions or RTTI for TinyXML.

## <h2> How TinyXML works. </h2>

An example is probably the best way to go. Take:

@verbatim

<?xml version="1.0" standalone=no>

<!-- Our to do list data -->

<ToDo>

<Item priority="1"> Go to the <bold>Toy store!</bold></Item>

<Item priority="2"> Do bills</Item>

</ToDo>

@endverbatim

Its not much of a To Do list, but it will do. To read this file (say "demo.xml") you would create a document, and parse it in:

```
@verbatim
TiXmlDocument
doc("demo.xml");
doc.LoadFile();
@endverbatim
```

And its ready to go. Now lets look at some lines and how they relate to the DOM.

```
@verbatim
<?xml version="1.0" standalone=no>
@endverbatim
```

The first line is a declaration, and gets turned into the TiXmlDeclaration class. It will be the first child of the document node.

This is the only directive/special tag parsed by TinyXML. Generally directive tags are stored in TiXmlUnknown so the commands wont be lost when it is saved back to disk.

```
@verbatim
<!-- Our to do list data -->
@endverbatim
```

A comment. Will become a TiXmlComment object.

```
@verbatim
<ToDo>
@endverbatim
```

The "ToDo" tag defines a TiXmlElement object. This one does not have any attributes, but does contain 2 other elements.

```
@verbatim
<Item priority="1">
@endverbatim
```

Creates another TiXmlElement which is a child of the "ToDo" element. This element has 1 attribute, with the name "priority" and the value "1".

```
@verbatim
Go to the
@endverbatim
```

A TiXmlText.



This is a leaf node and cannot contain other nodes.

It is a child of the "Item" TiXmlElement.

```
@verbatim
<bold>
@endverbatim
```

Another TiXmlElement, this one a child of the "Item" element.

Etc.

Looking at the entire object tree, you end up with:

```
@verbatim
TiXmlDocument "demo.xml"
TiXmlDeclaration "version='1.0'" "standalone=no"
TiXmlComment " Our to do list data"
TiXmlElement "ToDo"
TiXmlElement "Item" Attributes: priority = 1
 TiXmlText "Go to the "
 TiXmlElement "bold"
 TiXmlText "Toy store!"
TiXmlElement "Item" Attributes: priority=2
 TiXmlText "Do bills"
@endverbatim
```

<h2> Documentation </h2>

The documentation is build with Doxygen, using the 'dox' configuration file.

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## <h2> References </h2>

The World Wide Web Consortium is the definitive standard body for XML, and their web pages contain huge amounts of information.

The definitive spec: <a href="http://www.w3.org/TR/2004/REC-xml-20040204/">  
http://www.w3.org/TR/2004/REC-xml-20040204/</a>

I also recommend "XML Pocket Reference" by Robert Eckstein and published by OReilly...the book that got the whole thing started.

## <h2> Contributors, Contacts, and a Brief History </h2>

Thanks very much to everyone who sends suggestions, bugs, ideas, and encouragement. It all helps, and makes this project fun. A special thanks to the contributors on the web pages that keep it lively.

So many people have sent in bugs and ideas, that rather than list here we try to give credit due in the "changes.txt" file.

TinyXML was originally written by Lee Thomason. (Often the "I" still in the documentation.) Lee reviews changes and releases new versions, with the help of Yves Berquin, Andrew Ellerton, and the tinyXml community.

We appreciate your suggestions, and would love to know if you use TinyXML. Hopefully you will enjoy it and find it useful. Please post questions, comments, file bugs, or contact us at:

[www.sourceforge.net/projects/tinyxml](http://www.sourceforge.net/projects/tinyxml)

Lee Thomason, Yves Berquin, Andrew Ellerton  
\*/

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[www.sourceforge.net/projects/tinymce](http://www.sourceforge.net/projects/tinymce)

Original code by Lee Thomason ([www.grinninglizard.com](http://www.grinninglizard.com))

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\*/

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\* /tinymce-2-6-2-1-tar-gz/tinymce/tinymce.cpp

\*

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files that have this string in the file name (including the path relative
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#
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#
builds/unix/pkg.m4
#
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```
docs/FTL.TXT
docs/GPLv2.TXT
#
include/freetype/internal/fthash.h
#
src/base/fthash.c
src/base/md5.c
src/base/md5.h
#
src/bdf/bdf.c
src/bdf/bdf.h
src/bdf/bdfdrivr.c
src/bdf/bdfdrivr.h
src/bdf/bdferror.h
src/bdf/bdflib.c
src/bdf/module.mk
src/bdf/README
src/bdf/rules.mk
#
src/pcf/module.mk
src/pcf/pcf.c
src/pcf/pcf.h
src/pcf/pcfdrivr.c
src/pcf/pcfdrivr.h
src/pcf/pcferror.h
src/pcf/pcfread.c
src/pcf/pcfread.h
src/pcf/pcfutil.c
src/pcf/pcfutil.h
src/pcf/README
src/pcf/rules.mk
#
src/gzip/adler32.c
src/gzip/ftzconf.c
src/gzip/infblock.c
src/gzip/infblock.h
src/gzip/infcodes.c
src/gzip/infcodes.h
src/gzip/inffixed.h
src/gzip/inflate.c
src/gzip/inftrees.c
src/gzip/inftrees.h
src/gzip/infutil.c
src/gzip/infutil.h
src/gzip/zconf.h
src/gzip/zlib.h
src/gzip/zutil.c
src/gzip/zutil.h
```

```
#
src/tools/apinames.c
src/tools/ftrandom/ftrandom.c
#
subprojects/dlg
#
#
EOF
```

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## 1.23 zlib 1.3.1

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## 1.24 sqlite 3.45.2

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```
/*
** CAPI3REF: Configuration Options
** KEYWORDS: {configuration option}
**
** These constants are the available integer configuration options that
** can be passed as the first argument to the [sqlite3_config()] interface.
**
** Most of the configuration options for sqlite3_config()
** will only work if invoked prior to [sqlite3_initialize()] or after
** [sqlite3_shutdown()]. The few exceptions to this rule are called
** "anytime configuration options".
** ^Calling [sqlite3_config()] with a first argument that is not an
** anytime configuration option in between calls to [sqlite3_initialize()] and
** [sqlite3_shutdown()] is a no-op that returns SQLITE_MISUSE.
**
** The set of anytime configuration options can change (by insertions
** and/or deletions) from one release of SQLite to the next.
** As of SQLite version 3.42.0, the complete set of anytime configuration
** options is:
**
** SQLITE_CONFIG_LOG
**
** SQLITE_CONFIG_PCACHE_HDRSZ
**
**
** 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>  
 \*\* [[SQLITE\_CONFIG\_SINGLETHREAD]] <dt>SQLITE\_CONFIG\_SINGLETHREAD</dt>  
 \*\* <dd>There are no arguments to this option. ^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>  
 \*\*  
 \*\* [[SQLITE\_CONFIG\_MULTITHREAD]] <dt>SQLITE\_CONFIG\_MULTITHREAD</dt>  
 \*\* <dd>There are no arguments to this option. ^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>  
 \*\*  
 \*\* [[SQLITE\_CONFIG\_SERIALIZED]] <dt>SQLITE\_CONFIG\_SERIALIZED</dt>  
 \*\*  
 <dd>There are no arguments to this option. ^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  
 \*\* same [prepared statement] in different threads 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 Serialized [threading mode] and  
 \*\* [sqlite3\_config()] will return [SQLITE\_ERROR] if called with the  
 \*\* SQLITE\_CONFIG\_SERIALIZED configuration option.</dd>  
 \*\*

**SQLITE\_CONFIG\_MALLOC** `SQLITE_CONFIG_MALLOC`  
 (The `SQLITE_CONFIG_MALLOC` 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.

**SQLITE\_CONFIG\_GETMALLOC** `SQLITE_CONFIG_GETMALLOC`  
 (The `SQLITE_CONFIG_GETMALLOC` 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 simulates memory allocation failure or tracks memory usage, for example.

**SQLITE\_CONFIG\_SMALL\_MALLOC** `SQLITE_CONFIG_SMALL_MALLOC`  
 The `SQLITE_CONFIG_SMALL_MALLOC` option takes single argument of type `int`, interpreted as a boolean, which if true provides a hint to SQLite that it should avoid large memory allocations if possible. SQLite will run faster if it is free to make large memory allocations, but some application might prefer to run slower in exchange for guarantees about memory fragmentation that are possible if large allocations are avoided. This hint is normally off.

**SQLITE\_CONFIG\_MEMSTATUS** `SQLITE_CONFIG_MEMSTATUS`  
 The `SQLITE_CONFIG_MEMSTATUS` 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:
 

- `[sqlite3_hard_heap_limit64()]`
- `[sqlite3_memory_used()]`
- `[sqlite3_memory_highwater()]`
- `[sqlite3_soft_heap_limit64()]`
- `[sqlite3_status64()]`

 )  
 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.

**\*\* [[SQLITE\_CONFIG\_SCRATCH]] <dt>SQLITE\_CONFIG\_SCRATCH</dt>**  
**\*\* <dd>** The SQLITE\_CONFIG\_SCRATCH option is no longer used.  
**\*\* </dd>**  
**\*\***

**\*\* [[SQLITE\_CONFIG\_PAGECACHE]] <dt>SQLITE\_CONFIG\_PAGECACHE</dt>**  
**\*\* <dd>** ^The SQLITE\_CONFIG\_PAGECACHE option specifies a memory pool  
**\*\* that SQLite can use for the database page cache with the default page**  
**\*\* cache implementation.**  
**\*\* This configuration option is a no-op if an application-defined page**  
**\*\* cache implementation is loaded using the [SQLITE\_CONFIG\_PCACHE2].**  
**\*\* ^There are three arguments to SQLITE\_CONFIG\_PAGECACHE: A pointer to**  
**\*\* 8-byte aligned memory (pMem), the size of each page cache line (sz),**  
**\*\* and the number of cache lines (N).**  
**\*\* The sz argument should be the size of the largest database page**  
**\*\* (a power**  
**of two between 512 and 65536) plus some extra bytes for each**  
**\*\* page header. ^The number of extra bytes needed by the page header**  
**\*\* can be determined using [SQLITE\_CONFIG\_PCACHE\_HDRSZ].**  
**\*\* ^It is harmless, apart from the wasted memory,**  
**\*\* for the sz parameter to be larger than necessary. The pMem**  
**\*\* argument must be either a NULL pointer or a pointer to an 8-byte**  
**\*\* aligned block of memory of at least sz\*N bytes, otherwise**  
**\*\* subsequent behavior is undefined.**  
**\*\* ^When pMem is not NULL, SQLite will strive to use the memory provided**  
**\*\* to satisfy page cache needs, falling back to [sqlite3\_malloc()] if**  
**\*\* a page cache line is larger than sz bytes or if all of the pMem buffer**  
**\*\* is exhausted.**  
**\*\* ^If pMem is NULL and N is non-zero, then each database connection**  
**\*\* does an initial bulk allocation for page cache memory**  
**\*\* from [sqlite3\_malloc()] sufficient for N cache lines if N is positive or**  
**\*\* of -1024\*N bytes if N is negative, . ^If additional**  
**\*\* page cache memory is needed beyond**  
**what is provided by the initial**  
**\*\* allocation, then SQLite goes to [sqlite3\_malloc()] separately for each**  
**\*\* additional cache line. </dd>**  
**\*\***

**\*\* [[SQLITE\_CONFIG\_HEAP]] <dt>SQLITE\_CONFIG\_HEAP</dt>**  
**\*\* <dd>** ^The SQLITE\_CONFIG\_HEAP 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\_PAGECACHE].**  
**\*\* ^The SQLITE\_CONFIG\_HEAP option is only available if SQLite is compiled**  
**\*\* with either [SQLITE\_ENABLE\_MEMSYS3] or [SQLITE\_ENABLE\_MEMSYS5] and returns**  
**\*\* [SQLITE\_ERROR] if invoked otherwise.**  
**\*\* ^There are three arguments to SQLITE\_CONFIG\_HEAP:**  
**\*\* 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 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> ^The SQLITE\_CONFIG\_MUTEX 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()] returns. ^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> ^The SQLITE\_CONFIG\_GETMUTEX 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> ^The SQLITE\_CONFIG\_LOOKASIDE  
 option takes two arguments that determine  
 \*\* the default size of lookaside memory 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.)^ ^([SQLITE\_CONFIG\_LOOKASIDE  
 \*\* sets the <i>default</i> lookaside size. The [SQLITE\_DBCONFIG\_LOOKASIDE]  
 \*\* option 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> ^The SQLITE\_CONFIG\_PCACHE2 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 [sqlite3\_pcache\_methods2] object.</dd>  
 \*\*  
 \*\* [[SQLITE\_CONFIG\_GETPCACHE2]] <dt>SQLITE\_CONFIG\_GETPCACHE2</dt>  
 \*\* <dd> ^The SQLITE\_CONFIG\_GETPCACHE2 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>^The SQLITE\_CONFIG\_URI 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>^The SQLITE\_CONFIG\_COVERING\_INDEX\_SCAN 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  
 \*\* <dd>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.</dd>  
 \*\*  
 \*\* [[SQLITE\_CONFIG\_MMAP\_SIZE]]  
 \*\* <dt>SQLITE\_CONFIG\_MMAP\_SIZE  
 \*\* <dd>^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  
 \*\* will be silently truncated if necessary so that it does not exceed the  
 \*\* compile-time maximum mmap size set by the  
 \*\* [SQLITE\_MAX\_MMAP\_SIZE]

compile-time option.)<sup>^</sup>

**\*\*** <sup>^</sup>If either argument to this option is negative, then that argument is

**\*\*** changed to its compile-time default.

**\*\***

**\*\*** [[SQLITE\_CONFIG\_WIN32\_HEAPSIZE]]

**\*\*** <dt>SQLITE\_CONFIG\_WIN32\_HEAPSIZE

**\*\*** <dd><sup>^</sup>The SQLITE\_CONFIG\_WIN32\_HEAPSIZE option is only available if SQLite is

**\*\*** compiled for Windows with the [SQLITE\_WIN32\_MALLOC] pre-processor macro

**\*\*** defined. <sup>^</sup>SQLITE\_CONFIG\_WIN32\_HEAPSIZE takes a 32-bit unsigned integer value

**\*\*** that specifies the maximum size of the created heap.

**\*\***

**\*\*** [[SQLITE\_CONFIG\_PCACHE\_HDRSZ]]

**\*\*** <dt>SQLITE\_CONFIG\_PCACHE\_HDRSZ

**\*\*** <dd><sup>^</sup>The SQLITE\_CONFIG\_PCACHE\_HDRSZ option takes a single parameter which

**\*\*** is a pointer to an integer and writes into that integer the number of extra

**\*\*** bytes per page required for each page in [SQLITE\_CONFIG\_PAGECACHE].

**\*\*** The amount of extra space required can change depending on the compiler,

**\*\*** target platform, and SQLite version.

**\*\***

**\*\*** [[SQLITE\_CONFIG\_PMASZ]]

**\*\*** <dt>SQLITE\_CONFIG\_PMASZ

**\*\*** <dd><sup>^</sup>The

SQLITE\_CONFIG\_PMASZ option takes a single parameter which

**\*\*** is an unsigned integer and sets the "Minimum PMA Size" for the multithreaded

**\*\*** sorter to that integer. The default minimum PMA Size is set by the

**\*\*** [SQLITE\_SORTER\_PMASZ] compile-time option. New threads are launched

**\*\*** to help with sort operations when multithreaded sorting

**\*\*** is enabled (using the [PRAGMA threads] command) and the amount of content

**\*\*** to be sorted exceeds the page size times the minimum of the

**\*\*** [PRAGMA cache\_size] setting and this value.

**\*\***

**\*\*** [[SQLITE\_CONFIG\_STMTJRNL\_SPILL]]

**\*\*** <dt>SQLITE\_CONFIG\_STMTJRNL\_SPILL

**\*\*** <dd><sup>^</sup>The SQLITE\_CONFIG\_STMTJRNL\_SPILL option takes a single parameter which

**\*\*** becomes the [statement journal] spill-to-disk threshold.

**\*\*** [Statement journals] are held in memory until their size (in bytes)

**\*\*** exceeds this threshold, at which point they are written to disk.

**\*\*** Or if the threshold is -1, statement journals are always held

**\*\*** exclusively in memory.

**\*\*** Since many statement journals

never become large, setting the spill

**\*\*** threshold to a value such as 64KiB can greatly reduce the amount of

**\*\*** I/O required to support statement rollback.

**\*\*** The default value for this setting is controlled by the

**\*\*** [SQLITE\_STMTJRNL\_SPILL] compile-time option.

**\*\***

**\*\*** [[SQLITE\_CONFIG\_SORTERREF\_SIZE]]

**\*\*** <dt>SQLITE\_CONFIG\_SORTERREF\_SIZE

\*\* <dd>The SQLITE\_CONFIG\_SORTERREF\_SIZE option accepts a single parameter  
 \*\* of type (int) - the new value of the sorter-reference size threshold.  
 \*\* Usually, when SQLite uses an external sort to order records according  
 \*\* to an ORDER BY clause, all fields required by the caller are present in the  
 \*\* sorted records. However, if SQLite determines based on the declared type  
 \*\* of a table column that its values are likely to be very large - larger  
 \*\* than the configured sorter-reference size threshold - then a reference  
 \*\* is stored in each sorted record and the required column values loaded  
 \*\* from the database as records are returned in sorted order.

The default

\*\* value for this option is to never use this optimization. Specifying a  
 \*\* negative value for this option restores the default behavior.  
 \*\* This option is only available if SQLite is compiled with the  
 \*\* [SQLITE\_ENABLE\_SORTER\_REFERENCES] compile-time option.

\*\* [[SQLITE\_CONFIG\_MEMDB\_MAXSIZE]]  
 \*\* <dt>SQLITE\_CONFIG\_MEMDB\_MAXSIZE

\*\* <dd>The SQLITE\_CONFIG\_MEMDB\_MAXSIZE option accepts a single parameter  
 \*\* [sqlite3\_int64] parameter which is the default maximum size for an in-memory  
 \*\* database created using [sqlite3\_deserialize()]. This default maximum  
 \*\* size can be adjusted up or down for individual databases using the  
 \*\* [SQLITE\_FCNTL\_SIZE\_LIMIT] [sqlite3\_file\_control|file-control]. If this  
 \*\* configuration setting is never used, then the default maximum is determined  
 \*\* by the [SQLITE\_MEMDB\_DEFAULT\_MAXSIZE] compile-time option. If that  
 \*\* compile-time option is not set, then the default maximum is 1073741824.

\*\* </dl>

\*/

Found in path(s):

\* /sqlite-amalgamation-3450200-zip/sqlite-amalgamation-3450200/sqlite3.h

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/\*

\*\* 2022-11-18  
 \*\*

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 \*\* 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 is a SQLite extension for converting in either direction

\*\* between a (binary) blob and base64 text. Base64 can transit a

\*\* sane USASCII channel unmolested. It also plays nicely in CSV or

\*\* written as TCL brace-enclosed literals or SQL string literals,



```

** and can be used unmodified in XML-like documents.
**
** This is an independent implementation of conversions specified in
** RFC 4648, done on the above date by the author (Larry Brasfield)
** who thereby has the right to put this into the public domain.
**
** The conversions meet RFC 4648 requirements,
 provided that this
** C source specifies that line-feeds are included in the encoded
** data to limit visible line lengths to 72 characters and to
** terminate any encoded blob having non-zero length.
**
** Length limitations are not imposed except that the runtime
** SQLite string or blob length limits are respected. Otherwise,
** any length binary sequence can be represented and recovered.
** Generated base64 sequences, with their line-feeds included,
** can be concatenated; the result converted back to binary will
** be the concatenation of the represented binary sequences.
**
** This SQLite3 extension creates a function, base64(x), which
** either: converts text x containing base64 to a returned blob;
** or converts a blob x to returned text containing base64. An
** error will be thrown for other input argument types.
**
** This code relies on UTF-8 encoding only with respect to the
** meaning of the first 128 (7-bit) codes matching that of USASCII.
** It will fail miserably
 if somehow made to try to convert EBCDIC.
** Because it is table-driven, it could be enhanced to handle that,
** but the world and SQLite have moved on from that anachronism.
**
** To build the extension:
** Set shell variable SQDIR=<your favorite SQLite checkout directory>
** *Nix: gcc -O2 -shared -I$SQDIR -fPIC -o base64.so base64.c
** OSX: gcc -O2 -dynamiclib -fPIC -I$SQDIR -o base64.dylib base64.c
** Win32: gcc -O2 -shared -I%SQDIR% -o base64.dll base64.c
** Win32: cl /Os -I%SQDIR% base64.c -link -dll -out:base64.dll
*/
/*
** 2022-11-16
**
** 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 is a utility for converting binary to base85 or vice-versa.

\*\* It can be built as a standalone  
program or an SQLite3 extension.

\*\*

\*\* Much like base64 representations, base85 can be sent through a

\*\* sane USASCII channel unmolested. It also plays nicely in CSV or

\*\* written as TCL brace-enclosed literals or SQL string literals.

\*\* It is not suited for unmodified use in XML-like documents.

\*\*

\*\* The encoding used resembles Ascii85, but was devised by the author

\*\* (Larry Brasfield) before Mozilla, Adobe, ZMODEM or other Ascii85

\*\* variant sources existed, in the 1984 timeframe on a VAX mainframe.

\*\* Further, this is an independent implementation of a base85 system.

\*\* Hence, the author has rightfully put this into the public domain.

\*\*

\*\* Base85 numerals are taken from the set of 7-bit USASCII codes,

\*\* excluding control characters and Space ! " ' ( ) { | } ~ Del

\*\* in code order representing digit values 0 to 84 (base 10.)

\*\*

\*\* Groups of 4 bytes, interpreted as big-endian 32-bit values,

\*\* are represented as 5-digit base85 numbers with MS to LS digit

\*\* order. Groups

of 1-3 bytes are represented with 2-4 digits,

\*\* still big-endian but 8-24 bit values. (Using big-endian yields

\*\* the simplest transition to byte groups smaller than 4 bytes.

\*\* These byte groups can also be considered base-256 numbers.)

\*\* Groups of 0 bytes are represented with 0 digits and vice-versa.

\*\* No pad characters are used; Encoded base85 numeral sequence

\*\* (aka "group") length maps 1-to-1 to the decoded binary length.

\*\*

\*\* Any character not in the base85 numeral set delimits groups.

\*\* When base85 is streamed or stored in containers of indefinite

\*\* size, newline is used to separate it into sub-sequences of no

\*\* more than 80 digits so that fgets() can be used to read it.

\*\*

\*\* Length limitations are not imposed except that the runtime

\*\* SQLite string or blob length limits are respected. Otherwise,

\*\* any length binary sequence can be represented and recovered.

\*\* Base85 sequences can be concatenated by separating them with

\*\* a non-base85 character; the conversion to binary

will then

\*\* be the concatenation of the represented binary sequences.

\*\* The standalone program either converts base85 on stdin to create

\*\* a binary file or converts a binary file to base85 on stdout.

\*\* Read or make it blurt its help for invocation details.

```

**
** The SQLite3 extension creates a function, base85(x), which will
** either convert text base85 to a blob or a blob to text base85
** and return the result (or throw an error for other types.)
** Unless built with OMIT_BASE85_CHECKER defined, it also creates a
** function, is_base85(t), which returns 1 iff the text t contains
** nothing other than base85 numerals and whitespace, or 0 otherwise.
**
** To build the extension:
** Set shell variable SQDIR=<your favorite SQLite checkout directory>
** and variable OPTS to -DOMIT_BASE85_CHECKER if is_base85() unwanted.
** *Nix: gcc -O2 -shared -I$SQDIR $OPTS -fPIC -o base85.so base85.c
** OSX: gcc -O2 -dynamiclib -fPIC -I$SQDIR $OPTS -o base85.dylib base85.c
** Win32: gcc -O2
 -shared -I%SQDIR% %OPTS% -o base85.dll base85.c
** Win32: cl /Os -I%SQDIR% %OPTS% base85.c -link -dll -out:base85.dll
**
** To build the standalone program, define PP symbol BASE85_STANDALONE. Eg.
** *Nix or OSX: gcc -O2 -DBASE85_STANDALONE base85.c -o base85
** Win32: gcc -O2 -DBASE85_STANDALONE -o base85.exe base85.c
** Win32: cl /Os /MD -DBASE85_STANDALONE base85.c
*/
/* This will be more informative in a later version. */

```

Found in path(s):

\* /sqlite-amalgamation-3450200-zip/sqlite-amalgamation-3450200/shell.c

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

```

/*
** CAPI3REF: Configuration Options
** KEYWORDS: {configuration option}
**
** These constants are the available integer configuration options that
** can be passed as the first argument to the [sqlite3_config()] interface.
**
** Most of the configuration options for sqlite3_config()
** will only work if invoked prior to [sqlite3_initialize()] or after
** [sqlite3_shutdown()]. The few exceptions to this rule are called
** "anytime configuration options".
** ^Calling [sqlite3_config()] with a first argument that is not an
** anytime configuration option in between calls to [sqlite3_initialize()] and
** [sqlite3_shutdown()] is a no-op that returns SQLITE_MISUSE.
**
** The set of anytime configuration options can change (by insertions
** and/or deletions) from one release of SQLite to the next.
** As of SQLite version 3.42.0, the complete set of anytime configuration
** options is:
**

```

```

** SQLITE_CONFIG_LOG
**
 SQLITE_CONFIG_PCACHE_HDRSZ
**
**
** 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>
** [[SQLITE_CONFIG_SINGLETHREAD]] <dt>SQLITE_CONFIG_SINGLETHREAD</dt>
** <dd>There are no arguments to this option. ^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>
**
** [[SQLITE_CONFIG_MULTITHREAD]] <dt>SQLITE_CONFIG_MULTITHREAD</dt>
** <dd>There are no arguments to this option. ^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>
**
** [[SQLITE_CONFIG_SERIALIZED]] <dt>SQLITE_CONFIG_SERIALIZED</dt>
**
 <dd>There are no arguments to this option. ^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  
 \*\* same [prepared statement] in different threads 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 Serialized [threading mode] and  
 \*\* [sqlite3\_config()] will return [SQLITE\_ERROR] if called with the  
 \*\* SQLITE\_CONFIG\_SERIALIZED configuration option.</dd>  
 \*\*  
 \*\* [[SQLITE\_CONFIG\_MALLOC]] <dt>SQLITE\_CONFIG\_MALLOC</dt>  
 \*\* <dd> ^The SQLITE\_CONFIG\_MALLOC 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\_GETMALLOC]] <dt>SQLITE\_CONFIG\_GETMALLOC</dt>  
 \*\* <dd> ^The SQLITE\_CONFIG\_GETMALLOC 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\_SMALL\_MALLOC]] <dt>SQLITE\_CONFIG\_SMALL\_MALLOC</dt>  
 \*\* <dd> ^The SQLITE\_CONFIG\_SMALL\_MALLOC  
 option takes single argument of  
 \*\* type int, interpreted as a boolean, which if true provides a hint to  
 \*\* SQLite that it should avoid large memory allocations if possible.  
 \*\* SQLite will run faster if it is free to make large memory allocations,  
 \*\* but some application might prefer to run slower in exchange for  
 \*\* guarantees about memory fragmentation that are possible if large  
 \*\* allocations are avoided. This hint is normally off.  
 \*\* </dd>  
 \*\*  
 \*\* [[SQLITE\_CONFIG\_MEMSTATUS]] <dt>SQLITE\_CONFIG\_MEMSTATUS</dt>  
 \*\* <dd> ^The SQLITE\_CONFIG\_MEMSTATUS 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\_hard\_heap\_limit64()]  
 \*\* <li> [sqlite3\_memory\_used()]  
 \*\* <li> [sqlite3\_memory\_highwater()]  
 \*\* <li> [sqlite3\_soft\_heap\_limit64()]

\*\*  
 <li> [sqlite3\_status64()]  
 \*\* </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> The SQLITE\_CONFIG\_SCRATCH option is no longer used.  
 \*\* </dd>  
 \*\*  
 \*\* [[SQLITE\_CONFIG\_PAGECACHE]] <dt>SQLITE\_CONFIG\_PAGECACHE</dt>  
 \*\* <dd> ^The SQLITE\_CONFIG\_PAGECACHE option specifies a memory pool  
 \*\* that SQLite can use for the database page cache with the default page  
 \*\* cache implementation.  
 \*\* This configuration option is a no-op if an application-defined page  
 \*\* cache implementation is loaded using the [SQLITE\_CONFIG\_PCACHE2].  
 \*\* ^There are three arguments to SQLITE\_CONFIG\_PAGECACHE: A pointer to  
 \*\* 8-byte aligned memory (pMem), the size of each page cache line (sz),  
 \*\* and the number of cache lines (N).  
 \*\* The sz argument should be the size of the largest database page  
 \*\* (a power  
 of two between 512 and 65536) plus some extra bytes for each  
 \*\* page header. ^The number of extra bytes needed by the page header  
 \*\* can be determined using [SQLITE\_CONFIG\_PCACHE\_HDRSZ].  
 \*\* ^It is harmless, apart from the wasted memory,  
 \*\* for the sz parameter to be larger than necessary. The pMem  
 \*\* argument must be either a NULL pointer or a pointer to an 8-byte  
 \*\* aligned block of memory of at least sz\*N bytes, otherwise  
 \*\* subsequent behavior is undefined.  
 \*\* ^When pMem is not NULL, SQLite will strive to use the memory provided  
 \*\* to satisfy page cache needs, falling back to [sqlite3\_malloc()] if  
 \*\* a page cache line is larger than sz bytes or if all of the pMem buffer  
 \*\* is exhausted.  
 \*\* ^If pMem is NULL and N is non-zero, then each database connection  
 \*\* does an initial bulk allocation for page cache memory  
 \*\* from [sqlite3\_malloc()] sufficient for N cache lines if N is positive or  
 \*\* of -1024\*N bytes if N is negative, . ^If additional  
 \*\* page cache memory is needed beyond  
 what is provided by the initial  
 \*\* allocation, then SQLite goes to [sqlite3\_malloc()] separately for each  
 \*\* additional cache line. </dd>  
 \*\*  
 \*\* [[SQLITE\_CONFIG\_HEAP]] <dt>SQLITE\_CONFIG\_HEAP</dt>  
 \*\* <dd> ^The SQLITE\_CONFIG\_HEAP 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\_PAGECACHE].

\*\* ^The SQLITE\_CONFIG\_HEAP option is only available if SQLite is compiled  
 \*\* with either [SQLITE\_ENABLE\_MEMSYS3] or [SQLITE\_ENABLE\_MEMSYS5] and returns  
 \*\* [SQLITE\_ERROR] if invoked otherwise.  
 \*\* ^There are three arguments to SQLITE\_CONFIG\_HEAP:  
 \*\* 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 then the alternative memory  
 \*\* allocator is engaged to handle all of SQLite's 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> ^The SQLITE\_CONFIG\_MUTEX 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 of 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()] returns. ^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> ^The SQLITE\_CONFIG\_GETMUTEX 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> ^The SQLITE\_CONFIG\_LOOKASIDE  
 option takes two arguments that determine  
 \*\* the default size of lookaside memory 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.)^ (SQLITE\_CONFIG\_LOOKASIDE  
 \*\* sets the <i>default</i> lookaside size. The [SQLITE\_DBCONFIG\_LOOKASIDE]  
 \*\* option 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> ^The SQLITE\_CONFIG\_PCACHE2 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 [sqlite3\_pcache\_methods2] object.</dd>  
 \*\*  
 \*\* [[SQLITE\_CONFIG\_GETPCACHE2]] <dt>SQLITE\_CONFIG\_GETPCACHE2</dt>  
 \*\* <dd> ^The SQLITE\_CONFIG\_GETPCACHE2 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>^The SQLITE\_CONFIG\_URI 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>^The SQLITE\_CONFIG\_COVERING\_INDEX\_SCAN 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  
 \*\* <dd>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. </dd>  
 \*\*  
 \*\* [[SQLITE\_CONFIG\_MMAP\_SIZE]]  
 \*\* <dt>SQLITE\_CONFIG\_MMAP\_SIZE  
 \*\* <dd>^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  
 \*\* will be silently truncated if necessary so that it does not 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.  
 \*\*  
 \*\* [[SQLITE\_CONFIG\_WIN32\_HEAPSIZE]]  
 \*\* <dt>SQLITE\_CONFIG\_WIN32\_HEAPSIZE  
 \*\* <dd>^The SQLITE\_CONFIG\_WIN32\_HEAPSIZE option is only available if SQLite is  
 \*\* compiled for Windows with the [SQLITE\_WIN32\_MALLOC] pre-processor macro  
 \*\* defined. ^SQLITE\_CONFIG\_WIN32\_HEAPSIZE takes a 32-bit unsigned integer value  
 \*\* that specifies the maximum size of the created heap.  
 \*\*  
 \*\* [[SQLITE\_CONFIG\_PCACHE\_HDRSZ]]  
 \*\* <dt>SQLITE\_CONFIG\_PCACHE\_HDRSZ  
 \*\* <dd>^The SQLITE\_CONFIG\_PCACHE\_HDRSZ option takes a single parameter which  
 \*\* is a pointer to an integer and writes into that integer the number of extra  
 \*\* bytes per page required for each page in [SQLITE\_CONFIG\_PAGECACHE].  
 \*\* The amount of extra space required can change depending on the compiler,  
 \*\* target platform, and SQLite version.  
 \*\*  
 \*\* [[SQLITE\_CONFIG\_PMASZ]]  
 \*\* <dt>SQLITE\_CONFIG\_PMASZ  
 \*\* <dd>^The  
 SQLITE\_CONFIG\_PMASZ option takes a single parameter which  
 \*\* is an unsigned integer and sets the "Minimum PMA Size" for the multithreaded  
 \*\* sorter to that integer. The default minimum PMA Size is set by the  
 \*\* [SQLITE\_SORTER\_PMASZ] compile-time option. New threads are launched  
 \*\* to help with sort operations when multithreaded sorting  
 \*\* is enabled (using the [PRAGMA threads] command) and the amount of content  
 \*\* to be sorted exceeds the page size times the minimum of the  
 \*\* [PRAGMA cache\_size] setting and this value.  
 \*\*  
 \*\* [[SQLITE\_CONFIG\_STMTJRNL\_SPILL]]  
 \*\* <dt>SQLITE\_CONFIG\_STMTJRNL\_SPILL  
 \*\* <dd>^The SQLITE\_CONFIG\_STMTJRNL\_SPILL option takes a single parameter which  
 \*\* becomes the [statement journal] spill-to-disk threshold.  
 \*\* [Statement journals] are held in memory until their size (in bytes)  
 \*\* exceeds this threshold, at which point they are written to disk.  
 \*\* Or if the threshold is -1, statement journals are always held  
 \*\* exclusively in memory.  
 \*\* Since many statement journals

never become large, setting the spill

\*\* threshold to a value such as 64KiB can greatly reduce the amount of

\*\* I/O required to support statement rollback.

\*\* The default value for this setting is controlled by the

\*\* [SQLITE\_STMTJRNL\_SPILL] compile-time option.

\*\*

\*\* [[SQLITE\_CONFIG\_SORTERREF\_SIZE]]

\*\* <dt>SQLITE\_CONFIG\_SORTERREF\_SIZE

\*\* <dd>The SQLITE\_CONFIG\_SORTERREF\_SIZE option accepts a single parameter

\*\* of type (int) - the new value of the sorter-reference size threshold.

\*\* Usually, when SQLite uses an external sort to order records according

\*\* to an ORDER BY clause, all fields required by the caller are present in the

\*\* sorted records. However, if SQLite determines based on the declared type

\*\* of a table column that its values are likely to be very large - larger

\*\* than the configured sorter-reference size threshold - then a reference

\*\* is stored in each sorted record and the required column values loaded

\*\* from the database as records are returned in sorted order.

The default

\*\* value for this option is to never use this optimization. Specifying a

\*\* negative value for this option restores the default behavior.

\*\* This option is only available if SQLite is compiled with the

\*\* [SQLITE\_ENABLE\_SORTER\_REFERENCES] compile-time option.

\*\*

\*\* [[SQLITE\_CONFIG\_MEMDB\_MAXSIZE]]

\*\* <dt>SQLITE\_CONFIG\_MEMDB\_MAXSIZE

\*\* <dd>The SQLITE\_CONFIG\_MEMDB\_MAXSIZE option accepts a single parameter

\*\* [sqlite3\_int64] parameter which is the default maximum size for an in-memory

\*\* database created using [sqlite3\_deserialize()]. This default maximum

\*\* size can be adjusted up or down for individual databases using the

\*\* [SQLITE\_FCNTL\_SIZE\_LIMIT] [sqlite3\_file\_control|file-control]. If this

\*\* configuration setting is never used, then the default maximum is determined

\*\* by the [SQLITE\_MEMDB\_DEFAULT\_MAXSIZE] compile-time option. If that

\*\* compile-time option is not set, then the default maximum is 1073741824.

\*\* </dd>

\*/

/\*

\*\* The "printf" code that follows dates

from the 1980's. It is in

\*\* the public domain.

\*\*

\*\*\*\*\*

\*\*

\*\* This file contains code for a set of "printf"-like routines. These

\*\* routines format strings much like the printf() from the standard C

\*\* library, though the implementation here has enhancements to support

\*\* SQLite.

\*/

/\*

