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## **1.1 boost 1.65**

### **1.1.1 Available under license :**

```
#!/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 <cstddef>

namespace boost {
namespace intrusive {
namespace detail {

using boost::move_detail::is_same;
using boost::move_detail::add_const;
using boost::move_detail::remove_const;
using boost::move_detail::remove_cv;
using
    boost::move_detail::remove_reference;
using boost::move_detail::add_reference;
using boost::move_detail::remove_pointer;
using boost::move_detail::add_pointer;
using boost::move_detail::true_type;
using boost::move_detail::false_type;
using boost::move_detail::enable_if_c;
```

```

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

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

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

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

// Infrastructure for providing a default type for T::TNAME if absent.
#define BOOST_INTRUSIVE_INSTANTIATE_DEFAULT_TYPE_TMPLT(TNAME) \
    template <typename T, typename DefaultType> \
    struct boost_intrusive_default_type_ ## TNAME \

```

```

{
    template <typename X>
    static char test(int, typename X::TNAME*);

    template <typename X>
    static int test(...);

    struct DefaultWrap { typedef DefaultType TNAME; };

    static const bool value = (1 == sizeof(test<T>(0, 0)));

    typedef typename
        ::boost::intrusive::detail::if_c
        <value, T, DefaultWrap>::type::TNAME type;
};
//

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

#define BOOST_INTRUSIVE_INSTANTIATE_EVAL_DEFAULT_TYPE_TMPLT(TNAME)\
template <typename T, typename DefaultType>
struct boost_intrusive_eval_default_type_ ## TNAME
{
    template <typename X>
    static char test(int, typename X::TNAME*);

    template <typename X>
    static int test(...);

    struct DefaultWrap
    { typedef typename DefaultType::type TNAME; };

    static const bool value
= (1 == sizeof(test<T>(0, 0)));

    typedef typename
        ::boost::intrusive::detail::eval_if_c
        < value
        , ::boost::intrusive::detail::identity<T>
        , ::boost::intrusive::detail::identity<DefaultWrap>
        >::type::TNAME type;
};

```

```

//

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

#define BOOST_INTRUSIVE_INTERNAL_STATIC_BOOL_IS_TRUE(TRAIT_PREFIX,
TYPEDEF_TO_FIND) \
template <class T>\
struct TRAIT_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 TRAIT_PREFIX##_bool_is_true\
{\
    static const bool value = TRAIT_PREFIX##_bool<T>::value > sizeof(yes_type)*2;\
};\
//

#define BOOST_INTRUSIVE_HAS_STATIC_MEMBER_FUNC_SIGNATURE(TRAIT_NAME,
FUNC_NAME) \
template <typename U, typename Signature> \
class TRAIT_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(TRAIT_NAME,
FUNC_NAME) \
template <typename Type> \
struct TRAIT_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>
  The following is the overall license for the boost date_time
  library. This notice is found in all source files related to the
  library.
</para>
<para>
  Copyright &#169; 2002 CrystalClear Software, Inc.
</para>
<para>
  Permission to use, copy, modify, distribute and sell this software
  and its documentation for any purpose is hereby granted without
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  that the above copyright notice appear in all copies
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  purpose. It is provided "as is" without express or implied
  warranty.
</para>
<!--hr / -->
<ulink url="mailto:jeff@crystalclearsoftware.com">Jeff Garland</ulink>
&#169; 2000-2002
</section>
```

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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(agg@uts.amdahl.com) supplied the NetBSD and 386BSD ports.

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

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

Ari Huttunen (Ari.Huttunen@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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=====  
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```
// Boost.Geometry (aka GGL, Generic Geometry Library)
```

```
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```

```
// Copyright (c) 2008-2011 Bruno Lalande, Paris, France.
```

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

```
// Parts of Boost.Geometry are redesigned from Geodan's Geographic Library
```

```
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[article Invalid copyright years

[quickbook 1.5]

[copyright 2010-2001 Timequake man]

]

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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](http://www.boost.org/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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```

```

]
<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_typetraits.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>
    Distributed under the Boost Software License, Version 1.0. (See accompanying
    file LICENSE_1_0.txt or copy at <a href="http://www.boost.org/LICENSE_1_0.txt"
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="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>
</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 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 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 <cstring>
#include <stdexcept>
#include <boost/lexical_cast.hpp>
#include <boost/filesystem/operations.hpp>
#include <boost/throw_exception.hpp>

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

```

```

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

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

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

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

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

    std::ofstream os(m_dest_path.string().c_str());
    if(!os)
    {
        std::string msg("Error opening ");
        msg += m_dest_path.string();
        msg += " for output.";
        std::runtime_error e(msg);
        boost::throw_exception(e);
    }
    os <<
        "<!DOCTYPE HTML PUBLIC \"-//W3C//DTD HTML 4.0 Transitional//EN\">\n"
        "<html>\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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=====]

# 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](mailto: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](mailto: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](mailto: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:

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# 1.3 lame 3.100

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3. If you make modifications to LAME, you *must* release these modifications back to the LAME project, under the LGPL.

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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-----  
-----

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[This is the first released version of the library GPL. It is  
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<one line to give the library's name and a brief idea of what it does.>

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<signature of Ty Coon>, 1 April 1990

Ty Coon, President of Vice

That's all there is to it!

```
<!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" 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="highlight">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 developers' 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 <a href="http://lame.cvs.sourceforge.net/\*checkout\*/lame/lame/doc/html/history.html">History</a> for more complete details.

</p>

<table

class="devlist">

<tbody>

<tr>

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

</tr>

<tr>

<td><a href="http://sourceforge.net/users/robert/">Robert Hegemann</a></td>

<td>Tuning, optimizations, psychoacoustics...</td>

</tr>

<tr>

<td><a href="http://sourceforge.net/users/aleidinger">Alexander Leiding</a></td>

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

</tr>

<tr>

<td><a href="http://www.ime.usp.br/~rbrito/">Rog&eacute;rio Brito</a></td>

<td>Debian packaging, debugging.</td>

</tr>

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

<tr>

<td width="30%"><a href="http://www.mp3-tech.org">Gabriel Bouvigne</a></td>

<td>Tuning, optimizations, psychoacoustics...</td>

</tr>

<tr>

<td><a href="http://sourceforge.net/users/mikecheng/">Mike Cheng</a></td>

<td>Maintainer of LAME v2.x.</td>

</tr>

<tr>

<td><a href="http://sourceforge.net/users/pfk">Frank Klemm</a></td>

<td>Psychoacoustics, optimizations.</td>

</tr>

<tr>

<td><a

href="http://sourceforge.net/users/shibatch">Naoki Shibata</a></td>

<td>Psychoacoustics (NSPsytone model, NSSafeJoint).</td>

</tr>

<tr>

<td><a href="http://sourceforge.net/users/markt">Mark Taylor</a></td>

<td>Maintainer of LAME v3.x, initial implementer of GPsycho psychoacoustic model.</td>

</tr>

<tr>

<td><a href="http://www.initialt.org">Takehiro Tominaga</a></td>

<td>Psychoacoustics, bitstream, optimizations, assembly code...</td>

</tr>

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

<tr>

<td><a href="http://www.rjamorim.com">Roberto Amorim</a></td>

<td>Web pages and documentation.</td>

</tr>

<tr>

<td><a href="http://sourceforge.net/users/jd-">John Dahlstrom</a></td>

<td>Adaptive ATH.</td>

</tr>

<tr>

<td><a href="http://sourceforge.net/users/potsticker">John Dee</a></td>

<td>LAME extended VBR header.</td>

</tr>

<tr>

<td><a href="http://sourceforge.net/users/domd/">Dominique Duvivier</a></td>

<td>Speed optimizations.</td>

</tr>

<tr>

<td><a href="http://sourceforge.net/users/afaber">Albert Faber</a></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>

