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Contents

1.1 arctext 1

1.1.1 Available under license :

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

/**

* Arctext.js

* A jQuery plugin for curved text

* http://www.codrops.com

*

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*

* Date: Mon Jan 23 2012

*/

/*!

 * FitText.js 1.0

 *

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 * http://sam.zoy.org/wtfpl/

 *

 * Date: Thu May 05 14:23:00 2011 -0600

 */

Found in path(s):

* /opt/cola/permits/1150274371_1617961412.76/0/arctext-master-zip/Arctext-master/js/jquery.arctext.js

1.2 arp-scan 1.9.5

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Version 3, 29 June 2007

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1.3 avahi 0.7-4+b1

1.3.1 Available under license :

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                 Version 2.1, February 1999

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  its purpose remains meaningful.

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  be optional: if the application does not supply it, the square
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medium customarily used for software interchange.

If distribution of object code is made by offering access to copy
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5. A program that contains no derivative of any portion of the
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work, in isolation, is not a derivative work of the Library, and
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However, linking a "work that uses the Library" with the Library
creates an executable that is a derivative of the Library (because it
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library". The executable is therefore covered by this License.
Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file
that is part of the Library, the object code for the work may be a
derivative work of the Library even though the source code is not.
Whether this is true is especially significant if the work can be
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threshold for this to be true is not precisely defined by law.

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

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

 6. As an exception to the Sections above, you may also combine or
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  machine-readable source code for the Library including whatever
  changes were used in the work (which must be distributed under
  Sections 1 and 2 above); and, if the work is an executable linked
  with the Library, with the complete machine-readable "work that
  uses the Library", as object code and/or source code, so that the
  user can modify the Library and then relink to produce a modified
  executable containing the modified Library. (It is understood
  that the user who changes the contents of definitions files in the
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  b) Use a suitable shared library mechanism for linking with the
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  copy of the library already present on the user's computer system,
  rather than copying library functions into the executable, and (2)
  will operate properly with a modified version of the library, if
  the user installs one, as long as the modified version is
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d) If distribution of the work is made by offering access to copy
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e) Verify that the user has already received a copy of these
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 - test-server/*.c
 - test-server/*.h
 - lwsws/*

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of an advantage over competing non-free programs. These disadvantages
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libraries. However, the Lesser license provides advantages in certain special circumstances.

 For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

 In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

 Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

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making modifications to it. For a library, complete source code means
all the source code for all modules it contains, plus any associated
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and installation of the library.

 Activities other than copying, distribution and modification are not
covered by this License; they are outside its scope. The act of
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1.5 libnetconf 0.10

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1.6 ngx-cookie-service 1.0.10

1.7 ng-bootstrap 1.0.0-beta.4

1.8 libxml2 2.9.4+dfsg1-7+deb10u1

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1.9 net-snmp 5.7.3+dfsg-5+deb10u1

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1.12 nextjs 0.9.0

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1.14 minizip 1.01

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

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1.18 boost 1.62.0

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


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

```
template <int i>
struct t { };

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

using result = boost::mpl::transform<vector, boost::mpl::quote1<f>>::type;



int main() { }
```
```
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN"
 "http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">


<html xmlns="http://www.w3.org/1999/xhtml">
 <head>
   <meta http-equiv="Content-Type" content="text/html; charset=utf-8" />

   <title>License &#8212; Boost.HigherOrderFunctions 0.6 documentation</title>

   <link rel="stylesheet" href="../../_static/boostbook.css" type="text/css" />
   <link rel="stylesheet" href="../../_static/pygments.css" type="text/css" />

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       VERSION:     '0.6',
       COLLAPSE_INDEX: false,
       FILE_SUFFIX: '.html',
       HAS_SOURCE:  true,
       SOURCELINK_SUFFIX: '.txt'
     };
   </script>
   <script type="text/javascript" src="../../_static/jquery.js"></script>
   <script type="text/javascript" src="../../_static/underscore.js"></script>
   <script type="text/javascript" src="../../_static/doctools.js"></script>
   <link rel="index" title="Index" href="../../genindex.html" />
   <link rel="search" title="Search" href="../../search.html" />
   <link rel="prev" title="Acknowledgements" href="acknowledgements.html" />
 </head>
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</tr></table>

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<a accesskey="u" href="../index.html"><img src="../../_static/up.png" alt="Up"></a>
<a accesskey="h" href="../index.html"><img src="../../_static/home.png" alt="Home"></a>
```

```
<a accesskey="n" ><img src="../../_static/next.png" alt="Next"></a>
</div>


  <div class="document">
 <div class="chapter">
   <div class="body" role="main">


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   </div>
 </div>
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 </div>
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 <td align="left"></td>
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      <a href="http://www.boost.org/LICENSE_1_0.txt"
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      </p>
   </div></td>
   </tr></table>
   </div>
 </body>
</html>
<!DOCTYPE html>
<html>
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  <h3>
    Copyright Test
  </h3>
  <p class="copyright">
    1963, 1964, 1965 Jane Doe
  </p>
  <p class="copyright">
    2018 Joe Blow, John Coe
  </p>
  <p class="copyright">
    1977, 1985 Someone else
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 </body>
</html>
```