```

** 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 labelled.
**
** 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().
** /
** /*
** 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.  
\*/

Found in path(s):

\* /sqlite-amalgamation-3450200-zip/sqlite-amalgamation-3450200/sqlite3.c

## 1.25 qt 6.5.3

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ASM: a very small and fast Java bytecode manipulation framework

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3.1.0 / 2017-09-26

=====

- \* Add `DEBUG\_HIDE\_DATE` env var (#486)
- \* Remove ReDoS regexp in %o formatter (#504)
- \* Remove "component" from package.json
- \* Remove `component.json`
- \* Ignore package-lock.json
- \* Examples: fix colors printout
- \* Fix: browser detection
- \* Fix: spelling mistake (#496, @EdwardBetts)

3.0.1 / 2017-08-24

=====

- \* Fix: Disable colors in Edge and Internet Explorer (#489)

3.0.0 / 2017-08-08

=====

- \* Breaking: Remove DEBUG\_FD (#406)
- \* Breaking: Use `Date#toISOString()` instead to `Date#toUTCString()` when output is not a TTY (#418)
- \* Breaking: Make millisecond timer namespace specific and allow 'always enabled' output (#408)
- \* Addition: document `enabled` flag (#465)
- \* Addition: add 256 colors mode (#481)
- \* Addition: `enabled()` updates existing debug instances, add `destroy()` function (#440)
- \* Update: component: update "ms" to v2.0.0
- \* Update: separate the Node and Browser tests in Travis-CI
- \* Update: refactor README, fixed documentation, added "Namespace Colors" section, redid screenshots
- \* Update: separate Node.js and web browser examples for organization
- \* Update: update "browserify" to v14.4.0
- \* Fix: fix README typo (#473)

2.6.9 / 2017-09-22

=====

- \* remove ReDoS regexp in %o formatter (#504)



2.6.8 / 2017-05-18

=====

- \* Fix: Check for undefined on browser globals (#462, @marbemac)

2.6.7 / 2017-05-16

=====

- \* Fix: Update ms to 2.0.0 to fix regular expression denial of service vulnerability (#458, @hubdotcom)
- \* Fix: Inline extend function in node implementation (#452, @dougwilson)
- \* Docs: Fix typo (#455, @msasad)

2.6.5 / 2017-04-27

=====

- \* Fix: null reference check on window.documentElement.style.WebkitAppearance (#447, @thebigredgeek)
- \* Misc: clean up browser reference checks (#447, @thebigredgeek)
- \* Misc: add npm-debug.log to .gitignore (@thebigredgeek)

2.6.4 / 2017-04-20

=====

- \* Fix: bug that would occur if process.env.DEBUG is a non-string value. (#444, @LucianBuzzo)
- \* Chore: ignore bower.json in npm installations. (#437, @joaovieira)
- \* Misc: update "ms" to v0.7.3 (@tootallnate)

2.6.3 / 2017-03-13

=====

- \* Fix: Electron reference to `process.env.DEBUG` (#431, @paulcbetts)
- \* Docs: Changelog fix (@thebigredgeek)

2.6.2 / 2017-03-10

=====

- \* Fix: DEBUG\_MAX\_ARRAY\_LENGTH (#420, @slavaGanzin)
- \* Docs: Add backers and sponsors from Open Collective (#422, @piamancini)
- \* Docs: Add Slackin invite badge (@tootallnate)

2.6.1 / 2017-02-10

=====

- \* Fix: Module's `export default` syntax fix for IE8 `Expected identifier` error
- \* Fix: Whitelist DEBUG\_FD for values 1 and 2 only (#415, @pi0)
- \* Fix: IE8 "Expected identifier" error (#414, @vgoma)
- \* Fix: Namespaces would not disable once enabled (#409, @musikov)

2.6.0 / 2016-12-28

=====

- \* Fix: added better null pointer checks for browser useColors (@thebigredgeek)
- \* Improvement: removed explicit `window.debug` export (#404, @tootallnate)
- \* Improvement: deprecated `DEBUG\_FD` environment variable (#405, @tootallnate)

2.5.2 / 2016-12-25

=====

- \* Fix: reference error on window within webworkers (#393, @KlausTrainer)
- \* Docs: fixed README typo (#391, @lurch)
- \* Docs: added notice about v3 api discussion (@thebigredgeek)

2.5.1 / 2016-12-20

=====

- \* Fix: babel-core compatibility

2.5.0 / 2016-12-20

=====

- \* Fix: wrong reference in bower file (@thebigredgeek)
- \* Fix: webworker compatibility (@thebigredgeek)
- \* Fix: output formatting issue (#388, @kribblo)
- \* Fix: babel-loader compatibility (#383, @escwald)
- \* Misc: removed built asset from repo and publications (@thebigredgeek)
- \* Misc: moved source files to /src (#378, @yamikuronue)
- \* Test: added karma integration and replaced babel with browserify for browser tests (#378, @yamikuronue)
- \* Test: coveralls integration (#378, @yamikuronue)
- \* Docs: simplified language in the opening paragraph (#373, @yamikuronue)

2.4.5 / 2016-12-17

=====

- \* Fix: `navigator` undefined in Rhino (#376, @jochenberger)
- \* Fix: custom log function (#379, @hsiliev)
- \* Improvement: bit of cleanup + linting fixes (@thebigredgeek)
- \* Improvement: rm non-maintained `dist` dir (#375, @freewil)
- \* Docs: simplified language in the opening paragraph. (#373, @yamikuronue)

2.4.4 / 2016-12-14

=====

- \* Fix: work around debug being loaded in preload scripts for electron (#368, @paulcbetts)

#### 2.4.3 / 2016-12-14

=====

- \* Fix: navigation.userAgent error for react native (#364, @escwald)

#### 2.4.2 / 2016-12-14

=====

- \* Fix: browser colors (#367, @tootallnate)
- \* Misc: travis ci integration (@thebigredgeek)
- \* Misc: added linting and testing boilerplate with sanity check (@thebigredgeek)

#### 2.4.1 / 2016-12-13

=====

- \* Fix: typo that broke the package (#356)

#### 2.4.0 / 2016-12-13

=====

- \* Fix: bower.json references unbuilt src entry point (#342, @justmatt)
- \* Fix: revert "handle regex special characters" (@tootallnate)
- \* Feature: configurable util.inspect() options for NodeJS (#327, @tootallnate)
- \* Feature: %O (big O) pretty-prints objects (#322, @tootallnate)
- \* Improvement: allow colors in workers (#335, @botverse)
- \* Improvement: use same color for same namespace. (#338, @lchenay)

#### 2.3.3 / 2016-11-09

=====

- \* Fix: Catch `JSON.stringify()` errors (#195, Jovan Alleyne)
- \* Fix: Returning `localStorage` saved values (#331, Levi Thomason)
- \* Improvement: Don't create an empty object when no `process` (Nathan Rajlich)

#### 2.3.2 / 2016-11-09

=====

- \* Fix: be super-safe in index.js as well (@TooTallNate)
- \* Fix: should check whether process exists (Tom Newby)

#### 2.3.1 / 2016-11-09

=====

- \* Fix: Added electron compatibility (#324, @paulcbetts)
- \* Improvement: Added performance optimizations (@tootallnate)
- \* Readme: Corrected PowerShell environment variable example (#252, @gimre)
- \* Misc: Removed yarn lock file from source control (#321, @fengmk2)

### 2.3.0 / 2016-11-07

=====

- \* Fix: Consistent placement of ms diff at end of output (#215, @gorangajic)
- \* Fix: Escaping of regex special characters in namespace strings (#250, @zacronos)
- \* Fix: Fixed bug causing crash on react-native (#282, @vkarpov15)
- \* Feature: Enabled ES6+ compatible import via default export (#212 @bucaran)
- \* Feature: Added %O formatter to reflect Chrome's console.log capability (#279, @oncletom)
- \* Package: Update "ms" to 0.7.2 (#315, @DevSide)
- \* Package: removed superfluous version property from bower.json (#207 @kkirsche)
- \* Readme: fix USE\_COLORS to DEBUG\_COLORS
- \* Readme: Doc fixes for format string sugar (#269, @mlucol)
- \* Readme: Updated docs for DEBUG\_FD and DEBUG\_COLORS environment variables (#232, @mattlyons0)
- \* Readme: doc fixes for PowerShell (#271 #243, @exoticknight @unreadable)
- \* Readme: better docs for browser support (#224, @matthewmueller)
- \* Tooling: Added yarn integration for development (#317, @thebigredgeek)
- \* Misc: Renamed History.md to CHANGELOG.md (@thebigredgeek)
- \* Misc: Added license file (#226 #274, @CantemoInternal @sdaitzman)
- \* Misc: Updated contributors (@thebigredgeek)

### 2.2.0 / 2015-05-09

=====

- \* package: update "ms" to v0.7.1 (#202, @dougwilson)
- \* README: add logging to file example (#193, @DanielOchoa)
- \* README: fixed a typo (#191, @amir-s)
- \* browser: expose `storage` (#190, @stephenmathieson)
- \* Makefile: add a `distclean` target (#189, @stephenmathieson)

### 2.1.3 / 2015-03-13

=====

- \* Updated stdout/stderr example (#186)
- \* Updated example/stdout.js to match debug current behaviour
- \* Renamed example/stderr.js to stdout.js
- \* Update Readme.md (#184)
- \* replace high intensity foreground color for bold (#182, #183)

### 2.1.2 / 2015-03-01

=====

- \* dist: recompile
- \*
- update "ms" to v0.7.0
- \* package: update "browserify" to v9.0.3
- \* component: fix "ms.js" repo location
- \* changed bower package name

- \* updated documentation about using debug in a browser
- \* fix: security error on safari (#167, #168, @yields)

2.1.1 / 2014-12-29

=====

- \* browser: use `typeof` to check for `console` existence
- \* browser: check for `console.log` truthiness (fix IE 8/9)
- \* browser: add support for Chrome apps
- \* Readme: added Windows usage remarks
- \* Add `bower.json` to properly support bower install

2.1.0 / 2014-10-15

=====

- \* node: implement `DEBUG\_FD` env variable support
- \* package: update "browserify" to v6.1.0
- \* package: add "license" field to package.json (#135, @panuhorsmalahiti)

2.0.0 / 2014-09-01

=====

- \* package: update "browserify" to v5.11.0
- \* node: use stderr rather than stdout for logging (#29, @stephenmathieson)

1.0.4 / 2014-07-15

=====

- \* dist: recompile
- \* example: remove `console.info()` log usage
- \* example: add "Content-Type" UTF-8 header to browser example
- \* browser: place %c marker after the space character
- \* browser: reset the "content" color via `color: inherit`
- \* browser: add colors support for Firefox >= v31
- \* debug: prefer an instance `log()` function over the global one (#119)
- \* Readme: update documentation about styled console logs for FF v31 (#116, @wryk)

1.0.3 / 2014-07-09

=====

- \* Add support for multiple wildcards in namespaces (#122, @seegno)
- \* browser: fix lint

1.0.2 / 2014-06-10

=====

- \* browser: update color palette (#113, @gscottolson)

- \* common: make console logging function configurable (#108, @timoxley)
- \* node: fix %o colors on old node <= 0.8.x
- \* Makefile: find node path using shell/which (#109, @timoxley)

1.0.1 / 2014-06-06

=====

- \* browser: use `removeItem()` to clear localStorage
- \* browser, node: don't set DEBUG if namespaces is undefined (#107, @leedm777)
- \* package:
  - add "contributors" section
- \* node: fix comment typo
- \* README: list authors

1.0.0 / 2014-06-04

=====

- \* make ms diff be global, not be scope
- \* debug: ignore empty strings in enable()
- \* node: make DEBUG\_COLORS able to disable coloring
- \* \*: export the `colors` array
- \* npmignore: don't publish the `dist` dir
- \* Makefile: refactor to use browserify
- \* package: add "browserify" as a dev dependency
- \* Readme: add Web Inspector Colors section
- \* node: reset terminal color for the debug content
- \* node: map "%o" to `util.inspect()`
- \* browser: map "%j" to `JSON.stringify()`
- \* debug: add custom "formatters"
- \* debug: use "ms" module for humanizing the diff
- \* Readme: add "bash" syntax highlighting
- \* browser: add Firebug color support
- \* browser: add colors for WebKit browsers
- \* node: apply log to `console`
- \* rewrite: abstract common logic for Node & browsers
- \* add .jshintrc file

0.8.1 / 2014-04-14

=====

- \* package: re-add the  
"component" section

0.8.0 / 2014-03-30

=====

- \* add `enable()` method for nodejs. Closes #27
- \* change from stderr to stdout

- \* remove unnecessary index.js file

0.7.4 / 2013-11-13

=====

- \* remove "browserify" key from package.json (fixes something in browserify)

0.7.3 / 2013-10-30

=====

- \* fix: catch localStorage security error when cookies are blocked (Chrome)

- \* add debug(err) support. Closes #46

- \* add .browser prop to package.json. Closes #42

0.7.2 / 2013-02-06

=====

- \* fix package.json

- \* fix: Mobile Safari (private mode) is broken with debug

- \* fix: Use unicode to send escape character to shell instead of octal to work with strict mode javascript

0.7.1 / 2013-02-05

=====

- \* add repository URL to package.json

- \* add DEBUG\_COLORED to force colored output

- \* add browserify support

- \* fix component. Closes #24

0.7.0 / 2012-05-04

=====

- \* Added .component to package.json

- \* Added

debug.component.js build

0.6.0 / 2012-03-16

=====

- \* Added support for "-" prefix in DEBUG [Vinay Pulim]

- \* Added `.enabled` flag to the node version [TooTallNate]

0.5.0 / 2012-02-02

=====

- \* Added: humanize diffs. Closes #8

- \* Added `debug.disable()` to the CS variant

- \* Removed padding. Closes #10

\* Fixed: persist client-side variant again. Closes #9

0.4.0 / 2012-02-01

=====

- \* Added browser variant support for older browsers [TooTallNate]
- \* Added `debug.enable('project:\*')` to browser variant [TooTallNate]
- \* Added padding to diff (moved it to the right)

0.3.0 / 2012-01-26

=====

- \* Added millisecond diff when isatty, otherwise UTC string

0.2.0 / 2012-01-22

=====

- \* Added wildcard support

0.1.0 / 2011-12-02

=====

- \* Added: remove colors unless stderr isatty [TooTallNate]

0.0.1 / 2010-01-03

=====

- \* Initial release

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file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

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1.539,0],[0.12,10.692],[0.715,6.305],[1.809,0],[0.231,3.29]],"v":[[12.25,35.777],[-7.513,36.508],[-7.633,27.096],[-3.322,26.639],[-6.02,-15.49],[-7.167,-25.358],[-12.329,-24.171],[-12.689,-35.685],[7.518,-36.508],[6.643,-25.816],[2.242,-25.358],[4.134,6.626],[7.049,26.181],[12.395,26.273]],"c":true}},"nm":"Path 1","mn":"ADBE Vector Shape - Group"},{"ty":"fl","fillEnabled":true,"c":{"k":[0.11,0.12,0.3,1]},{"o":{"k":100},"nm":"Fill 1","mn":"ADBE Vector Graphic - Fill"},{"ty":"tr","p":{"k":[325.561,358.543],"ix":2},"a":{"k":[0,0],"ix":1},"s":{"k":[100,100],"ix":3},"r":{"k":0,"ix":6},"o":{"k":100,"ix":7},"sk":{"k":0,"ix":4},"sa":{"k":0,"ix":5},"nm":"Transform"},"nm":"Group 11","np":2,"mn":"ADBE Vector Group"},{"ty":"gr","it":{"ind":0,"ty":"sh","ks":{"k":{"i":[2.921,0.365],[-0.077,-4.935],[-2.426,-15.17],[0,0],[0.256,13.89],[0.67,6.945],[2.494,-0.548],[0,0],[-8.311,1.462],[-0.251,-3.564],[0,0]},{"o":[-0.194,4.934],[0.358,15.352],[0,0],[0.831,-13.891],[-0.127,-6.946],[-2.521,0.183],[0,0],[8.433,0.274],[0.341,3.564],[0,0],[-2.889,0.091]},{"v":[4.832,-26.182],[4.603,-11.469],[8.945,34.771],[-3.203,36.965],[-3.556,-5.255],[-4.569,-26.091],[-12.195,-25.177],[-13.628,-36.509],[12.849,-36.965],[13.602,-26.272],[13.628,-25.908]]},"c":true}},"nm":"Path 1","mn":"ADBE Vector Shape - Group"},{"ty":"fl","fillEnabled":true,"c":{"k":[0.11,0.12,0.3,1]},{"o":{"k":100},"nm":"Fill 1","mn":"ADBE Vector Graphic - Fill"},{"ty":"tr","p":{"k":[297.891,359.092],"ix":2},"a":{"k":[0,0],"ix":1},"s":{"k":[100,100],"ix":3},"r":{"k":0,"ix":6},"o":{"k":100,"ix":7},"sk":{"k":0,"ix":4},"sa":{"k":0,"ix":5},"nm":"Transform"},"nm":"Group 12","np":2,"mn":"ADBE Vector Group"},{"ty":"gr","it":{"ind":0,"ty":"sh","ks":{"k":{"i":[0.554,7.859],[0,0],[0.318,-4.478],[0.525,-4.112],[0,0]},{"o":[0,0],[-0.22,3.291],[-0.318,4.478],[0,0],[-1.465,-7.95]},{"v":[-1.736,-10.418],[-2.007,-10.418],[-2.585,1.919],[-4.159,14.256],[2.213,13.525]]},"c":true}},"nm":"Path 1","mn":"ADBE Vector Shape - Group"},{"ty":"tr","p":{"k":[271.891,357.492],"ix":2},"a":{"k":[0,0],"ix":1},"s":{"k":[100,100],"ix":3},"r":{"k":0,"ix":6},"o":{"k":100,"ix":7},"sk":{"k":0,"ix":4},"sa":{"k":0,"ix":5},"nm":"Transform"},"nm":"Group 13","np":4,"mn":"ADBE Vector Group"},{"ty":"gr","it":{"ind":0,"ty":"sh","ks":{"k":{"i":[0.808,-0.091],[0.149,2.101],[3.256,0],[-0.213,-3.016],[-4.433,0],[0.103,1.462],[0,0],[7.871,0],[0.624,8.864],[-3.265,8.863],[-5.156,0],[0.655,-8.682]]},"o":[0.026,-2.193],[-0.141,-2.011],[-4.614,0],[0.225,3.198],[2.895,0],[0,0],[-0.706,6.671],[-13.842,0],[-0.683,-9.687],[1.674,-4.478],[11.129,0],[-0.873,0.457]]},{"v":[3.732,-8.499],[3.636,-14.986],[-1.045,-28.786],[-4.522,0.184],[3.121,29.061],[5.225,13.983],[16.074,20.288],[3.261,37.467],[-15.392,0.001],[-11.003,-28.876],[-0.934,-37.467],[14.072,-10.691]]},"c":true}},"nm":"Path 1","mn":"ADBE Vector Shape - Group"},{"ty":"fl","fillEnabled":true,"c":{"k":[0.11,0.12,0.3,1]},{"o":{"k":100},"nm":"Fill 1","mn":"ADBE Vector Graphic - Fill"},{"ty":"tr","p":{"k":[237.258,357.675],"ix":2},"a":{"k":[0,0],"ix":1},"s":{"k":[100,100],"ix":3},"r":{"k":0,"ix":6},"o":{"k":100,"ix":7},"sk":{"k":0,"ix":4},"sa":{"k":0,"ix":5},"nm":"Transform"},"nm":"Group 14","np":2,"mn":"ADBE Vector Group"},{"ty":"gr","it":{"ind":0,"ty":"sh","ks":{"k":{"i":[4.795,0],[-0.187,-2.65],[-5.428,0],[0.258,3.655]]},"o":[-4.162,0],[0.264,3.747],[4.343,0],[-0.296,-4.203]]},{"v":[-1.815,-27.69],[-5.731,-

3.655],[2.894,28.876],[5.195,1.188]],"c":true}},"nm":"Path 1","mn":"ADBE Vector Shape - Group"},{"ty":"sh","ks":{"k":{"i":[13.298,0],[0.767,10.874],[-15.018,0],[-0.708,-10.052]],"o":[-15.29,0],[-0.74,-10.51],[14.204,0],[0.656,9.322]],"v":[3.455,36.827],[-15.891,1.096],[-1.735,-36.827],[16.059,1.279]],"c":true}},"nm":"Path 2","mn":"ADBE Vector Shape - Group"},{"ty":"mm","mm":1,"nm":"Merge Paths 1","mn":"ADBE Vector Filter - Merge"},{"ty":"fl","fillEnabled":true,"c":{"k":[0.11,0.12,0.3,1]],"o":{"k":100},"nm":"Fill 1","mn":"ADBE Vector Graphic - Fill"},{"ty":"tr","p":{"k":[202.687,358.316],"ix":2},"a":{"k":[0,0],"ix":1},"s":{"k":[100,100],"ix":3},"r":{"k":0,"ix":6},"o":{"k":100,"ix":7},"sk":{"k":0,"ix":4},"sa":{"k":0,"ix":5},"nm":"Transform"},"nm":"Group 15","np":4,"mn":"ADBE Vector Group"},{"ty":"gr","it":{"ind":0,"ty":"sh","ks":{"k":{"i":[1.719,0],[6.061,0],[1.063,15.079],[0.78,5.939],[1.15,-0.366],[-0.731,3.746],[-5.014,0.731],[-0.348,-4.935],[-0.574,-6.853],[-4.156,1.371],[-0.148,-2.102],[-0.167,-1.095]],"o":[-5.964,0.092],[-0.526,-15.17],[-0.418,-5.94],[-1.267,0],[0.201,-2.284],[5.246,0],[-1.546,6.306],[0.483,6.854],[4.408,-0.366],[-0.195,2.377],[0.136,1.919],[-1.176,0]],"v":[10.329,36.645],[-7.475,36.919],[-9.376,-8.042],[-11.258,-25.77],[-15.479,-25.313],[-14.137,-35.822],[-1.098,-36.919],[-0.165,5.849],[1.555,26.41],[14.538,24.491],[14.458,31.071],[15.479,36.553]],"c":true}},"nm":"Path 1","mn":"ADBE Vector Shape - Group"},{"ty":"fl","fillEnabled":true,"c":{"k":[0.11,0.12,0.3,1]],"o":{"k":100},"nm":"Fill 1","mn":"ADBE Vector Graphic - Fill"},{"ty":"tr","p":{"k":[170.557,358.315],"ix":2},"a":{"k":[0,0],"ix":1},"s":{"k":[100,100],"ix":3},"r":{"k":0,"ix":6},"o":{"k":100,"ix":7},"sk":{"k":0,"ix":4},"sa":{"k":0,"ix":5},"nm":"Transform"},"nm":"Group 16","np":2,"mn":"ADBE Vector Group"},{"ty":"gr","it":{"ind":0,"ty":"sh","ks":{"k":{"i":[-0.08,-0.343],[0,0],[-0.58,-8.24],[0,0],[-0.626,-3.262],[0,0],[-0.633,-7.382],[0,0],[-0.077,-0.286],[0,0],[0.464,8.984],[0.069,0.973],[1.134,0],[0.02,0.286],[-0.786,0.114]],"o":[-6.811,-0.171],[0,0],[6.812,-0.629],[0,0],[-3.823,-0.4],[0,0],[0,0],[0.427,5.265],[0,0],[0.296,-2.232],[-0.463,-8.985],[-0.521,-0.171],[-0.01,-4.979],[8.494,0.744],[-0.329,4.979]],"v":[7.856,-15.652],[0.322,-15.652],[0.555,2.146],[7.363,1.46],[7.988,7.926],[1.125,7.811],[1.685,15.766],[8.294,15.479],[9.008,22.404],[-5.066,22.861],[-5.029,3.29],[-6.194,-15.652],[-8.925,-15.823],[-9.008,-22.633],[7.576,-22.862]],"c":true}},"nm":"Path 1","mn":"ADBE Vector Shape - Group"},{"ty":"fl","fillEnabled":true,"c":{"k":[0.11,0.12,0.3,1]],"o":{"k":100},"nm":"Fill 1","mn":"ADBE Vector Graphic - Fill"},{"ty":"tr","p":{"k":[391.617,279.686],"ix":2},"a":{"k":[0,0],"ix":1},"s":{"k":[100,100],"ix":3},"r":{"k":0,"ix":6},"o":{"k":100,"ix":7},"sk":{"k":0,"ix":4},"sa":{"k":0,"ix":5},"nm":"Transform"},"nm":"Group 17","np":2,"mn":"ADBE Vector Group"},{"ty":"gr","it":{"ind":0,"ty":"sh","ks":{"k":{"i":[1.075,0],[3.795,0],[0.665,9.442],[0.489,3.72],[0.72,-0.229],[-0.457,2.346],[-3.141,0.458],[-0.218,-3.09],[-0.359,-4.292],[-2.603,0.859],[-0.093,-1.316],[-0.106,-0.687]],"o":[-3.735,0.057],[-0.33,-9.5],[-0.263,-3.72],[-0.794,0],[0.126,-1.43],[3.286,0],[-0.969,3.948],[0.302,4.292],[2.761,-0.229],[-0.122,1.488],[0.085,1.202],[-0.737,0]],"v":[6.468,22.947],[-4.681,23.119],[-5.872,-5.036],[-7.051,-16.138],[-9.693,-15.852],[-8.854,-22.433],[-0.687,-23.119],[-0.103,3.662],[0.973,16.538],[9.104,15.336],[9.054,19.456],[9.693,22.89]],"c":true}},"nm":"Path 1","mn":"ADBE Vector Shape - Group"},{"ty":"fl","fillEnabled":true,"c":{"k":[0.11,0.12,0.3,1]],"o":{"k":100},"nm":"Fill 1","mn":"ADBE Vector Graphic - Fill"},{"ty":"tr","p":{"k":[372.878,279.429],"ix":2},"a":{"k":[0,0],"ix":1},"s":{"k":[100,100],"ix":3},"r":{"k":0,"ix":6},"o":{"k":100,"ix":7},"sk":{"k":0,"ix":4},"sa":{"k":0,"ix":5},"nm":"Transform"},"nm":"Group 18","np":2,"mn":"ADBE Vector Group"},{"ty":"gr","it":{"ind":0,"ty":"sh","ks":{"k":{"i":[3.74,0],[0,0],[-0.132,-2.689],[-0.294,-3.375],[0,0],[0.108,2.346]],"o":[0,0],[0.076,2.69],[0.124,3.376],[0,0],[3.228,0],[-0.082,-

2.747]],"v":[-0.31,-15.823],[-0.876,-15.823],[-0.701,-7.697],[0.129,2.489],[0.527,2.489],[3.918,-8.097]],"c":true}},"nm":"Path 1","mn":"ADBE Vector Shape - Group"},"ind":1,"ty":"sh","ks":{"k":{"i":[[1.695,-0.057],[0.073,-2.976],[0.068,2.575]],"o":[[0.323,2.976],[2.521,-0.401],[-0.077,-1.888]],"v":[[0.405,8.784],[0.806,17.712],[4.418,11.874]],"c":true}},"nm":"Path 2","mn":"ADBE Vector Shape - Group"},"ind":2,"ty":"sh","ks":{"k":{"i":[[6.055,-1.716],[-0.137,-3.548],[4.887,0.229],[2.416,-0.286],[0.128,4.235],[0.948,8.641],[0.898,-0.114],[-0.118,2.346],[-2.962,-0.228],[-1.409,-2.289],[-0.168,-3.205]],"o":[[3.399,0.802],[0.128,4.235],[-2.444,-0.114],[-0.015,-4.235],[-0.33,-8.698],[-0.96,0.057],[0.057,-2.403],[3.71,-0.401],[2.618,0.172],[1.669,2.804],[0.161,5.493]],"v":[[3.315,4.263],[9.815,12.103],[2.622,22.575],[-4.663,22.919],[-4.872,10.272],[-7.152,-15.651],[-9.97,-15.422],[-9.676,-22.518],[1.081,-22.633],[7.292,-18.913],[9.809,-8.898]],"c":true}},"nm":"Path 3","mn":"ADBE Vector Shape - Group"},"ty":"mm","mm":1,"nm":"Merge Paths 1","mn":"ADBE Vector Filter - Merge"},"ty":"fl","fillEnabled":true,"c":{"k":[0.11,0.12,0.3,1]},"o":{"k":100},"nm":"Fill 1","mn":"ADBE Vector Graphic - Fill"},"ty":"tr","p":{"k":[352.954,279.343],"ix":2},"a":{"k":[0,0],"ix":1},"s":{"k":[100,100],"ix":3},"r":{"k":0,"ix":6},"o":{"k":100,"ix":7},"sk":{"k":0,"ix":4},"sa":{"k":0,"ix":5},"nm":"Transform"},"nm":"Group 19","np":5,"mn":"ADBE Vector Group"},"ty":"gr","it":{"ind":0,"ty":"sh","ks":{"k":{"i":[[0.348,4.921],[0,0],[0.2,-2.805],[0.329,-2.575],[0,0]],"o":[[0,0],[-0.138,2.06],[-0.198,2.804],[0,0],[-0.917,-4.979]],"v":[-1.087,-6.524],[-1.258,-6.524],[-1.62,1.202],[-2.605,8.927],[1.385,8.47]],"c":true}},"nm":"Path 1","mn":"ADBE Vector Shape - Group"},"ind":1,"ty":"sh","ks":{"k":{"i":[[2.238,-0.401],[0.954,3.091],[0,0],[0,0],[2.137,-0.229],[-0.724,13.848],[0,0],[0.494,2.175],[-3.327,1.03],[-0.214,-2.231],[0,0],[-1.219,-6.867],[-2.046,-6.524]],"o":[-0.222,-3.147],[0,0],[0,0],[-2.214,-0.057],[2.278,-13.505],[0,0],[-0.036,-2.118],[3.456,0],[-0.008,2.289],[0,0],[0.989,6.809],[1.278,6.867],[-2.271,-0.058]],"v":[[3.21,23.92],[2.031,14.42],[-2.894,14.478],[-3.527,23.176],[-10.059,23.748],[-5.738,-16.252],[-7.605,-16.195],[-8.068,-22.776],[3.975,-23.92],[4.055,-17.168],[2.085,-16.996],[5.234,3.605],[10.059,23.806]],"c":true}},"nm":"Path 2","mn":"ADBE Vector Shape - Group"},"ty":"mm","mm":1,"nm":"Merge Paths 1","mn":"ADBE Vector Filter - Merge"},"ty":"fl","fillEnabled":true,"c":{"k":[0.11,0.12,0.3,1]},"o":{"k":100},"nm":"Fill 1","mn":"ADBE Vector Graphic - Fill"},"ty":"tr","p":{"k":[335.321,278.914],"ix":2},"a":{"k":[0,0],"ix":1},"s":{"k":[100,100],"ix":3},"r":{"k":0,"ix":6},"o":{"k":100,"ix":7},"sk":{"k":0,"ix":4},"sa":{"k":0,"ix":5},"nm":"Transform"},"nm":"Group 20","np":4,"mn":"ADBE Vector Group"},"ty":"gr","it":{"ind":0,"ty":"sh","ks":{"k":{"i":[-0.487,-6.924],[-0.778,-7.84],[1.793,-0.286],[3.167,6.352],[0,0],[-1.124,-5.494],[2.181,-0.401],[0.483,6.867],[0.796,6.467],[0,0],[-0.369,2.003],[-2.416,0.286],[-1.145,-0.973],[1.046,7.611],[-1.905,0.286]],"o":[[0.557,7.897],[-1.809,0.057],[-1.608,-6.753],[0,0],[0.334,5.551],[-2.218,-0.114],[-0.254,-6.81],[-0.456,-6.466],[0,0],[0.086,-2.003],[2.493,0],[0.46,1.716],[-0.597,-7.668],[1.93,0.057],[0.145,6.867]],"v":[[8.94,-1.431],[11.228,22.203],[5.765,22.661],[-0.854,1.888],[-0.616,6.065],[1.355,22.775],[-5.306,23.119],[-6.353,2.632],[-8.46,-16.825],[-11.229,-16.71],[-10.753,-22.833],[-3.352,-23.119],[4.419,1.144],[2.394,-21.975],[8.216,-22.147]],"c":true}},"nm":"Path 1","mn":"ADBE Vector Shape - Group"},"ty":"fl","fillEnabled":true,"c":{"k":[0.11,0.12,0.3,1]},"o":{"k":100},"nm":"Fill 1","mn":"ADBE Vector Graphic - Fill"},"ty":"tr","p":{"k":[311.676,279.143],"ix":2},"a":{"k":[0,0],"ix":1},"s":{"k":[100,100],"ix":3},"r":{"k":0,"ix":6},"o":{"k":100,"ix":7},"sk":{"k":0,"ix":4},"sa":{"k":0,"ix":5},"nm":"Transform"},"nm":"Group 21","np":2,"mn":"ADBE Vector Group"},"ty":"gr","it":{"ind":0,"ty":"sh","ks":{"k":{"i":[-0.08,-0.343],[0,0],[-0.581,-8.24],[0,0],[-0.626,-3.262],[0,0],[-0.634,-7.382],[0,0],[-0.077,-0.286],[0,0],[0.464,8.984],[0.069,0.973],[1.133,0],[0.02,0.286],[-0.785,0.114]],"o":[-6.811,-0.171],[0,0],[6.811,-0.629],[0,0],[-3.824,-0.4],[0,0],[0,0],[0.428,5.265],[0,0],[0.297,-2.232],[-0.463,-8.985],[-0.522,-0.171],[-0.011,-