```

<p>HTML markup and design by <a href="http://www.rjamorim.com" target="\_blank">Roberto Amorim</a> and <a href="http://www.maresweb.de" target="\_blank">Sebastian Mares</a>. Logo by <a href="http://www.brightercreative.co.uk">Sam Fisher</a>.</p>

</div>

</div>

</body>

</html>

## 1.4 tidy 5.7.24

### 1.4.1 Available under license :

# HTML Tidy

## HTML parser and pretty printer

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@geoffmcl, HTACG, and others.

### Contributing Author(s):

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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Jeff Dean <jeff@google.com>

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Craig Silverstein

Paul Haahr <haahr@google.com>

Corey Anderson <corin@google.com>

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Maven packaging:

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Patch contributors:

Kevin Ko <kevin.s.ko@gmail.com>

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

Johan Euphrosine <proppy@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 Choinire <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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\* 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  
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\* 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  
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\* case conversion tables.  
\*  
\*/

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## 1.13 tiny-xml 2.5.3

### 1.13.1 Available under license :

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

```
/** @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
&amp; &
&lt; <
&gt; >
&quot; "
&apos; '
@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 &amp; 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.

### Windows project file for VC6

<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>

### Makefile

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.

### To Use in an Application:

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.

## How TinyXML works.

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 <b>Toy store!</b></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.