4.979],[8.494,0.744],[-0.328,4.979]],"v":[[7.857,-15.652],[0.322,-15.652],[0.556,2.146],[7.363,1.46],[7.989,7.926],[1.126,7.811],[1.686,15.766],[8.294,15.479],[9.009,22.404],[-5.066,22.861],[-5.029,3.29],[-6.193,-15.652],[-8.924,-15.823],[-9.008,-22.633],[7.576,-22.862]],"c":true}},"nm":"Path 1","mn":"ADBE Vector Shape - Group"},"{"ty":"fl","fillEnabled":true,"c":{"k":[0.11,0.12,0.3,1]},"o":{"k":100},"nm":"Fill 1","mn":"ADBE Vector Graphic - Fill"},"{"ty":"tr","p":{"k":[290.778,279.686],"ix":2},"a":{"k":[0,0],"ix":1},"s":{"k":[100,100],"ix":3},"r":{"k":0,"ix":6},"o":{"k":100,"ix":7},"sk":{"k":0,"ix":4},"sa":{"k":0,"ix":5},"nm":"Transform"},"nm":"Group 22","np":2,"mn":"ADBE Vector Group"},"{"ty":"gr","it":{"ind":0,"ty":"sh","ks":{"k":{"i":[-0.081,-0.343],[0,0],[-0.58,-8.24],[0,0],[-0.627,-3.262],[0,0],[-0.634,-7.382],[0,0],[-0.077,-0.286],[0,0],[0.464,8.984],[0.069,0.973],[1.133,0],[0.02,0.286],[-0.786,0.114]},"o":{"i":[-6.811,-0.171],[0,0],[6.811,-0.629],[0,0],[-3.824,-0.4],[0,0],[0,0],[0.428,5.265],[0,0],[0.296,-2.232],[-0.463,-8.985],[-0.522,-0.171],[-0.011,-4.979],[8.494,0.744],[-0.329,4.979]],"v":[[7.857,-15.652],[0.322,-15.652],[0.555,2.146],[7.362,1.46],[7.988,7.926],[1.125,7.811],[1.685,15.766],[8.293,15.479],[9.008,22.404],[-5.066,22.861],[-5.03,3.29],[-6.193,-15.652],[-8.924,-15.823],[-9.008,-22.633],[7.576,-22.862]],"c":true}},"nm":"Path 1","mn":"ADBE Vector Shape - Group"},"{"ty":"fl","fillEnabled":true,"c":{"k":[0.11,0.12,0.3,1]},"o":{"k":100},"nm":"Fill 1","mn":"ADBE Vector Graphic - Fill"},"{"ty":"tr","p":{"k":[262.114,279.686],"ix":2},"a":{"k":[0,0],"ix":1},"s":{"k":[100,100],"ix":3},"r":{"k":0,"ix":6},"o":{"k":100,"ix":7},"sk":{"k":0,"ix":4},"sa":{"k":0,"ix":5},"nm":"Transform"},"nm":"Group 23","np":2,"mn":"ADBE Vector Group"},"{"ty":"gr","it":{"ind":0,"ty":"sh","ks":{"k":{"i":[6.798,0],[1.597,4.177],[0.612,-0.171],[0,0],[-2.348,0.457],[-0.153,-1.373],[-1.927,0],[0.258,2.06],[0.404,0.916],[1.757,0],[0.622,5.608],[-8.158,0],[-0.5,-4.693],[0,0],[0.433,-1.087],[2.424,-0.172],[0.348,3.319],[1.416,0],[-0.214,-2.232],[-1.304,-12.074]},"o":{"i":[-4.306,0],[-0.62,0.057],[0,0],[2.473,-0.287],[-0.13,1.373],[0.149,1.317],[2.606,0],[-0.069,-0.973],[-1.769,-0.172],[-6.402,0],[-0.601,-6.123],[6.006,0],[0,0],[-0.029,1.201],[-2.448,-0.171],[0.224,-3.262],[-0.068,-0.973],[-2.21,0],[1.066,10.301],[0.585,5.895]],"v":[[1.068,23.177],[-8.165,16.768],[-10.073,17.053],[-9.471,11.904],[-2.312,10.588],[-2.305,14.707],[0.527,19.514],[3.454,10.416],[2.682,7.497],[-2.607,7.211],[-9.768,-1.144],[-1.463,-23.176],[6.522,-11.158],[7.923,-11.387],[7.307,-4.864],[-0.204,-4.52],[-0.053,-14.42],[-1.786,-17.339],[-4.353,-3.09],[9.783,9.385]],"c":true}},"nm":"Path 1","mn":"ADBE Vector Shape - Group"},"{"ty":"fl","fillEnabled":true,"c":{"k":[0.11,0.12,0.3,1]},"o":{"k":100},"nm":"Fill 1","mn":"ADBE Vector Graphic - Fill"},"{"ty":"tr","p":{"k":[242.765,279.142],"ix":2},"a":{"k":[0,0],"ix":1},"s":{"k":[100,100],"ix":3},"r":{"k":0,"ix":6},"o":{"k":100,"ix":7},"sk":{"k":0,"ix":4},"sa":{"k":0,"ix":5},"nm":"Transform"},"nm":"Group 24","np":2,"mn":"ADBE Vector Group"},"{"ty":"gr","it":{"ind":0,"ty":"sh","ks":{"k":{"i":[0.347,4.921],[0,0],[0.199,-2.805],[0.328,-2.575],[0,0]},"o":{"i":[0,0],[-0.138,2.06],[-0.199,2.804],[0,0],[-0.917,-4.979]],"v":[[1.086,-6.524],[-1.257,-6.524],[-1.618,1.202],[-2.604,8.927],[1.387,8.47]],"c":true}},"nm":"Path 1","mn":"ADBE Vector Shape - Group"},"{"ind":1,"ty":"sh","ks":{"k":{"i":[2.238,-0.401],[0.954,3.091],[0,0],[0,0],[2.138,-0.229],[-0.724,13.848],[0,0],[0.493,2.175],[-3.327,1.03],[-0.214,-2.231],[0,0],[-1.22,-6.867],[-2.046,-6.524]],"o":{"i":[-0.222,-3.147],[0,0],[0,0],[-2.213,-0.057],[2.279,-13.505],[0,0],[-0.036,-2.118],[3.455,0],[-0.009,2.289],[0,0],[0.99,6.809],[1.278,6.867],[-2.27,-0.058]],"v":[[3.212,23.92],[2.033,14.42],[-2.893,14.478],[-3.526,23.176],[-10.058,23.748],[-5.737,-16.252],[-7.604,-16.195],[-8.066,-22.776],[3.977,-23.92],[4.056,-17.168],[2.085,-16.996],[5.236,3.605],[10.059,23.806]],"c":true}},"nm":"Path 2","mn":"ADBE Vector Shape - Group"},"{"ty":"mm","mm":1,"nm":"Merge

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Graphic -

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Graphic -

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Graphic -
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Graphic -
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Graphic -
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19.043],[-56,-19.043],[-38,-24.609],[33.714,-22.609],[53.334,-15.276],[103.334,-7.943],[122,25.573],[-122,16.724]],"c":true}},"nm":"Path 1","mn":"ADBE Vector Shape - Group",{ "ty":"fl","fillEnabled":true,"c":{"k":[0.26,0.22,0.22,1]},{"o":{"k":100},"nm":"Fill 1","mn":"ADBE Vector Graphic - Fill",{ "ty":"tr","p":{"k":[225.666,636.276],"ix":2},"a":{"k":[0,0],"ix":1},"s":{"k":[100,100],"ix":3},"r":{"k":0,"ix":6},"o":{"k":100,"ix":7},"sk":{"k":0,"ix":4},"sa":{"k":0,"ix":5},"nm":"Transform"}],"nm":"Group 18","np":2,"mn":"ADBE Vector Group",{ "ty":"gr","it":{"ind":0,"ty":"sh","ks":{"k":{"i":[[0,0],[7.334,-1.334],[0,0],[6.666,-2.667],[0,0],[3.333,-2],[0,0],[-4.667,-0.666],[0,0],[-4,0],[0,0],[-5.334,-0.667]],[0,0],[-7.333,1.333],[0,0],[-6.667,2.666],[0,0],[-3.333,2],[0,0],[4.666,0.667],[0,0],[4,0],[0,0],[5.333,0.667]],[0,0],[-6.667],[12.333,-15.333],[3,-6.667],[-4.333,-15.333],[-10.333,-2],[-17,-2],[-21,10],[-16.333,17.333],[-9,10.667],[-4.333,14.667],[5,1],[9.667,10]"],"c":true}}},"nm":"Path 1","mn":"ADBE Vector Shape - Group",{ "ty":"fl","fillEnabled":true,"c":{"k":[0.92,0.83,0.7,1]},{"o":{"k":100},"nm":"Fill 1","mn":"ADBE Vector Graphic - Fill",{ "ty":"tr","p":{"k":[222.541,646.331],"ix":2},"a":{"k":[23.207,59.301],"ix":1},"s":{"k":[100,100],"ix":3},"r":{"k":{"i":{"x":[0.833],"y":[0.833]},"o":{"x":[0.167],"y":[0.167]},"n":["0p833\_0p833\_0p167\_0p167"],"t":0,"s":0},"e":8}},{ "i":{"x":[0.833],"y":[0.833]},"o":{"x":[0.167],"y":[0.167]},"n":["0p833\_0p833\_0p167\_0p167"],"t":8,"s":8},"e":[-8]},{ "i":{"x":[0.833],"y":[0.833]},"o":{"x":[0.167],"y":[0.167]},"n":["0p833\_0p833\_0p167\_0p167"],"t":23,"s":[-8],"e":1}},{ "i":{"x":[0.833],"y":[0.833]},"o":{"x":[0.167],"y":[0.167]},"n":["0p833\_0p833\_0p167\_0p167"],"t":38,"s":1},"e":[-17]},{ "i":{"x":[0.833],"y":[0.833]},"o":{"x":[0.167],"y":[0.167]},"n":["0p833\_0p833\_0p167\_0p167"],"t":54,"s":[-17],"e":4}},{ "i":{"x":[0.833],"y":[0.833]},"o":{"x":[0.167],"y":[0.167]},"n":["0p833\_0p833\_0p167\_0p167"],"t":68,"s":4},"e":11}},{ "i":{"x":[0.833],"y":[0.833]},"o":{"x":[0.167],"y":[0.167]},"n":["0p833\_0p833\_0p167\_0p167"],"t":82,"s":11},"e":5}},{ "i":{"x":[0.833],"y":[0.833]},"o":{"x":[0.167],"y":[0.167]},"n":["0p833\_0p833\_0p167\_0p167"],"t":98,"s":5},"e":3}},{ "i":{"x":[0.833],"y":[0.833]},"o":{"x":[0.167],"y":[0.167]},"n":["0p833\_0p833\_0p167\_0p167"],"t":111,"s":3},"e":0}},{ "i":{"x":[0.833],"y":[0.833]},"o":{"x":[0.167],"y":[0.167]},"n":["0p833\_0p833\_0p167\_0p167"],"t":120,"s":0},"e":8}},{ "i":{"x":[0.833],"y":[0.833]},"o":{"x":[0.167],"y":[0.167]},"n":["0p833\_0p833\_0p167\_0p167"],"t":128,"s":8},"e":8}},{ "i":{"x":[0.833],"y":[0.833]},"o":{"x":[0.167],"y":[0.167]},"n":["0p833\_0p833\_0p167\_0p167"],"t":143,"s":8},"e":1}},{ "i":{"x":[0.833],"y":[0.833]},"o":{"x":[0.167],"y":[0.167]},"n":["0p833\_0p833\_0p167\_0p167"],"t":158,"s":1},"e":17}},{ "i":{"x":[0.833],"y":[0.833]},"o":{"x":[0.167],"y":[0.167]},"n":["0p833\_0p833\_0p167\_0p167"],"t":174,"s":17},"e":4}},{ "i":{"x":[0.833],"y":[0.833]},"o":{"x":[0.167],"y":[0.167]},"n":["0p833\_0p833\_0p167\_0p167"],"t":188,"s":4},"e":11}},{ "i":{"x":[0.833],"y":[0.833]},"o":{"x":[0.167],"y":[0.167]},"n":["0p833\_0p833\_0p167\_0p167"],"t":202,"s":11},"e":5}},{ "i":{"x":[0.833],"y":[0.833]},"o":{"x":[0.167],"y":[0.167]},"n":["0p833\_0p833\_0p167\_0p167"],"t":218,"s":5},"e":3}},{ "i":{"x":[0.833],"y":[0.833]},"o":{"x":[0.167],"y":[0.167]},"n":["0p833\_0p833\_0p167\_0p167"],"t":231,"s":3},"e":0}},{ "i":{"x":[0.833],"y":[0.833]},"o":{"x":[0.167],"y":[0.167]},"n":["0p833\_0p833\_0p167\_0p167"],"t":240,"s":0},"e":8}},{ "i":{"x":[0.833],"y":[0.833]},"o":{"x":[0.167],"y":[0.167]},"n":["0p833\_0p833\_0p167\_0p167"],"t":248,"s":8},"e":8}},{ "i":{"x":[0.833],"y":[0.833]},"o":{"x":[0.167],"y":[0.167]},"n":["0p833\_0p833\_0p167\_0p167"],"t":263,"s":8},"e":1}},{ "i":{"x":[0.833],"y":[0.833]},"o":{"x":[0.167],"y":[0.167]},"n":["0p833\_0p833\_0p167\_0p167"],"t":278,"s":1},"e":17}},{ "i":{"x":[0.833],"y":[0.833]},"o":{"x":[0.167],"y":[0.167]},"n":["0p833\_0p833\_0p167\_0p167"],"t":294,"s":17},"e":4}},{ "i":{"x":[0.833],"y":[0.833]},"o":{"x":[0.167],"y":[0.167]},"n":["0p833\_0p833\_0p167\_0p167"],"t":308,"s":4},"e":11}},{ "i":{"x":[0.833],"y":[0.833]},"o":{"x":[0.167],"y":[0.167]},"n":["0p833\_0p833\_0p167\_0p167"]

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Graphic -

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Licenses pursuant to agreed pricing terms or, if no specific pricing terms have been agreed upon, at The Qt Company's standard pricing terms applicable at the time of purchase.

Unless expressly otherwise agreed, any price or other term quoted to the Licensee or specified herein shall only be valid for the thirty (30) days from the effective date of this Agreement, Appendix 2 or the date of the quote, as applicable.

Licensee shall submit all purchase orders for Development Licenses and Distribution Licenses to The Qt Company by email or any other method acceptable to The Qt Company (each such order is referred to herein as a "Purchase Order") for confirmation, whereupon the Purchase Order shall become binding between the Parties.

Licensee acknowledges and agrees that all Purchase Orders for Licensed Software the Licensee makes during the Agreement Term shall be governed exclusively under the terms of this Agreement.

## 10.3. Distribution License Packs

Unless otherwise agreed,  
Distribution Licenses shall be purchased by way of  
Distribution License Packs.

Upon due payment of the ordered Distribution License Pack(s), the Licensee will have an account of Distribution Licenses available for distributing the Redistributables in accordance with this Agreement.

Each time Licensee distributes a copy of Redistributables, then one Distribution License is used, and Licensee's account of available Distribution Licenses is decreased accordingly.

Licensee may distribute copies of the Redistributables so long as Licensee has Distribution Licenses remaining on its account.

## 10.4. Payment Terms

License Fees and any other charges under this Agreement shall be paid by Licensee no later than thirty (30) days from the date of the applicable invoice from The Qt Company.

The Qt Company will submit an invoice to Licensee after the date of this Agreement and/or after The Qt Company receives a Purchase Order from Licensee.

A late payment charge of the lower of (a) one percent per month; or (b) the interest rate stipulated by applicable law, shall be charged on any unpaid balances that remain past due and which have not been disputed by the Licensee in good faith.

#### 10.5. Taxes

All License Fees and other charges payable hereunder are gross amounts but exclusive of any value added tax, use tax, sales tax, withholding tax and other taxes, duties or tariffs ("Taxes") levied directly for the sale, delivery or use of Licensed Software hereunder pursuant to any applicable law. Such applicable Taxes shall be paid by Licensee to The Qt Company, or, where applicable, in lieu of payment of such Taxes to The Qt Company, Licensee shall provide an exemption certificate to The Qt Company and any applicable authority.

### 11. RECORD-KEEPING AND REPORTING OBLIGATIONS; AUDIT RIGHTS

#### 11.1. Licensee's Record-keeping

Licensee shall at all times during the Agreement Term and for a period of two (2) years thereafter maintain Licensee's Records in an accurate and up-to-date form. Licensee's

Records shall be adequate to reasonably enable The Qt Company to determine Licensee's compliance with the provisions of this Agreement. The records shall conform to general good accounting practices.

Licensee shall, within thirty (30) days from receiving The Qt Company's request to that effect, deliver to The Qt Company a report based on Licensee's Records, such report to contain information, in sufficient detail, on (i) number and identity of users working with Licensed Software or Open Source Qt, (ii) copies of Redistributables distributed by Licensee during the most recent calendar quarter and/or any other term specified by The Qt Company, , and (iii) any other information pertaining to Licensee's compliance with the terms of this Agreement (like e.g. information on products and/or projects relating to use of Distribution Licenses), as The Qt Company may reasonably require from time to time.

#### 11.2. The Qt Company's Audit Rights

The Qt Company or an independent auditor acting on behalf of The Qt Company's, may, upon at least thirty (30) days' prior written notice and at its expense,

audit Licensee with respect to the Licensee's use of the Licensed Software, but not more frequently than once during each 6-month period. Such audit may be conducted by mail, electronic means or through an in-person visit to Licensee's place of business. Any possible in-person audit shall be conducted during regular business hours at Licensee's facilities and shall not unreasonably interfere with Licensee's business activities and shall be limited in scope to verify Licensee's compliance with the terms of this Agreement. The Qt Company or the independent auditor acting on behalf of The Qt Company shall be entitled to inspect Licensee's Records and conduct necessary interviews of Licensee's relevant employees and Contractors. All such Licensee's Records and use thereof shall be subject to an obligation of confidentiality under this Agreement.

If an audit reveals that Licensee is using the Licensed Software beyond scope of the licenses Licensee has paid for, Licensee shall pay to The Qt Company any amounts owed for such unauthorized use within 30 days from receipt of the corresponding invoice from The Qt Company.

In addition, in the event the audit reveals a material violation of the terms of this Agreement (without limitation, either (i) underpayment of more than 10 % of License Fees or 10,000 euros (whichever is more) or (ii) distribution of products, which include or result from Prohibited Combination, shall be deemed a material violation for purposes of this section), then the Licensee shall pay The Qt Company's reasonable cost of conducting such audit.

## 12. TERM AND TERMINATION

### 12.1. Agreement Term

This Agreement shall enter into force upon due acceptance by both Parties and remain in force until terminated pursuant to the terms of this Section 12 ("Agreement Term").

### 12.2. Termination for breach and suspension of rights

Either Party shall have the right to terminate this Agreement upon thirty (30) days prior written notice if the other Party commits a material breach of any obligation of this Agreement and fails to remedy such breach within such notice period.

Instead of termination, The Qt Company shall have the right to suspend or withhold grants of all rights to the Licensed Software hereunder, including but not limited to the Development Licenses, Distribution License, and Support, should Licensee fail to make payment in timely fashion or otherwise violates or is reasonably suspected to violate its obligations or terms of this Agreement, and where such violation or breach is not cured within ten (10) business days following The Qt Company's written notice thereof.

### 12.3. Termination for insolvency

Either Party shall have the right to terminate this Agreement immediately upon written notice in the event that the other Party becomes insolvent, files for any form of bankruptcy, makes any assignment for the benefit of creditors, has a receiver, administrative receiver or officer appointed over the whole or a substantial part of its assets, ceases to conduct business, or an act equivalent to any of the above occurs under the laws of the jurisdiction of the other Party.

### 12.4. Parties' Rights and Duties upon Termination

Upon expiry or termination of the Agreement, Licensee shall cease and shall cause all Designated Users (including those of its Affiliates' and Contractors') to cease using the Licensed Software under this Agreement. For clarity, a Development License of a Designated User or a QA Tools License, and all rights relating thereto, shall always terminate at the expiry of the respective Development License Term, even if the Agreement continues to remain in force.

Upon such termination the Licensee shall destroy or return to The Qt Company all copies of the Licensed Software and all related materials and will certify the same by Licensee's duly authorized officer to The Qt Company upon its request, provided however that Licensee may retain and exploit such copies of the Licensed Software as it may reasonably require in providing continued support to Customers.

Except when this Agreement is terminated by The Qt Company due to Licensee's material breach as set forth in Section 12.2, the Licensee may continue distribution of Applications and Devices under the terms of this Agreement despite the termination of this Agreement. In such event the terms hereof will continue to be applicable and govern any such distribution of Applications and Devices beyond the expiry or termination of this Agreement. In case of termination by The Qt Company due to Licensee's material breach, Licensee must cease any distribution of Applications and Devices at the date of termination of this Agreement.

Expiry or termination of this Agreement for any reason whatsoever shall not relieve Licensee of its obligation to pay any License Fees accrued or payable to The Qt Company prior to the effective date of termination, and Licensee pay to The Qt Company all such fees within 30 days from the effective date of termination of this Agreement.

Termination of this Agreement shall not affect any rights of Customers to continue use of Applications and Devices (and therein incorporated

Redistributables).

#### 12.5. Extension of Rights under Special Circumstances

In the event of The Qt Company choosing not to renew the Development License(s) or QA Tools Licenses, as set forth in Section 3.1 and 3.5 respectively, and where such decision of non-renewal is not due to any ongoing breach or alleged breach (as reasonably determined by The Qt Company) by Licensee of the terms of this Agreement or any applicable license terms of Open Source Qt, then all valid and affected Development Licenses and QA Tools licenses possessed by the Licensee at such date shall be extended to be valid in perpetuity under the terms of this Agreement and Licensee is entitled to purchase additional licenses as set forth in Section

10.2.

In the event The Qt Company is declared bankrupt under a final, non-cancellable decision by relevant court of law, and this Agreement is not, at the date of expiry of the Development License(s) or QA Tools Licenses, assigned to party, who has assumed The Qt Company's position as a legitimate licensor of Licensed Software under this Agreement, then all valid Development Licenses and QA Tools Licenses possessed by the Licensee at such date of expiry, and which the Licensee has not notified for expiry, shall be extended to be valid in perpetuity under the terms of this Agreement.

For clarity, in case of an extension under this Section 12.5, any such extension shall not apply to The Qt Company's Support obligations, but Support shall be provided only up until the end of the respective fixed Development License Term regardless of the extension of relevant Development License or QA Tools License, unless otherwise agreed between the Parties.

#### 13. GOVERNING LAW AND LEGAL VENUE

In the event this Agreement is in the name of The Qt Company Inc., a Delaware Corporation, then:

- (i) this Agreement shall be construed and interpreted in accordance with the laws of the State of California, USA, excluding its choice of law provisions;
- (ii) the United Nations Convention on Contracts for the International Sale of Goods will not apply to this Agreement; and
- (iii) any dispute, claim or controversy arising out of or relating to this Agreement or the breach, termination, enforcement, interpretation or validity thereof, including the determination of the scope or applicability of this Agreement to arbitrate, shall be determined by arbitration in San Francisco, USA, before one arbitrator. The arbitration shall be administered by JAMS pursuant to JAMS' Streamlined Arbitration Rules and Procedures. Judgment on the Award may be entered in any court having jurisdiction. This Section shall not preclude

parties from seeking provisional remedies in aid of arbitration from a court of appropriate jurisdiction.

In the event this Agreement is in the name of The Qt Company Ltd., a Finnish Company, then:

- (i) this Agreement shall be construed and interpreted in accordance with the laws of Finland, excluding its choice of law provisions;
- (ii) the United Nations Convention on Contracts for the International Sale of Goods will not apply to this Agreement; and
- (iii) any disputes, controversy or claim arising out of or relating to this Agreement, or the breach, termination or validity thereof shall be finally settled by arbitration in accordance with the Arbitration Rules of International Chamber of Commerce. The arbitration tribunal shall consist of one (1), or if either Party so requires, of three (3), arbitrators. The award shall be final and binding and enforceable in any court of competent jurisdiction.

The arbitration shall be held in

Helsinki, Finland and the process shall be conducted in the English language. This Section shall not preclude parties from seeking provisional remedies in aid of arbitration from a court of appropriate jurisdiction.

## 14. GENERAL PROVISIONS

### 14.1. No Assignment

Except in the case of a merger or sale of substantially all of its corporate assets, Licensee shall not be entitled to assign or transfer all or any of its rights, benefits and obligations under this Agreement without the prior written consent of The Qt Company, which shall not be unreasonably withheld or delayed. The Qt Company shall be entitled to freely assign or transfer any of its rights, benefits or obligations under this Agreement.

### 14.2. No Third-Party Representations

Licensee shall make no representations or warranties concerning the Licensed Software on behalf of The Qt Company. Any representation or warranty Licensee makes or purports to make on The Qt Company's behalf shall be void as to The Qt Company.

### 14.3. Surviving Sections

Any terms and conditions that by their nature or otherwise reasonably should survive termination of this Agreement shall so be deemed to survive. Such sections include especially the following: 1, 2, 6, 7, 9, 11, 12.4, 13 and 14.

### 14.4. Entire Agreement

This Agreement, the Appendices hereto, the License Certificate and any applicable quote and Purchase Order accepted by The Qt Company constitute the complete agreement between the Parties and supersedes all prior or contemporaneous discussions, representations, and proposals, written or oral, with respect to the subject matters discussed herein.

In the event of any conflict or inconsistency between this Agreement and any Purchase Order, the terms of this Agreement will prevail over the terms of the Purchase Order with respect to such conflict or inconsistency.

Parties specifically acknowledge and agree that this Agreement prevails over any click-to-accept or similar agreements the Designated Users may need to accept online upon download of the Licensed Software, as may be required by The Qt Company's applicable processes relating to Licensed Software.

#### 14.5. Modifications

No modification of this Agreement shall be effective unless contained in a writing executed by an authorized representative of each Party. No term or condition contained in Licensee's Purchase Order ("Deviating Terms") shall apply unless The Qt Company has expressly agreed such Deviating Terms in writing. Unless and to the extent expressly agreed by The Qt Company, any such Deviating Terms shall be deemed void and with no legal effect. For clarity, delivery of the Licensed Software following the receipt of the Purchase Order including Deviating Terms shall not constitute acceptance of such Deviating Terms.

#### 14.6. Force Majeure

Except for the payment obligations hereunder, neither Party shall be liable to the other for any delay or non-performance of its obligations hereunder in the event and to the extent that such delay or non-performance is due to an event of act of God, terrorist attack or other similar unforeseeable catastrophic event that prevents either Party for fulfilling its obligations under this Agreement and which such Party cannot avoid or circumvent ("Force Majeure Event"). If the Force Majeure Event results in a delay or non-performance of a Party for a period of three (3) months or longer, then either Party shall have the right to terminate this Agreement with immediate effect without any liability (except for the obligations of payment arising prior to the event of Force Majeure) towards the other Party.

#### 14.7. Notices

Any notice given by one Party to the other shall be deemed properly given and deemed received if specifically acknowledged by the receiving Party in writing

or when successfully delivered to the recipient by hand, fax, or special courier during normal business hours on a business day to the addresses specified

for each Party on the signature page. Each communication and document made or delivered by one Party to the other Party pursuant to this Agreement shall be in the English language.

#### 14.8. Export Control

Licensee acknowledges that the Redistributables, as incorporated in Applications or Devices, may be subject to export control restrictions under the applicable laws of respective countries. Licensee shall fully comply with all applicable export license restrictions and requirements as well as with all laws and regulations relating to the Redistributables and exercise of licenses hereunder and shall procure all necessary governmental authorizations, including without limitation, all necessary licenses, approvals, permissions or consents, where necessary for the re-exportation of the Redistributables, Applications and/or Devices.

#### 14.9. No Implied License

There are no implied licenses or other implied rights granted under this Agreement, and all rights, save for those expressly granted hereunder, shall remain with The Qt Company and its licensors. In addition, no licenses or immunities are granted to the combination of the Licensed Software with any other software or hardware not delivered by The Qt Company under this Agreement.

#### 14.10. Attorney Fees

The prevailing Party in any action to enforce this Agreement shall be entitled to recover its attorney's fees and costs in connection with such action, as to be ordered by the relevant dispute resolution body.

#### 14.11. Privacy

Licensee acknowledges and agrees that for the purpose of this Agreement, The Qt Company may collect, use, transfer and disclose personal data pertaining to Designated Users as well as any other employees and directors of the Licensee and its Contractors relevant for carrying out the intent of this Agreement. Such personal data will be primarily collected from the relevant individuals but may be collected also from Licensee (e.g. in the course of Licensee's reporting obligations). The Parties acknowledge that as

The Qt Company determines the purpose and means for such collection and processing of the applicable personal data, The Qt Company shall be regarded as the Data Controller under the applicable Data Protection Legislation.



The Qt Company shall process any such personal data in accordance with its privacy and security policies and practices, which will comply with all applicable requirements of the Data Protection Legislation.

#### 14.12. Severability

If any provision of this Agreement shall be adjudged by any court of competent jurisdiction to be unenforceable or invalid, that provision shall be limited or eliminated to the minimum extent necessary so that this Agreement shall otherwise remain in full force and effect and enforceable.

#### 14.13. Marketing Rights

Parties have agreed upon Marketing Rights pursuant to Appendix 7, if any.

### APPENDICES

The Agreement includes following Appendices 1-10, as applicable.

- Appendix 1: Licensed Software details
- Appendix 2: Pricing
- 
- Appendix 3: Add-on Software details (optional)
- Appendix 4: Small business and startup Licenses (optional)
- Appendix 5: Non-commercial and educational Licenses (optional)
- Appendix 6: License Reporting (optional)
- Appendix 7: Marketing Rights (optional)
- Appendix 8: Intentionally left blank (optional)
- Appendix 9: Support Terms
- Appendix 10: Conversion from legacy Licenses to Subscription (optional)
- Appendix 11: TERMS OF USE - QT INSIGHT TRACKER LIBRARY

### APPENDIX 1: LICENSED SOFTWARE

The modules and/or tools that are included in the latest publicly available version of the respective product at the effective date of this Agreement- Qt for Application Development Professional (ADP), Qt for Application Development Enterprise (ADE), Qt for Device Creation Professional (DCP), Qt for Device Creation Enterprise (DCE), - are marked with "X" in the below table. The modules and tools are specific to each product version respectively and may vary from version to version. Modules and tools included in the latest publicly available version of the respective product at any given time are listed in Appendix 1 of the latest version of this Agreement available at [www.qt.io/terms-conditions/](http://www.qt.io/terms-conditions/). If a new version of Licensed Software does not include a module or tool present in an older version which Licensee is entitled

to use under a valid license from The Qt Company, then Licensee will continue to have such right during the Term of this Agreement. In the event a new version of the Licensed Software adds modules or tools to any previous version(s), Licensee's rights will extend to cover also such additional modules and tools.

Parts of the product that are permitted for distribution in object-code form only ("Redistributables") are marked with "R" in the below table.

|                              |  |     |  |                 |
|------------------------------|--|-----|--|-----------------|
| +-----+                      |  |     |  |                 |
| Modules / Tools              |  | ADP |  | ADE   DCP   DCE |
| +-----+                      |  |     |  |                 |
| Active Qt                    |  |     |  |                 |
|                              |  | X,R |  | X,R   X,R   X,R |
| +-----+                      |  |     |  |                 |
| Qt 3D                        |  | X,R |  | X,R   X,R   X,R |
| +-----+                      |  |     |  |                 |
| Qt 5 Core Compatibility APIs |  | X,R |  | X,R   X,R   X,R |
| +-----+                      |  |     |  |                 |
| Qt Android Extras            |  | X,R |  | X,R   X,R   X,R |
| +-----+                      |  |     |  |                 |
| Qt Bluetooth                 |  | X,R |  | X,R   X,R   X,R |
| +-----+                      |  |     |  |                 |
| Qt Canvas 3D                 |  | X,R |  | X,R   X,R   X,R |
| +-----+                      |  |     |  |                 |
| Qt Charts                    |  | X,R |  | X,R   X,R   X,R |
| +-----+                      |  |     |  |                 |
| Qt Concurrent                |  | X,R |  | X,R   X,R   X,R |
| +-----+                      |  |     |  |                 |
| Qt Core                      |  | X,R |  | X,R             |
|                              |  | X,R |  | X,R             |
| +-----+                      |  |     |  |                 |
| Qt Data Visualization        |  | X,R |  | X,R   X,R   X,R |
| +-----+                      |  |     |  |                 |
| Qt D-Bus                     |  | X,R |  | X,R   X,R   X,R |
| +-----+                      |  |     |  |                 |
| Qt for Python                |  | X,R |  | X,R   X,R   X,R |
| +-----+                      |  |     |  |                 |
| Qt for WebAssembly           |  | X,R |  | X,R   X,R   X,R |
| +-----+                      |  |     |  |                 |
| Qt Gamepad                   |  | X,R |  | X,R   X,R   X,R |
| +-----+                      |  |     |  |                 |
| Qt Graphical Effects         |  | X,R |  | X,R   X,R   X,R |
| +-----+                      |  |     |  |                 |
| Qt GUI                       |  | X,R |  | X,R   X,R   X,R |
| +-----+                      |  |     |  |                 |
| Qt Help                      |  | X,R |  | X,R   X,R   X,R |
| +-----+                      |  |     |  |                 |

|                          |                       |
|--------------------------|-----------------------|
|                          |                       |
| Qt Image Formats         | X,R   X,R   X,R   X,R |
| +-----+                  |                       |
| Qt Location              | X,R   X,R   X,R   X,R |
| +-----+                  |                       |
| Qt Lottie Animation      | X,R   X,R   X,R   X,R |
| +-----+                  |                       |
| Qt Mac Extras            | X,R   X,R   X,R   X,R |
| +-----+                  |                       |
| Qt Multimedia            | X,R   X,R   X,R   X,R |
| +-----+                  |                       |
| Qt Multimedia Widgets    | X,R   X,R   X,R   X,R |
| +-----+                  |                       |
| Qt Network               | X,R   X,R   X,R   X,R |
| +-----+                  |                       |
| Qt Network Authorization | X,R   X,R   X,R   X,R |
| +-----+                  |                       |
|                          |                       |
| Qt NFC                   | X,R   X,R   X,R   X,R |
| +-----+                  |                       |
| Qt OpenGL                | X,R   X,R   X,R   X,R |
| +-----+                  |                       |
| Qt PDF                   | X,R   X,R   X,R   X,R |
| +-----+                  |                       |
| Qt Platform Headers      | X,R   X,R   X,R   X,R |
| +-----+                  |                       |
| Qt Positioning           | X,R   X,R   X,R   X,R |
| +-----+                  |                       |
| Qt Print Support         | X,R   X,R   X,R   X,R |
| +-----+                  |                       |
| Qt Purchasing            | X,R   X,R   X,R   X,R |
| +-----+                  |                       |
| Qt QML                   | X,R   X,R   X,R   X,R |
| +-----+                  |                       |
|                          |                       |
| Qt Quick                 | X,R   X,R   X,R   X,R |
| +-----+                  |                       |
| Qt Quick 3D              | X,R   X,R   X,R   X,R |
| +-----+                  |                       |
| Qt Quick Controls 1      | X,R   X,R   X,R   X,R |
| +-----+                  |                       |
| Qt Quick Controls        | X,R   X,R   X,R   X,R |
| +-----+                  |                       |
| Qt Quick Dialogs         | X,R   X,R   X,R   X,R |
| +-----+                  |                       |
| Qt Quick Extras          | X,R   X,R   X,R   X,R |
| +-----+                  |                       |
| Qt Quick Layouts         | X,R   X,R   X,R   X,R |

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+-----+
| Qt Quick Test | X,R | X,R | X,R | X,R |
+-----+
| Qt Quick Timeline | X,R | X,R | X,R | X,R |
+-----+
| Qt Quick WebGL | X,R | X,R | X,R | X,R |
+-----+
| Qt Quick Widgets | X,R | X,R | X,R | X,R |
+-----+
| Qt Remote Objects | X,R | X,R | X,R | X,R |
+-----+
| Qt Script | X,R | X,R | X,R | X,R |
+-----+
| Qt Script Tools | X,R | X,R | X,R | X,R |
+-----+
| Qt SCXML | X,R | X,R | X,R | X,R |
+-----+
| Qt Sensors | X,R | X,R | X,R | X,R |
+-----+
| Qt Serial Bus | X,R |
X,R | X,R | X,R |
+-----+
| Qt Serial Port | X,R | X,R | X,R | X,R |
+-----+
| Qt Shader Tools | X,R | X,R | X,R | X,R |
+-----+
| Qt Speech | X,R | X,R | X,R | X,R |
+-----+
| Qt State Machine | X,R | X,R | X,R | X,R |
+-----+
| Qt SQL | X,R | X,R | X,R | X,R |
+-----+
| Qt SVG | X,R | X,R | X,R | X,R |
+-----+
| Qt Test | X,R | X,R | X,R | X,R |
+-----+
| Qt UI Tools | X,R | X,R | X,R | X,R |
+-----+
|
Qt Virtual Keyboard | X,R | X,R | X,R | X,R |
+-----+
| Qt Wayland Compositor | X,R | X,R | X,R | X,R |
+-----+
| Qt WebChannel | X,R | X,R | X,R | X,R |
+-----+
| Qt WebEngine | X,R | X,R | X,R | X,R |
+-----+

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|                                  |                       |
|----------------------------------|-----------------------|
| Qt WebSockets                    | X,R   X,R   X,R   X,R |
| +-----+                          |                       |
| Qt WebView                       | X,R   X,R   X,R   X,R |
| +-----+                          |                       |
| Qt Widgets                       | X,R   X,R   X,R   X,R |
| +-----+                          |                       |
| Qt Windows Extras                | X,R   X,R   X,R   X,R |
| +-----+                          |                       |
|                                  |                       |
| Qt X11 Extras                    | X,R   X,R   X,R   X,R |
| +-----+                          |                       |
| Qt XML                           | X,R   X,R   X,R   X,R |
| +-----+                          |                       |
| Qt XML Patterns                  | X,R   X,R   X,R   X,R |
| +-----+                          |                       |
| Qt Designer (Qt Widget Designer) | X,R   X,R   X,R   X,R |
| +-----+                          |                       |
| Qt Linguist                      | X,R   X,R   X,R   X,R |
| +-----+                          |                       |
| Qt Assistant                     | X,R   X,R   X,R   X,R |
| +-----+                          |                       |
| lupdate                          | X,R   X,R   X,R   X,R |
| +-----+                          |                       |
| lrelease                         | X,R   X,R   X,R   X,R |
| +-----+                          |                       |
|                                  |                       |
| lconvert                         | X,R   X,R   X,R   X,R |
| +-----+                          |                       |
| Qt MQTT                          | X,R   X,R   X,R       |
| +-----+                          |                       |
| Qt KNX                           | X,R   X,R   X,R       |
| +-----+                          |                       |
| Qt OPC UA                        | X,R   X,R   X,R       |
| +-----+                          |                       |
| Qt CoAP                          | X,R   X,R   X,R       |
| +-----+                          |                       |
| Boot 2 Qt stacks                 | X,R   X,R             |
| +-----+                          |                       |
| Qt OTA                           | X,R   X,R             |
| +-----+                          |                       |
| Device Utilities                 | X,R   X,R             |
| +-----+                          |                       |
| Qt Debugging Bridge              |                       |
| (QDB) Daemon       X,R   X,R     |                       |
| +-----+                          |                       |
| Qt Quick Ultralite Controls      | X,R   X,R             |
| +-----+                          |                       |
| Qt Quick Ultralite               | X,R   X,R             |

|                                 |  |   |  |       |
|---------------------------------|--|---|--|-------|
| +-----+                         |  |   |  |       |
| Qt Safe Renderer (QSR)          |  |   |  | X,R   |
| +-----+                         |  |   |  |       |
| Qt Application Manager          |  |   |  | X,R   |
| +-----+                         |  |   |  |       |
| Qt Interface Framework          |  |   |  | X,R   |
| +-----+                         |  |   |  |       |
| Neptune Reference UI            |  |   |  | X,R   |
| +-----+                         |  |   |  |       |
| Qt for Android Automotive (QAA) |  |   |  | X,R   |
| +-----+                         |  |   |  |       |
| Qt Creator                      |  | X |  |       |
| X   X   X                       |  |   |  |       |
| +-----+                         |  |   |  |       |
| Qt Design Studio Professional   |  | X |  | X   X |
| +-----+                         |  |   |  |       |
| androiddeployqt                 |  | X |  | X   X |
| +-----+                         |  |   |  |       |
| androidtestrunner               |  | X |  | X   X |
| +-----+                         |  |   |  |       |
| canbusutil                      |  | X |  | X   X |
| +-----+                         |  |   |  |       |
| dumpcpp                         |  | X |  | X   X |
| +-----+                         |  |   |  |       |
| dumpdoc                         |  | X |  | X   X |
| +-----+                         |  |   |  |       |
| fixqt4headers.pl                |  | X |  | X   X |
| +-----+                         |  |   |  |       |
| idc                             |  | X |  | X   X |
| +-----+                         |  |   |  |       |
|                                 |  |   |  |       |
| moc                             |  | X |  | X   X |
| +-----+                         |  |   |  |       |
| pixeltool                       |  | X |  | X   X |
| +-----+                         |  |   |  |       |
| qdbus                           |  | X |  | X   X |
| +-----+                         |  |   |  |       |
| qdbuscpp2xml                    |  | X |  | X   X |
| +-----+                         |  |   |  |       |
| qdbusviwer                      |  | X |  | X   X |
| +-----+                         |  |   |  |       |
| qdbusxml2cpp                    |  | X |  | X   X |
| +-----+                         |  |   |  |       |
| qdistancefieldgenerator         |  | X |  | X   X |
| +-----+                         |  |   |  |       |
| qdoc                            |  | X |  | X   X |
| +-----+                         |  |   |  |       |
|                                 |  |   |  |       |

|                |               |
|----------------|---------------|
| qhelpgenerator | X   X   X   X |
| +-----+        |               |
| qlalr          | X   X   X   X |
| +-----+        |               |
| qmake          | X   X   X   X |
| +-----+        |               |
| qml            | X   X   X   X |
| +-----+        |               |
| qmlcachegen    | X   X   X   X |
| +-----+        |               |
| qmldom         | X   X   X   X |
| +-----+        |               |
| qmleasing      | X   X   X   X |
| +-----+        |               |
| qmlformat      | X   X   X   X |
| +-----+        |               |
|                |               |
| qmllint        | X   X   X   X |
| +-----+        |               |
| qmlpreview     | X   X   X   X |
| +-----+        |               |
| qmlprofiler    | X   X   X   X |
| +-----+        |               |
| qmlscene       | X   X   X   X |
| +-----+        |               |
| qmltestrunner  | X   X   X   X |
| +-----+        |               |
| qmltime        | X   X   X   X |
| +-----+        |               |
| qmlviewer      | X   X   X   X |
| +-----+        |               |
| qtdiag         | X   X   X   X |
| +-----+        |               |
| qtpaths        | X   X   X   X |
| +-----+        |               |
| qtplugininfo   | X   X   X   X |
| +-----+        |               |
| qvkggen        | X   X   X   X |
| +-----+        |               |
| rcc            | X   X   X   X |
| +-----+        |               |
| tracegen       | X   X   X   X |
| +-----+        |               |
| uic            | X   X   X   X |
| +-----+        |               |
| windeployqt    | X   X   X   X |
| +-----+        |               |

|                                |  |   |   |   |  |
|--------------------------------|--|---|---|---|--|
| Target toolchains              |  |   | X | X |  |
| +-----+                        |  |   |   |   |  |
| Qt Debugging Bridge Host Tools |  |   |   |   |  |
|                                |  | X | X |   |  |
| +-----+                        |  |   |   |   |  |
| qtconfig-gui                   |  |   | X | X |  |
| +-----+                        |  |   |   |   |  |
| Qt Emulator                    |  |   | X | X |  |
| +-----+                        |  |   |   |   |  |
| Qt Creator VxWorks plugin      |  |   | X | X |  |
| +-----+                        |  |   |   |   |  |
| Qt Creator plugin for Qt       |  |   |   | X |  |
| Application Manager            |  |   |   |   |  |
| +-----+                        |  |   |   |   |  |
| qmlinterfacegenerator          |  |   |   | X |  |
| +-----+                        |  |   |   |   |  |
| qmltoccpp                      |  |   |   | X |  |
| +-----+                        |  |   |   |   |  |
| qulfontcompiler                |  |   |   | X |  |
| +-----+                        |  |   |   |   |  |
|                                |  |   |   |   |  |
| Qt Deployment Server           |  |   |   | X |  |
| +-----+                        |  |   |   |   |  |

#### Rights for Application and Device use cases

Following table summarizes the rights afforded by different products of the Licensed Software to create and distribute Applications and Devices as defined in this Agreement (X marks for rights):

|         |              |   |         |   |  |
|---------|--------------|---|---------|---|--|
| +-----+ |              |   |         |   |  |
|         | Applications |   | Devices |   |  |
| +-----+ |              |   |         |   |  |
| ADP     |              | X |         |   |  |
| +-----+ |              |   |         |   |  |
| ADE     |              | X |         |   |  |
| +-----+ |              |   |         |   |  |
| DCP     |              | X |         | X |  |
| +-----+ |              |   |         |   |  |
| DCE     |              | X |         |   |  |
|         | X            |   |         |   |  |
| +-----+ |              |   |         |   |  |

#### Licensed Software: Designer tools and modules

The modules and/or tools that are included in the respective product - Qt for Design Studio Professional (DSP), Qt for Design Studio Enterprise (DSE) - are



marked with "X" in the below table.

Designer tools provides no Redistributables.

|                       | DSP | DSE |
|-----------------------|-----|-----|
| Qt Design Studio      | X   | X   |
| Qt Design Bridges     |     | X   |
| QML Live on host      | X   | X   |
| QML Live on target    |     | X   |
| Variant Management    |     | X   |
| Shader creation tools |     | X   |
| Profiling tools       |     | X   |
| Simulink support      |     | X   |

Both DSP and DSE can be used to create an user interface for use cases covered by ADP, ADE, DCP and DCE.

Licensed Software: QA Tools

The modules and/or tools that are included in the respective QA Tools product - Squish (both Tester and execution Licenses), Coco or Test Center - are marked with "X" in the below table. Optional features that will need additional licenses are marked with "O". QA Tools include no Redistributables.

|                                     | Squish | Coco | Test Center |
|-------------------------------------|--------|------|-------------|
| Squish IDE                          | X      |      |             |
| QA Tool-specific command line tools | X      | X    | X           |
| Coverage Browser                    |        | X    |             |
| HTML interface                      |        |      | X           |

|                                 |   |   |  |
|---------------------------------|---|---|--|
| Qt Support Module               | X |   |  |
| +-----+                         |   |   |  |
| Java support module             | X |   |  |
| +-----+                         |   |   |  |
| Windows support module          | X |   |  |
| +-----+                         |   |   |  |
| iOS support module              | X |   |  |
|                                 |   |   |  |
| +-----+                         |   |   |  |
| Android support module          | X |   |  |
| +-----+                         |   |   |  |
| Web support module              | X |   |  |
| +-----+                         |   |   |  |
| macOS support module            | X |   |  |
| +-----+                         |   |   |  |
| VNC support module              | X |   |  |
| +-----+                         |   |   |  |
| MCU support module              | X |   |  |
| +-----+                         |   |   |  |
| C and C++ language module       |   | X |  |
| +-----+                         |   |   |  |
| C# language module              |   |   |  |
|                                 | X |   |  |
| +-----+                         |   |   |  |
| QML language module             |   | X |  |
| +-----+                         |   |   |  |
| Tester Cross-Compilation Add-On | O | O |  |
| +-----+                         |   |   |  |

#### License capabilities for Squish

License capabilities that are included in the Squish Tester and Execution Licenses are marked with "X" in the below table.

|                          |                       |                          |   |
|--------------------------|-----------------------|--------------------------|---|
| +-----+                  |                       |                          |   |
|                          | Squish Tester License | Squish Execution License |   |
| +-----+                  |                       |                          |   |
| Ability to create, edit, | X                     |                          |   |
| and debug test cas       |                       |                          |   |
| +-----+                  |                       |                          |   |
|                          |                       |                          |   |
| Ability to execute test  | X                     |                          | X |
| cases                    |                       |                          |   |
| +-----+                  |                       |                          |   |

#### Install and use capabilities for QA Tools

Install and use capabilities that are included in the respective QA Tools

products are defined in the below table.

|                        |            |            |            |             |  |
|------------------------|------------|------------|------------|-------------|--|
| +-----+                |            |            |            |             |  |
|                        | Squish     | Squish     | Coco       | Test        |  |
|                        | Tester     | Execution  | License    | Center      |  |
|                        | License    | License    |            | License     |  |
| +-----+                |            |            |            |             |  |
| Number of installation | Unlimited  | Unlimited  | Unlimited  | One(1)      |  |
| instances per license  |            |            |            |             |  |
| +-----+                |            |            |            |             |  |
|                        |            |            |            |             |  |
| Number of concurrent   | Limited by | Limited by | Limited by | Limited by  |  |
| users                  | number of  | number of  | number of  | number of   |  |
|                        | Squish     | Squish     | Coco       | Test Center |  |
|                        | Tester     | Execution  | Tester     | Licenses    |  |
|                        | Licenses   | Licenses   | Licenses   |             |  |
| +-----+                |            |            |            |             |  |

APPENDIX 2: PRICING

Separate template

APPENDIX 3: ADD-ON PRODUCTS TO LICENSED SOFTWARE

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APPENDIX 4: SMALL BUSINESS AND STARTUP

The provisions of this Appendix 4 are applicable for companies with an annual revenue, including funding, equivalent to maximum of 250,000 USD (in applicable currency) during the latest full calendar year, as evidenced by duly audited records of the Licensee and approved by The Qt Company ("Start-up Company").

Start-up Companies are qualified for a discounted License Fee for maximum of four (4) Development Licenses ("Start-up Development License") unless otherwise agreed between the parties.

Start-up Development License entitles the respective Designated User for Support only for Install Support as defined in Appendix 9, Support Terms.

Upon expiry of the respective Development License Term, the Start-up Development Licenses shall be automatically extended, pursuant to Section 3.1 of the Agreement, for a Renewal Term either as new Start-up Development Licenses (if the Licensee still qualifies as a Start-up Company), or as normal then standard list price Development Licenses (if the Licensee no longer qualifies as a Start-up Company).

## APPENDIX 5: NON-COMMERCIAL AND EDUCATIONAL USE

The provisions of this Appendix 5 are applicable for non-commercial use of the Licensed Software by the Licensee.

For the purpose of this Appendix 5, the following additional definitions (replacing the relevant definition of the Agreement, where applicable) shall be applicable:

"Demo Units" shall mean (i) hardware development platform, which incorporates the Licensed Software along with Licensee's software and/or hardware, and (ii) prototype versions of Applications or Devices.

"Designated User(s)" shall mean the employees and students of the Licensee.

"Licensee Products" shall mean Applications and/or Devices.

"Permitted Purpose" shall mean (i) Licensee's internal evaluation and testing of Licensed Software, (ii) building Demo Units as well as (iii) educational use.

"Agreement Term" shall mean a period of twelve (12) months or any such other period as may be agreed between the Parties.

For the purpose of this Appendix 5, the following changes shall be agreed with respect to relevant Sections of the Agreement:

I. Recital (A) shall be replaced in its entirety to read as follows:

"(A) Licensee wishes to use the Licensed Software for the Permitted

Purpose."

II. Section 3.1 shall be replaced in its entirety to read as follows:

"The Qt Company grants to Licensee a personal, non-exclusive, non-transferable, revocable, royalty-free license, valid for the Agreement Term, to use, modify and copy the Licensed Software solely for the Permitted Purpose. Licensee may install copies of the Licensed Software on five (5) computers per Designated User, provided that only the Designated Users who have a valid Development License may use the Licensed Software. Licensee may demonstrate the Demo Units, provided that such demonstrations must be conducted by Licensee, and the Demo Units must remain in Licensee's possession and under Licensee's control at all times.

For clarity, this Agreement does not (i) entitle Licensee to use Licensed Software to create Applications or Devices (other than prototypes thereof) or (ii) carry any distribution

rights to Licensee,

but such rights are subject to and conditional upon conclusion of a

separate license agreement with The Qt Company."

III. Sections 3.2, 3.3, 3.5, 3.6, 8 and 10 shall be deleted.

IV. Section 3.4 shall be replaced in its entirety to read as follows:

"Licensee shall not:

- remove or alter any copyright, trademark or other proprietary rights notice contained in any portion of the Licensed Software;
- transfer, publish, sublicense, disclose, display or otherwise make the Licensed Software available to any third party (except that Licensee may demonstrate the Demo Units pursuant to Section 3.1);
- in any way combine, incorporate or integrate Licensed Software with, or use Licensed Software for creation of, any software created with or incorporating Open Source Qt; Licensee shall cause all Designated Users who make use of the licenses granted under this Agreement,

to

be contractually bound to comply with the relevant terms of this Agreement and not to use the Licensed Software beyond the terms hereof. Licensee shall be responsible for any and all actions and omissions of its Designated Users relating to the Licensed Software and use thereof. Any use of Licensed Software beyond the provisions of this Agreement is strictly prohibited and requires an additional license from The Qt Company."

V. Section 12 shall be replaced in its entirety to read as follows:

"This Agreement shall enter into force upon due acceptance by both Parties and remain in force for the Agreement Term, unless and until terminated pursuant to the terms of Section 12.

Upon termination of the Agreement, Licensee shall cease using the Licensed Software. All other copies of Licensed Software in the possession or control of Licensee must be erased or destroyed.

An

officer of Licensee must, upon request, promptly deliver to The Qt Company a written confirmation that this has occurred."

Except for the modifications specified above, this Appendix carries no change to the terms of the Agreement which shall remain in full force.

## APPENDIX 6: LICENSE REPORTING

Separate template

## APPENDIX 7: MARKETING RIGHTS

This Appendix 7 has the purpose to grant visibility through The Qt Company marketing channels of the usage of Qt and related product and service in Licensee product. Following related marketing right are agreed between the Qt Company and the Licensee.

### 1. LICENSEE NAME AND LICENSEE LOGO

The Qt Company has the right to use Licensee name and Licensee logo in public channel, in respect of the value proposition that the Qt company provided to the Licensee.

## 2. MARKETING CONTENT COOPERATION

### 2.1. LICENSEE CASES

The Licensee is open to collaborate on content creation for marketing and communication purpose. The Licensee will nominate one responsible that will be in charge to support The Qt company with this content creation, according to content format paragraph, answering technical questions or sharing professional picture or video of required content. The Qt Company will have the right to advertise this in Content Format and Channel as mentioned in paragraph 3 and 4.

### 2.2. FINAL PRODUCT REFERRAL

Licensee agree that The Qt Company could connect their software product and services with the Licensee device or application, that the Licensee has created using The Qt Company technology and competence. Licensee will provide high quality picture, and video of the created final product where the Qt technology is running into. The Qt Company will have the right to advertise this in Content Format and Channel as mentioned in paragraph 3 and 4.

## 3. CONTENT FORMAT

- Video
- Written Licensee case
- Press release
- Social media posts
- Emails
- Event booth Graphics
- Printed material

## 4. CHANNELS

- Social media
- The Qt  
Company resource center and website
- Email to the Qt company contact database
- Events
- Online webinars
- Public speech
- Public presentations

## APPENDIX 8: INTENTIONALLY LEFT BLANK

## APPENDIX 9: SUPPORT TERMS

Version 2023-04

These Qt support terms and conditions (Support Terms) set forth the legal framework, where under The Qt Company (The Qt Company) provides support services (as herein defined) to the Licensee.

### 1 DEFINITIONS

Application Code shall mean a computer software program written strictly using the Qt programming language, by or for the Licensee, with a user interface, enabling the Licensee or their users to accomplish a specific task and display any results of the task on the display monitor or screen.

Customer Portal shall mean The Qt Companys web-based service and support user interface located at <https://account.qt.io/> or at another location designated by The Qt Company. Customer Portal is used by a Designated User with Qt Account, and it provides downloads, license management, license certificate and other services for Designated Users.

Dedicated Contact shall mean the employee of The Qt Company who will be the first point of contact for all Designated Users requests for Support.

Errors shall mean an error, flaw, mistake, failure, or fault in Licensed Software that prevents it from behaving as described in the relevant documentation or as agreed between the Parties. Designated User can follow the state and progress of Errors in Customer Portal.

Extended Support shall mean a continuation to the normal Support period, which allows Designated Users to receive selected Support (Standard Support or Premium Support) for a version of Licensed Software that is no longer generally supported by The Qt Company.

Install Support shall mean Support that is limited to installation-related Error(s) on Development Platforms specified as supported host platforms for each Qt release under [doc.qt.io](https://doc.qt.io). Install Support covers also operational use of the QA Tools, but not operational use of Qt Software.

Maintenance Release shall mean a release or version of Licensed Software containing bug fixes, error corrections and other changes targeted to maintaining and improving product stability and quality. Maintenance Releases are generally depicted as a change to the third digit of Licensed Software version number.

Platforms shall mean both Development Platforms and Deployment Platforms. Supported host and target Platforms may vary from for each Qt release as

defined under doc.qt.io.

Premium Support shall mean an upgraded level of Support that The Qt Company provides pursuant to these Support Terms to Licensee if Licensee has purchased Premium Support instead of Standard Support. Premium Support also covers what is included in Standard Support. Premium Support shall always be purchased for all Designated User(s) in the respective development team of the Licensee.

Qt Account shall mean the Qt Account for a Designated User used for using Qt services and Customer Portal. A Qt Account is mapped to the Licensee company with the corporate email domain or domains.

Qualification Kit shall mean a set of documents and validation test cases used for product certification needs as defined in section 2.6.

Response Time shall mean the period of time from when Licensee notifies The Qt Company about an Error or requests Support until The Qt Company provides Licensee with a response that addresses (but not necessarily resolves) the reported Error or provides the requested Support.

Standard Support shall mean standard level of Support that The Qt Company provides pursuant to these Support Terms to Licensee. Standard Support also covers what is included in Install Support.

Security Issue shall mean an Error that may cause a vulnerability in a system or application that uses the Licensed Software.

Support shall mean developer assistance that is provided by The Qt Company to assist eligible Designated Users in Licensed Software installation, usage and functionality problem resolution for Error(s) and Error workarounds pursuant to the terms of these Support Terms. Support for different products is available as specified in the below table (X marking the Support that is included in the license price, optional Add-on Support services are marked as O):

|     | Install | Standard | Premium | Extended | Qualification |
|-----|---------|----------|---------|----------|---------------|
|     | Support | Support  | Support | Support  | Kit           |
| DSP | X       | X        | O       | O        |               |
| DSE | X       | X        | O       | O        |               |
| ADP | X       |          |         |          |               |
| ADE | X       | X        | O       | O        |               |



|                       |  |   |  |   |  |   |  |   |   |
|-----------------------|--|---|--|---|--|---|--|---|---|
| +-----+               |  |   |  |   |  |   |  |   |   |
| DCP                   |  | X |  | X |  | O |  | O |   |
| +-----+               |  |   |  |   |  |   |  |   |   |
| DCE                   |  | X |  | X |  | O |  | O |   |
| +-----+               |  |   |  |   |  |   |  |   |   |
| Squish                |  | X |  | X |  | O |  |   | O |
| +-----+               |  |   |  |   |  |   |  |   |   |
| Coco                  |  | X |  | X |  | O |  |   | O |
| +-----+               |  |   |  |   |  |   |  |   |   |
| Test Center           |  | X |  | X |  | O |  |   | O |
| +-----+               |  |   |  |   |  |   |  |   |   |
|                       |  |   |  |   |  |   |  |   |   |
| Axivion Suite         |  | X |  | X |  |   |  |   |   |
| +-----+               |  |   |  |   |  |   |  |   |   |
| Architecture Analysis |  | X |  | X |  |   |  |   |   |
| +-----+               |  |   |  |   |  |   |  |   |   |
| Static Code Analysis  |  | X |  | X |  |   |  |   |   |
| +-----+               |  |   |  |   |  |   |  |   |   |
| Static Coverage       |  | X |  | X |  |   |  |   |   |
| Analysis Professional |  |   |  |   |  |   |  |   |   |
| +-----+               |  |   |  |   |  |   |  |   |   |
| Qt Insight            |  |   |  | X |  |   |  |   |   |
| +-----+               |  |   |  |   |  |   |  |   |   |

Support Validity Term shall mean the Development

License Term or any other

fixed time period agreed between the Parties during which time the Licensee is eligible to receive Support from The Qt Company.

## 2 SUPPORT SERVICES

### 2.1 Support Services Provided by The Qt Company

Subject to these Support Terms and during the Support Validity Term, The Qt Company will via its Customer Portal, provide Designated User(s) with Support for the Licensed Software which Licensee has licensed under the Agreement. The Qt Company will make commercially reasonable efforts to solve any Errors reported by Designated User(s). Resolution of an Error may be provided through Designated User(s) themselves downloading of a later released version of the applicable Licensed Software product(s) or providing the Designated User with a workaround addressing such Error or providing the Designated User with an updated tool configuration.

### 2.2 Licensee's Obligations

To report an Error, the Designated User shall register the Error on the Customer Portal. If the Designated

User considers the reported Error to be a Security Issue, the Error shall be marked as a Security Issue.

The Designated User must provide adequate information and documentation to The Qt Company to enable it to recreate the Error or problem for which the Designated User has sought assistance. To ensure efficient handling of Errors, the Designated User must provide the following information, where relevant:

- A clear, detailed description of the problem, question or suggestion;
- Identification of which Licensed Software product and version is affected;
- Identification of the operating environment (e.g. operating system, hardware Platform, build tools, tool configuration, etc.) on which the problem exists;
- Marking the issue as a Security Issue, when reporting a Security Issue;
- On Standard Support: A complete and compilable test case of not more than 500 lines of code that demonstrates the problem;
- On Premium Support: A complete and compilable test case that demonstrates the problem or access to Application Code source codes.

Additional relevant content, such as screenshots, etc.

Additional content should be included as attachments. The preferred image formats are JPEG and PNG. Compressed content should be included in zip or tar.gz archives. Executable content and documents in platform specific formats such as Microsoft Office' are not accepted.

In order for The Qt Company to provide prompt handling of Errors, the Designated User shall promptly respond to any requests from The Qt Company for additional information.

## 2.3 Support Limitations

General limitations:

Each version or release of the Licensed Software will be Supported under Standard Support or Premium Support only for limited time period as set forth in doc.qt.io or in documentation provided with the respective Licensed Software product. If nothing is documented, a release of Licensed Software is supported for one (1) year from the release date of the version x.y.0 and Long Term Support

(LTS) Releases are supported for a period of three (3) years from the release date of the LTS version x.y.0.

The Qt Company shall only provide Support for Designated User(s) through Customer Portal. Support is made available for the entire development teams only: It is not allowed to purchase Support only for some members of the development team, and all Designated Users of the respective development team must be eligible for the same level of Support.

Support is not provided for snapshots, preview releases, beta releases or

release candidates.

The Qt Company shall have no obligation to provide Support for 3rd party components, hardware or operating system specific problems or problems arising from improper use, accident, neglect, or modification of Qt.

Limitations with Install Support:

Support limited to (i) Error(s) regarding installation and setting up of the Qt development environment on host Platforms, or (ii) Errors impacting operational use of the QA Tools.

Limitations

with Standard Support:

The Qt Company shall not provide Support for third-party software or problems caused by third-party software even if such third-party software is distributed together with Licensed Software product(s).

The Qt Company shall only provide Support for Error(s) that are reported on and can be reproduced on Platforms that are officially supported for the release of the Licensed Software.

Limitations with Premium support:

The Qt Company shall not provide Support for third-party software or problems caused by third-party software. However, if such third-party software is distributed together with Licensed Software, The Qt Company will make commercially reasonable efforts to solve such problems.

The Qt Company shall only provide Support for Error(s) that can be reproduced on Platforms that are officially supported for the release of the Licensed Software. If the Error is on a Platform that is not supported, The Qt Company will make commercially reasonable efforts to provide a solution on closest corresponding supported Platform.

Premium Support is optional and purchased for an agreed bucket of hours (Bucket). Hours can be used by any Designated User in the respective development team. To encourage continuous usage of the Support, ten percent (10%) of the purchased Bucket shall automatically expire (regardless of whether such support hours are actually used or not by the Licensee) each month after three (3) months from the purchase of the Premium Support.

## 2.4 Handling of Security Issues

The reported Errors marked as Security Issues will be assessed by experts to determine the severity of the issue and to verify if it indeed is a valid

Security Issue. The Designated User who reported the issue may be contacted for more details. If the reported issue is not deemed to be a Security Issue, it will be treated as a normal Error and handled accordingly.

A verified Security Issue will be fixed as soon as possible. Qt Company will notify all Licensees via appropriate channels about the Security Errors and availability of patches for Licensed Software. Typically, a fix for the Security Issue is included in the next Maintenance Release of Licensed Software.

If the Security Issue is reported in a third-party library used in Licensed Software, The Qt Company will notify the relevant third party of such Security Issue detected in their library. When the Security Issue is fixed in the third-party library, the new version of the third-party library will be in the next feasible Maintenance Release of the Licensed Software. If a fixed version of the third-party library is not available, The Qt Company may instead decide to include documentation regarding the issue, or a patch for this third-party library.

All known Security Issues in Licensed Software will be mentioned as part of the change notes released with each version of Licensed Software.

## 2.5 Extended Support

Extended Support extends the Support Validity Term for a release of Licensed Software that is no longer generally supported.

Extended Support includes and is by default provided with Standard Support rules and limitations, unless Extended Support is purchased together with Premium Support in which case Premium Support rules and limitations will apply.

Extended Support is optional and purchased with annual fee and separately per each Licensee product. Extended Support will need definition of (i) Licensee product, (ii) used Platform(s) and (iii) Licensed Software version(s). For avoidance of doubt, Extended Support requires that the Designated User has a valid license for the respective Licensed Software.

## 2.6 Qualification Kit

The Qt Company shall provide a set of documents and validation tests that enable the Licensee to qualify QA testing tool (subject to a separate fee) or Qt Safe Renderer for the purpose of safety certification of Licensee end-to-end solution. Exact complied safety standards may vary between products, used features, use case, and industry.

## RESPONSE TIME

In performing Support, The Qt Company shall commit to following, non-binding, Response Times:

Standard Support: Errors and Support requests will have a Response Time not to exceed two (2) business days.

Premium Support: Errors and Support requests will have a Response Time not to exceed one (1) business day.

Security Issues: Errors that are Security Issues will have a Response Time not to exceed one (1) business day.

For complex issues, The Qt Company may provide an initial response to the Designated User and then follow up, without undue delay, with additional communication before an Error is properly addressed or Support provided.

## 4 ADDITIONAL SERVICES IN PREMIUM SUPPORT

The Designated User(s) will be assigned a Dedicated Contact to handle requests for Support. Dedicated Contact is subject to change in cases such as sick leave, vacation and other similar reasons.

The Designated User(s) can on request ask The Qt Company to access their computer remotely in order to resolve problems directly.

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#####

BezierEasing - use bezier curve for transition easing function  
by Gatan Renaudeau 2014 - 2015 MIT License

Credits: is based on Firefox's nsSMILKeySpline.cpp

Usage:

```
var spline = BezierEasing([0.25, 0.1, 0.25, 1.0])
```

spline.get(x) => returns the easing value | x must be in [0, 1] range

//\*\*\*\*\*

```
/** Base64 - a simple base64 encoder and decoder.
```

//\*

```
//* Copyright (c) 1999, Bob Withers - bwit@pobox.com
```

//\*

```
/* This code may be freely used for any purpose, either personal
```

/\* or commercial, provided the authors copyright notice remains

```
//* intact.
```

//\*

```
/* Enhancements by Stanley Yamane:
```

```
/** o reverse lookup table for the decode function
```

```
/* o reserve string buffer space in advance
```

//\*

//\*\*\*\*\*

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\* MODP\_B64 - High performance base64 encoder/decoder

\* Version 1.3 -- 17-Mar-2006

\* <http://modp.com/release/base64>

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dynamic\_annotations

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eigen3

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```
CXXFLAGS: -DEIGEN_MPL2_ONLY
```

This will cause a compilation error to be generated if you #include any code that is LGPL licensed.

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Following

applies to:

`./test/mapstaticmethods.cpp`

`./test/schur_real.cpp`

`./test/prec_inverse_4x4.cpp`

`./test/smallvectors.cpp`

`./test/redux.cpp`

`./test/special_numbers.cpp`

`./test/adjoint.cpp`

`./test/resize.cpp`

`./test/mixingtypes.cpp`

`./test/product_trmv.cpp`



./test/sparse\_solvers.cpp  
./test/cholesky.cpp  
./test/geo\_quaternion.cpp  
./test/miscmatrices.cpp  
./test/stddeque.cpp  
./test/integer\_types.cpp  
./test/product\_large.cpp  
./test/eigensolver\_generic.cpp  
./test/householder.cpp  
./test/geo\_orthomethods.cpp  
./test/array\_for\_matrix.cpp  
./test/sparseLM.cpp  
./test/upperbidiagonalization.cpp  
./test/nomalloc.cpp  
./test/packetmath.cpp  
./test/jacobisvd.cpp  
./test/geo\_transformations.cpp  
./test/swap.cpp  
./test/eigensolver\_selfadjoint.cpp  
./test/inverse.cpp  
./test/product\_selfadjoint.cpp  
./test/product\_trsolve.cpp  
./test/product\_extra.cpp  
./test/sparse\_solver.h  
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./test/mapped\_matrix.cpp  
./test/geo\_eulerangles.cpp  
./test/eigen2support.cpp  
./test/denseLM.cpp  
./test/stdvector.cpp  
./test/nesting\_ops.cpp  
./test/sparse\_permutations.cpp  
./test/zerosized.cpp  
./test/exceptions.cpp  
./test/vectorwiseop.cpp  
./test/cwiseop.cpp  
./test/basicstuff.cpp  
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./test/linearstructure.cpp  
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./Eigen/src/Core/MatrixBase.h  
./Eigen/src/Core/DenseStorage.h  
./Eigen/src/Core/util/Memory.h  
./Eigen/src/Core/util/StaticAssert.h  
./Eigen/src/Core/util/BlasUtil.h  
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./Eigen/src/Core/util/XprHelper.h  
./Eigen/src/Core/util/ForwardDeclarations.h  
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./Eigen/src/Core/util/Macros.h  
./Eigen/src/Core/util/Constants.h  
./Eigen/src/Core/CwiseNullaryOp.h  
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./Eigen/src/Core/GeneralProduct.h  
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./Eigen/src/Core/ReturnByValue.h  
./Eigen/src/Core/Stride.h  
./Eigen/src/SPQRSupport/SuiteSparseQRSupport.h  
./Eigen/src/SparseLU/SparseLU\_column\_dfs.h  
./Eigen/src/SparseLU/SparseLU\_panel\_dfs.h  
./Eigen/src/SparseLU/SparseLU\_relax\_snode.h  
./Eigen/src/SparseLU/SparseLU\_panel\_bmod.h  
./Eigen/src/SparseLU/SparseLU\_SupernodalMatrix.h

```

./Eigen/src/SparseLU/SparseLU_Utils.h
./Eigen/src/SparseLU/SparseLU_gemm_kernel.h
./Eigen/src/SparseLU/SparseLU_kernel_bmod.h
./Eigen/src/SparseLU/SparseLU_pivotL.h
./Eigen/src/SparseLU/SparseLU_Memory.h
./Eigen/src/SparseLU/SparseLU_heap_relax_snode.h
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./Eigen/src/SparseLU/SparseLU_Structs.h
./Eigen/src/SparseLU/SparseLU.h
./Eigen/src/SparseLU/SparseLU_column_bmod.h
./Eigen/src/SparseLU/SparseLU_pruneL.h
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./Eigen/StdVector
./Eigen/Core
./Eigen/SparseLU
./Eigen/StdList
./Eigen/StdDeque
./Eigen/SparseCholesky
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./blas/BandTriangularSolver.h
./blas/PackedTriangularMatrixVector.h
./blas/complex_double.cpp
./blas/level2_real_impl.h
./blas/level1_cplx_impl.h
./blas/level1_impl.h
./blas/level1_real_impl.h
./blas/level3_impl.h
./blas/single.cpp
./blas/level2_cplx_impl.h
./blas/PackedSelfadjointProduct.h
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```

The

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./test/metis\_support.cpp

./test/sparselu.cpp

./unsupported/test/mpreal/mpreal.h

./unsupported/Eigen/src/IterativeSolvers/IterationController.h

./unsupported/Eigen/src/IterativeSolvers/ConstrainedConjGrad.h  
./unsupported/Eigen/src/Eigenvalues/ArpackSelfAdjointEigenSolver.h  
./Eigen/src/OrderingMethods/Amd.h  
./Eigen/src/SparseCholesky/SimplicialCholesky\_impl.h