```
<h2> License </h2>
```

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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

Lee Thomason, Yves Berquin, Andrew Ellerton  
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Tokenizing SafeStrings and converting to numbers

Examples of how to use the nextToken() and toLong() and toDouble() to parse a CSV line

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Appending to SafeStrings using print()/println()

Examples of how to use the standard print()/println() to append and format different data types to SafeStrings

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SafeString removeFrom(), removeBefore(), remove(), removeLast(), keepLast()

Examples of SafeString remove

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SafeString constructors and assignments

Examples of how to create SafeStrings and how to assign SafeStrings from other data types

also see the SafeStringFromArray, SafeStringFromCharPtr and SafeStringFromCharPtrWithSize examples

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Examples of SafeString replace for chars and strings

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Example of how to use the non-blocking readUntil() method to parse a CSV line

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SafeStringReader\_GPS.ino

This example reads GPS data from a SafeStringStream continuously using a SafeStringReader

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Examples of how to prefix different data types to SafeStrings

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Example of using SafeString for Class char[]s

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SafeString from char\* with specified size constructor  
Examples of how to create SafeStrings from an existing pointer to a char[]  
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SafeString Case changes  
Examples of how to change the case of a SafeString

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OBD\_Processor.ino for SafeString V4.0.0+

Example of using SafeString to process Car OnBoardData

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SafeString from char\* constructor

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SafeString substring()

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Example of using SafeString for working with char[][xx]

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SafeStringReader\_flushInput.ino

This example flushes any initial input and also starts flushing if "flush" is found in the text stream

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SafeString charAt() and setCharAt()

Examples of how to get and set characters of a SafeString

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Comparing SafeStrings  
Examples of how to compare SafeStrings using the comparison operators

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SafeString to Number conversion  
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\* /safestring-4-1-24-zip/SafeString-4.1.24/examples/SafeStringStream\_Tests/sfStream/sfStream.ino  
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/\*  
SafeString startsWith(), startsWithIgnoreCase(), endsWithCharFrom() and endsWith()

by Matthew Ford  
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[www.forward.com.au/pfod/ArduinoProgramming/SafeString/index.html](http://www.forward.com.au/pfod/ArduinoProgramming/SafeString/index.html)

\*/

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\* /safestring-4-1-24-zip/SafeString-

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**Blink**

Turns an led on for one second, then off for one second, repeatedly.

Most Arduinos have an on-board led you can control. On the UNO, MEGA and ZERO it is attached to digital pin 13, on MKR1000 on pin 6. led is set to the correct led pin independent of which board is used.

If you want to know what pin the on-board led is connected to on your Arduino model, check the Technical Specs of your board at:

<https://www.arduino.cc/en/Main/Products>

modified 8 May 2014

by Scott Fitzgerald

modified 2 Sep 2016

by Arturo Guadalupi

modified 8 Sep 2016

by Colby Newman

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Appending to SafeStrings using the += operator and concat()

Examples of how to append different data types to SafeStrings

Also has examples of using hasError() method

by Matthew Ford

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Modified from String Examples by Tom Igoe

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\*/

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\* /safestring-4-1-24-zip/SafeString-4.1.24/examples/SafeString\_Tests/SafeStringAssignmentAndConcatOperator/SafeStringAssignmentAndConcatOperator.ino

# 1.15 sqlite 3.40.0

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## 1.16 free-type 63.2

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#
# All lines in this file are patterns (relative to the top-level directory),
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# files that have this string in the file name (including the path relative
# to the current directory, always starting with `./').
#
# Don't put empty lines into this file!
#
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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2006-Jan-27

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## 1.24 zlib 1.3.1

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jloup@gzip.org      madler@alumni.caltech.edu  
/\* zlib.h -- interface of the 'zlib' general purpose compression library  
version 1.3.1, January 22nd, 2024

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The data format used by the zlib library is described by RFCs (Request for Comments) 1950 to 1952 in the files <http://tools.ietf.org/html/rfc1950> (zlib format), rfc1951 (deflate format) and rfc1952 (gzip format).

\*/

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/\* zlib.c -- zlib functions common to reading and writing gzip files

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# 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, @vkarпов15)
- \* 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, @mlucool)
- \* 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, @panuhorsmalhti)

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
- \* npmingnore: 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 .jshint 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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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":[-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":[-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":[[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":[-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 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":[221.339,278.914],"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 25","np":4,"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],[-0.626,-3.262],[0,0],[-0.633,-7.382],[0,0],[-0.077,-0.286],[0,0],[0.464,8.984],[0.069,0.973],[1.133,0],[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],[0.427,5.265],[0,0],[0.297,-2.232],[-0.463,-8.985],[-0.522,-0.171],[-0.011,-

4.979],[8.494,0.744],[-0.329,4.979]],"v":[[7.857,-15.652],[0.322,-15.652],[0.555,2.146],[7.363,1.46],[7.988,7.926],[1.126,7.811],[1.686,15.766],[8.294,15.479],[9.008,22.404],[-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":[199.968,279.686],"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 26","np":2,"mn":"ADBE Vector Group"},{"ty":"gr","it":{"ind":0,"ty":"sh","ks":{"k":{"i":[1.076,0],[3.796,0],[0.665,9.442],[0.489,3.72],[0.72,-0.229],[-0.457,2.346],[-3.14,0.458],[-0.218,-3.09],[-0.359,-4.292],[-2.602,0.859],[-0.093,-1.316],[-0.105,-0.687]},"o":[-3.735,0.057],[-0.33,-9.5],[-0.262,-3.72],[-0.793,0],[0.126,-1.43],[3.286,0],[-0.969,3.948],[0.302,4.292],[2.76,-0.229],[-0.122,1.488],[0.085,1.202],[-0.736,0]},"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],[0.974,16.538],[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":[181.228,279.429],"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 27","np":2,"mn":"ADBE Vector Group"},{"ty":"gr","it":{"ind":0,"ty":"sh","ks":{"k":{"i":[3.853,0],[-0.239,-3.376],[-0.246,-2.689],[0.157,2.232]},"o":[[0.073,3.434],[0.189,2.69],[3.848,0.744],[-0.218,-3.09]]},"v":[[-0.978,-15.766],[-0.708,-5.522],[-0.027,2.547],[3.679,-9.184]]},"c":true}},{"nm":"Path 1","mn":"ADBE Vector Shape - Group"},{"ind":1,"ty":"sh","ks":{"k":{"i":[8.938,-0.172],[-0.182,-2.575],[-0.569,-2.461],[2.133,-0.286],[0.479,6.809],[0.711,6.067],[0.898,-0.114],[-0.317,2.747],[-1.996,-0.171],[-0.375,-5.322]},"o":[[0.124,2.575],[0.177,2.518],[-2.148,0.057],[-0.027,-6.81],[-0.427,-6.066],[-0.902,0.058],[0.061,-0.744],[2.035,-0.057],[6.377,0.457],[0.496,7.038]]},"v":[[0.417,7.24],[0.852,15.022],[1.731,22.691],[-4.755,23.091],[-5.348,2.605],[-7.198,-15.594],[-9.957,-15.365],[-9.534,-23.033],[0.979,-22.576],[9.461,-9.928]]},"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":[160.163,279.343],"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 28","np":4,"mn":"ADBE Vector Group"},{"ip":0,"op":300,"st":0,"bm":0,"sr":1},{"ddd":0,"ind":3,"ty":1,"nm":"White Solid 1","ks":{"o":{"k":100},"r":{"k":0},"p":{"k":[200,200,0]},"a":{"k":[200,200,0]},"s":{"k":[100,100,100]},"ao":0,"sw":400,"sh":400,"sc":"#ffffff","ip":0,"op":300,"st":0,"bm":0,"sr":1}},{id:"comp\_19","layers":{"ddd":0,"ind":0,"ty":4,"nm":"Shape Layer 3","ks":{"o":{"k":100},"r":{"k":-12},"p":{"k":[49,75,0]},"a":{"k":[-70.5,406.336,0]},"s":{"k":{"i":{"x":[0.833,0.833,0.833],"y":[0.833,0.833,0.833]},"o":{"x":[0.167,0.167,0.167],"y":[0.167,0.167,0.167]},"n":["0p833\_0p833\_0p167\_0p167","0p833\_0p833\_0p167\_0p167","0p833\_0p833\_0p167\_0p167"],"t":0,"s":[93,124,100],"e":[93,114,100]},"i":{"x":[0.833,0.833,0.833],"y":[0.833,0.833,0.833]},"o":{"x":[0.167,0.167,0.167],"y":[0.167,0.167,0.167]},"n":["0p833\_0p833\_0p167\_0p167","0p833\_0p833\_0p167\_0p167","0p833\_0p833\_0p167\_0p167"],"t":8,"s":[93,114,100],"e":[93,124,100]},"i":{"x":[0.833,0.833,0.833],"y":[0.833,0.833,0.833]},"o":{"x":[0.167,0.167,0.167],"y":[0.167,0.167,0.167]},"n":["0p833\_0p833\_0p167\_0p167","0p833\_0p833\_0p167\_0p167"],"t":15,"s":[93,124,100],"e":[93,114,100]},"i":{"x":[0.833,0.833,0.833],