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Version 3, 29 June 2007

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## Mesa Component Licenses

| Component        | Location                                       | Primary Author | License          |
|------------------|------------------------------------------------|----------------|------------------|
| -----            |                                                |                |                  |
| Main             |                                                |                |                  |
| Mesa code        | src/ mesa/                                     | Brian Paul     | Mesa (MIT)       |
| Device drivers   | src/ mesa/ drivers/ *                          | See drivers    | See drivers      |
| Ext headers      | include/ GL/ glxext.h<br>include/ GL/ glxext.h | SGI            | SGI Free B       |
| GLUT             | src/ glut/                                     | Mark Kilgard   | Mark's copyright |
| GLEW             | src/ glew-1.13.0                               | Nigel Stewart  | Modified BSD     |
| Mesa GLU library | src/ glu/ mesa/                                | Brian Paul     | GNU-LGPL         |
| SGI GLU library  | src/ glu/ sgi/                                 | SGI            | SGI Free B       |
| demo programs    | progs/ demos/                                  | various        | see source files |
| X demos          | progs/ xdemos/                                 | Brian Paul     | see source files |
| SGI demos        | progs/ samples/                                | SGI            | SGI copyright    |
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java/android\_libs/protobuf\_nano

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javascript/jquery\_ui

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javascript/jquery/v2\_0\_1

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javascript/tracing\_framework

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java\_src/android\_libs/exoplayer

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java\_src/android\_libs/protobuf\_nano/v2

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jpeg

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(extracted from src/README)

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libunwind

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libvorbis

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libxcb

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libxml

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Libxml2,  
an XML C Parser

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objective\_c/gtm\_session\_fetcher

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openctm

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pcre

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protobuf

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utf

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xmpmeta

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jsoncpp

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libwebp

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```
#!/usr/bin/env node
```

```
/*
```

```
Copyright (c) 2013, Yahoo! Inc. All rights reserved.
```

```
Code licensed under the BSD License:
```

```
http://yuilibrary.com/license/
```

```
*/
```

```
var checker = require('../lib/index');
```

```
var args = require('../lib/args').parse();
```

```
var mkdirp = require('mkdirp');
```

```
var path = require('path');
```

```
var chalk = require('chalk');
```

```
var fs = require('fs');
```

```
if (args.help) {
```

```
 console.error('license-checker@' + require('../package.json').version);
```

```
 var usage = [
```

```
 ",
```

```
 ' --production only show production dependencies.',
```

```
 ' --development only show development dependencies.',
```

```

 ' --unknown report guessed licenses as unknown licenses.',
 ' --start [path of the initial json to look for]',
 ' --onlyunknown only list packages with unknown or guessed licenses.',
 ' --json output in json format.',
 ' --csv output in csv format.',
 ' --csvComponentPrefix column prefix for components in csv file',
 ' --out [filepath] write
the data to a specific file.',
 ' --customPath to add a custom Format file in JSON',
 ' --exclude [list] exclude modules which licenses are in the comma-separated list from the output',
 ' --relativeLicensePath output the location of the license files as relative paths',
 ' --summary output a summary of the license usage',
 ' --failOn [list] fail (exit with code 1) on the first occurrence of the licenses of the semicolon-separated list',
 ' --onlyAllow [list] fail (exit with code 1) on the first occurrence of the licenses not in the semicolon-separated
list',
 ' --direct look for direct dependencies only',
 ' --packages [list] restrict output to the packages (package@version) in the semicolon-separated list',
 ' --excludePackages [list] restrict output to the packages (package@version) not in the semicolon-separated
list',
 ' --excludePrivatePackages restrict output to not include any package marked
as private',
 ",
 ' --version The current version',
 ' --help The text you are reading right now :)',
 "
];
console.error(usage.join('\n'), '\n');
process.exit(0);
}

if (args.version) {
 console.error(require('../package.json').version);
 process.exit(1);
}

if (args.failOn && args.onlyAllow) {
 console.error('--failOn and --onlyAllow can not be used at the same time. Choose one or the other.');
```

process.exit(1);

```

} else {
 var argValue = args.failOn || args.onlyAllow;
 if (argValue && argValue.indexOf(',') >= 0) {
 var argName = args.failOn ? 'failOn' : 'onlyAllow';
 console.warn('Warning: As of v17 the --' + argName + ' argument takes semicolons as delimiters instead of
commas (some license names can contain commas)');
 }
}

checker.init(args, function(err, json) {

```



```

var formattedOutput = "";

if (!!err) {
 console.error('Found error');
 console.error(err);
}

if (shouldColorizeOutput(args))
{
 var keys = Object.keys(json);
 keys.forEach(function(key) {
 var keyParts = key.split('@');
 var coloredKey = chalk.blue(keyParts[0]) + chalk.dim('@') + chalk.green(keyParts[1]);
 json[coloredKey] = json[key];
 delete json[key];
 });
}

if (args.json) {
 formattedOutput = JSON.stringify(json, null, 2) + '\n';
} else if (args.csv) {
 formattedOutput = checker.asCSV(json, args.customFormat, args.csvComponentPrefix);
} else if (args.markdown){
 formattedOutput = checker.asMarkDown(json, args.customFormat) + '\n';
} else if (args.summary) {
 formattedOutput = checker.asSummary(json);
} else {
 formattedOutput = checker.asTree(json);
}

if (args.files) {
 checker.asFiles(json, args.files);
} else if (args.out) {
 var dir = path.dirname(args.out);
 mkdirp.sync(dir);
 fs.writeFileSync(args.out, formattedOutput,
'utf8');
} else {
 console.log(formattedOutput);
}
});

function shouldColorizeOutput(args) {
 return args.color && !args.out && !(args.csv || args.json || args.markdown);
}

```

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Version 2.0 - August 6, 2003

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\*

\* From: Wilco Dijkstra <Wilco.Dijkstra@ntlworld.com>

\* Date: Fri, Jun 24, 2011 at 3:20 AM

\* Subject: Re: sqrt routine

\* To: Kevin Ma <kma@google.com>

\* Hi Kevin,

\* Thanks for asking. Those routines are public domain (originally posted to

\* comp.sys.arm a long time ago), so you can use them freely for any purpose.

\* Cheers,

\* Wilco

\*

\* ----- Original Message -----

\* From: "Kevin Ma" <kma@google.com>

\* To: <Wilco.Dijkstra@ntlworld.com>

\* Sent: Thursday, June 23, 2011 11:44 PM

\* Subject: Fwd: sqrt routine  
\* Hi Wilco,  
\* I saw your sqrt routine from several web sites, including  
\* <http://www.finesse.demon.co.uk/steven/sqrt.html>.  
\* Just wonder if there's any copyright information with your Successive  
\* approximation routines, or if I can freely use it for any purpose.  
\* Thanks.  
\* Kevin  
\*/

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\* \$Id: pa\_memorybarrier.h 1240 2007-07-17 13:05:07Z bjornroche \$

\* Portable Audio I/O Library

\* Memory barrier utilities

\*

\* Author: Bjorn Roche, XO Audio, LLC

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- \* \$Id: pa\_ringbuffer.c 1421 2009-11-18 16:09:05Z bjornroche \$
- \* Portable Audio I/O Library
- \* Ring Buffer utility.
- \*
- \* Author:
- Phil Burk, <http://www.softsynth.com>
- \* modified for SMP safety on Mac OS X by Bjorn Roche
- \* modified for SMP safety on Linux by Leland Lucius
- \* also, allowed for const where possible
- \* modified for multiple-byte-sized data elements by Sven Fischer
- \*
- \* Note that this is safe only for a single-thread reader and a
- \* single-thread writer.
- \*
- \* This program uses the PortAudio Portable Audio Library.
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```
#ifndef COMPONENTS_EXO_PERMISSION_H_
```

```
#define COMPONENTS_EXO_PERMISSION_H_
```

```
#include "base/time/time.h"
```

```
#include "ui/base/class_property.h"
```

```
namespace exo {
```

```
// An aura::Window property that adds a capability to a window.
```

```
class Permission {
```

```
public:
```

```
enum class Capability {
```

```
 kActivate,
```

```
};
```

```
// Creates a permission with a |capability| that never expires.
```

```
explicit Permission(Capability capability);
```

```
// Create a permission with the given |capability| until |timeout| elapses.
```

```
Permission(Capability capability, base::TimeDelta timeout);
```

```

// Delete copy and move.
Permission(const Permission& other) = delete;
Permission(Permission&& other) = delete;
Permission& operator=(const Permission& other) = delete;
Permission& operator=(Permission&& other) = delete;

virtual ~Permission();

// Prevent this permission from returning true
on subsequent Check()s.
void Revoke();

// Returns true iff this permission was created with the given |capability|
// and is not expired.
bool Check(Capability capability) const;

private:
 Capability capability_;

 base::Time expiry_;
};

extern const ui::ClassProperty<Permission*>* const kPermissionKey;

} // namespace exo

#endif // COMPONENTS_EXO_PERMISSION_H_
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```

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/\*\*

\* workerpool.js

\* <https://github.com/josdejong/workerpool>

\*

\* Offload tasks to a pool of workers on node.js and in the browser.

\*

\* @version 6.1.5

\* @date 2021-06-17

\*

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The gzip module uses the zlib license (see ``src/gzip/zlib.h``) which too is compatible to the above two licenses.

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# This file contains a list of people who've made non-trivial  
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language: node\_js

node\_js:

- "6"
- "8"

cache:

directories:

- "node\_modules"

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- 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/t2h.pm``
  - ``doc/txi2pod.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\_kerndeint.c`
- `vf\_lensfun.c` (GPL version 3 or later)
- `vf\_mcdeint.c`
- `vf\_mpdecimate.c`
- `vf\_nnedi.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.

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\* `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
- liblensfun

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 smbclient 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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# All lines in this file are patterns (relative to the top-level directory),  
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#

# Don't put empty lines into this file!

#

builds/unix/pkg.m4

#

docs/FTL.TXT

docs/GPLv2.TXT

#

include/freetype/internal/fthash.h

#

src/base/fthash.c

src/base/md5.c

src/base/md5.h

#

src/bdf/bdf.c

src/bdf/bdf.h

src/bdf/bdfdrivr.c

src/bdf/bdfdrivr.h

src/bdf/bdferror.h

src/bdf/bdflib.c

src/bdf/module.mk

src/bdf/README

src/bdf/rules.mk

#

src/pcf/module.mk

src/pcf/pcf.c

src/pcf/pcf.h

src/pcf/pcfdrivr.c

src/pcf/pcfdrivr.h

src/pcf/pcferror.h

src/pcf/pcfread.c

src/pcf/pcfread.h

src/pcf/pcfutil.c

src/pcf/pcfutil.h

```
src/pcf/README
src/pcf/rules.mk
#
src/gzip/adler32.c
src/gzip/ftzconf.c
src/gzip/infblock.c
src/gzip/infblock.h
src/gzip/infcodes.c
src/gzip/infcodes.h
src/gzip/inffixed.h
src/gzip/inflate.c
src/gzip/inftrees.c
src/gzip/inftrees.h
src/gzip/infutil.c
src/gzip/infutil.h
src/gzip/zconf.h
src/gzip/zlib.h
src/gzip/zutil.c
src/gzip/zutil.h
#
src/tools/apinames.c
src/tools/ftrandom/ftrandom.c
#
subprojects/dlg
#
#
EOF
```

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WebKit is using derived sources of ThreadCondition code from Pthreads-win32.

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NPM License Checker

=====

[![Build Status](https://www.travis-ci.org/davglass/license-checker.svg?branch=master)](https://www.travis-ci.org/davglass/license-checker)

\*As of v17.0.0 the `failOn` and `onlyAllow` arguments take semicolons as delimiters instead of commas. Some license names contain commas and it messed with the parsing\*

Ever needed to see all the license info for a module and its dependencies?

It's this easy:

```
```shell
```

```
npm install -g license-checker
```

```
mkdir foo
```

```
cd foo
npm install yui-lint
license-checker
...
```

You should see something like this:

```
...
cli@0.4.3
  repository: http://github.com/chriso/cli
  licenses: MIT
glob@3.1.14
  repository: https://github.com/isaacs/node-glob
  licenses: UNKNOWN
graceful-fs@1.1.14
  repository: https://github.com/isaacs/node-graceful-fs
  licenses: UNKNOWN
inherits@1.0.0
  repository: https://github.com/isaacs/inherits
  licenses: UNKNOWN
jshint@0.9.1
  licenses: MIT
lru-cache@1.0.6
  repository: https://github.com/isaacs/node-lru-cache
  licenses: MIT
lru-cache@2.0.4
  repository: https://github.com/isaacs/node-lru-cache
  licenses: MIT
minimatch@0.0.5
  repository: https://github.com/isaacs/minimatch
  licenses: MIT
minimatch@0.2.9
  repository: https://github.com/isaacs/minimatch
  licenses: MIT
sigmund@1.0.0
  repository: https://github.com/isaacs/sigmund
  licenses: UNKNOWN
yui-lint@0.1.1
  licenses: BSD
  repository: http://github.com/yui/yui-lint
...
```

An asterisk next to a license name means that it was deduced from an other file than package.json (README, LICENSE, COPYING, ...)
You could see something like this:

```
...
debug@2.0.0
```

```
repository: https://github.com/visionmedia/debug
licenses: MIT*
...
```

Options

- * `--production` only show production dependencies.
- * `--development` only show development dependencies.
- * `--start [path of the initial json to look for]`
- * `--unknown` report guessed licenses as unknown licenses.
- * `--onlyunknown` only list packages with unknown or guessed licenses.
- * `--json` output in json format.
- * `--csv` output in csv format.
- * `--csvComponentPrefix` prefix column for component in csv format.
- * `--out [filepath]` write the data to a specific file.
- * `--customPath` to add a custom Format file in JSON
- * `--exclude [list]` exclude modules which licenses are in the comma-separated list from the output
- * `--relativeLicensePath` output the location of the license files as relative paths
- * `--summary` output a summary of the license usage',
- * `--failOn [list]` fail (exit with code 1) on the first occurrence of the licenses of the semicolon-separated list
- * `--onlyAllow [list]` fail (exit with code 1) on the first occurrence of the licenses not in the semicolon-separated list
- * `--packages [list]` restrict output to the packages (package@version) in the semicolon-separated list
- * `--excludePackages [list]` restrict output to the packages (package@version) not in the semicolon-separated list
- * `--excludePrivatePackages`
restrict output to not include any package marked as private
- * `--direct` look for direct dependencies only

Exclusions

A list of licenses is the simplest way to describe what you want to exclude.

You can use valid [SPDX identifiers](https://spdx.org/licenses/).

You can use valid SPDX expressions like `'MIT OR X11'`.

You can use non-valid SPDX identifiers, like `'Public Domain'`, since `'npm'` does support some license strings that are not SPDX identifiers.

Examples

...

```
license-checker --json > /path/to/licenses.json
license-checker --csv --out /path/to/licenses.csv
license-checker --unknown
license-checker --customPath customFormatExample.json
license-checker --exclude 'MIT, MIT OR X11, BSD, ISC'
license-checker --packages 'react@16.3.0;react-dom@16.3.0;lodash@4.3.1'
```

```
license-checker --excludePackages 'internal-1;internal-2'
license-checker --onlyunknown
```
```

#### Custom format

-----

The `--customPath` option can be used with CSV to specify the columns.

Note that  
the first column, `module\_name`, will always be used.

When used with JSON format, it will add the specified items to the usual ones.

The available items are the following:

- name
- version
- description
- repository
- publisher
- email
- url
- licenses
- licenseFile
- licenseText
- licenseModified

You can also give default values for each item.

See an example in [customFormatExample.json](customFormatExample.json).

#### Requiring

-----

```
```js
var checker = require('license-checker');

checker.init({
  start: '/path/to/start/looking'
}, function(err, packages) {
  if (err) {
    //Handle error
  } else {
    //The sorted package data
    //as an Object
  }
});
```
```

## Debugging

license-checker uses [debug](<https://www.npmjs.com/package/debug>) for internal logging. There are two internal markers:

- \* `license-checker:error` for errors
- \* `license-checker:log` for non-errors

Set the `DEBUG` environment variable to one of these to see debug output:

```
``shell
$
export DEBUG=license-checker*; license-checker
scanning ./yui-lint
cli@0.4.3
 repository: http://github.com/chriso/cli
 licenses: MIT
...
``
```

## How Licenses are Found

We walk through the `node\_modules` directory with the [read-installed](<https://www.npmjs.org/package/read-installed>) module. Once we gathered a list of modules we walk through them and look at all of their `package.json`s. We try to identify the license with the [spdx](<https://www.npmjs.com/package/spdx>) module to see if it has a valid SPDX license attached. If that fails, we then look into the module for the following files: `LICENSE`, `LICENCE`, `COPYING`, & `README`.

If one of those files are found (in that order) we will attempt to parse the license data from it with a list of known license texts. This will be shown with the `\*` next to the name of the license to show that we "guessed" at it.

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`src/bellerophon.rs` is loosely based off the Golang implementation, found [here](<https://github.com/golang/go/blob/b10849fbb97a2244c086991b4623ae9f32c212d0/src/strconv/extfloat.go>). That code (used if the `compact` feature is enabled) is subject to a [3-clause BSD license](<https://github.com/golang/go/blob/b10849fbb97a2244c086991b4623ae9f32c212d0/LICENSE>):

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# spdx-license-ids

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A list of [SPDX license](https://spdx.org/licenses/) identifiers

## Installation

[Download JSON directly](https://raw.githubusercontent.com/shinnn/spdx-license-ids/master/index.json), or  
[use](https://docs.npmjs.com/cli/install) [npm](https://docs.npmjs.com/about-npm/):

...

npm install spdx-license-ids

...

## [Node.js](https://nodejs.org/) API

### require('spdx-license-ids')

Type: `string[]`

All license IDs except for the currently deprecated ones.

```
```javascript
const ids = require('spdx-license-ids');
//=> ['0BSD', 'AAL', 'ADSL', 'AFL-1.1', 'AFL-1.2', 'AFL-2.0', 'AFL-2.1', 'AFL-3.0', 'AGPL-1.0-only', ...]

ids.includes('BSD-3-Clause'); //=> true
ids.includes('CC-BY-1.0'); //=>
true

ids.includes('GPL-3.0'); //=> false
```
```

```
require('spdx-license-ids/deprecated')
```

Type: `string[]`

Deprecated license IDs.

```
````javascript
const deprecatedIds = require('spdx-license-ids/deprecated');
//=> ['AGPL-1.0', 'AGPL-3.0', 'GFDL-1.1', 'GFDL-1.2', 'GFDL-1.3', 'GPL-1.0', 'GPL-2.0', ...]
```

```
deprecatedIds.includes('BSD-3-Clause'); //=> false
deprecatedIds.includes('CC-BY-1.0'); //=> false
```

```
deprecatedIds.includes('GPL-3.0'); //=> true
````
```

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*
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The code in this library is an extension of Bala Vatti's clipping algorithm:

"A generic solution to polygon clipping"

Communications of the ACM, Vol 35, Issue 7 (July 1992) pp 56-63.

<http://portal.acm.org/citation.cfm?id=129906>

Computer graphics and geometric modeling: implementation and algorithms

By Max K. Agoston

Springer; 1 edition (January 4, 2005)

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See also:

"Polygon Offsetting by Computing Winding Numbers"

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```
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```

```
#ifndef
```

```
CHROME_BROWSER_UI_WEBUI_CHROMEOS_LOGIN_PACKAGED_LICENSE_SCREEN_HANDLER_H_
```

```
#define
```

```
CHROME_BROWSER_UI_WEBUI_CHROMEOS_LOGIN_PACKAGED_LICENSE_SCREEN_HANDLER_H_
```

```
#include "base/memory/weak_ptr.h"
```

```
#include "chrome/browser/ui/webui/chromeos/login/base_screen_handler.h"
```

```
namespace chromeos {
```

```
class PackagedLicenseView : public base::SupportsWeakPtr<PackagedLicenseView> {
```

```
public:
```

```
 inline constexpr static StaticOobeScreenId kScreenId{"packaged-license",
 "PackagedLicenseScreen"};
```

```
 PackagedLicenseView() = default;
```

```
 PackagedLicenseView(const PackagedLicenseView&) = delete;
```

```
 PackagedLicenseView& operator=(const PackagedLicenseView&) = delete;
```

```
 virtual ~PackagedLicenseView() = default;
```

```
 // Shows the contents of the screen.
```

```
 virtual void Show() = 0;
```

```
};
```

```
// A class that handles WebUI hooks
```

```
in PackagedLicense screen.
```

```
class PackagedLicenseScreenHandler : public BaseScreenHandler,
```

```
 public PackagedLicenseView {
```

```
public:
```

```
 using TView = PackagedLicenseView;
```

```
 PackagedLicenseScreenHandler();
```

```
 PackagedLicenseScreenHandler(const PackagedLicenseScreenHandler&) = delete;
```

```
 PackagedLicenseScreenHandler& operator=(const PackagedLicenseScreenHandler&) =
 delete;
```

```
 ~PackagedLicenseScreenHandler() override;
```

```

void Show() override;

private:
// BaseScreenHandler implementation:
void DeclareLocalizedValues(
 ::login::LocalizedValuesBuilder* builder) override;
};

} // namespace chromeos

// TODO(https://crbug.com/1164001): remove after the //chrome/browser/chromeos
// source migration is finished.
namespace ash {
using ::chromeos::PackagedLicenseScreenHandler;
using ::chromeos::PackagedLicenseView;
}

#endif //
CHROME_BROWSER_UI_WEBUI_CHROMEOS_LOGIN_PACKAGED_LICENSE_SCREEN_HANDLER_H_
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```

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src/base/md5.c
src/base/md5.h
#
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src/bdf/bdf.h
src/bdf/bdfdrivr.c
src/bdf/bdfdrivr.h
src/bdf/bdferror.h
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src/gzip/infblock.c
src/gzip/infblock.h
src/gzip/infcodes.c
src/gzip/infcodes.h
src/gzip/inffixed.h
src/gzip/inflate.c
```

src/gzip/inftrees.c  
src/gzip/inftrees.h  
src/gzip/infutil.c  
src/gzip/infutil.h  
src/gzip/zconf.h  
src/gzip/zlib.h  
src/gzip/zutil.c  
src/gzip/zutil.h  
#  
src/tools/apinames.c  
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// sigslot.h: Signal/Slot classes

//

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```
{
 "name": "",
 "version": "",
 "description": "",
 "licenses": "",
 "copyright": "",
 "licenseFile": "none",
 "licenseText": "none",
 "licenseModified": "no"
}
```

## Change Log

### v25.0.1 (2019/01/10 19:29 +00:00)

- [f1c835b](https://github.com/davglass/license-checker/commit/f1c835b991b65dc928eafe64c29b73df9e703169) Updated readme with new args (@davglass)
- [ada667f](https://github.com/davglass/license-checker/commit/ada667f28e8ef4e96b5b6059fe05541d05ca936c) changelog (@davglass)
- [7813f0d](https://github.com/davglass/license-checker/commit/7813f0db3b51f7cc4cd37d8e7b4670f9005fed06) contrib (@davglass)

### v25.0.0 (2019/01/10 15:09 +00:00)

- [cdb77d9](https://github.com/davglass/license-checker/commit/cdb77d9a2b36cd87503f32265a0ee388b25c24ae) 25.0.0 (@davglass)
- [b897345](https://github.com/davglass/license-checker/commit/b89734549bc05fb5e143083fdf6d3959d87eb2b8) [Fixes #136] Document --start option and add the depth option for looking into root dependencies or infinitely (@davglass)
- [#185](https://github.com/davglass/license-checker/pull/185) Merge pull request #185 from theboolean/fix/exclude-packages-and-private (@theboolean)
- [#184](https://github.com/davglass/license-checker/pull/184) Merge pull request #184 from theboolean/docs/fix-typo (@theboolean)
- [987a60f](https://github.com/davglass/license-checker/commit/987a60fbb58052cf36d5a80e6252e81136bb1dd8) changes 24.1.0 (@davglass)

### v24.1.0 (2018/12/14 20:54 +00:00)

- [18ab8a1](https://github.com/davglass/license-checker/commit/18ab8a1eb478d1354429ca4318c1df3de3e4cbb1) 24.1.0 (@davglass)
- [1dca0f6](https://github.com/davglass/license-checker/commit/1dca0f616aebdef2d398c130a2a4f86c2b4e88c8) Changelog (@davglass)
- [#188](https://github.com/davglass/license-checker/pull/188) Fix for #153: remove deprecated package 'spdx' (#188) (@rogierschouten)
- [d1d34b1](https://github.com/davglass/license-checker/commit/d1d34b1a8894987807419c093c3ec10b4f06db3d) Fix typo in package.json description (@theboolean)
- [f5c9008](https://github.com/davglass/license-checker/commit/f5c9008a6d20b503e21c0d8130e52be526a5bfe8) Fix: Allow excluding packages and private packages together

(@theboolean)  
- [98c4dc6](https://github.com/davglass/license-checker/commit/98c4dc670fdebb6e58b62b38ebcb12302e5b1db5) changes (@davglass)

### v24.0.1 (2018/10/11 16:40 +00:00)  
- [d72eae8](https://github.com/davglass/license-checker/commit/d72eae8bcb80d8582e6d12c5e2664e9c19135709) 24.0.1 (@davglass)  
- [9433e64](https://github.com/davglass/license-checker/commit/9433e640ea9f629aad5f00c224a9f61026b8116d) [Fixes #181] - Removed extra line break with --cvs (@davglass)  
- [65baa28](https://github.com/davglass/license-checker/commit/65baa28f532f87ebb75a32578c7ac5837806d12f) contrib and changes (@davglass)

### v24.0.0 (2018/10/09 21:12 +00:00)  
- [84d64a2](https://github.com/davglass/license-checker/commit/84d64a28fa971c3bfb20b9e9de27cafbe6e8481b) 24.0.0 (@davglass)  
- [#180](https://github.com/davglass/license-checker/pull/180) Feature: Exclude Private Packages (#180) (Jonny Reeves)  
- [#179](https://github.com/davglass/license-checker/pull/179) Merge pull request #179 from jonny-improbable/fix/fix-strict-checks (@jonny-improbable)  
- [179077d](https://github.com/davglass/license-checker/commit/179077d079acbcd0183aa6691cfe5c2ec0f93f07) Fixes 176, Packages are not ignored when using --onlyAllow and --excludePackages. (@jonny-improbable)  
- [890ca17](https://github.com/davglass/license-checker/commit/890ca17d179bc43a6cb7cff962d69d1521dc9ac2) changelog (@davglass)

### v23.0.0 (2018/10/09 14:37 +00:00)  
- [f243287](https://github.com/davglass/license-checker/commit/f243287fbce6da33838a226ddfe8c412535390d4) 23.0.0 (@davglass)  
- [#178](https://github.com/davglass/license-checker/pull/178) Merge pull request #178 from jonny-improbable/fix/filtering (@jonny-improbable)  
- [#175](https://github.com/davglass/license-checker/pull/175) Merge pull request #175 from jonny-improbable/patch-1 (@jonny-improbable)  
- [f2c6611](https://github.com/davglass/license-checker/commit/f2c6611d6c68e50b2b6f56260026837e7167f44a) Fixes #177, --packages and --excludePackages filtering (@jonny-improbable)  
- [0a598df](https://github.com/davglass/license-checker/commit/0a598df55c3ec33803ef33be07cc47a910eee961) Improve --onlyAllow violation Error  
- [ee723af](https://github.com/davglass/license-checker/commit/ee723af79889a4d98ed067494a58f6aa41a44ac7) changes (@davglass)

### v22.0.0 (2018/10/08 19:00 +00:00)  
- [bd398c3](https://github.com/davglass/license-checker/commit/bd398c3bce0279699c9aad1dc4b592f398a75766) 22.0.0 (@davglass)  
- [#172](https://github.com/davglass/license-checker/pull/172) Merge pull request #172 from fzaninotto/exclude-packages (@fzaninotto)  
- [014fd96](https://github.com/davglass/license-checker/commit/014fd9613fe5460e0b7a0fc118a659a337e25e2c) added changes (@davglass)

### v21.0.0 (2018/10/06 13:24 +00:00)

- [d75fe43](https://github.com/davglass/license-checker/commit/d75fe43d61a9d5b6696d71a663e25a53fd3d44f7)  
21.0.0 (@davglass)  
- [05cb221](https://github.com/davglass/license-checker/commit/05cb221359de4ffe1039f586cd9e8fb7cb9d6398)  
[Fixes #174] - Moved private and unknown  
detection above filtering (@davglass)  
- [b1d5700](https://github.com/davglass/license-checker/commit/b1d570088236dfb90253bdac27763523b2e74ffb)  
Add an excludePackages option (@fzaninotto)  
- [231bd3f](https://github.com/davglass/license-checker/commit/231bd3f2412507be1d702ad100b23c1b1fe93602)  
updated readme (@davglass)  
- [6c61a7b](https://github.com/davglass/license-checker/commit/6c61a7bd102466c702065d42706392c11717cc1d)  
changelog (@davglass)

### v20.2.0 (2018/07/30 13:49 +00:00)

- [28dc521](https://github.com/davglass/license-checker/commit/28dc5218dec3340778bd801593275ad1b222e53f)  
20.2.0 (@davglass)  
- [#169](https://github.com/davglass/license-checker/pull/169) Merge pull request #169 from  
codepunkt/restrict\_packages (@codepunkt)  
- [5e4b274](https://github.com/davglass/license-checker/commit/5e4b274e955485fb2aba37e65fec913b8042f38d)  
refactor: restore previous code style (@codepunkt)  
- [ed25d68](https://github.com/davglass/license-checker/commit/ed25d6829602793e13233d3da2d97b92ee2044c6)  
test: add test for --packages flag (@codepunkt)  
- [0f53922](https://github.com/davglass/license-checker/commit/0f53922088be0b0dfd4f8db7ea884b53d0137e45)  
feat: allow restricting output to specified packages (@codepunkt)  
- [5f63f87](https://github.com/davglass/license-checker/commit/5f63f8766a17e589b57db99bda4eb54d91b85b77)  
changes and contrib (@davglass)

### v20.1.0 (2018/06/07 14:33 +00:00)

- [970882a](https://github.com/davglass/license-checker/commit/970882a09b345c7f32496431e5ca4c069ad7e320)  
20.1.0 (@davglass)  
- [#165](https://github.com/davglass/license-checker/pull/165) Merge pull request #165 from santiagocanti/fix-  
exclude-not-adding-custom-licenses (@santiagocanti)  
- [89e48a9](https://github.com/davglass/license-checker/commit/89e48a9d3d0c9f2e48bfcee0dc3563ce4b652e22)  
Fix exclude not including custom licenses (@santiagocanti)

### v20.0.0 (2018/05/17 14:14 +00:00)

- [0e89310](https://github.com/davglass/license-checker/commit/0e8931021df777cb401d9a332fa2a8c9a2c49eb2)  
20.0.0 (@davglass)  
-  
[c36a5c9](https://github.com/davglass/license-checker/commit/c36a5c99bb4f68816e4e19cad5090ba3c7ba67a4)  
changes (@davglass)  
- [ccb66f3](https://github.com/davglass/license-checker/commit/ccb66f3410a4589e6f2b7cf1c3aefb1446bab460)  
contributors (@davglass)  
- [#156](https://github.com/davglass/license-checker/pull/156) Merge pull request #156 from  
zodiac403/z4/copyright (@zodiac403)  
- [56414b4](https://github.com/davglass/license-checker/commit/56414b4a67cbb25bcc8eb8cc05b0ac712b677dc2)  
Add unit test for Copyright statement. (@zodiac403)  
- [3eafe24](https://github.com/davglass/license-checker/commit/3eafe249ad662af727a9b7472f7ad6c1b9a73ade)  
fixing test coverage with switch to nyc from istanbul (@davglass)

### v19.0.0 (2018/04/30 14:51 +00:00)

- [7e83a06](https://github.com/davglass/license-checker/commit/7e83a069d23c104c3cd8257eb64666704ecca465) 19.0.0 (@davglass)
- [e5eb49b](https://github.com/davglass/license-checker/commit/e5eb49bcb5546dbc681f736f159d63908cd39ce9) upgrading packages (@davglass)
- [442aee6](https://github.com/davglass/license-checker/commit/442aee69b5d44e47bfd2e441c4e1f86d387e49c6) Changlog (@davglass)

### v18.1.0 (2018/04/30 14:16 +00:00)

- [82ec91b](https://github.com/davglass/license-checker/commit/82ec91bb02e6bf998164b62b4aa827198156ad4c) 18.1.0 (@davglass)
- [4b546d3](https://github.com/davglass/license-checker/commit/4b546d38ce91bcbe8d21e7bc53e44635b0447fc2) contrib (@davglass)
- [#155](https://github.com/davglass/license-checker/pull/155) Merge pull request #155 from ktmouk/supress-path-property (@ktmouk)
- [#160](https://github.com/davglass/license-checker/pull/160) Merge pull request #160 from helio-frota/pr (@helio-frota)
- [8b068f2](https://github.com/davglass/license-checker/commit/8b068f25fe910d087c06e29312bc250b49aba4c7) fix: Updating debug dependency to fix a security warning (@helio-frota)
- [040dd94](https://github.com/davglass/license-checker/commit/040dd9468261966c5c40e4a418aa9ba8f716c3a2) Copyright statement: Handle multi-line stagements (@zodiac403)
- [0480750](https://github.com/davglass/license-checker/commit/04807506d61aa1d704e8b51da3a289baa025b510) Fix layout issue. (@zodiac403)
- [9cb45f2](https://github.com/davglass/license-checker/commit/9cb45f2b9ce2c1142c0d1f556f01f7d754737a4c) Link with customFormat (@zodiac403)
- [f83aaae](https://github.com/davglass/license-checker/commit/f83aaae85ad4cc2e9880802951dfacbc86dc2d7f) Merge branch 'z4/copyright' of https://github.com/zodiac403/license-checker into z4/copyright (@zodiac403)
- [7536af9](https://github.com/davglass/license-checker/commit/7536af935d91078657f0e169ed82383f099607f6) Trim output. (@zodiac403)
- [8716845](https://github.com/davglass/license-checker/commit/87168456cae35263882bd2b6d6d0081f228b6b66) Suppress path property (@ktmouk)
- [be57ee8](https://github.com/davglass/license-checker/commit/be57ee8f76c8aada0d227913b7d0e12aca0dc640) Add example for (c) statement. (@zodiac403)
- [fe17f7c](https://github.com/davglass/license-checker/commit/fe17f7c76dbdae0cbf689a0cd260a746698f3281) Parse (c) statements from LICENSE file. (@zodiac403)
- [#149](https://github.com/davglass/license-checker/pull/149) Merge pull request #149 from honzajavorek/patch-1 (@honzajavorek)
- [955bbf6](https://github.com/davglass/license-checker/commit/955bbf6070ffcd9f0d01ef37bb84ffbac65e007b) remove the old status badge (@honzajavorek)

### v18.0.0 (2018/03/20 12:30 +00:00)

- [315de0b](https://github.com/davglass/license-checker/commit/315de0b1a881cf8737c3c0131c217c4820df13a8) 18.0.0 (@davglass)
- [76655d5](https://github.com/davglass/license-checker/commit/76655d59bad95c2e52724aaa3a0cf036f0e60bd6) changelog (@davglass)

- [c8aa823](https://github.com/davglass/license-checker/commit/c8aa82342b7a250d510582c8a03dd76af50bd9c) added contributors (@davglass)
- [#147](https://github.com/davglass/license-checker/pull/147) Merge pull request #147 from honzajavorek/honzajavorek/license-files (@honzajavorek)
- [#148](https://github.com/davglass/license-checker/pull/148) Merge pull request #148 from honzajavorek/honzajavorek/use-stderr (@honzajavorek)
- [#146](https://github.com/davglass/license-checker/pull/146) Merge pull request #146 from honzajavorek/honzajavorek/fix-e2e-test (@honzajavorek)
- [#145](https://github.com/davglass/license-checker/pull/145) Merge pull request #145 from honzajavorek/honzajavorek/drop-4-add-8 (@honzajavorek)
- [0105f7d](https://github.com/davglass/license-checker/commit/0105f7dcf01a67b8f7c34371d95a1d76b191d5ed) use stderr where applicable (@honzajavorek)
- [0ff8d91](https://github.com/davglass/license-checker/commit/0ff8d917c659446256074c0940ae43dd84930233) add support for LICENSE-MIT and similar (@honzajavorek)
- [f02589e](https://github.com/davglass/license-checker/commit/f02589e62c0ba8221081b8b1799d561c3ff20500) isolate and test the license file detection (@honzajavorek)
- [f0da0fe](https://github.com/davglass/license-checker/commit/f0da0fe2ab28f1658e4ed504bb034fb1536b9ff8) add warning about commas and test it (@honzajavorek)
- [3db0b6f](https://github.com/davglass/license-checker/commit/3db0b6f05a68ccff4181503ca87edce4ef10cd7) fix e2e test (transition from comma delimiter to semicolon) (@honzajavorek)
- [cec3b73](https://github.com/davglass/license-checker/commit/cec3b73505ac40a2dca211e78427624d009585dc) let Travis CI to cache node\_modules (@honzajavorek)
- [8cea3dc](https://github.com/davglass/license-checker/commit/8cea3dccf1d185dc3ae3f37f44a82d7e123a1988) add Travis CI badge to the README (@honzajavorek)
- [8f59c3b](https://github.com/davglass/license-checker/commit/8f59c3b494f69b1d51535bcff80c0e006d0ef6bb) drop support for node 4, add support for node 8 (@honzajavorek)

### v17.0.0 (2018/03/19 13:26 +00:00)

- [cd5fdd8](https://github.com/davglass/license-checker/commit/cd5fdd8e94267d7d8f29e86dd9cbf8b694c037f1) 17.0.0 (@davglass)
- [13c11ee](https://github.com/davglass/license-checker/commit/13c11eeea1b1a3e012de62536100fce91c355c8b) updated readme and help text (@davglass)
- [#144](https://github.com/davglass/license-checker/pull/144) Merge pull request #144 from creising/parser-fixes (@creising)
- [d2ab8df](https://github.com/davglass/license-checker/commit/d2ab8df30bc3e6b38b321a1e12a70cf477a69eb0) added support for lic with commas and spaces (@creising)
- [2075208](https://github.com/davglass/license-checker/commit/20752083c6029823fb389a30a1ed4d7d90fa9297) contrib and changelog (@davglass)
- [6c5274c](https://github.com/davglass/license-checker/commit/6c5274c6064d318844cf36185dea395e0893ff08) [fixes #132] - Fixed issue with asFiles and path issues (@davglass)
- [a46c448](https://github.com/davglass/license-checker/commit/a46c4483f872c3db9498a65b7ae3dc6d8164de0a) 16.0.0 (@davglass)
- [38d63e2](https://github.com/davglass/license-checker/commit/38d63e2c2c3fd6c11012fb69b1470b2ba06d5554) [fixes #128] - Added --onlyAllow option (@davglass)

### v16.0.0 (2018/01/18 15:02 +00:00)

- [#131](https://github.com/davglass/license-checker/pull/131) Merge pull request #131



from mischah/patch-1 (@mischah)  
- [e341d17](https://github.com/davglass/license-checker/commit/e341d1701092be87309ec4b51fa6eb23f7e9a589)  
Fix typo in Readme (@mischah)  
- [cc38a20](https://github.com/davglass/license-checker/commit/cc38a2047bf41b6fe25266114a13a9bf54133e04)  
updated license text (@davglass)

### v15.0.0 (2017/10/19 14:24 +00:00)

- [a9bd001](https://github.com/davglass/license-checker/commit/a9bd001b649bfa186bae5598bb8c67ff56383599)  
15.0.0 (@davglass)  
- [db621fa](https://github.com/davglass/license-checker/commit/db621fa6beeff870699c33be484bf49816ab7866)  
changelog (@davglass)  
- [#124](https://github.com/davglass/license-checker/pull/124) Merge pull request #124 from  
neverendingqs/app/stricterguesses (@neverendingqs)  
- [#126](https://github.com/davglass/license-checker/pull/126) app - output now includes path to dependency.  
(#126) (@neverendingqs)  
- [9f68b29](https://github.com/davglass/license-checker/commit/9f68b29bbfa73278cdab92e221be6ccbab191932)  
app - strengthening license  
guessing; resolves #123. (@neverendingqs)  
- [3061c87](https://github.com/davglass/license-checker/commit/3061c87363f3416d86ca6c2ba7b2bfa77def0e73)  
changes (@davglass)

### v14.0.0 (2017/08/28 13:22 +00:00)

- [b2a4403](https://github.com/davglass/license-checker/commit/b2a440309c1537c52e5c5a2106f11e72d5b784ec)  
14.0.0 (@davglass)  
- [#122](https://github.com/davglass/license-checker/pull/122) Added --failOn [list] mode (#122) (@tobilg)

### v13.1.0 (2017/08/25 15:00 +00:00)

- [ee25265](https://github.com/davglass/license-checker/commit/ee25265f92fe0d3b603da6b8c88d175e0d1f2fa5)  
13.1.0 (@davglass)  
- [5bb9a17](https://github.com/davglass/license-checker/commit/5bb9a17f89d7e180b3a9d929ebc073135262bd2f)  
changes (@davglass)  
- [b1e0392](https://github.com/davglass/license-checker/commit/b1e0392afa4b511b7c532125cd3165a828d3d4e3)  
added contrib (@davglass)  
- [#121](https://github.com/davglass/license-checker/pull/121) Add `--summary` mode to show a summary with  
counts of the used licenses (#121)  
(@tobilg)  
- [#119](https://github.com/davglass/license-checker/pull/119) Fix minor spelling mistakes (#119)  
(@tobiasbueschel)  
- [#118](https://github.com/davglass/license-checker/pull/118) Minor readme text improvements (#118)  
(@peteruithoven)  
- [d2bc5ea](https://github.com/davglass/license-checker/commit/d2bc5ea91ab50becea91d5f0f050955fe9a6ac59)  
added license parsing info to README (@davglass)  
- [3e9d320](https://github.com/davglass/license-checker/commit/3e9d320acb2e9f14297d6a4355680f34a9b0609d)  
changes (@davglass)

### v13.0.3 (2017/08/04 17:15 +00:00)

- [2caf76b](https://github.com/davglass/license-checker/commit/2caf76be7f2849e153ee28410f3b7a41df3283b5)  
13.0.3 (@davglass)

- [fadddc8](https://github.com/davglass/license-checker/commit/fadddc895ef9c6f182e2283c5605a8c1d8fa8a25)  
[fixes #117] fixed minor URL parsing (@davglass)  
- [e58a868](https://github.com/davglass/license-checker/commit/e58a868268aefd97d735b364bd87d03140d76482)  
changes (@davglass)

### v13.0.2 (2017/07/18 16:24 +00:00)

-  
[2c712b7](https://github.com/davglass/license-checker/commit/2c712b7c7e6efe916d60f3ef3125f7f019c46d59)  
13.0.2 (@davglass)  
- [ef812c1](https://github.com/davglass/license-checker/commit/ef812c1168901d08b97dbd450a64ca03bb7062ad)  
[fixes #114] - Custom URL/File parsing skipped if file found on disk (@davglass)

### v13.0.1 (2017/07/17 12:48 +00:00)

- [a1bf8f1](https://github.com/davglass/license-checker/commit/a1bf8f152b100d81b44757b3b7e141df6a971c44)  
13.0.1 (@davglass)  
- [e6d0c89](https://github.com/davglass/license-checker/commit/e6d0c893b8a86e12493f7a5c22fd74ef26267994)  
contrib & changes (@davglass)  
- [#113](https://github.com/davglass/license-checker/pull/113) Use LICENSE file in preference to README (#113)  
(@ibeucaly)  
- [6b7f79f](https://github.com/davglass/license-checker/commit/6b7f79f654e21903ea37e4391fba3601ece32e90)  
changes (@davglass)

### v13.0.0 (2017/07/14 12:49 +00:00)

- [dd9e880](https://github.com/davglass/license-checker/commit/dd9e880abd234d683d8c1e57e7a5f889c9156de4)  
13.0.0 (@davglass)  
- [051b20b](https://github.com/davglass/license-checker/commit/051b20b0c4b35f223f724705a0025dafc809373f)  
cleaned up some tests (@davglass)  
- [#110](https://github.com/davglass/license-checker/pull/110) FEATURE: Recognise some custom licenses by file  
or url (#110) (@dancrumb)  
- [#111](https://github.com/davglass/license-checker/pull/111) Resolves #60 (#111) Adding support for GPL and  
LGPL (@dancrumb)  
- [#109](https://github.com/davglass/license-checker/pull/109) FEATURE: Improve license exclusion (#109)  
(@dancrumb)  
- [#108](https://github.com/davglass/license-checker/pull/108) FEATURE: Detect private modules and report them  
as UNLICENSED (#108) (@dancrumb)

### v12.1.0 (2017/07/12 16:48 +00:00)

- [dc944e5](https://github.com/davglass/license-checker/commit/dc944e54d55d77b0ef6b6321d9abee847662ccb8)  
12.1.0 (@davglass)  
- [d415c58](https://github.com/davglass/license-checker/commit/d415c580b04bc5eefa592dc9f9a0a31b244c1bd3)  
updated contrib and changes (@davglass)  
- [#107](https://github.com/davglass/license-checker/pull/107)  
Merge pull request #107 from dancrumb/feature/support-for-public-domain-licenses (@dancrumb)  
- [0c55770](https://github.com/davglass/license-checker/commit/0c55770294167161c48b79cc82a15a6545154a87)  
FEATURE: Add support for Public Domain licenses (@dancrumb)

### v12.0.0 (2017/07/05 13:33 +00:00)

- [8b74fa1](https://github.com/davglass/license-checker/commit/8b74fa1fe3b5edb0d217aa3ce86f4662eb024621)

12.0.0 (@davglass)  
- [4f3367c](https://github.com/davglass/license-checker/commit/4f3367c2bf2e9713a6cccd11341f7f4fa70ed400) changes & contrib (@davglass)  
- [#106](https://github.com/davglass/license-checker/pull/106) Merge pull request #106 from helio-frota/licensefile-readme (@helio-frota)  
- [a229507](https://github.com/davglass/license-checker/commit/a2295073d0178dca1b88e85ea8f52c21d35e52fc) src: the README is added as licenseFile (@helio-frota)  
- [b59d90d](https://github.com/davglass/license-checker/commit/b59d90d8705f6f728c817b89936f95097d26857b) changes & contrib (@davglass)

### v11.0.0 (2017/05/30 13:33 +00:00)

- [258df10](https://github.com/davglass/license-checker/commit/258df102da484943088da8e0b6160b80c0e703cd) 11.0.0 (@davglass)  
- [#102](https://github.com/davglass/license-checker/pull/102) Merge pull request #102 from xswordsx/multiple-licenses (@xswordsx)  
- [c5c8b0f](https://github.com/davglass/license-checker/commit/c5c8b0f408f2a26259a7b1109f7cc135ed5bf9c4) Check for SPDX-compatible licenses (@xswordsx)

### v10.1.0 (2017/05/25 16:16 +00:00)

- [b52a16d](https://github.com/davglass/license-checker/commit/b52a16d0ba414e7287f82325dd65619cd76afdd1) 10.1.0 (@davglass)  
- [f911a99](https://github.com/davglass/license-checker/commit/f911a9919033254945ecbbf69362cb171436688e) contrib & changes (@davglass)  
- [#100](https://github.com/davglass/license-checker/pull/100) Suppress JSON properties with custom format (#100) (@tbbstny)  
- [ed5b3ab](https://github.com/davglass/license-checker/commit/ed5b3ab50825f0be032958f8233dd3000ee98e85) changelog (@davglass)

### v10.0.0 (2017/05/17 13:51 +00:00)

- [b2c2283](https://github.com/davglass/license-checker/commit/b2c2283cf5a937e64a07ab200ec2379e481903b6) 10.0.0 (@davglass)  
- [a0406ac](https://github.com/davglass/license-checker/commit/a0406ac2c7a0b1037ca31b47e36d316b9c088938) [fixes #96] - do not replace newline, etc in licenses for exporting to json/markdown (@davglass)  
- [98a03fa](https://github.com/davglass/license-checker/commit/98a03fa700ef6d038cc2f9104ea5cf17c82a10ad) [fixes #97] - Added a newline to the output file (@davglass)  
- [#98](https://github.com/davglass/license-checker/pull/98) Merge pull request #98 from davglass/eslint (@davglass)  
- [10fe441](https://github.com/davglass/license-checker/commit/10fe441a2e70e549e57f7da99d2287fc55355500) moved to eslint (@davglass)  
- [f82b535](https://github.com/davglass/license-checker/commit/f82b535d3b7f152fa00bb4680e94af18d1c1421d) changelog (@davglass)

### v9.0.3 (2017/04/10 13:42 +00:00)

- [a0fd60f](https://github.com/davglass/license-checker/commit/a0fd60f972b7c84a32117b3dfc1f95bfa2282f27) 9.0.3 (@davglass)  
- [#95](https://github.com/davglass/license-checker/pull/95) Merge pull request #95 from abtris/prefix-component (@abtris)  
- [3b80272](https://github.com/davglass/license-checker/commit/3b80272a217687c2f0cd7a0c1e98775064d820ff)

test: add test for csvComponentPrefix (@abtris)  
- [d593554](https://github.com/davglass/license-checker/commit/d593554c1a6b4f7e004e4a23fca88cb7294f8351)  
feat: add support for csvComponentPrefix (@abtris)  
- [5b2eea1](https://github.com/davglass/license-checker/commit/5b2eea12d8c54068a01a2cf1fd9bdeca8c1f0fa2)  
added contrib (@davglass)

### v9.0.2 (2017/04/05 14:55 +00:00)  
- [f24833b](https://github.com/davglass/license-checker/commit/f24833bce846f608ec3d8c327d335da56c42b895)  
9.0.2 (@davglass)  
- [#94](https://github.com/davglass/license-checker/pull/94) Merge pull request #94 from timbru31/fix-comma-exclude (@timbru31)  
- [2d08a77](https://github.com/davglass/license-checker/commit/2d08a77030362c7ab03ac12358dd524c0be47eee)  
contrib & changelog (@davglass)

### v9.0.1 (2017/04/05 13:09 +00:00)  
- [9f1a1f3](https://github.com/davglass/license-checker/commit/9f1a1f32194a9bb312858f624e303af1ad4f61ca)  
9.0.1 (@davglass)  
- [c99f612](https://github.com/davglass/license-checker/commit/c99f612fee22d9eb03db0ad41e7918fbaf6e8ed9)  
added test for licenseText (@davglass)  
- [#93](https://github.com/davglass/license-checker/pull/93) Merge pull request #93 from abtris/licenseText-just-in-customFormat (@abtris)  
- [8d7fb2f](https://github.com/davglass/license-checker/commit/8d7fb2f85fc585d8e75ab1459e0b0cef43993ba4) fix: allow escaped commas in exclude string (@timbru31)  
- [da4d73c](https://github.com/davglass/license-checker/commit/da4d73c0feb22f50ddbce54364eef5b7bcc7f1a4)  
test: fix test, remove check from non custom format (@abtris)  
- [dcd3b59](https://github.com/davglass/license-checker/commit/dcd3b59bb9457df354fa3095189235b6e030df1a)  
feat: add licenseText  
only for customFormat  
- [4e02eca](https://github.com/davglass/license-checker/commit/4e02eca6e8bd332ff6d90e5039cacb50f0df1bf3)  
updated contribs and changelog (@davglass)

### v9.0.0 (2017/04/04 12:26 +00:00)  
- [267c80e](https://github.com/davglass/license-checker/commit/267c80efac89eef70c71a12b8f12b3dc8e6d58dd)  
9.0.0 (@davglass)  
- [057af47](https://github.com/davglass/license-checker/commit/057af47bc52ac526f646ba21496f338689801809)  
added licenseFile assertion to tests (@davglass)  
- [#92](https://github.com/davglass/license-checker/pull/92) Merge pull request #92 from abtris/includeFileContent (@abtris)  
- [1cda118](https://github.com/davglass/license-checker/commit/1cda118e1aa18cc391ba2765dcca89172943a0f)  
fix: replace problematic chars for easy import to Excel (@abtris)  
- [dd6ecab](https://github.com/davglass/license-checker/commit/dd6ecab1a7b1354c4d1d001491f58dbe0f5e3e63)  
feat: add licenseText (@abtris)  
- [6395498](https://github.com/davglass/license-checker/commit/639549890c54a12043244579ad0c0d5972309fb2)  
changes and contrib (@davglass)

### v8.0.4 (2017/02/15 16:21 +00:00)  
- [28d379a](https://github.com/davglass/license-checker/commit/28d379aca51da7a47af324bc6feb63736ea02295)  
8.0.4 (@davglass)

- [#89](https://github.com/davglass/license-checker/pull/89) Merge pull request #89 from Pawamoy/master (@Pawamoy)
- [#90](https://github.com/davglass/license-checker/pull/90) Merge pull request #90 from drewfish/bsd-source-code (@drewfish)
- [b704bc1](https://github.com/davglass/license-checker/commit/b704bc18a43de246302b8ff6933f8fe5f96ee3a6) guess BSD-Source-Code license (@drewfish)
- [8d31eab](https://github.com/davglass/license-checker/commit/8d31eabfb671d32e6f3e63215d6530d7fb4acc59) Add docs about customFormat option (@pawamoy)
- [2529d31](https://github.com/davglass/license-checker/commit/2529d3118dfae53f1e01056ec99f5c542cb8d63e) changes (@davglass)

### v8.0.3 (2016/11/10 17:04 +00:00)

- [66fd7b5](https://github.com/davglass/license-checker/commit/66fd7b5ad5577cc2c85668a7c6607365c86a2c85) 8.0.3 (@davglass)
- [#87](https://github.com/davglass/license-checker/pull/87) Merge pull request #87 from drewfish/guess-cc0 (@drewfish)
- [668bbd3](https://github.com/davglass/license-checker/commit/668bbd38fd5148f99c5263f4e0506e04d5e3f8a0) guess CC0-1.0, upgraded jshint (@drewfish)

### v8.0.2 (2016/11/09 21:57 +00:00)

- [0bdedd8](https://github.com/davglass/license-checker/commit/0bdedd8cb990e1f5ffacde1c12cc708185a5b866) 8.0.2 (@davglass)
- [ef67bb4](https://github.com/davglass/license-checker/commit/ef67bb454373352343faa49d4dc978a295bd1544) updated semver (@davglass)
- [14b5c85](https://github.com/davglass/license-checker/commit/14b5c8551ccbb5c5ce8aa76fb5367857c891d013) Changelog (@davglass)

### v8.0.1 (2016/11/09 21:51 +00:00)

- [594871d](https://github.com/davglass/license-checker/commit/594871d6197a030121f940500495e6ca7d82f02c) 8.0.1 (@davglass)
- [c243663](https://github.com/davglass/license-checker/commit/c243663b0ab8a0126251292a57b2c47369a51ebf) added contrib (@davglass)
- [#86](https://github.com/davglass/license-checker/pull/86) Merge pull request #86 from drewfish/copying (@drewfish)
- [380aa26](https://github.com/davglass/license-checker/commit/380aa26799cb527739907484e69c6dae26d5f17a) also support COPYING file (@drewfish)
- [329c367](https://github.com/davglass/license-checker/commit/329c3676d0cd5c5947a53fd205ff23b767b7f882) handling undefined@undefined error better (@davglass)
- [1f93a07](https://github.com/davglass/license-checker/commit/1f93a072632aad0660b63f61c56c3bd2fe109474) changelog (@davglass)

### v8.0.0 (2016/09/09 13:23 +00:00)

- [44c2c48](https://github.com/davglass/license-checker/commit/44c2c48ae177915523fdf89a74474fe0953408bf) 8.0.0 (@davglass)
- [b5f5c6a](https://github.com/davglass/license-checker/commit/b5f5c6ae03a8c60c52fdd308f1721744a4baaa99) [fixes #78] - include notice file if found (@davglass)
- [dfcbd6f](https://github.com/davglass/license-checker/commit/dfcbd6f4966adc74e065f71e45cbd08ba8fe62ab)

changelog  
(@davglass)  
- [99976d0](https://github.com/davglass/license-checker/commit/99976d07980e241384be10341d0305d08de9cea5)  
7.1.1 (@davglass)  
- [ef857b7](https://github.com/davglass/license-checker/commit/ef857b7e9bab706299a1cc565ec5d144893af424)  
[fixes #77] fixed readme file name parsing, made it more strict (@davglass)

### v7.1.1 (2016/09/07 19:16 +00:00)

- [28be6d4](https://github.com/davglass/license-checker/commit/28be6d4128a3625cf8ed37ba149e79ed3a41b4fa)  
changelog (@davglass)

### v7.1.0 (2016/09/07 15:12 +00:00)

- [9f8b7f1](https://github.com/davglass/license-checker/commit/9f8b7f1c367dfe86342ee5f5cc97171bf97281aa)  
7.1.0 (@davglass)  
- [60fce1a](https://github.com/davglass/license-checker/commit/60fce1a24a4ef5add98a08dd8c8a85870db3f4a6)  
Fixed order of operations for parsing (@davglass)  
- [9d4db11](https://github.com/davglass/license-checker/commit/9d4db112794b8110a1bfe0abfe2d3e63bc812299)  
Updated changelog (@davglass)

### v7.0.0 (2016/09/06 14:50 +00:00)

- [a3a08da](https://github.com/davglass/license-checker/commit/a3a08da70b680d724045f655e107f36b16b45fea)  
7.0.0 (@davglass)  
- [b993399](https://github.com/davglass/license-checker/commit/b9933994472162cc9c4292cb42f2900e17a5167f)  
added contrib (@davglass)  
- [d783029](https://github.com/davglass/license-checker/commit/d7830297b053496e45b7145b3cfa5809ac8ab1d1)  
Fixes #76 - If readme data not found, look for it on disk (@davglass)  
- [#75](https://github.com/davglass/license-checker/pull/75) Merge pull request #75 from revov/master (@revov)  
- [6204a24](https://github.com/davglass/license-checker/commit/6204a244ee71ae0329b4f2c1ca6cf37713741f32)  
Fix incorrect example in README (@revov)  
- [90e24ac](https://github.com/davglass/license-checker/commit/90e24ac9ad20591d5ac166cc2974034fb997b30a)  
Added changelog (@davglass)  
- [dd768c6](https://github.com/davglass/license-checker/commit/dd768c6c8cbc39b596881a2eca582ad4bb816879)  
Added contributors (@davglass)

### v6.0.0 (2016/08/26 19:46 +00:00)

- [4bca140](https://github.com/davglass/license-checker/commit/4bca140db752b7b98ad1e261e5ee965d84995741)  
6.0.0 (@davglass)  
- [889ff17](https://github.com/davglass/license-checker/commit/889ff171aeb01a2180f4c9100ca9ea528a264d81)  
updating tests (@davglass)  
- [ed18801](https://github.com/davglass/license-checker/commit/ed188010351c4afb44db0d32dfa1025de53bf10f)  
Merge branch 'nodeback' of git://github.com/bengl/license-checker into bengl-nodeback (@davglass)  
- [34bb266](https://github.com/davglass/license-checker/commit/34bb26677cd0e25500fa545d4f1e8aef216b8cc7)  
dropping node 0.10 and adding node 6.0 to travis (@davglass)  
- [1d30667](https://github.com/davglass/license-checker/commit/1d306674a7fface2cad31f2bd76d7584c7922bbc)  
updating tests (@davglass)  
- [65d7c73](https://github.com/davglass/license-checker/commit/65d7c73f967111003fcc71ae24a4a5391bd48046)  
Cleaned up some code (@davglass)  
- [f753998](https://github.com/davglass/license-checker/commit/f753998a06cbb5fd9fff6430b3588a3b3cf81339)

Merge branch 'master' of [git://github.com/amittkSharma/license-checker](https://github.com/amittkSharma/license-checker)  
into amittkSharma-master (@davglass)  
- [28e4462](<https://github.com/davglass/license-checker/commit/28e4462543724685080c1623dc2dbd57cabb1c30>)  
Added tests and cleaned up linting (@davglass)  
- [153857a](<https://github.com/davglass/license-checker/commit/153857a251a97d14c883f6479579844b2980b5aa>)  
Publisher Information incorporated.  
- [1265cb3](<https://github.com/davglass/license-checker/commit/1265cb38d186ab1609dbdfa4124f237f8aa15846>)  
Added ability to output individual license files (@aweber1)  
- [49e11d0](<https://github.com/davglass/license-checker/commit/49e11d049645d565b7ef6d3c778af54eb13af888>)  
fix tests (@bengl)  
- [26ffc6f](<https://github.com/davglass/license-checker/commit/26ffc6f63d43c372c9a18f9c0c137608b3d5e4fa>) use  
nodeback/errback (@bengl)

### v5.1.2 (2016/05/04 18:32 +00:00)

- [7101c77](<https://github.com/davglass/license-checker/commit/7101c77667ad134fe01f02c298e7df2a4080e311>)  
5.1.2 (@davglass)  
- [#67](<https://github.com/davglass/license-checker/pull/67>)  
Merge pull request #67 from graingert/patch-2 (@graingert)  
- [a6ee290](<https://github.com/davglass/license-checker/commit/a6ee2904eb7fcced220dcfe8548f80ec74fde3a2>)  
Upgrade read-installed (@graingert)  
- [42e29c6](<https://github.com/davglass/license-checker/commit/42e29c637940959121842762d74921bece5e8d93>)  
migrating tests from vows to mocha (@davglass)

### v5.1.1 (2016/04/14 13:20 +00:00)

- [6ae0334](<https://github.com/davglass/license-checker/commit/6ae03348ca8e5835ac732028afdab664a381cfc4>)  
5.1.1 (@davglass)  
- [0720a46](<https://github.com/davglass/license-checker/commit/0720a46569f3e12eb398165526944f307e08aad6>)  
Fixes #64 - Turn off color for --json/markdown/csv options (@davglass)

### v5.1.0 (2016/03/09 15:50 +00:00)

- [86772d2](<https://github.com/davglass/license-checker/commit/86772d202b63d4a4c6729b9a774193ca6ef5cb3f>)  
5.1.0 (@davglass)  
- [#61](<https://github.com/davglass/license-checker/pull/61>) Merge pull request #61 from sgtldck/master (@sgtldck)  
- [6547ac1](<https://github.com/davglass/license-checker/commit/6547ac1ded58560c7c4abdfc68fa69d17b81fe1e>)  
Removed obsolete d[key].name assignment from tests (@sgtldck)  
- [00b18a6](<https://github.com/davglass/license-checker/commit/00b18a6012387e1a4a8284c07bf2d08740e03ddd>)  
Added a --relativeLicensePath option to display the license file relatively to the current path. (@sgtldck)  
- [629da20](<https://github.com/davglass/license-checker/commit/629da201e0d1170057fd9efe05efcb293d2f1bda>)  
Added latest contributors (@davglass)

### v5.0.1 (2016/02/08 15:57 +00:00)

- [33731fc](<https://github.com/davglass/license-checker/commit/33731fca482936a7a18fffe3fca2f3cd41e3a625>)  
5.0.1 (@davglass)  
- [fe06eae](<https://github.com/davglass/license-checker/commit/fe06eaeef8844d050ad0f80d576a221dd605131de>)  
Fixed replace (@davglass)  
- [997914f](<https://github.com/davglass/license-checker/commit/997914fd6f94030452d4d9bf549eb156ae8ef7c0>) fix  
git+https URLs (@graingert)  
- [#57](<https://github.com/davglass/license-checker/pull/57>) Merge pull

request #57 from Damien-Larmine/doc-license-asterisk (@Damien-Larmine)  
- [2adff2d](https://github.com/davglass/license-checker/commit/2adff2da98a5af79479a162e4998eb5892ab31c3)  
Explicit the asterisk in license report (@Damien-Larmine)  
- [b2fc9cf](https://github.com/davglass/license-checker/commit/b2fc9cf2a8eaa008c7593037d046f245a7ce7f25)  
5.0.0 (@davglass)  
- [7f71c53](https://github.com/davglass/license-checker/commit/7f71c53833cf1318ffe84215fcb1291f9ce4fbd5)  
updated contributors (@davglass)

### v5.0.0 (2016/01/22 15:31 +00:00)

- [#55](https://github.com/davglass/license-checker/pull/55) Merge pull request #55 from davglass/devflag (@davglass)  
- [ff1d8f2](https://github.com/davglass/license-checker/commit/ff1d8f20d5d7248a4f61e2fc9279fdfea91a6ec6)  
supporting --production and --development flags (@davglass)  
- [#53](https://github.com/davglass/license-checker/pull/53) Merge pull request #53 from swashcap/enhancement/#46-verbose-output (@swashcap)  
- [#54](https://github.com/davglass/license-checker/pull/54)  
Merge pull request #54 from davglass/travis-updates (@davglass)  
- [2c80d9d](https://github.com/davglass/license-checker/commit/2c80d9d2dcc59340698630144256096a91e23f22)  
fixing tests in other node versions (@davglass)  
- [78820ac](https://github.com/davglass/license-checker/commit/78820ac33ab8aed74809c8a5f8847705c8b2848e)  
travis config updates (@davglass)  
- [f94263b](https://github.com/davglass/license-checker/commit/f94263b203046e2f53d64997b0261498010eb38d)  
Update documentation for debug use. (@swashcap)  
- [429e44d](https://github.com/davglass/license-checker/commit/429e44d697527221ef22bb03af9d67820015446f)  
Change `console.error` call to use debug module. (@swashcap)  
- [7312daf](https://github.com/davglass/license-checker/commit/7312daf7af195a1b9d1b1f290fae15963fbb2ab4)  
Add debug to project. (@swashcap)

### v4.2.0 (2015/10/20 13:44 +00:00)

- [3583d92](https://github.com/davglass/license-checker/commit/3583d925e96fc9f63b3bbf0110b11c8448aed0e7)  
4.2.0 (@davglass)  
- [981eeda](https://github.com/davglass/license-checker/commit/981eeda898084dea88d54ea29c5bda93c5313fb6)  
Fixes #49: Default to unknown if licenses null and added ISC support (@davglass)

### v4.1.2 (2015/09/29 13:46 +00:00)

- [ba946dd](https://github.com/davglass/license-checker/commit/ba946dd1065e762c36b27dcecd9bb7389ad18d4)  
4.1.2 (@davglass)  
- [#48](https://github.com/davglass/license-checker/pull/48) Merge pull request #48 from CantemoInternal/master (@CantemoInternal)  
- [e314a6d](https://github.com/davglass/license-checker/commit/e314a6d1f505d19478c33871640a763fabff6abd)  
Fix json, csv and markdown output for license-checker (@mattiasa)

### v4.1.1 (2015/09/12 14:39 +00:00)

- [c918314](https://github.com/davglass/license-checker/commit/c918314bfc687b647d1d288bb5857dd1caac1393)  
4.1.1 (@davglass)  
- [#47](https://github.com/davglass/license-checker/pull/47) Merge pull request #47 from tmpvar/ensure-bin-runs (@tmpvar)  
- [a842eca](https://github.com/davglass/license-checker/commit/a842ecaef008c07df3039dcaacd4641d7273625)



add missing } (@tmpvar)

- [1d513bb](https://github.com/davglass/license-checker/commit/1d513bb673d726f34286061446f965e46d96170e) ensure bin/license-checker works at a high-level (@tmpvar)

### v4.1.0 (2015/09/09 14:52 +00:00)

- [a4bb437](https://github.com/davglass/license-checker/commit/a4bb437ffa806c0832f877da2de7a107863d0a1f) 4.1.0 (@davglass)
- [ddd317a](https://github.com/davglass/license-checker/commit/ddd317a5a09344f0021812b8dee2f39bbbf07a0) fixed all of the windows line endings (@davglass)
- [11e6487](https://github.com/davglass/license-checker/commit/11e64870484435e1e6f8efb9b0f13e6b2f737a6b) Fix issues caused by merge (@ptusch)
- [313a7ed](https://github.com/davglass/license-checker/commit/313a7edc3dbdf8d50e43ba8da89306d3c89326bc) Merge remote-tracking branch 'remotes/upstream/master' into ft\_custom\_format (@ptusch)
- [1f5e326](https://github.com/davglass/license-checker/commit/1f5e326dbca91fc8a396b9e02efe3eac9fd82a82) added contributors to package.json (@davglass)
- [#45](https://github.com/davglass/license-checker/pull/45) Merge pull request #45 from hufsm/ft\_error\_handling (@hufsm)
- [c806034](https://github.com/davglass/license-checker/commit/c806034ab6feaecf297d0c23afb536b290ba8c81) Remove unused var statement (@ptusch)
- [778b1fa](https://github.com/davglass/license-checker/commit/778b1fa1a9c1be0c816545165020522d2dbf17ef) More tests to fulfill the required % (@ptusch)
- [22257d9](https://github.com/davglass/license-checker/commit/22257d95490765db816578cc48c2b5b62699f1aa) Add tests for licenses (WTFPL) (@ptusch)
- [0fe7561](https://github.com/davglass/license-checker/commit/0fe75611a73970fe9e9e0aab2d4bdee5250435b2) Remove unused filter option (never used) (@ptusch)
- [83caa10](https://github.com/davglass/license-checker/commit/83caa10493a5a05ffba6c0e80b5c03f9cd4f65d6) Change license shortcut for WTFPL (@ptusch)
- [3e348db](https://github.com/davglass/license-checker/commit/3e348dbe5feeb7bd356ebef3cd34e69329dbc8c1) More tests for the custom formatter (@ptusch)
- [96c2d6f](https://github.com/davglass/license-checker/commit/96c2d6f24c509df2bf3f6bd8b83a613fea8d9ecc) Add tests for customFormatter (@ptusch)
- [c9948c4](https://github.com/davglass/license-checker/commit/c9948c4b7b2cccd053ba63f4fd2a6a6d0a46493) Add test configs (@ptusch)
- [4b2dea0](https://github.com/davglass/license-checker/commit/4b2dea0c124f6aba63abd2129625825c3b5a6570) Fix merge issues - semicolon slipped through (@ptusch)
- [cc7662a](https://github.com/davglass/license-checker/commit/cc7662a46719c97745410e3ac2b782f937dc54ef) Merge branch 'master' into ft\_error\_handling (@ptusch)
- [04a2294](https://github.com/davglass/license-checker/commit/04a2294b82a8227cccb83d76f73cbd7cf62af533) Add additional test (@ptusch)
- [52fa91c](https://github.com/davglass/license-checker/commit/52fa91c5cbc345736ebe6e97f400a27a773502d2) Add parseJson test (@ptusch)
- [d846c5e](https://github.com/davglass/license-checker/commit/d846c5e6970737dd3085688e7b601e9ea4546417) Fix tests after merge conflict (@ptusch)
- [7eac458](https://github.com/davglass/license-checker/commit/7eac4583f8003b5bda4ef966768bbb457fe8dc44) Merge branch 'master' into ft\_custom\_format (@ptusch)
- [4aa7065](https://github.com/davglass/license-checker/commit/4aa7065c5eef88d49c3684369b2edd9802c3f374)

Add tests for customFormat (@ptusch)

### v4.0.0 (2015/09/04 13:40 +00:00)

- [3fbba5b](https://github.com/davglass/license-checker/commit/3fbba5bd5a489ea8c17328eabf71c4d5e9beeb17e) 4.0.0 (@davglass)

- [ce8d661](https://github.com/davglass/license-checker/commit/ce8d66108a49af7855c16231ce675c567a2ffe7f) tests: added 100% coverage for license file (@davglass)

- [#42](https://github.com/davglass/license-checker/pull/42) Merge pull request #42 from ptusch/ft\_onlyunknown (@ptusch)

- [8929e90](https://github.com/davglass/license-checker/commit/8929e90413be0362f19e755048e9218c372abf68) Add tests for the error generation (@ptusch)

- [1a93a41](https://github.com/davglass/license-checker/commit/1a93a41569a53a1580c94c2c903a5bc127ad2692) Add error handling (@ptusch)

- [6b79145](https://github.com/davglass/license-checker/commit/6b791457463dca71b22b09eecff16bbf982db682) Add additional check to negate the test (@ptusch)

- [559e72c](https://github.com/davglass/license-checker/commit/559e72ccab2420bc42bf28b498702dad13ef967a) Add test for the first function call. (@ptusch)