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(i) in the event Licensee is an individual residing in the United States or a legal entity incorporated in the United States or having its headquarters in the United States, The Qt Company Inc., a Delaware corporation with its office at 3031 Tisch Way, 110 Plaza West, San Jose, CA 95128, USA.; or

(ii) in the event the Licensee is an individual residing outside of the United States or a legal entity incorporated outside of the United States or having its registered office outside of the United States, The Qt Company Ltd., a Finnish company with its registered office at Miestentie 7, 02150 Espoo, Finland.

"Third-Party Software" shall have the meaning set forth in Section 4.

"Updates" shall mean a release or version of the Licensed Software containing bug fixes, error corrections and other changes that are generally made available to users of the Licensed Software that have contracted for Support. Updates are generally depicted as a change to the digits following the decimal in the Licensed Software version number. The Qt Company shall make Updates available to the Licensee under the Support. Updates shall be considered as part of the Licensed Software hereunder.

"Upgrades" shall mean a release or version of the Licensed Software containing enhancements and new features and are generally depicted as a change to the first digit of the Licensed Software version number. In the event Upgrades are provided to the Licensee under this Agreement, they shall be considered as part of the Licensed Software hereunder.

## 2. OWNERSHIP

### 2.1. Ownership of The Qt Company

The Licensed Software is protected by copyright laws and international copyright treaties, as well as other intellectual property laws and treaties. The Licensed Software is licensed, not sold.

All of The Qt Company's Intellectual Property Rights are and shall remain the exclusive property of The Qt Company or its licensors respectively. No rights to The Qt Company's Intellectual Property Rights are assigned or granted to Licensee under this Agreement, except when and to the extent expressly

specified herein.

## 2.2. Ownership of Licensee

All the Licensee's Intellectual Property Rights are and shall remain the exclusive property of the Licensee or its licensors respectively.

All Intellectual Property Rights to the Modified Software, Applications and Devices shall remain with the Licensee and no rights thereto shall be granted by the Licensee to The Qt Company under this Agreement (except as set forth in Section 2.3 below).

## 2.3. Modified Software

Licensee may create bug-fixes, error corrections, patches or modifications to the Licensed Software ("Modified Software"). Such Modified Software may break the source or binary compatibility with the Licensed Software (including without limitation through changing the application programming interfaces ("API") or by adding, changing or deleting any variable, method, or class signature in the Licensed Software and/or any inter-process protocols, services or standards in the Licensed Software libraries). To the extent that Licensee's Modified Software so breaks source or binary compatibility with the Licensed Software, Licensee acknowledges that The Qt Company's ability to provide Support may be prevented or limited and Licensee's ability to make use of Updates may be restricted.

Licensee

may, at its sole and absolute discretion, choose to submit Modified Software to The Qt Company ("Submitted Modified Software") in connection with Licensee's Support request, service request or otherwise. In the event Licensee does so, then, Licensee hereby grants The Qt Company a sublicensable, assignable, irrevocable, perpetual, worldwide, non-exclusive, royalty-free and fully paid-up license, under all of Licensee's Intellectual Property Rights, to reproduce, adapt, translate, modify, and prepare derivative works of, publicly display, publicly perform, sublicense, make available and distribute such Submitted Modified Software as The Qt Company sees fit at its free and absolute discretion.

## 3. LICENSES GRANTED

### 3.1. Development with Licensed Software

Subject to the terms of this Agreement, The Qt Company grants to Licensee a worldwide, non-exclusive, non-transferable license, valid for each Development License Term, to use, modify and copy the Licensed Software by

Designated

Users on the Development Platforms for the sole purposes of designing,

developing, demonstrating and testing Application(s) and/or Devices, and to provide thereto related support and other related services to Customers. Each Application and/or Device can only include, incorporate or integrate contributions by such Designated Users who are duly licensed for the applicable Development Platform(s) and Deployment Platform(s) (i.e have a valid license for the appropriate Licensed Software product).

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 at any time designate another Designated User to replace a then-current Designated User by notifying The Qt Company in writing, where such replacement is due to termination of employment, change of job duties, long time absence or other such permanent reason affecting Designated User's need for Licensed Software.

Upon expiry of the initially agreed Development License Term, the respective Development License Term shall be automatically extended to one or more Renewal Term(s), unless and until either Party notifies the other Party in writing, or any other method acceptable to The Qt Company (it being specifically acknowledged and understood that verbal notification is explicitly deemed inadequate in all circumstances), that it does not wish to continue the Development License Term, such notification to be provided to the other Party no less than thirty (30) days before expiry of the respective Development License Term. The Qt Company shall, in good time before the due date for the above notification, remind the Licensee on the coming Renewal Term. Unless otherwise agreed between the Parties, Renewal Term shall be 12 months.

Any such Renewal Term shall be subject to License Fees agreed between the Parties or, if no advance agreement exists, subject to The Qt Company's standard list pricing applicable at the commencement date of any such Renewal Term.

The Qt Company may either request the Licensee to place a purchase order corresponding to a quote by The Qt Company, or use Licensee's stored Credit Card information in the Qt Account to automatically charge the Licensee for the relevant Renewal Term.

### 3.2. Distribution of Applications

Subject to the terms of this Agreement, The Qt Company grants to Licensee a worldwide, non-exclusive, non-transferable, revocable (for cause pursuant to this Agreement), right and license, valid for the Agreement Term, to

- (i) distribute, by itself or through its Contractors, Redistributables as installed, incorporated or integrated into Applications for execution

on the Deployment Platforms, and  
(ii) grant perpetual and irrevocable sublicenses to Redistributables, as distributed hereunder, for Customers solely to the extent necessary in order for the Customers to use the Applications for their respective intended purposes.

Right to distribute the Redistributables as part of an Application as provided herein is not royalty-bearing but is conditional upon the Application having been created, updated and maintained under a valid and duly paid Development Licenses.

### 3.3. Distribution of Devices

Subject to the terms of this Agreement, The Qt Company grants to Licensee a worldwide, non-exclusive, non-transferable, revocable (for cause pursuant to this Agreement), right and license, valid for the Agreement Term, to

- (i) distribute, by itself or through one or more tiers of Contractors, Redistributables as installed, incorporated or integrated, or intended to be installed, incorporated or integrated into Devices for execution on the Deployment Platforms, and
- (ii) grant perpetual and irrevocable sublicenses to Redistributables, as distributed hereunder, for Customers solely to the extent necessary in

order for the Customers to use the Devices for their respective intended purposes.

Right to distribute the Devices as provided herein is conditional upon

- (i) the Devices having been created, updated and maintained under a valid and duly paid Development Licenses, and
- (ii) the Licensee having acquired corresponding Distribution Licenses at the time of distribution of any Devices to Customers.

### 3.4. Further Requirements

The licenses granted above in this Section 3 by The Qt Company to Licensee are conditional and subject to Licensee's compliance with the following terms:

- (i) Licensee acknowledges that The Qt Company has separate products of Licensed Software for the purpose of Applications and Devices respectively, where development and distribution of Devices is only allowed using the correct designated product. Licensee shall make sure and bear the burden of proof that Licensee is using a correct product

of Licensed Software entitling Licensee to development and distribution of Devices;

- (ii) Licensee shall not remove or alter any copyright, trademark or other proprietary rights notice(s) contained in any portion of the Licensed Software;

- (iii) Applications must add primary and substantial functionality to the Licensed Software so as not to compete with the Licensed Software;