- [faf8ffd](https://github.com/davglass/license-checker/commit/faf8ffd69fd8ae475484a9b47b57a7b6ea738856) Remove trivial UNKNOWN check (@ptusch)

- [6fa44ef](https://github.com/davglass/license-checker/commit/6fa44ef8c045ab2b0a1291b45990edf52adfc0e2) Merge branch 'master' into ft\_custom\_format (@ptusch)

- [efe23d9](https://github.com/davglass/license-checker/commit/efe23d991cfc40dc6980fbf13461408da822b1f) Merge branch 'master' into ft\_onlyunknown (@ptusch)

- [c287959](https://github.com/davglass/license-checker/commit/c2879592858805d7ecd0304a39c5cf079efe6a7c) Add option to only show unknown licenses (@ptusch)

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- [#43](https://github.com/davglass/license-checker/pull/43) Merge pull request #43 from senotrusov/master (@senotrusov)

- [d7a663f](https://github.com/davglass/license-checker/commit/d7a663f9deeb4d7a648a6d2cb9db84d5667ee540) Add test for exclude option. (@senotrusov)

- [45a27de](https://github.com/davglass/license-checker/commit/45a27de02a3c1d57a86e3f8e14b6e335788c23ba) Add option to exclude from the output modules which licenses are in the comma-separated list (@senotrusov)

- [#41](https://github.com/davglass/license-checker/pull/41) Merge pull request #41 from ptusch/ft\_path\_to\_unknown\_dependency (@ptusch)

- [1ff5f22](https://github.com/davglass/license-checker/commit/1ff5f225fd2ba97edfd3ef3f6462981832740c19) Add option to see the path of a dependency if unknown (@ptusch)

- [ea4d629](https://github.com/davglass/license-checker/commit/ea4d6297de32d94201bb4786da7ba824d928c8f2) Add additional 'undefined' checks (@ptusch)

- [af043a2](https://github.com/davglass/license-checker/commit/af043a2c11af45d28bfe71914cd10672855b3297) Merge branch 'master' into ft\_custom\_format (@ptusch)

- [2d94a19](https://github.com/davglass/license-checker/commit/2d94a19ece177836345a4227893a82d956141b2e) updating the docs for --unknown to make it clear (@davglass)

- [38a2bd2](https://github.com/davglass/license-checker/commit/38a2bd28a9597fdb06d844258f1070054b38bbcf) Fix codestyle and whitespaces (@ptusch)

- [dd173ba](https://github.com/davglass/license-checker/commit/dd173badc65368dc6140476ffe5ae3768fbf9618) Add --customPath in README.md (@ptusch)

- [911fc1c](https://github.com/davglass/license-checker/commit/911fc1c6b5cc27a32aac60bb409c08be138bc707) Finalize the customFormat (markdown) (@ptusch)

- [8102091](https://github.com/davglass/license-checker/commit/8102091f7949fa8b73cfc803e4aead3624b81148)  
Add functionality to add a custom format (@ptusch)

### v3.1.0 (2015/06/29 14:25 +00:00)

- [59e1e58](https://github.com/davglass/license-checker/commit/59e1e58ca0bea1cd38e3da1712fe7ca624d860b0)  
3.1.0 (@davglass)

- [0e33f7a](https://github.com/davglass/license-checker/commit/0e33f7a2cb9fa69d13d1e2b5c69f70f885e09e08)  
reformatted code, fixed lint issues and added tests (@davglass)

- [83a7f09](https://github.com/davglass/license-checker/commit/83a7f0933d1cc1f331279e53fcce13e4efface91)  
Merge branch 'asMarkdown' of git://github.com/ptusch/license-checker into ptusch-asMarkdown (@davglass)

- [703ad47](https://github.com/davglass/license-checker/commit/703ad4714173559e05267e8fd24c74e5b9d3aee0)  
fixing tests (@davglass)

- [2d9fffd](https://github.com/davglass/license-checker/commit/2d9fffd75192e9812692c9099481d23e265bb493)  
Added Markdown Option (@ptusch)

- [67dca36](https://github.com/davglass/license-checker/commit/67dca365b941a7265e4a98d2de533b22c761b169)  
Remove color tags (@ptusch)

### v3.0.3 (2015/06/03 13:35 +00:00)

- [7475c12](https://github.com/davglass/license-checker/commit/7475c129bf291289e4616d9692a962ae537401e8)  
3.0.3 (@davglass)

- [c7dae0f](https://github.com/davglass/license-checker/commit/c7dae0fe5317a17b3aef61e8c118fafc6bb43a56)  
spdx license (@davglass)

### v3.0.2 (2015/05/12 20:29 +00:00)

- [01f3b53](https://github.com/davglass/license-checker/commit/01f3b5384998be6243d38e0d95a4478e5fe3cfa5)  
3.0.2 (@davglass)

- [fc0c083](https://github.com/davglass/license-checker/commit/fc0c0832ee291c55e53efe6b37a7b9d89f191bc7)  
defensive code, fixes #34 (@davglass)

### v3.0.1 (2015/05/04 12:28 +00:00)

- [0479570](https://github.com/davglass/license-checker/commit/0479570faf87eccc9b37fb25afaee7faaec6636)  
3.0.1 (@davglass)

- [d85e355](https://github.com/davglass/license-checker/commit/d85e355b55998952facf202eabf8d374fec69a7e)  
Checking for valid path first (@davglass)

### v3.0.0 (2015/04/24 14:38 +00:00)

- [e22b61d](https://github.com/davglass/license-checker/commit/e22b61d5d32fef7ffb18627f55a97e1863a78096)  
3.0.0 (@davglass)

- [fde9635](https://github.com/davglass/license-checker/commit/fde963583dd207eca4badffb3e0d033a038f17b5)  
always try to find and log the  
license file (@davglass)

### v2.0.2 (2015/01/26 18:18 +00:00)

- [490f31d](https://github.com/davglass/license-checker/commit/490f31d6820f068814cfe27adf3af1ac6d58f733)  
2.0.2 (@davglass)

- [a3fefdb](https://github.com/davglass/license-checker/commit/a3fefdb8fafd7ec64714defb793d757a9e8ad065)  
fixes #30 (@davglass)

### v2.0.1 (2015/01/12 18:34 +00:00)

- [898fbd5](https://github.com/davglass/license-checker/commit/898fbd53fa289338cf8a9a1735eea440c2a6c525) 2.0.1 (@davglass)
- [2da23db](https://github.com/davglass/license-checker/commit/2da23db2f240e7e73efdf93cc554e4d7783af225) cleaned up spacing and moved vars around (@davglass)
- [d47dbe4](https://github.com/davglass/license-checker/commit/d47dbe45c992dbbdb15bfb45e8af7f18ee0ca737) fixes #29 (@davglass)

### v2.0.0 (2014/12/04 16:34 +00:00)

- [f94edfe](https://github.com/davglass/license-checker/commit/f94edfec7a9914b4a36f455e8bffc6230d6f7a5e) 2.0.0 (@davglass)
- [f4c7b1a](https://github.com/davglass/license-checker/commit/f4c7b1a3d4e9c0e4753a9b267e51714fe7f7051e) syntax cleanup (@davglass)
- [d189623](https://github.com/davglass/license-checker/commit/d1896234a5649621ee57ff9a901877d769217194) Document CLI options in Readme. (@timoxley)
- [11e204c](https://github.com/davglass/license-checker/commit/11e204c5c078eae1f165fa010da229d2a9fb4b5) Default to --no-colour for json, csv & file output. (@timoxley)
- [7e80d50](https://github.com/davglass/license-checker/commit/7e80d50c733f8ee42c7b4a79dc3344b3dd330cff) Add --out flag for writing an output file. (@timoxley)
- [47bffc9](https://github.com/davglass/license-checker/commit/47bffc9e0e249b2847c8ed4f3eaadb0dcdd731b9) Always print to stdout, don't write files. (@timoxley)
- [b725080](https://github.com/davglass/license-checker/commit/b725080d2dbdfddbf0994867577d4c5e3dc0ee2a) Don't print info messages to stdout. (@timoxley)

### v1.0.1 (2014/11/27 15:23 +00:00)

- [e60f792](https://github.com/davglass/license-checker/commit/e60f792159351aa7ccff1f7af73e289afee261a5) 1.0.1 (@davglass)
- [3f74178](https://github.com/davglass/license-checker/commit/3f7417822dc8804978d1bae4ed84190d327df15c) Merge branch 'fixinfiniterecursion' of github.com:yzapuchlak/license-checker into yzapuchlak-fixinfiniterecursion (@davglass)
- [dc78ea0](https://github.com/davglass/license-checker/commit/dc78ea0dca546283440c89fec2dc6818dc4cc1c1) sticking vows 0.8.0 for testing (@davglass)
- [bd549b3](https://github.com/davglass/license-checker/commit/bd549b3b68e74fddd0e08dac10d5f88a8bb51ca6) Fixed issue where circular dependencies in dependency tree would cause the flatten function to infinitely recurse. If the current key is found to be already in the data object (which means it was already processed), we stop processing that key and return the data object. (@yzapuchlak)

### v1.0.0 (2014/11/21 13:56 +00:00)

- [917193d](https://github.com/davglass/license-checker/commit/917193dab27147534976b71307a77f48198ca322) 1.0.0 (@davglass)
- [63e5f9c](https://github.com/davglass/license-checker/commit/63e5f9c77e348720b3867171bcc67541e846d088) added options.filter to checker.init (@davglass)

### v0.1.2 (2014/11/20 15:48 +00:00)

- [8e5f5f0](https://github.com/davglass/license-checker/commit/8e5f5f0e7f83252e4039f6c7d16cc266acc1a33a) 0.1.2 (@davglass)
- [3d7a74e](https://github.com/davglass/license-checker/commit/3d7a74e90122f908057b2008ab29d8bd49011291)

fixed lint issue (@davglass)

### v0.1.1 (2014/11/20 15:47 +00:00)

- [750d507](https://github.com/davglass/license-checker/commit/750d5079d32b44ecc984ff7ed672498d1b197235)

0.1.1 (@davglass)

- [94522e0](https://github.com/davglass/license-checker/commit/94522e099434dfdf163c3f2c5cacb3e6aa196cf8)

fixed merge issues (@davglass)

### v0.1.0 (2014/11/20 15:41 +00:00)

- [8127f5e](https://github.com/davglass/license-checker/commit/8127f5e79eeceb7dfd86cd5f694080e4183dcb11)

0.1.0 (@davglass)

- [76c71ac](https://github.com/davglass/license-checker/commit/76c71ac46baeca8c349fe5892dcb659e859b9608)

Updated to newer read-installed (@davglass)

###

v0.0.10 (2014/08/12 12:48 +00:00)

- [807507d](https://github.com/davglass/license-checker/commit/807507df1a293bc0360adffd725a9f911331ff2b)

0.0.10 (@davglass)

- [e39ad9b](https://github.com/davglass/license-checker/commit/e39ad9bce6bcd545772c241e2e7aba8f40d5bbbb)

Added checking that the license file is a normal file, because otherwise an appropriately named directory crashes the license-checker through EISDIR, illegal operation on a directory.

- [40ca4da](https://github.com/davglass/license-checker/commit/40ca4dadbc163ca774c87b1de249bd295952faa9)

colorize (@couchand)

### v0.0.9 (2014/07/29 01:48 +00:00)

- [c14ef79](https://github.com/davglass/license-checker/commit/c14ef79f10f950ff0985e7e0b3138147b98ab1ec)

0.0.9 (@davglass)

- [ba1b66b](https://github.com/davglass/license-checker/commit/ba1b66b6172a2f9f8dbcdc56f40206820bc0916b)

Fixes #12 - Using some nicer regexes (@davglass)

- [bce94d5](https://github.com/davglass/license-checker/commit/bce94d5a8ab2f146356851776b2543df65fbf750)

case insensitive

check (@davglass)

- [87c3406](https://github.com/davglass/license-checker/commit/87c3406aee2507eaf1d00d592f6dcb59a16e7c48)

Allow for LICENCE (@gdw2)

### v0.0.8 (2014/07/07 20:10 +00:00)

- [6ad6ee2](https://github.com/davglass/license-checker/commit/6ad6ee21813e698e7f995e98dcadafbd961f6a33)

0.0.8 (@davglass)

- [b8c5815](https://github.com/davglass/license-checker/commit/b8c58151135f57d91fb0d1cfb194d034c012073f)

added tests and refactored the code a little (@davglass)

- [275f276](https://github.com/davglass/license-checker/commit/275f276dc6e6d5635f9cb5b7e9a978e286f2d174)

Added --csv option to readme file

- [d91eb72](https://github.com/davglass/license-checker/commit/d91eb7289466853ae6e88448b953b4d3d98ebab5)

Apparently abbrev is now at version 1.0.5 which caused the unit test to fail.

- [40b4a42](https://github.com/davglass/license-checker/commit/40b4a420e520c2008b9395d1a8fdf38b56f846f5)

Modified changes based on lshint output during Travis build

- [54e2390](https://github.com/davglass/license-checker/commit/54e2390cefd1dc664a15cd3a84347227f889f48b)

Added csv output option similar to the existing JSON output option. Requires an output filename.

### v0.0.7 (2014/02/26 04:52 +00:00)

- [1ce6d42](https://github.com/davglass/license-checker/commit/1ce6d42147b2d0237870818e8059003b331816cf) 0.0.7 (@davglass)

- [7d04195](https://github.com/davglass/license-checker/commit/7d041959450c68b3c5f427007c43cd6c73c6adfb)

Added not check and a proper test (@davglass)

- [40d6e25](https://github.com/davglass/license-checker/commit/40d6e2580946c3cee1d408ebe28ff523852e8eb2)

Undefined handling (@garrows)

- [90217d0](https://github.com/davglass/license-checker/commit/90217d070fd62cf76eb4e7b1610ed5eef6ae840d)

travis Stuff (@davglass)

- [2bd76c8](https://github.com/davglass/license-checker/commit/2bd76c894f740cd83f6246e0e7341832c6432d8b)

0.0.6 (@davglass)

- [6f390ff](https://github.com/davglass/license-checker/commit/6f390fff60b31a07939e6d325796bdcfbefb5907)

Added some better tests

(@davglass)

- [2dbcac3](https://github.com/davglass/license-checker/commit/2dbcac37b5795ceb6db53452d0e41d1c4bc3153f)

Looking for WTFPL as well as the string (@davglass)

- [5d91a07](https://github.com/davglass/license-checker/commit/5d91a073a8b76ec9a497c1e3b83198ce97e144fd)

Flattened array of one (@davglass)

- [e95da82](https://github.com/davglass/license-checker/commit/e95da820c63e0d56c4567f1cfad07142d3110eca)

Fixed extra var (@davglass)

- [fe8f2f7](https://github.com/davglass/license-checker/commit/fe8f2f7d39d520c0c4d87d34c9d4f55d59f4222d)

Removing unnecessary log statement (@paulmand3l)

- [72a6f24](https://github.com/davglass/license-checker/commit/72a6f2403de43ecf5ec07bb504cb931c0e53f6a3)

Adding license checks in the LICENSE file (and variations) (@paulmand3l)

- [#7](https://github.com/davglass/license-checker/pull/7) Merge pull request #7 from jamesbloomer/master

(@jamesbloomer)

- [a81eee0](https://github.com/davglass/license-checker/commit/a81eee0a27f580688e371cc15015e848f591bb92)

Fixed missing "install" in npm -g (@jamesbloomer)

- [416b012](https://github.com/davglass/license-checker/commit/416b01219e07a8274e05cd883ec050376902adeb)

Updated Version (@davglass)

- [6d9bd1e](https://github.com/davglass/license-checker/commit/6d9bd1e195202c871693d4b1e9bac8c055683e8b)

Fixed lint issue and added a test placeholder. Will add more tests soon (@davglass)

- [655a316](https://github.com/davglass/license-checker/commit/655a316f6448daf3c449f8b88e8878a95a8b153e)

Added Travis test file (@davglass)

- [99895df](https://github.com/davglass/license-checker/commit/99895df6d3ac0f9ae4e8c935311fb1b3f88a688e)

Version Bump (@davglass)

- [#4](https://github.com/davglass/license-checker/pull/4) Merge pull request #4 from badunk/refactor (@badunk)

- [1123a1b](https://github.com/davglass/license-checker/commit/1123a1baefc1975f8c36cb59952254cd66c31017)

Merge branch 'master' of https://github.com/davglass/license-checker (@badunk)

- [191612e](https://github.com/davglass/license-checker/commit/191612e5c21a01bd453368299a14cc5ff1c6fb13)

Version Bump (@davglass)

- [#2](https://github.com/davglass/license-checker/pull/2) Merge pull request #2 from badunk/circular (@badunk)

- [9b5a117](https://github.com/davglass/license-checker/commit/9b5a1175892254e96d72f3d8dc793dcc4e2bde37)

fixed special case when an empty array is passed to license/licenses (@badunk)

- [025668b](https://github.com/davglass/license-checker/commit/025668b0a62b0d5b58662ce6aeed91de909a6fef)

fixed bug with multiple licenses objects not showing (@badunk)

- [e6bdf52](https://github.com/davglass/license-checker/commit/e6bdf52a8e5f9ebed29982014fa4d4586f63d06a)  
cleaned up the code (@badunk)

- [efb62f2](https://github.com/davglass/license-checker/commit/efb62f2f52a29e9a37a7f387b280fc17ab0a5f19)  
added check for circular dependencies (@badunk)

- [825b40c](https://github.com/davglass/license-checker/commit/825b40cb61fee36dd60751daa9d44e28853587ac)  
Version Bump (@davglass)

- [#1](https://github.com/davglass/license-checker/pull/1)  
Merge pull request #1 from mwilliamson/master (@mwilliamson)

- [2f24319](https://github.com/davglass/license-checker/commit/2f24319dd8dd212a1f78ad91af7fee21d50ab762)  
Don't ignore license field if it's a string (@mwilliamson)

- [7b8c34f](https://github.com/davglass/license-checker/commit/7b8c34f75b04a7541bf23d596bbaae5447492c53)  
Initial Commit (@davglass)

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#define COMPONENTS_SUBRESOURCE_FILTER_CORE_BROWSER_COPYING_FILE_STREAM_H_
```

```
#include "base/files/file.h"
```

```
#include "third_party/protobuf/src/google/protobuf/io/zero_copy_stream_impl_lite.h"
```

```
namespace subresource_filter {
```

```
// Implements a CopyingInputStream that reads from a base::File. Can be used in
// combination with CopyingInputStreamAdaptor for reading from that file through
// the ZeroCopyInputStream interface.
```

```
class CopyingFileInputStream : public google::protobuf::io::CopyingInputStream {
public:
 explicit CopyingFileInputStream(base::File file);
```

```
 CopyingFileInputStream(const CopyingFileInputStream&) = delete;
```

```
 CopyingFileInputStream& operator=(const CopyingFileInputStream&) = delete;
```

```
 ~CopyingFileInputStream() override;
```

```
 // google::protobuf::io::CopyingInputStream:
```

```
 int Read(void* buffer, int size) override;
```

```
private:
```

```
 base::File file_;
```

```
};
```

```
// Implements a CopyingOutputStream that writes to a base::File. Can be used in
// combination with CopyingOutputStreamAdaptor for writing to that file through
// the ZeroCopyOutputStream interface.
```

```
class CopyingFileOutputStream
```

```

: public google::protobuf::io::CopyingOutputStream {
public:
explicit CopyingFileOutputStream(base::File file);

CopyingFileOutputStream(const CopyingFileOutputStream&) = delete;
CopyingFileOutputStream& operator=(const CopyingFileOutputStream&) = delete;

~CopyingFileOutputStream() override;

// google::protobuf::io::CopyingOutputStream:
bool Write(const void* buffer, int size) override;

private:
base::File file_;
};

} // namespace subresource_filter

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small inline

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/\*

\* SpanDSP - a series of DSP components for telephony

\*

\* g711.h - In line A-law and u-law conversion routines

\*

\* Written by Steve Underwood <steveu@coppice.org>

\*

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Version 2.1, February 1999

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```
#ifndef COMPONENTS_SERVICES_APP_SERVICE_PUBLIC_CPP_PERMISSION_H_
```

```
#define COMPONENTS_SERVICES_APP_SERVICE_PUBLIC_CPP_PERMISSION_H_
```

```
#include <utility>
```

```
#include <vector>
```

```
#include "base/component_export.h"
```

```
#include "components/services/app_service/public/cpp/macros.h"
```

```
#include "components/services/app_service/public/mojom/types.mojom.h"
```

```
#include "third_party/abseil-cpp/absl/types/optional.h"
```

```
#include "third_party/abseil-cpp/absl/types/variant.h"
```

```
namespace apps {
```

```
// The types of permissions in App Service.
```

```
ENUM(PermissionType,
```

```
 kUnknown,
```

```
 kCamera,
```

```
 kLocation,
```

```
 kMicrophone,
```

```
 kNotifications,
```

```
 kContacts,
```

```
 kStorage,
```

```
 kPrinting,
```

```
 kFileHandling)
```

```
ENUM(TriState, kAllow, kBlock, kAsk)
```

```
// The permission value could be a TriState or a bool
```

```
struct COMPONENT_EXPORT(APP_TYPES) PermissionValue {
```

```
 explicit PermissionValue(bool
```

```
 bool_value);
```

```
 explicit PermissionValue(TriState tristate_value);
```

```
 PermissionValue(const PermissionValue&) = delete;
```

```
 PermissionValue& operator=(const PermissionValue&) = delete;
```

```
 ~PermissionValue();
```

```
 bool operator==(const PermissionValue& other) const;
```

```
 std::unique_ptr<PermissionValue> Clone() const;
```

```
// Checks whether this is equal to permission enabled. If it is TriState, only
```

```
// Allow represent permission enabled.
```

```

bool IsPermissionEnabled() const;

absl::variant<bool, TriState> value;
};

using PermissionValuePtr = std::unique_ptr<PermissionValue>;

struct COMPONENT_EXPORT(APP_TYPES) Permission {
 Permission(PermissionType permission_type,
 PermissionValuePtr value,
 bool is_managed);
 Permission(const Permission&) = delete;
 Permission& operator=(const Permission&) = delete;
 ~Permission();

 bool operator==(const Permission& other) const;
 bool operator!=(const Permission& other) const;

 std::unique_ptr<Permission> Clone() const;

 // Checks whether this is equal to permission enabled. If it is TriState, only
 // Allow represent permission enabled.
 bool IsPermissionEnabled() const;

 std::string ToString() const;

 PermissionType permission_type;
 std::unique_ptr<PermissionValue> value;
 // If the permission is managed by an enterprise policy.
 bool is_managed;
};

using PermissionPtr = std::unique_ptr<Permission>;
using Permissions = std::vector<PermissionPtr>;

// Creates a deep copy of `source_permissions`.
COMPONENT_EXPORT(APP_TYPES)
Permissions ClonePermissions(const Permissions& source_permissions);

COMPONENT_EXPORT(APP_TYPES)
bool IsEqual(const Permissions& source, const Permissions& target);

// TODO(crbug.com/1253250): Remove these functions after migrating to non-mojo
// AppService.
COMPONENT_EXPORT(APP_TYPES)
PermissionType ConvertMojomPermissionTypeToPermissionType(
 apps::mojom::PermissionType mojom_permission_type);

```

```

COMPONENT_EXPORT(APP_TYPES)
apps::mojom::PermissionType ConvertPermissionTypeToMojomPermissionType(
 PermissionType permission_type);

COMPONENT_EXPORT(APP_TYPES)
TriState ConvertMojomTriStateToTriState(apps::mojom::TriState mojom_tri_state);

COMPONENT_EXPORT(APP_TYPES)
apps::mojom::TriState ConvertTriStateToMojomTriState(TriState tri_state);

COMPONENT_EXPORT(APP_TYPES)
PermissionValuePtr ConvertMojomPermissionValueToPermissionValue(
 const apps::mojom::PermissionValuePtr& mojom_permission_value);

COMPONENT_EXPORT(APP_TYPES)
apps::mojom::PermissionValuePtr ConvertPermissionValueToMojomPermissionValue(
 const PermissionValuePtr& permission_value);

COMPONENT_EXPORT(APP_TYPES)
PermissionPtr ConvertMojomPermissionToPermission(
 const apps::mojom::PermissionPtr& mojom_permission);

COMPONENT_EXPORT(APP_TYPES)
apps::mojom::PermissionPtr ConvertPermissionToMojomPermission(
 const PermissionPtr& permission);

} // namespace apps

#endif // COMPONENTS_SERVICES_APP_SERVICE_PUBLIC_CPP_PERMISSION_H_
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```

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\* SpanDSP - a series of DSP components for telephony

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\* g722\_decode.c - The ITU G.722 codec, decode part.

\*

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```
#ifndef CONTENT_BROWSER_MEDIA_MEDIA_LICENSE_DATABASE_H_
#define CONTENT_BROWSER_MEDIA_MEDIA_LICENSE_DATABASE_H_
```

```
#include "base/sequence_checker.h"
```

```
#include "media/cdm/cdm_type.h"
```

```
#include "sql/database.h"
```

```
namespace content {
```

```
// Helper class which encapsulates all database logic for storing media license
```

```
// data.
```

```
//
```

```
// This class must be constructed and used on a sequence which allows blocking.
```

```
class MediaLicenseDatabase {
```

```
public:
```

```
 // The database will be in-memory if `path` is empty.
```

```
 explicit MediaLicenseDatabase(const base::FilePath& path);
```

```
 bool OpenFile(const media::CdmType& cdm_type, const std::string& file_name);
```

```
 absl::optional<std::vector<uint8_t>> ReadFile(const media::CdmType& cdm_type,
 const std::string& file_name);
```

```
 bool WriteFile(const media::CdmType& cdm_type,
```

```
 const std::string& file_name,
```

```
 const std::vector<uint8_t>& data);
```

```
 bool DeleteFile(const media::CdmType& cdm_type, const std::string& file_name);
```

```
 bool ClearDatabase();
```

```

private:
// Opens and sets up a database if one is not already set up.
bool OpenDatabase(bool is_retry = false);

SEQUENCE_CHECKER(sequence_checker_);

// Empty if the database is in-memory.
const base::FilePath path_;

sql::Database db_GUARDED_BY_CONTEXT(sequence_checker_);
};

} // namespace content

#endif // CONTENT_BROWSER_MEDIA_MEDIA_LICENSE_DATABASE_H_
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```

=====

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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see <http://www.cwi.nl>) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see <http://www.cnri.reston.va.us>) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations, which became Zope Corporation. In 2001, the Python Software Foundation (PSF, see <https://www.python.org/psf/>) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation was a sponsoring member of the PSF.

All

Python releases are Open Source (see <http://www.opensource.org> for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

| Release        | Derived from | Year      | Owner      | GPL-compatible? (1) |
|----------------|--------------|-----------|------------|---------------------|
| 0.9.0 thru 1.2 |              | 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       | yes (2)             |
| 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                 |
| 2.1.2          | 2.1.1        | 2002      | PSF        | yes                 |
| 2.1.3          | 2.1.2        | 2002      | PSF        | yes                 |
| 2.2 and above  | 2.1.1        | 2001-now  |            |                     |
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Mesa 3-D graphics library

Version: 7.0

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```

A tiny JavaScript debugging utility modelled after Node.js core's debugging technique. Works in Node.js and web browsers.

## ## Installation

```
```bash
$ npm install debug
```
```

## ## Usage

`debug` exposes a function; simply pass this function the name of your module, and it will return a decorated version of `console.error` for you to pass debug statements to. This will allow you to toggle the debug output for different parts of your module as well as the module as a whole.

Example [\_app.js](./examples/node/app.js):

```
```js
var debug = require('debug')('http')
, http = require('http')
, name = 'My App';

// fake app
```

```

debug('booting %o', name);

http.createServer(function(req, res){
  debug(req.method + ' ' + req.url);
  res.end('hello\n');
}).listen(3000, function(){
  debug('listening');
});

// fake worker of some kind

require('./worker');
```

```

Example [\_worker.js\_](./examples/node/worker.js):

```

```js
var a = require('debug')('worker:a')
    , b = require('debug')('worker:b');

function work() {
  a('doing lots of uninteresting work');
  setTimeout(work, Math.random() * 1000);
}

work();

function workb() {
  b('doing some work');
  setTimeout(workb, Math.random() * 2000);
}

workb();
```

```

The `DEBUG` environment variable is then used to enable these based on space or comma-delimited names.

Here  
are some examples:



#### #### Windows command prompt notes

##### ##### CMD

On Windows the environment variable is set using the `set` command.

```
```cmd
set DEBUG=*,-not_this
```
```

Example:

```
```cmd
set DEBUG=* & node app.js
```
```

##### ##### PowerShell (VS Code default)

PowerShell uses different syntax to set environment variables.

```
```cmd
$env:DEBUG = "*,-not_this"
```
```

Example:

```
```cmd
$env:DEBUG='app';node app.js
```
```

Then, run the program to be debugged as usual.

npm script example:

```
```js
"windowsDebug":
"@powershell -Command $env:DEBUG='*';node app.js",
```
```

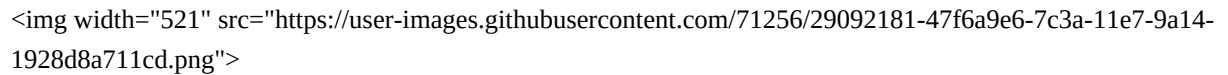
#### ## Namespace Colors

Every debug instance has a color generated for it based on its namespace name. This helps when visually parsing the debug output to identify which debug instance a debug line belongs to.

#### #### Node.js

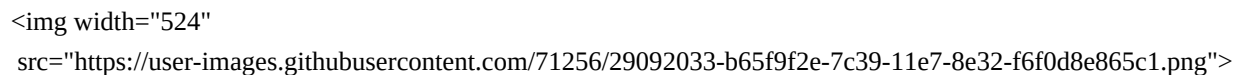
In Node.js, colors are enabled when stderr is a TTY. You also `_should_` install

the `[`supports-color`](https://npmjs.org/supports-color)` module alongside `debug`, otherwise `debug` will only use a small handful of basic colors.



#### #### Web Browser

Colors are also enabled on "Web Inspectors" that understand the ``%c`` formatting option. These are WebKit web inspectors, Firefox ([since version 31](https://hacks.mozilla.org/2014/05/editable-box-model-multiple-selection-sublime-text-keys-much-more-firefox-developer-tools-episode-31/)) and the Firebug plugin for Firefox (any version).

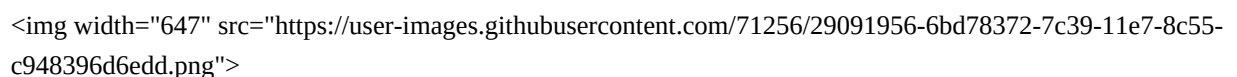


#### ## Millisecond diff

When actively developing an application it can be useful to see when the time spent between one ``debug()`` call and the next. Suppose for example you invoke ``debug()`` before requesting a resource, and after as well, the `"+NNNms"` will show you how much time was spent between calls.



When `stdout` is not a TTY, ``Date#toISOString()`` is used, making it more useful for logging the debug information as shown below:



#### ## Conventions

If you're using this in one or more of your libraries, you `_should_` use the name of your library so that developers may toggle debugging as desired without guessing names. If you have more than one debuggers you `_should_` prefix them with your library name and use `":"` to separate features. For example "bodyParser" from Connect would then be "connect:bodyParser". If you append a `"*"` to the end of your name, it will always be enabled regardless of the setting of the `DEBUG` environment variable. You can then use it for normal output as well as debug output.

#### ## Wildcards

The ``*`` character may be used as a wildcard. Suppose for example your library has debuggers named "connect:bodyParser", "connect:compress", "connect:session", instead of listing all three with

``DEBUG=connect:bodyParser,connect:compress,connect:session``, you may simply do ``DEBUG=connect:*``, or to run everything using this module simply use ``DEBUG=*``.

You can also exclude specific debuggers by prefixing them with a "-" character. For example, ``DEBUG=*,-connect:*`` would include all debuggers except those starting with "connect:".

## ## Environment Variables

When running through Node.js, you can set a few environment variables that will change the behavior of the debug logging:

| Name                             | Purpose                                           |
|----------------------------------|---------------------------------------------------|
| ----- -----                      | -----                                             |
| <code>`DEBUG`</code>             | Enables/disables specific debugging namespaces.   |
| <code>`DEBUG_HIDE_DATE`</code>   | Hide date from debug output (non-TTY).            |
| <code>`DEBUG_COLORS`</code>      | Whether or not to use colors in the debug output. |
| <code>`DEBUG_DEPTH`</code>       | Object inspection depth.                          |
| <code>`DEBUG_SHOW_HIDDEN`</code> | Shows hidden properties on inspected objects.     |

\_\_Note:\_\_ The environment variables beginning with ``DEBUG_`` end up being converted into an Options object that gets used with ``%o`/`%O`` formatters. See the Node.js documentation for `[util.inspect()]`([https://nodejs.org/api/util.html#util\\_util\\_inspect\\_object\\_options](https://nodejs.org/api/util.html#util_util_inspect_object_options)) for the complete list.

## ## Formatters

Debug uses `[printf-style]`([https://wikipedia.org/wiki/Printf\\_format\\_string](https://wikipedia.org/wiki/Printf_format_string)) formatting. Below are the officially supported formatters:

| Formatter         | Representation                                                                            |
|-------------------|-------------------------------------------------------------------------------------------|
| ----- -----       | -----                                                                                     |
| <code>`%O`</code> | Pretty-print an Object on multiple lines.                                                 |
| <code>`%o`</code> | Pretty-print an Object all on a single line.                                              |
| <code>`%s`</code> | String.                                                                                   |
| <code>`%d`</code> | Number (both integer and float).                                                          |
| <code>`%j`</code> | JSON. Replaced with the string '[Circular]' if the argument contains circular references. |
| <code>`%%`</code> | Single percent sign (%). This does not consume an argument.                               |

## ### Custom formatters

You can add custom formatters by extending the ``debug.formatters`` object. For example, if you wanted to add support for rendering a Buffer as hex with

`%h`, you could do something like:

```
```js
const createDebug = require('debug')
createDebug.formatters.h = (v) => {
  return v.toString('hex')
}

// elsewhere
const debug = createDebug('foo')
debug('this is hex: %h', new Buffer('hello world'))
// foo this is hex: 68656c6c66f20776f726c6421 +0ms
```
```

## ## Browser Support

You can build a browser-ready script using [browserify](https://github.com/substack/node-browserify), or just use the [browserify-as-a-service](https://wzrd.in/) [build](https://wzrd.in/standalone/debug@latest), if you don't want to build it yourself.

Debug's enable state is currently persisted by `localStorage`. Consider the situation shown below where you have `worker:a` and `worker:b`, and wish to debug both. You can enable this using `localStorage.debug`:

```
```js
localStorage.debug = 'worker:*'
```
```

And then refresh the page.

```
```js
a = debug('worker:a');
b = debug('worker:b');

setInterval(function(){
  a('doing some work');
}, 1000);

setInterval(function(){
  b('doing some work');
}, 1200);
```
```

## ## Output streams

By default `debug` will log to stderr, however this can be configured per-namespace by overriding the `log` method:

Example [\_stdout.js\_](./examples/node/stdout.js):

```
```js
var debug = require('debug');
var error = debug('app:error');

// by default stderr is used
error('goes to stderr!');

var log = debug('app:log');
// set this namespace to log via console.log
log.log
  = console.log.bind(console); // don't forget to bind to console!
log('goes to stdout');
error('still goes to stderr!');

// set all output to go via console.info
// overrides all per-namespace log settings
debug.log = console.info.bind(console);
error('now goes to stdout via console.info');
log('still goes to stdout, but via console.info now');
```
```

#### ## Extend

You can simply extend debugger

```
```js
const log = require('debug')('auth');

//creates new debug instance with extended namespace
const logSign = log.extend('sign');
const logLogin = log.extend('login');

log('hello'); // auth hello
logSign('hello'); //auth:sign hello
logLogin('hello'); //auth:login hello
```
```

#### ## Set dynamically

You can also enable debug dynamically by calling the `enable()` method :

```
```js
let debug = require('debug');

console.log(1, debug.enabled('test'));
```

```
debug.enable('test');
console.log(2, debug.enabled('test'));
```

```
debug.disable();
console.log(3, debug.enabled('test'));
```

```
...
```

```
print :
...
```

```
1
  false
2 true
3 false
...
```

Usage :

``enable(namespaces)``

``namespaces`` can include modes separated by a colon and wildcards.

Note that calling ``enable()`` completely overrides previously set `DEBUG` variable :

```
...
```

```
$ DEBUG=foo node -e 'var dbg = require("debug"); dbg.enable("bar"); console.log(dbg.enabled("foo"))'
=> false
...
```

Checking whether a debug target is enabled

After you've created a debug instance, you can determine whether or not it is enabled by checking the ``enabled`` property:

```
```javascript
const debug = require('debug')('http');

if (debug.enabled) {
 // do stuff...
}
...
```

You can also manually toggle this property to force the debug instance to be enabled or disabled.

## Authors

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\* title: Wenge Wood Side Table - Low Poly

\* source: <https://sketchfab.com/3d-models/wenge-wood-side-table-low-poly-87586ee0beeb435688e32c47f4141e12>

\* author: Intermittent Art (<https://sketchfab.com/intermittentart>)

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## Commands to generate dependency files

GEN\_DEPS.c= \$(CC) -E -MM \$(DEFS) \$(CPPFLAGS)

GEN\_DEPS.cc= \$(CXX) -E -MM \$(DEFS) \$(CPPFLAGS)

## Flags for position independent code

SHAREDLIBCFLAGS = -fPIC

SHAREDLIBCXXFLAGS = -fPIC

SHAREDLIBCPPFLAGS = -DPIC

## Additional flags when building libraries and with threads

THREADSCPPFLAGS = -D\_REENTRANT

LIBCPPFLAGS =

## Compiler switch to embed a runtime search path

LD\_RPATH=

LD\_RPATH\_PRE= -Wl,-rpath,

## Compiler switch to embed a library name

LD\_SONAME = -Wl,-soname -Wl,\$(notdir \$(MIDDLE\_SO\_TARGET))

```

Shared library options
LD_SOOPTIONS= -Wl,-Bsymbolic

Shared object suffix
SO = so

Non-shared intermediate object suffix
STATIC_O = ao

Compilation
rules
%. $(STATIC_O): $(srcdir)/%.c
$(COMPILE.c) $(STATICCPPFLAGS) $(STATICCFLAGS) -o $@ $<
%.o: $(srcdir)/%.c
$(COMPILE.c) $(DYNAMICCPPFLAGS) $(DYNAMICCFLAGS) -o $@ $<

%. $(STATIC_O): $(srcdir)/%.cpp
$(COMPILE.cc) $(STATICCPPFLAGS) $(STATICCXXFLAGS) -o $@ $<
%.o: $(srcdir)/%.cpp
$(COMPILE.cc) $(DYNAMICCPPFLAGS) $(DYNAMICCXXFLAGS) -o $@ $<

Dependency rules
%.d: $(srcdir)/%.c
@echo "generating dependency information for $<"
@$(SHELL) -ec '$(GEN_DEPS.c) $< \
| sed "s/\($*\)\.o[:]*/\1.o $@ : /g"' > $@; \
[-s $@] || rm -f $@

%.d: $(srcdir)/%.cpp
@echo "generating dependency information for $<"
@$(SHELL) -ec '$(GEN_DEPS.cc) $< \
| sed "s/\($*\)\.o[:]*/\1.o $@ : /g"' > $@; \
[-s $@] || rm -f $@

Versioned libraries rules

%. $(SO).$(SO_TARGET_VERSION_MAJOR): %. $(SO).$(SO_TARGET_VERSION)
$(RM) $@ && ln -s ${<F} $@
%. $(SO): %. $(SO).$(SO_TARGET_VERSION_MAJOR)
$(RM) $@ && ln -s ${*F}. $(SO).$(SO_TARGET_VERSION) $@

Bind internal references

LDflags that pkgdata will use
BIR_LDFLAGS= -Wl,-Bsymbolic

Dependencies [i.e. map files] for the final library

```

BIR\_DEPS=

## Remove shared library 's'

STATIC\_PREFIX\_WHEN\_USED =

STATIC\_PREFIX =

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source: <https://github.com/johan/world.geo.json>

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# Original Design  
Shabsi Walfish

# C++ Implementation

Alexei Czeskis

Nick Salyzyn

/\*

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/\* zlib.h -- interface of the 'zlib' general purpose compression library  
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```
#ifndef CONTENT_BROWSER_MEDIA_MEDIA_LICENSE_QUOTA_CLIENT_H_
#define CONTENT_BROWSER_MEDIA_MEDIA_LICENSE_QUOTA_CLIENT_H_
```

```
#include "components/services/storage/public/mojom/quota_client.mojom.h"
```

```
#include "content/common/content_export.h"
```

```
namespace content {
```

```
class MediaLicenseManager;
```

```
// Integrates media licenses with the quota system.
```

```
//
```

```
// Each MediaLicenseManager owns exactly one MediaLicenseQuotaClient.
```

```
class CONTENT_EXPORT MediaLicenseQuotaClient
```

```
 : public storage::mojom::QuotaClient {
```

```
public:
```

```
 explicit MediaLicenseQuotaClient(MediaLicenseManager* manager);
```

```
 ~MediaLicenseQuotaClient() override;
```

```
// storage::mojom::QuotaClient implementation:
```

```
void GetBucketUsage(const storage::BucketLocator& bucket,
```

```
 GetBucketUsageCallback callback) override;
```

```
void GetStorageKeysForType(blink::mojom::StorageType type,
```

```
 GetStorageKeysForTypeCallback callback) override;
```

```
void DeleteBucketData(const storage::BucketLocator& bucket,
```

```
 DeleteBucketDataCallback callback) override;
```

```
void PerformStorageCleanup(blink::mojom::StorageType type,
```

```
 PerformStorageCleanupCallback callback) override;
```

```
private:
```

```
 SEQUENCE_CHECKER(sequence_checker_);
```

```
 const raw_ptr<MediaLicenseManager> manager_
```

```
 GUARDED_BY_CONTEXT(sequence_checker_);
```

```
};
```

```
} // namespace content
```



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\* Small optimizations to Python serialization.

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\* VI syntax highlighting tweaks.

\* Fix compiler to not make output executable.

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\* Heuristic detection of sub-messages when printing unknown fields in text format.

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- \* Added @Override annotation to generated Java code where appropriate.

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- \* Solaris 10 + Sun Studio fixes.

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- \* Slicing support for repeated scalar fields for the Python API.

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- \* MS Visual Studio error format option.
- \* Detect unordered\_map in stl\_hash.m4.

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- \* gzip/zlib I/O support.

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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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- \* Fixed initialization ordering problem in logging code.

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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.

Alexander Melnikov <alm@sibmail.ru>

- \* HPUX support.

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

Evan Jones <evanj@mit.edu>

- \* 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.

Michael Kucharski <m.kucharski@gmail.com>

- \* Added CodedInputStream.getTotalBytesRead().

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- \* Fixed m4/acx\_pthread.m4 problem for some Linux distributions.

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- \* Fixed detection of sched\_yield on Solaris.
- \* Added atomicops for Solaris

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- \* Fixed minor IBM xLC compiler build issues
- \* Added atomicops for AIX (POWER)

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- \* Provide a type alias field ValueType

on EnumTypeWrapper

\* Match service argument names to abstract interface

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#### A. HISTORY OF THE SOFTWARE

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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see <http://www.cwi.nl>) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see <http://www.cnri.reston.va.us>) in Reston, Virginia where he released several versions of the

software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations, which became Zope Corporation. In 2001, the Python Software Foundation (PSF, see <https://www.python.org/psf/>) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation was a sponsoring member of the PSF.

All

Python releases are Open Source (see <http://www.opensource.org> for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

| Release        | Derived from | Year      | Owner      | GPL-compatible? (1) |
|----------------|--------------|-----------|------------|---------------------|
| 0.9.0 thru 1.2 |              | 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       | yes (2)             |
| 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                 |
| 2.1.2          | 2.1.1        | 2002      | PSF        | yes                 |
| 2.1.3          | 2.1.2        | 2002      | PSF        | yes                 |
| 2.2 and above  | 2.1.1        | 2001-now  | PSF        | yes                 |

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- topographic model from Elevation model 2 m (U4421B, U4421D, U4422A and U4422C) 08/2014
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```
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```

```
module blink.mojom;
```

```
import "third_party/blink/public/mojom/permissions/permission_status.mojom";
import "url/mojom/origin.mojom";
```

```
enum PermissionName {
```

```

GEOLOCATION,
NOTIFICATIONS,
MIDI,
PROTECTED_MEDIA_IDENTIFIER,
DURABLE_STORAGE,
AUDIO_CAPTURE,
VIDEO_CAPTURE,
BACKGROUND_SYNC,
SENSORS,
ACCESSIBILITY_EVENTS,
CLIPBOARD_READ,
CLIPBOARD_WRITE,
PAYMENT_HANDLER,
BACKGROUND_FETCH,
IDLE_DETECTION,
PERIODIC_BACKGROUND_SYNC,
SCREEN_WAKE_LOCK,
SYSTEM_WAKE_LOCK,
NFC,
STORAGE_ACCESS,
WINDOW_PLACEMENT,
LOCAL_FONTS,
DISPLAY_CAPTURE,
};

struct MidiPermissionDescriptor {
 bool sysex;
};

struct ClipboardPermissionDescriptor {
 // True if the clipboard action came with a user activation.
 bool has_user_gesture;
 // True if the clipboard action will be a standard format such as plain text.
 bool will_be_sanitized;
};

struct
CameraDevicePermissionDescriptor {
 bool panTiltZoom;
};

struct StorageAccessPermissionDescriptor {
 // Site vs Origin applicability is still in flux. The current naming indicates
 // site, but origin is preferred as site can be derived from it and not vice-
 // versa. See, e.g.: https://github.com/privacypg/storage-access/issues/113
 url.mojom.Origin siteOverride;
};

```

```

// Union of possible extensions to the base PermissionDescriptor type.
union PermissionDescriptorExtension {
 MidiPermissionDescriptor midi;
 ClipboardPermissionDescriptor clipboard;
 CameraDevicePermissionDescriptor camera_device;
 StorageAccessPermissionDescriptor storage_access;
};

// This struct roughly corresponds to the PermissionDescriptor dictionary as
// defined by the Permissions API.
struct PermissionDescriptor {
 PermissionName name;
 PermissionDescriptorExtension? extension;
};

// Interface a client can implement to observe permission changes.
interface PermissionObserver {
 OnPermissionStatusChange(PermissionStatus
 status);
};

// The Permission service provides permission handling capabilities by exposing
// methods to check, request, and revoke permissions. It also allows a client to
// start listening to permission changes.
interface PermissionService {
 HasPermission(PermissionDescriptor permission) => (PermissionStatus status);
 RequestPermission(PermissionDescriptor permission, bool user_gesture)
 => (PermissionStatus status);
 RequestPermissions(array<PermissionDescriptor> permission, bool user_gesture)
 => (array<PermissionStatus> statuses);
 RevokePermission(PermissionDescriptor permission)
 => (PermissionStatus status);
 // Subscribes |observer| to updates about changes to the current origin's
 // access to |permission|. Closing the pipe will cancel the subscription.
 AddPermissionObserver(PermissionDescriptor permission,
 PermissionStatus last_known_status,
 pending_remote<PermissionObserver>
 observer);
};
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```

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reporting:

reports:

- lcov
- text
- text-summary

check:

global:

statements: 95  
lines: 95  
branches: 90  
functions: 100

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## chokidar

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By: Paul Miller, Elan Shanker

Repository: git+https://github.com/paulmillr/chokidar.git

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Repository: jorgebucaran/colorette

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By: Sindre Sorhus

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Repository: jonschlinkert/fill-range

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By: Gulp Team, Elan Shanker, Blaine Bublitz

Repository: gulpjs/glob-parent

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By: Fedor Indutny  
Repository: [git@github.com:indutny/hash.js](https://github.com/indutny/hash.js)

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is-extglob

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By: Jon Schlinkert

Repository: jonschlinkert/is-extglob

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Repository: micromatch/is-glob

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## is-reference

License: MIT

By: Rich Harris

Repository: git+https://github.com/Rich-Harris/is-reference.git

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## locate-character

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By: Rich Harris

Repository: Rich-Harris/locate-character

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## magic-string

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By: Rich Harris

Repository: https://github.com/rich-harris/magic-string

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## readdirp

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By: Thorsten Lorenz, Paul Miller

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By: Valerio Proietti  
Repository: [git://github.com/kamicane/require-relative.git](https://github.com/kamicane/require-relative.git)

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Ben Coe  
Repository: <https://github.com/tapjs/signal-exit.git>

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```

#ifndef CONTENT_BROWSER_MEDIA_MEDIA_LICENSE_MANAGER_H_
#define CONTENT_BROWSER_MEDIA_MEDIA_LICENSE_MANAGER_H_

#include <memory>
#include <vector>

#include "base/callback_forward.h"
#include "base/containers/flat_map.h"
#include "base/files/file_path.h"
#include "base/memory/scoped_refptr.h"
#include "base/task/sequenced_task_runner.h"
#include "base/types/pass_key.h"
#include "components/services/storage/public/cpp/buckets/bucket_locator.h"
#include "content/browser/media/media_license_quota_client.h"
#include "content/common/content_export.h"
#include "media/cdm/cdm_type.h"
#include "media/mojom/mojom/cdm_storage.mojom.h"
#include "storage/browser/quota/quota_manager_proxy.h"
#include "third_party/blink/public/common/storage_key/storage_key.h"

namespace content {
class MediaLicenseStorageHost;

// Each StoragePartition owns exactly one instance
// of this class. This class
// creates and destroys MediaLicenseStorageHost instances to meet the
// demands for CDM from different storage keys.
//
// This class is not thread-safe, and all access to an instance must happen on
// the same sequence.
class CONTENT_EXPORT MediaLicenseManager {
public:
 // CdmStorage provides per-storage key, per-CDM type storage.
 struct CONTENT_EXPORT BindingContext {
 BindingContext(const blink::StorageKey& storage_key,
 const media::CdmType& cdm_type)
 : storage_key(storage_key), cdm_type(cdm_type) {}

 const blink::StorageKey storage_key;
 const media::CdmType cdm_type;
 };

 // A CDM file for a given storage key can be uniquely identified by its name
 // and CDM type.
 struct CONTENT_EXPORT CdmFileId {
 CdmFileId(const std::string& name, const media::CdmType& cdm_type);
 CdmFileId(const CdmFileId&);
 ~CdmFileId();
 };
};

```

```

bool operator==(const CdmFileId& rhs) const {
 return (name == rhs.name) &&
(cdm_type == rhs.cdm_type);
}

bool operator<(const CdmFileId& rhs) const {
 return std::tie(name, cdm_type) < std::tie(rhs.name, rhs.cdm_type);
}

const std::string name;
const media::CdmType cdm_type;
};

struct CONTENT_EXPORT CdmFileIdAndContents {
 CdmFileIdAndContents(const CdmFileId& file, std::vector<uint8_t> data);
 CdmFileIdAndContents(const CdmFileIdAndContents&);
 ~CdmFileIdAndContents();

 const CdmFileId file;
 const std::vector<uint8_t> data;
};

MediaLicenseManager(
 bool in_memory,
 scoped_refptr<storage::SpecialStoragePolicy> special_storage_policy,
 scoped_refptr<storage::QuotaManagerProxy> quota_manager_proxy);
MediaLicenseManager(const MediaLicenseManager&) = delete;
MediaLicenseManager& operator=(const MediaLicenseManager&) = delete;
~MediaLicenseManager();

void OpenCdmStorage(const BindingContext& binding_context,
 mojo::PendingReceiver<media::mojom::CdmStorage> receiver);

// Called by the MediaLicenseQuotaClient.
void DeleteBucketData(
 const storage::BucketLocator& bucket,
 storage::mojom::QuotaClient::DeleteBucketDataCallback callback);

// Returns an empty path if the database is in-memory.
base::FilePath GetDatabasePath(const storage::BucketLocator& bucket_locator);

// Called when a receiver is disconnected from a MediaLicenseStorageHost.
//
// `host` must be owned by this manager. `host` may be deleted.
void OnHostReceiverDisconnect(
 MediaLicenseStorageHost* host,
 base::PassKey<MediaLicenseStorageHost> pass_key);

```

```

const scoped_refptr<storage::QuotaManagerProxy> & quota_manager_proxy() const {
 DCHECK_CALLED_ON_VALID_SEQUENCE(sequence_checker_);
 return quota_manager_proxy_;
}

const scoped_refptr<base::SequencedTaskRunner> & db_runner() const {
 DCHECK_CALLED_ON_VALID_SEQUENCE(sequence_checker_);
 return db_runner_;
}

bool in_memory() const {
 DCHECK_CALLED_ON_VALID_SEQUENCE(sequence_checker_);
 return in_memory_;
}

private:
void DidGetBucket(const blink::StorageKey& storage_key,
 storage::QuotaErrorOr<storage::BucketInfo> result);

void DidDeleteBucketData(
 storage::mojom::QuotaClient::DeleteBucketDataCallback callback,
 bool success);

SEQUENCE_CHECKER(sequence_checker_);

// Task runner which all database operations are routed through.
const scoped_refptr<base::SequencedTaskRunner> db_runner_;

const bool in_memory_;

// Tracks special rights for apps and extensions, may be null.
const scoped_refptr<storage::SpecialStoragePolicy> special_storage_policy_;

const scoped_refptr<storage::QuotaManagerProxy> quota_manager_proxy_;

base::flat_map<blink::StorageKey, std::unique_ptr<MediaLicenseStorageHost>>
 hosts_ GUARDED_BY_CONTEXT(sequence_checker_);

// Maps storage keys to a list of receivers which are awaiting bucket
// information from the quota system before they can be bound.
base::flat_map<

 blink::StorageKey,
 std::vector<std::pair<BindingContext,
 mojo::PendingReceiver<media::mojom::CdmStorage>>>>
 pending_receivers_;

MediaLicenseQuotaClient quota_client_ GUARDED_BY_CONTEXT(sequence_checker_);

```

```

// Once the QuotaClient receiver is destroyed, the underlying mojo connection
// is closed. Callbacks associated with mojo calls received over this
// connection may only be dropped after the connection is closed. For this
// reason, it's preferable to have the receiver be destroyed as early as
// possible during the MediaLicenseManager destruction process.
mojo::Receiver<storage::mojom::QuotaClient> quota_client_receiver_
 GUARDED_BY_CONTEXT(sequence_checker_);

base::WeakPtrFactory<MediaLicenseManager> weak_factory_{this};
};

} // namespace content

#endif // CONTENT_BROWSER_MEDIA_MEDIA_LICENSE_MANAGER_H_
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```

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NEUQUANT Neural-Net quantization algorithm by Anthony Dekker, 1994. See "Kohonen neural networks for optimal colour quantization" in "Network: Computation in Neural Systems" Vol. 5 (1994) pp 351-367. for a discussion of the algorithm.

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^ expected errors | v input

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/\*---

esid: sec-assignment-operators-static-semantics-early-errors

description: Minimal test

---\*/

void 0;

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validate-npm-package-license

=====

Give me a string and I'll tell you if it's a valid npm package license string.

```
```javascript
var valid = require('validate-npm-package-license');
```
```

SPDX license identifiers are valid license strings:

```
```javascript

var assert = require('assert');
var validSPDXExpression = {
  validForNewPackages: true,
  validForOldPackages: true,
  spdx: true
};

assert.deepEqual(valid('MIT'), validSPDXExpression);
assert.deepEqual(valid('BSD-2-Clause'), validSPDXExpression);
assert.deepEqual(valid('Apache-2.0'), validSPDXExpression);
assert.deepEqual(valid('ISC'), validSPDXExpression);
```
```

The function will return a warning and suggestion for nearly-correct license identifiers:

```
```javascript
assert.deepEqual(
  valid('Apache 2.0'),
  {
    validForOldPackages: false,
    validForNewPackages: false,
    warnings: [
      'license should be ' +
      'a valid SPDX license expression (without "LicenseRef"), ' +
      '"UNLICENSED", or ' +
      '"SEE LICENSE IN <filename>"',
      'license is similar to the valid expression "Apache-2.0"'
    ]
  }
);
```
```

SPDX expressions are valid, too ...

```
```javascript
// Simple SPDX license expression for dual licensing
assert.deepEqual(
  valid('(GPL-3.0-only OR BSD-2-Clause)'),
  validSPDXExpression
);
```
```



```

... except if they contain `LicenseRef`:

```
```javascript
var warningAboutLicenseRef = {
 validForOldPackages: false,
 validForNewPackages: false,
 spdx: true,
 warnings: [
 'license should be ' +
 'a valid SPDX license expression (without "LicenseRef")', ' +
 '"UNLICENSED", or ' +
 '"SEE LICENSE IN <filename>"',
]
};

assert.deepEqual(
 valid('LicenseRef-Made-Up'),
 warningAboutLicenseRef
);

assert.deepEqual(
 valid('(MIT OR LicenseRef-Made-Up)'),
 warningAboutLicenseRef
);
```
```

If you can't describe your licensing terms with standardized SPDX identifiers, put the terms in a file in the package and point users there:

```
```javascript
assert.deepEqual(
 valid('SEE
 LICENSE IN LICENSE.txt'),
 {
 validForNewPackages: true,
 validForOldPackages: true,
 inFile: 'LICENSE.txt'
 }
);

assert.deepEqual(
 valid('SEE LICENSE IN license.md'),
 {
 validForNewPackages: true,
 validForOldPackages: true,
 inFile: 'license.md'
 }
);
```
```

```
}  
);  
```
```

If there aren't any licensing terms, use `UNLICENSED`:

```
```javascript  
var unlicensed = {  
  validForNewPackages: true,  
  validForOldPackages: true,  
  unlicensed: true  
};  
assert.deepEqual(valid('UNLICENSED'), unlicensed);  
assert.deepEqual(valid('UNLICENSED'), unlicensed);  
```
```

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C++ Big Integer Library  
(see ChangeLog for version)

<http://mattmccutchen.net/bigint/>

Written and maintained by Matt McCutchen <matt@mattmccutchen.net>

You can use this library in a C++ program to do arithmetic on integers of size limited only by your computer's memory. The library provides `BigUnsigned` and `BigInteger` classes that represent nonnegative integers and signed integers, respectively. Most of the C++ arithmetic operators are overloaded for these classes, so big-integer calculations are as easy as:

```
#include "BigIntegerLibrary.hh"
```

```
BigInteger a = 65536;
cout << (a * a * a * a * a * a * a * a * a * a);
```

(prints 340282366920938463463374607431768211456)

The code in ``sample.cc'` demonstrates the most important features of the library. To get started quickly, read the code and explanations in that file and run it. If you want more detail or a feature not shown in ``sample.cc'`, consult the  
consult the actual header and source files, which are thoroughly commented.

This library emphasizes ease of use and clarity of implementation over speed; some users will prefer GMP (<http://swox.com/gmp/>), which is faster. The code is intended to be reasonably portable across computers and modern C++ compilers; in particular, it uses whatever word size the computer provides (32-bit, 64-bit, or otherwise).

Compiling programs that use the library

-----  
The library consists of a folder full of C++ header files (`.hh`) and source files (`.cc`). Your own programs should `#include` the necessary header files and link with the source files. A makefile that builds the sample program (``sample.cc'`) is included; you can adapt it to replace the sample with your own program.

Alternatively, you can use your own build system or IDE. In that case, you must put the library header files where the compiler will find them and arrange to have your program linked

with the library source files; otherwise, you will get errors about missing header files or "undefined references". To learn how to do this, consult the documentation for the build system or IDE; don't bother asking me. Adding all the library files to your project will work in many IDEs but may not be the most desirable approach.

## Resources

-----

The library's Web site (above) provides links to released versions, the current development version, and a mailing list for release announcements, questions, bug reports, and other discussion of the library. I would be delighted to hear from you if you like this library and/or find a good use for it.

## Bugs and enhancements

-----

The library has been tested by me and others but is by no means bug-free. If you find a bug, please report it, whether it comes in the form of compiling trouble, a mathematically inaccurate result, or a memory-management blooper (since I use Java, these are altogether too common in my C++).

I generally fix all reported bugs. You are also welcome to request enhancements, but I am unlikely to do substantial amounts of work on enhancements at this point.

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-----

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~~~~~

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```
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#define CONTENT_BROWSER_MEDIA_MEDIA_LICENSE_STORAGE_HOST_H_
```

```
#include "base/callback_forward.h"
```

```
#include "base/containers/unique_ptr_adapters.h"
```

```
#include "base/files/file_path.h"
```

```
#include "base/thread_annotations.h"
```

```
#include "base/threading/sequence_bound.h"
```

```
#include "base/types/pass_key.h"
```

```
#include "components/services/storage/public/cpp/buckets/bucket_locator.h"
```

```
#include "components/services/storage/public/mojom/quota_client.mojom.h"
```

```
#include "content/browser/media/media_license_manager.h"
```

```
#include "content/common/content_export.h"
```

```
#include "media/mojom/mojom/cdm_storage.mojom.h"
```

```
#include "mojo/public/cpp/bindings/receiver_set.h"
```

```

#include "mojo/public/cpp/bindings/unique_associated_receiver_set.h"
#include "third_party/blink/public/common/storage_key/storage_key.h"

namespace content {
class
 CdmFileImpl;
class MediaLicenseDatabase;

// Per-storage-key backend for media license (CDM) files. MediaLicenseManager
// owns an instance of this class for each storage key that is actively using
// CDM files. Each instance owns all CdmStorage receivers for the corresponding
// storage key.
class CONTENT_EXPORT MediaLicenseStorageHost : public media::mojom::CdmStorage {
public:
 using BindingContext = MediaLicenseManager::BindingContext;
 using ReadFileCallback =
 base::OnceCallback<void(absl::optional<std::vector<uint8_t>>>>>);
 using WriteFileCallback = base::OnceCallback<void(bool)>;
 using DeleteFileCallback = base::OnceCallback<void(bool)>;

 MediaLicenseStorageHost(MediaLicenseManager* manager,
 const storage::BucketLocator& bucket_locator);
 ~MediaLicenseStorageHost() override;

 // media::mojom::CdmStorage implementation.
 void Open(const std::string& file_name, OpenCallback callback) final;

 void BindReceiver(const BindingContext&
 binding_context,
 mojo::PendingReceiver<media::mojom::CdmStorage> receiver);

 // CDM file operations.
 void ReadFile(const media::CdmType& cdm_type,
 const std::string& file_name,
 ReadFileCallback callback);
 void WriteFile(const media::CdmType& cdm_type,
 const std::string& file_name,
 const std::vector<uint8_t>& data,
 WriteFileCallback callback);
 void DeleteFile(const media::CdmType& cdm_type,
 const std::string& file_name,
 DeleteFileCallback callback);

 void DeleteBucketData(base::OnceCallback<void(bool)> callback);

 void OnFileReceiverDisconnect(const std::string& name,
 const media::CdmType& cdm_type,
 base::PassKey<CdmFileImpl> pass_key);

```

```

// True if there are no receivers connected to this host.
//
// The MediaLicenseManagerImpl that owns this host is expected to destroy
the
// host when it isn't serving any receivers.
bool has_empty_receiver_set() const {
 DCHECK_CALLED_ON_VALID_SEQUENCE(sequence_checker_);
 return receivers_.empty();
}

const blink::StorageKey& storage_key() { return bucket_locator_.storage_key; }

bool in_memory() const {
 DCHECK_CALLED_ON_VALID_SEQUENCE(sequence_checker_);
 return manager_->in_memory();
}

private:
void OnReceiverDisconnect();

void DidOpenFile(const std::string& file_name,
 BindingContext binding_context,
 OpenCallback callback,
 bool success);
void DidWriteFile(WriteFileCallback callback, bool success);

SEQUENCE_CHECKER(sequence_checker_);

// MediaLicenseManager instance which owns this object.
const raw_ptr<MediaLicenseManager> manager_
 GUARDED_BY_CONTEXT(sequence_checker_);

const storage::BucketLocator bucket_locator_;

// All file operations are run through this member.
base::SequenceBound<MediaLicenseDatabase>
db_
 GUARDED_BY_CONTEXT(sequence_checker_);

// All receivers for frames and workers whose storage key is `storage_key`.
mojo::ReceiverSet<media::mojom::CdmStorage, BindingContext> receivers_
 GUARDED_BY_CONTEXT(sequence_checker_);

// Keep track of all media::mojom::CdmFile receivers, as each CdmFileImpl
// object keeps a reference to |this|. If |this| goes away unexpectedly,
// all remaining CdmFile receivers will be closed.
std::map<MediaLicenseManager::CdmFileId, std::unique_ptr<CdmFileImpl>>

```

```

 cdm_files_ GUARDED_BY_CONTEXT(sequence_checker_);

base::WeakPtrFactory<MediaLicenseStorageHost> weak_factory_
 GUARDED_BY_CONTEXT(sequence_checker_){this};
};

} // namespace content

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## 10.0.22621

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/cisco-win-5-1-4-57-acagentless-zip/opswat/WaDiagnose.exe: binary file matches  
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/cisco-win-5-1-4-57-acagentless-zip/opswat/wa\_3rd\_party\_host\_32.exe: binary file matches  
/cisco-win-5-1-4-57-acagentless-zip/opswat/wa\_3rd\_party\_host\_64.exe: binary file matches

Found in path(s):

\* /bin/grep

## 1.27 libaom 3.9.0

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Source: [https://github.com/openvinotoolkit/openvino\\_contrib/tree/master/modules/arm\\_plugin](https://github.com/openvinotoolkit/openvino_contrib/tree/master/modules/arm_plugin)

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Comment: Intel(R) Instrumentation and Tracing Technology (ITT) and Just-In-Time (JIT) API

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Comment: Faster R-CNN and Mask R-CNN in PyTorch 1.0 (<https://github.com/facebookresearch/maskrcnn-benchmark>)

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Files: src/plugins/intel\_gpu/include/intel\_gpu/runtime/\*  
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[This is the first released version of the library GPL. It is  
numbered 2 because it goes with version 2 of the ordinary GPL.]

## Preamble

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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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That's all there is to it!

## 1.33 fmt 11.0.2

### 1.33.1 Available under license :

#### A. HISTORY OF THE SOFTWARE

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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.

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? (1) |
|----------------|--------------|-----------|------------|---------------------|
| 0.9.0 thru 1.2 |              | 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       | yes (2)             |
| 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                 |
| 2.2            | 2.1.1        | 2001      | PSF        | yes                 |
| 2.1.2          | 2.1.1        | 2002      | PSF        | yes                 |
| 2.1.3          |              |           |            |                     |
| 2.1.2          | 2002         | PSF       | yes        |                     |
| 2.2.1          | 2.2          | 2002      | PSF        | yes                 |
| 2.2.2          | 2.2.1        | 2002      | PSF        | yes                 |
| 2.2.3          | 2.2.2        | 2003      | PSF        | yes                 |
| 2.3            | 2.2.2        | 2002-2003 | PSF        | yes                 |
| 2.3.1          | 2.3          | 2002-2003 | PSF        | yes                 |
| 2.3.2          | 2.3.1        | 2002-2003 | PSF        | yes                 |
| 2.3.3          | 2.3.2        | 2002-2003 | PSF        | yes                 |
| 2.3.4          | 2.3.3        | 2004      | PSF        | yes                 |
| 2.3.5          | 2.3.4        | 2005      | PSF        | yes                 |
| 2.4            | 2.3          | 2004      | PSF        | yes                 |
| 2.4.1          | 2.4          | 2005      | PSF        | yes                 |
| 2.4.2          | 2.4.1        | 2005      | PSF        | yes                 |
| 2.4.3          | 2.4.2        | 2006      | PSF        | yes                 |
| 2.4.4          | 2.4.3        | 2006      | PSF        | yes                 |
| 2.5            | 2.4          | 2006      | PSF        | yes                 |
| 2.5.1          | 2.5          | 2007      | PSF        | yes                 |
| 2.5.2          | 2.5.1        | 2008      | PSF        | yes                 |
| 2.5.3          | 2.5.2        | 2008      | PSF        | yes                 |
| 2.6            | 2.5          | 2008      | PSF        | yes                 |
| 2.6.1          | 2.6          | 2008      | PSF        | yes                 |
| 2.6.2          | 2.6.1        | 2009      | PSF        | yes                 |
| 2.6.3          | 2.6.2        | 2009      | PSF        | yes                 |
| 2.6.4          | 2.6.3        | 2009      | PSF        | yes                 |

|       |       |      |     |     |
|-------|-------|------|-----|-----|
| 2.6.5 | 2.6.4 | 2010 | PSF | yes |
| 3.0   | 2.6   | 2008 | PSF | yes |
| 3.0.1 | 3.0   | 2009 | PSF | yes |
| 3.1   | 3.0.1 | 2009 | PSF | yes |
| 3.1.1 | 3.1   | 2009 | PSF | yes |
| 3.1.2 | 3.1.1 | 2010 | PSF | yes |
| 3.1.3 | 3.1.2 | 2010 | PSF | yes |
| 3.1.4 | 3.1.3 | 2011 | PSF | yes |
| 3.2   | 3.1   | 2011 | PSF | yes |
| 3.2.1 | 3.2   | 2011 |     |     |
| PSF   | yes   |      |     |     |
| 3.2.2 | 3.2.1 | 2011 | PSF | yes |
| 3.2.3 | 3.2.2 | 2012 | PSF | yes |
| 3.3.0 | 3.2   | 2012 | PSF | yes |

Footnotes:

(1) GPL-compatible doesn't mean that we're distributing Python under the GPL. All Python licenses, unlike the GPL, let you distribute a modified version without making your changes open source. The GPL-compatible licenses make it possible to combine Python with other software that is released under the GPL; the others don't.

(2) According to Richard Stallman, 1.6.1 is not GPL-compatible, because its license has a choice of law clause. According to CNRI, however, Stallman's lawyer has told CNRI's lawyer that 1.6.1 is "not incompatible" with the GPL.

Thanks to the many outside volunteers who have worked under Guido's direction to make these releases possible.

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## 1.34 nghttp2 1.64.0

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- mrbgems/mruby-dir/src/Win/dirent.c: MIT-like license by Kevlin Henney

[src/readfloat.c]

strtod implementation.  
author: Yasuhiro Matsumoto (@mattn)  
license: public domain

The original code can be found in <https://github.com/mattn/strtod>

[src/fmt\_fp.c]

The code in this function was inspired from Fred Bayer's pdouble.c.  
Since pdouble.c was released as Public Domain, I'm releasing this  
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Dave Hylands

The original code can be found in <https://github.com/dhylands/format-float>

[mrbgems/mruby-dir/src/Win/dirent.c] used only for Windows platform

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But that said, if there are any problems please get in touch.

```
set yrange [0:]
set terminal pngcairo font 'Sans, 8' lw 1 size 1400,1024
set xtics rotate by -45
set style histogram errorbars gap 2 lw 1
set style fill solid border -1
```

mruby-set

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## 1.35 visual-studio-runtime 14.42.34433

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Comment: oneAPI Deep Neural Network Library (oneDNN)

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Comment: Faster R-CNN and Mask R-CNN in PyTorch 1.0 (<https://github.com/facebookresearch/maskrcnn-benchmark>)

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Comment: Caffe (<https://github.com/BVLC/caffe/>)

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CFiles: \*

Comment: Xbyak\_aarch64 (src/cpu/aarch64/xbyak\_aarch64/)

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Files: src/plugins/intel\_gpu/include/intel\_gpu/runtime/\*

Comment:

Boost C++ Libraries (src/common/primitive\_hashing.hpp)

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Driver (src/gpu/jit/ngen/npack/{elf\_structs,hash}.hpp)

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Comment: Intel(R) Graphics Compiler (src/gpu/jit/ngen/npack/neo\_structs.hpp)

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Comment: Portable Hardware Locality (hwloc):

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Files: \*

Comment: rogersce/cnpy (<https://github.com/rogersce/cnpy/>)

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Comment: FlatBuffers

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## 1.41 stb-image 2.30

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## 1.42 geos 2.2.1

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