- (iv) Applications may not pass on functionality which in any way makes it possible for others to create software with the Licensed Software; provided however that Licensee may use the Licensed Software's scripting and QML ("Qt Quick") functionality solely in order to enable scripting, themes and styles that augment the functionality and appearance of the Application(s) without adding primary and substantial functionality to the Application(s);
- (v) Licensee shall not use Licensed Software in any manner or for any

purpose that infringes, misappropriates or otherwise violates any Intellectual property or right of any third party, or that violates any applicable law;

- (vi) Licensee shall not use The Qt Company's or any of its suppliers' names, logos, or trademarks to market Applications, except that Licensee may use "Built with Qt" logo to indicate that Application(s) or Device(s) was developed using the Licensed Software;
- (vii) Licensee shall not distribute, sublicense or disclose source code of Licensed Software to any third party (provided however that Licensee may appoint employee(s) of Contractors and Affiliates as Designated Users to use Licensed Software pursuant to this Agreement). Such right may be available for the Licensee subject to a separate software development kit ("SDK") license agreement to be concluded with The Qt Company;
- (viii) Licensee shall not grant the Customers a right to (a)

make copies of

the Redistributables except when and to the extent required to use the Applications and/or Devices for their intended purpose, (b) modify the Redistributables or create derivative works thereof, (c) decompile, disassemble or otherwise reverse engineer Redistributables, or (d) redistribute any copy or portion of the Redistributables to any third party, except as part of the onward sale of the Application or Device on which the Redistributables are installed;

- (ix) Licensee shall not and shall cause that its Affiliates or Contractors shall not use Licensed Software in any Prohibited Combination, unless Licensee has received an advance written permission from The Qt Company to do so. Absent such written permission, any and all distribution by the Licensee during the Agreement Term of a hardware device or product a) which incorporate or integrate any part of Licensed Software

or Open

Source Qt; or b) where substantial functionality is provided by software built with Licensed Software or Open Source Qt or otherwise depends on the Licensed Software or Open Source Qt, shall be considered to be Device distribution under this Agreement and shall be dependent on Licensee's compliance thereof (including but not limited to obligation to pay applicable License Fees for such distribution). Notwithstanding what is provided above in this sub-section (ix),

Licensee is entitled to use and combine Licensed Software with any Permitted Software;

- (x) Licensee shall cause all of its Affiliates, Contractors and Customers entitled to 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 and for any purposes other than operating within the scope of their services for Licensee. Licensee shall be responsible for any and all actions and omissions of its Affiliates and Contractors relating to the Licensed Software and use thereof (including but not limited to payment of all applicable License Fees);
- (xi) Except when and to the extent explicitly provided in this Section 3, Licensee shall not transfer, publish, disclose, display or otherwise make available the Licensed Software; and
- (xii) Licensee shall not attempt or enlist a third party to conduct or attempt to conduct any of the above.

Above terms shall not be applicable if and to the extent they conflict with any mandatory provisions of any applicable laws.

Any use of Licensed Software beyond the provisions of this Agreement is strictly prohibited and requires an additional license from The Qt Company.

### 3.5 QA Tools License

Subject to the terms of this Agreement, The Qt Company grants to Licensee a worldwide, non-exclusive, non-transferable license, valid for the Development License Term, to use the QA Tools for Licensee's internal business purposes in the manner provided below and in Appendix 1 hereto.

Licensee may modify the QA Tools except for altering or removing any details of ownership, copyright, trademark or other property right connected with the QA Tools.

Licensee shall not distribute the QA Tools or any part thereof, modified or unmodified, separately or as part of any software package, Application or Device.

Upon expiry of the initially agreed Development License Term, the respective Development License Term shall be automatically extended to one or more Renewal Term(s), unless and until either Party notifies the other Party in writing, or any other method acceptable to The Qt Company (it being specifically acknowledged and understood that verbal notification is explicitly deemed inadequate in all circumstances), that it does not wish to continue the Development License

Term, such notification to be provided to the other Party no less than thirty (30) days before expiry of the respective Development License Term. The Qt Company shall, in good time before the due date for the above notification, remind the Licensee on the coming Renewal Term. Unless otherwise agreed between the Parties, Renewal Term shall be 12 months.

Any such Renewal Term shall be subject to License Fees agreed between the Parties or, if no advance agreement exists, subject to The Qt Company's standard list pricing applicable at the commencement date of any such Renewal Term.

### 3.6 Evaluation License

Subject to the terms of this Agreement, The Qt Company grants to Licensee a worldwide, non-exclusive, non-transferable license, valid for the Evaluation License Term to use the Licensed Software solely for the Licensee's internal use to evaluate and determine whether the Licensed Software meets Licensee's business requirements, specifically excluding any commercial use of the Licensed Software or any derived work thereof.

Upon the expiry of the Evaluation License Term, Licensee must either discontinue use of the relevant Licensed Software or acquire a commercial Development License or QA Tools License specified herein.

## 4. THIRD-PARTY SOFTWARE

The Licensed Software may provide links or access to third party libraries or code (collectively "Third-Party Software") to implement various functions. Third-Party Software does not, however, comprise part of the Licensed Software, but is provided to Licensee complimentary and use thereof is discretionary for the Licensee. Third-Party Software will be listed in the ".../src/3rdparty" source tree delivered with the Licensed Software or documented in the Licensed Software, as such may be amended from time to time. Licensee acknowledges that use or distribution of Third-Party Software is in all respects subject to applicable license terms of applicable third-party right holders.

## 5. PRE-RELEASE CODE

The Licensed Software may contain pre-release code and functionality, or sample code marked or otherwise stated with appropriate designation such as "Technology Preview", "Alpha", "Beta", "Sample", "Example" etc. ("Pre-Release Code").

Such Pre-Release Code may be present complimentary for the Licensee, in order to provide experimental support or information for new platforms or preliminary versions of one or more new functionalities or for other similar

reasons. The Pre-Release Code may not be at the level of performance and compatibility of a final, generally available, product offering. The Pre-Release Code may not operate correctly, may contain errors and may be substantially modified by The Qt Company prior to the first commercial product release, if any. The Qt Company is under no obligation to make Pre-Release Code commercially available, or provide any Support or Updates relating thereto. The Qt Company assumes no liability whatsoever regarding any Pre-Release Code, but any use thereof is exclusively at Licensee's own risk and expense.

For clarity, unless Licensed Software specifies different license terms for the respective Pre-Release Code, the Licensee is entitled to use such pre-release code pursuant to Section 3, just like other Licensed Software.

## 6. LIMITED WARRANTY AND WARRANTY DISCLAIMER

The Qt Company hereby represents and warrants that (i) it has the power and authority to grant the rights and licenses granted to Licensee under this Agreement, and (ii) Licensed Software will operate materially in accordance with its specifications.

Except as set forth above, the Licensed Software is licensed to Licensee "as is" and Licensee's exclusive remedy and The Qt Company's entire liability for errors in the Licensed Software shall be limited, at The Qt Company's option, to correction of the error, replacement of the Licensed Software or return of the applicable fees paid for the defective Licensed Software for the time period during which the License is not able to utilize the Licensed Software under the terms of this Agreement.

TO THE MAXIMUM EXTENT PERMITTED BY APPLICABLE LAW, THE QT COMPANY ON BEHALF OF ITSELF AND ITS LICENSORS, SUPPLIERS AND AFFILIATES, DISCLAIMS ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, TITLE AND NON-INFRINGEMENT WITH REGARD TO THE LICENSED SOFTWARE. THE QT COMPANY DOES NOT WARRANT THAT THE LICENSED SOFTWARE WILL SATISFY LICENSEE'S REQUIREMENTS OR THAT IT WILL OPERATE WITHOUT DEFECT OR ERROR OR THAT THE OPERATION THEREOF WILL BE UNINTERRUPTED.

## 7. LIMITATION OF LIABILITY

EXCEPT FOR (I) CASES OF GROSS NEGLIGENCE OR INTENTIONAL MISCONDUCT, AND (II) BREACH OF CONFIDENTIALITY, AND TO THE EXTENT PERMITTED BY APPLICABLE LAW, IN NO EVENT SHALL EITHER PARTY BE LIABLE TO THE OTHER PARTY FOR ANY LOSS OF PROFIT, LOSS OF DATA, LOSS OF BUSINESS OR GOODWILL OR ANY OTHER INDIRECT, SPECIAL, CONSEQUENTIAL, INCIDENTAL OR PUNITIVE COST, DAMAGES

OR EXPENSE OF ANY KIND,  
HOWSOEVER ARISING UNDER OR IN CONNECTION WITH THIS AGREEMENT.

EXCEPT FOR (I) CASES OF GROSS NEGLIGENCE OR INTENTIONAL MISCONDUCT, AND (II) BREACH OF CONFIDENTIALITY, AND TO THE EXTENT PERMITTED BY APPLICABLE LAW, IN NO EVENT SHALL EITHER PARTY'S TOTAL AGGREGATE LIABILITY UNDER THIS AGREEMENT EXCEED THE AGGREGATE LICENSE FEES PAID OR PAYABLE TO THE QT COMPANY BY LICENSEE DURING THE DEVELOPMENT LICENSE TERM DURING WHICH THE EVENT RESULTING IN SUCH LIABILITY OCCURRED.

THE PROVISIONS OF THIS SECTION 7 ALLOCATE THE RISKS UNDER THIS AGREEMENT BETWEEN THE QT COMPANY AND LICENSEE AND THE PARTIES HAVE RELIED UPON THE LIMITATIONS SET FORTH HEREIN IN DETERMINING WHETHER TO ENTER INTO THIS AGREEMENT.

NOTWITHSTANDING ANYTHING TO THE CONTRARY IN THIS AGREEMENT, LICENSEE SHALL ALWAYS BE LIABLE TO PAY THE APPLICABLE LICENSE FEES CORRESPONDING TO ITS ACTUAL USE OF LICENSED SOFTWARE.

#### 8. SUPPORT, UPDATES AND ONLINE SERVICES

Upon due payment of the agreed License Fees the Licensee will be eligible to receive Support and Updates and to use the Online Services during the agreed Development License Term or other agreed fixed time period. Support is provided according to agreed support level and subject to applicable requirements and restrictions, as specified in the Support Terms.

Unless otherwise decided by The Qt Company at its free and absolute discretion, Upgrades will not be included in the Support but may be available subject to additional fees.

From time to time The Qt Company may change the Support Terms, provided that during the respective ongoing Support period the level of Support may not be reduced without the consent of the Licensee.

Unless otherwise agreed, The Qt Company shall not be responsible for providing any service or support to Customers.

#### 9. CONFIDENTIALITY

Each Party acknowledges that during the Agreement Term each Party may receive information about the other Party's business, business methods, business plans, customers, business relations, technology, and other information, including the terms of this Agreement, that is confidential and of great value to the other Party, and the value of which would be significantly reduced if disclosed to third parties ("Confidential Information"). Accordingly, when a Party (the

"Receiving Party") receives Confidential Information from the other Party (the "Disclosing Party"), the Receiving Party shall only disclose such information to employees and Contractors on a need to know basis, and shall cause its employees and employees of its Affiliates to: (i) maintain any and all Confidential Information in confidence; (ii) not disclose the Confidential Information to a third party without the Disclosing Party's prior written approval; and (iii) not, directly or indirectly, use the Confidential Information for any purpose other than for exercising its rights and fulfilling its responsibilities pursuant to this Agreement. Each Party shall take reasonable measures to protect the Confidential Information of the other Party, which measures shall not be less than the measures taken by such Party to protect its own confidential and proprietary information.

Obligation of confidentiality shall not apply to information that (i) is or becomes generally known to the public through no act or omission of the Receiving Party; (ii) was in the Receiving Party's lawful possession prior to the disclosure hereunder and was not subject to limitations on disclosure or use; (iii) is developed independently by employees or Contractors of the Receiving Party or other persons working for the Receiving Party who have not had access to the Confidential Information of the Disclosing Party, as proven by the written records of the Receiving Party; (iv) is lawfully disclosed to the Receiving Party without restrictions, by a third party not under an obligation of confidentiality; or (v) the Receiving Party is legally compelled to disclose, in which case the Receiving Party shall notify the Disclosing Party of such compelled disclosure and assert the privileged and confidential nature of the information and cooperate fully with the Disclosing Party to limit the scope of disclosure and the dissemination of disclosed Confidential Information to the minimum extent necessary.

The obligations under this Section 9 shall continue to remain in force for a period of five (5) years after the last disclosure, and, with respect to trade secrets, for so long as such trade secrets are protected under applicable trade secret laws.

## 10. FEES, DELIVERY AND PAYMENT

### 10.1. License Fees

License Fees are described in The Qt Company's standard price list, quote or Purchase Order confirmation or in an Appendix 2 hereto, as the case may be.

Unless otherwise expressly provided in this Agreement, the License Fees shall not be refunded or claimed as a credit in any event or for any reason whatsoever.

### 10.2. Ordering Licenses

Licensee may purchase Development Licenses, Distribution Licenses and QA Tools

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
+-----+	
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
Qt WebSockets	X,R   X,R   X,R   X,R
Qt WebView	X,R   X,R   X,R   X,R

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+-----+
| 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   X   X
+-----+				
androiddeployqt		X		X   X   X
+-----+				
androidtestrunner		X		X   X   X
+-----+				
canbusutil		X		X   X   X
+-----+				
dumpcpp		X		X   X   X
+-----+				
dumpdoc		X		X   X   X
+-----+				
fixqt4headers.pl		X		X   X   X
+-----+				
idc		X		X   X   X
+-----+				
moc		X		X   X   X
+-----+				
pixeltool		X		X   X   X
+-----+				
qdbus		X		X   X   X
+-----+				
qdbuscpp2xml		X		X   X   X
+-----+				
qdbusviwer		X		X   X   X
+-----+				
qdbusxml2cpp		X		X   X   X
+-----+				
qdistancefieldgenerator		X		X   X   X
+-----+				
qdoc		X		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
qmlleasing	X	X	X	X
qmlformat	X	X	X	X
qmlint	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
qvkgen	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 Application Manager				X
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	

#### 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, and debug test cases	X	
Ability to execute test cases	X	X

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 instances per license	Unlimited	Unlimited	Unlimited	One(1)	
+-----+					
Number of concurrent users	Limited by	Limited by	Limited by	Limited by	
	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](http://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](http://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 Support	Premium Support	Extended Support	Qualification 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.

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### 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.

The Designated User(s) can request a session via Instant Messaging or phone call in the support request to The Qt Company.

Premium Support can assist Licensee in implementing new features, bug fixes and accessing patches in Licensed Software or Application Code.

All Support requests will be handled with high priority.

#### 5 MAINTENANCE RELEASES, UPDATES AND UPGRADES

Under the Support the Licensee is eligible for Maintenance Releases and Updates that The Qt Company generally makes available to customers who has purchased Support. Unless otherwise decided by The Company at its free and absolute discretion, Upgrades will not be provided under the Support.

The primary focus of Maintenance Releases is product quality. Therefore, each Maintenance Release typically includes the following types of changes to the previous version of Licensed Software:

- Bug fixes caused by changes to previously working code;
- Fixes related to build issues on supported Platforms;
- Error corrections specific to a single Platform that are not present on other Platforms;
- Corrections to Security Issues;

- Critical Error corrections such as crashes, data corruption, loss of data, race conditions; and
- Updates to documentation and license information when deemed necessary by The Qt Company.

The primary focus of Updates is introducing new features to Licensed Software and covering new platforms. Therefore, each Updates typically includes the following types of changes to the previous version of Licensed Software:

- New platform support;
- New toolchain support;
- New features and Qt modules;

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## APPENDIX 10: CONVERSION TO SUBSCRIPTION

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+-----+
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TypeScript ESTree

Originally extracted from:

TypeScript ESLint Parser

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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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\* Version 1.3 -- 17-Mar-2006

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

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When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a

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curl

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dynamic\_annotations

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eigen3

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```
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```

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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  
./test/mapstride.cpp  
./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  
./test/product\_trmm.cpp  
./test/linearstructure.cpp  
./test/sparse\_product.cpp  
./test/stdvector\_overload.cpp  
./test/stable\_norm.cpp  
./test/umeyama.cpp  
./test/unalignedcount.cpp  
./test/triangular.cpp  
./test/product\_mmtr.cpp  
./test/sparse\_basic.cpp  
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./test/ref.cpp  
./test/eigensolver\_complex.cpp  
./test/cholmod\_support.cpp  
./test/conjugate\_gradient.cpp

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./test/product\_notemporary.cpp  
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```
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-----  
Following applies to:

```
./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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Following

applies to:

`./unsupported/Eigen/src/LevenbergMarquardt/LevenbergMarquardt.h`  
`./unsupported/Eigen/src/LevenbergMarquardt/LMcovar.h`  
`./unsupported/Eigen/src/LevenbergMarquardt/LMonestep.h`  
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freetype2

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2006-Jan-27

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Our home page can be found at

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Component	Location	Primary Author	License
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Main			
Mesa code	src/ mesa/	Brian Paul	Mesa (MIT)
Device drivers	src/ mesa/ drivers/ *	See drivers	See drivers
Ext headers	include/ GL/ glxext.h 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
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java/android\_libs/exoplayer

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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/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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libxcb

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libxml

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Libxml2,  
an XML C Parser

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minizip

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mongoose

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objective\_c/gtm\_session\_fetcher

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openctm

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pcre
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zlib

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(extracted from README, except for match.S)

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googleurl

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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 colorizedKey = chalk.blue(keyParts[0]) + chalk.dim('@') + chalk.green(keyParts[1]);
    json[colorizedKey] = 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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\*

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\* 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

\*

\* This program uses the PortAudio Portable Audio Library.

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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.

\*

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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

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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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  "no-useless-escape": 0,
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  "space-before-function-paren": ["error", "never"],
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  "array-bracket-spacing": [2, "never"],
  "object-curly-spacing": [2, "always"],
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},
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  "node": true,
  "browser": true
}
}

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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/texti2pod.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. You must also indicate any changes including additions and deletions to those three files in the documentation.

- \* `tests/reference.pnm` is under the expat license.

## ## External libraries

FFmpeg can be combined with a number of external libraries, which sometimes affect the licensing of binaries resulting from the combination.

### ### Compatible libraries

The following libraries are under GPL version 2:

- avisynth
- frei0r
- libcdio
- libdavs2
- librubberband
- libvidstab
- libx264
- libx265
- libxavs
- 
- libxavs2
- libxvid

When combining them with FFmpeg, FFmpeg needs to be licensed as GPL as well by passing `--enable-gpl` to configure.

The following libraries are under LGPL version 3:

- gmp
- libaribb24
- 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

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"bzip2-1.0.6",  
"copyleft-next-0.3.0",  
"copyleft-next-0.3.1",  
"curl",  
"diffmark",  
"dvi-pdf",  
"eGenix",  
"gSOAP-1.3b",  
"gnuplot",  
"iMatix",  
"libpng-2.0",  
"libtiff",  
"mpich2",  
"psfrag",  
"psutils",  
"xinetd",  
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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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as described by A.Terekhov (later version 2);  
implementation of MCS (Mellor-Crummey/Scott) locks.

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```

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```
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```

```
<signature of Ty Coon>, 1 April 1989
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Julian Seward, [jseward@bzip.org](mailto:jseward@bzip.org)  
bzip2/libbzip2 version 1.0.6 of 6 September 2010

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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's 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 the 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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# spdx-license-ids

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## 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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Computer graphics and geometric modeling: implementation and algorithms  
By Max K. Agoston  
Springer; 1 edition (January 4, 2005)  
<http://books.google.com/books?q=vatti+clipping+agoston>

### See also:

"Polygon Offsetting by Computing Winding Numbers"  
Paper no. DETC2005-85513 pp. 565-575  
ASME 2005 International Design Engineering Technical Conferences  
and Computers and Information in Engineering Conference (IDETC/CIE2005)  
September 24-28, 2005 , Long Beach, California, USA  
<http://www.me.berkeley.edu/~mcmains/pubs/DAC05OffsetPolygon.pdf>

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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/gzip/inflate.c
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//

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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/c8aa823342b7a250d510582c8a03dd76af50bd9c) 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/3db0b6f05a68ccfff4181503ca87edce4ef10cd7) 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/8cea3dccb1d185dc3ae3f37f44a82d7e123a1988) 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/1cda118e1aa18cc391ba2765dcae89172943a0f)  
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)
- [dfcbdd6f](https://github.com/davglass/license-checker/commit/dfcbdd6f4966adc74e065f71e45cbd08ba8fe62ab)

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/1d306674a7fface2cad31f2bd76d7584c7922bbe)  
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/a6ee2904eb7fced220dcfe8548f80ec74fde3a2>)

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 sgtcdck/master (@sgtcdck)

- [6547ac1](<https://github.com/davglass/license-checker/commit/6547ac1ded58560c7c4abdfc68fa69d17b81fe1e>)

Removed obsolete d[key].name assignment from tests (@sgtcdck)

- [00b18a6](<https://github.com/davglass/license-checker/commit/00b18a6012387e1a4a8284c07bf2d08740e03ddd>)

Added a --relativeLicensePath option to display the license file relatively to the current path. (@sgtcdck)

- [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/a842eca4f008c07df3039dcaacd4641d7273625)

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/c9948c4b7b2cccdd053ba63f4fd2a6a6d0a46493)  
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/04a2294b82a8227ccc83d76f73cbd7cf62af533)  
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/83a7f0933d1cc1f331279e53fccc13e4efface91)  
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/0479570faf87ecc9b37fb25afae7faec6636)  
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 (@paulmand31)

- [72a6f24](https://github.com/davglass/license-checker/commit/72a6f2403de43ecf5ec07bb504cb931c0e53f6a3)

Adding license checks in the LICENSE file (and variations) (@paulmand31)

- [#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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```

That's all there is to it!
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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  | PSF        | yes                 |

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(2) According to Richard Stallman, 1.6.1 is not GPL-compatible, because its license has a choice of law clause. According to CNRI, however, Stallman's lawyer has told CNRI's lawyer that 1.6.1 is "not incompatible" with the GPL.

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# debug
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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",
```
```

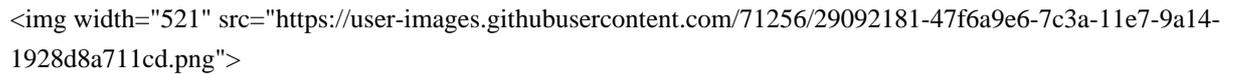
## Namespace Colors

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

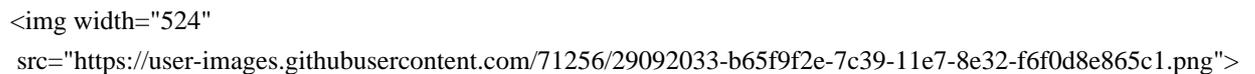
In Node.js, colors are enabled when stderr is a TTY. You also `_should_` install

the `supports-color` (<https://npmjs.org/supports-color>) module alongside `debug`, otherwise `debug` will only use a small handful of basic colors.



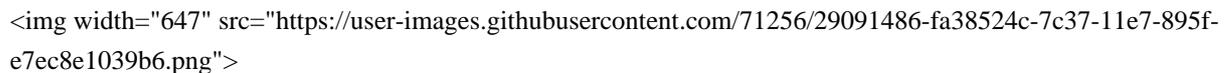
#### #### Web Browser

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).

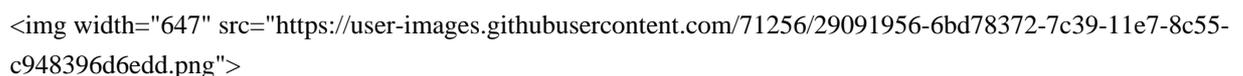


#### ## Millisecond diff

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: 686556c6c6f20776f726c6421 +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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- Nathan Rajlich
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target=//third_party/tensorflow_lite_support/odml/java/image --create_licenses_and_metadata_filegroups
```

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the work with the complete corresponding

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```
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## BSD-specific setup (FreeBSD, OpenBSD, NetBSD, *BSD)
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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 =

## End BSD-specific setup

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source: <https://github.com/johan/world.geo.json>

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\$Id\$

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# Original Design  
Shabsi Walfish

# C++ Implementation

Alexei Czeskis

Nick Salyzyn

/\*

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```
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#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
```

#endif // CONTENT\_BROWSER\_MEDIA\_MEDIA\_LICENSE\_QUOTA\_CLIENT\_H\_  
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\* Emacs mode for Protocol Buffers (editors/protobuf-mode.el).  
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\* HPUX support.  
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\* Detect whether zlib is new enough in configure script.  
\* Fixes for Solaris 10 32/64-bit confusion.  
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 x1C compiler build issues  
\* Added atomicops for AIX (POWER)  
Nipunn Koorapati <nipunn1313@gmail.com>  
\* Provide a type alias field ValueType

```
on EnumTypeWrapper
 * Match service argument names to abstract interface
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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                 |
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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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```
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```

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```
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`Gnomovision' (which makes
passes at compilers) written by James Hacker.
```

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

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```
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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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By: Rich Harris

Repository: rollup/plugins

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License: MIT

By: Marijn Haverbeke, Ingvar Stepanyan, Adrian Heine

Repository: <https://github.com/acornjs/acorn.git>

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Repository: git+https://github.com/paulmillr/chokidar.git

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Repository: jorgebucaran/colorette

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Repository: jonschlinkert/fill-range

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Repository: git@github.com:indutny/hash.js

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is-extglob

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Repository: git+https://github.com/Rich-Harris/is-reference.git

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Repository: [jonschlinkert/normalize-path](https://github.com/jonschlinkert/normalize-path)

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By: Jon Schlinkert, Rouven Weling  
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By: Ben Coe  
Repository: <https://github.com/yargs/yargs-parser.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/mojo/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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2006-Jan-27

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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
);
```
```

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```
```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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Version 3, 29 June 2007

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Google double-conversion

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-----  
File: aclocal.m4 (only for ICU4C)  
Section: pkg.m4 - Macros to locate and utilise pkg-config.

Copyright 2004 Scott James Remnant <scott@netsplit.com>.

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-----  
File: config.guess (only for ICU4C)

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-----  
File: install-sh (only for ICU4C)

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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](mailto: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.

## Legal

-----

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~~~~~

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```
#ifndef CONTENT_BROWSER_MEDIA_MEDIA_LICENSE_STORAGE_HOST_H_
```

```
#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/mojo/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

#endif // CONTENT_BROWSER_MEDIA_MEDIA_LICENSE_STORAGE_HOST_H_
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```

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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\_64.exe: binary file matches

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\* /bin/grep

## 1.27 libaom 3.9.0

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Files: \*

Comment: XByak (src/cpu/xbyak/)

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Files: \src\\*

Comment: TensorFlow

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Files: \*

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Comment: JSON schema validator for JSON for Modern C++ (<https://github.com/pboettch/json-schema-validator>)

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Files: \*

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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Comment: Instrumentation and Tracing Technology API (src/common/ittnotify/)

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CFiles: \*  
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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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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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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the

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library `Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990  
Ty Coon, President of Vice

That's all there is to it!

## 1.30 fmt 11.0.2

### 1.30.1 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 |

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# 1.31 nhttp2 1.64.0

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[src/readfloat.c]

strtod implementation.

author: Yasuhiro Matsumoto (@mattn)

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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 code as public domain as well.

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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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## 1.32 visual-studio-runtime 14.42.34433

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Files: \*

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Comment: Intel(R) Threading Building Blocks

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Comment: intel/caffe

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Comment: gflags

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Comment: Intel(R) Instrumentation and Tracing Technology (ITT) and Just-In-Time (JIT) API

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Comment: XByak (src/cpu/xbyak/)

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Files: \src\\*

Comment: TensorFlow

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Comment: JSON schema validator for JSON for Modern C++ (<https://github.com/pboettch/json-schema-validator>)

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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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CFiles: \*  
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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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