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//
// 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;
```

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

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

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

#define BOOST_INTRUSIVE_INTERNAL_STATIC_BOOL_IS_TRUE(TRAITS_PREFIX,
TYPEDEF_TO_FIND) \
template <class T>\
struct TRAITS_PREFIX##_bool\
{\
  template<bool Add>\
  struct two_or_three {yes_type _[2 + Add];};\
  template <class U> static yes_type test(...);\
```

```
 template <class U> static two_or_three<U::TYPEDEF_TO_FIND> test (int);\
 static const std::size_t value = sizeof(test<T>(0));\
};\
\
template <class T>\
struct TRAITS_PREFIX##_bool_is_true\
{\
 static const bool value = TRAITS_PREFIX##_bool<T>::value > sizeof(yes_type)*2;\
};\
//

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

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

#define BOOST_INTRUSIVE_HAS_MEMBER_FUNC_CALLED_IGNORE_SIGNATURE(TRAITS_NAME, \
FUNC_NAME) \
BOOST_INTRUSIVE_HAS_MEMBER_FUNC_CALLED(TRAITS_NAME##_ignore_signature, FUNC_NAME) \
\
\
```

```
template <typename Type, class> \
struct TRAITS_NAME \
  : public TRAITS_NAME##_ignore_signature<Type> \
{};\
//
```

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

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

#endif //BOOST_INTRUSIVE_DETAIL_MPL_HPP

==
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]

[section:mpl MPL Interoperability]

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

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

[endsect]
[article Invalid copyright years
[quickbook 1.5]
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<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 1. Boost.TypeTraits">
<link rel="up" href="../index.html" title="Chapter 1. Boost.TypeTraits">
<link rel="prev" href="intrinsics.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>

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<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>
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<td align="center"><a href="../../../../../more/index.htm">More</a></td>
</tr></table>
<hr>
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accesskey="u" href="../index.html"><img src="../../../../../doc/src/images/up.png" alt="Up"></a><a accesskey="h"
href="../index.html"><img src="../../../../../doc/src/images/home.png" alt="Home"></a><a accesskey="n"
href="examples.html"><img src="../../../../../doc/src/images/next.png" alt="Next"></a>
</div>
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<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>
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<td align="left"></td>
<td align="right"><div class="copyright-footer">Copyright &#169; 2000, 2011 Adobe Systems Inc, David
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   </p>
</div></td>
```

```
</tr></table>
<hr>
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accesskey="u" href="../index.html"><img src="../../../../doc/src/images/up.png" alt="Up"></a><a accesskey="h"
href="../index.html"><img src="../../../../doc/src/images/home.png" alt="Home"></a><a accesskey="n"
href="examples.html"><img src="../../../../doc/src/images/next.png" alt="Next"></a>
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```

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```
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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#include <boost/mpl/push_back.hpp>
#include <boost/mpl/vector.hpp>


template <int i>
struct t { };

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

int main() { }
//////////////////////////////////////////////////////////////////////////////
//
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// http://www.boost.org/LICENSE_1_0.txt)
//
// See http://www.boost.org/libs/container for documentation.
//
//////////////////////////////////////////////////////////////////////////////

#ifndef BOOST_CONTAINER_CONTAINER_DETAIL_MPL_HPP
#define BOOST_CONTAINER_CONTAINER_DETAIL_MPL_HPP

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

#if defined(BOOST_HAS_PRAGMA_ONCE)
#  pragma once
#endif

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

#include <cstddef>

namespace boost {
namespace container {
namespace dtl {
```

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

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

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

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

template <class T, class=void>
struct is_transparent
{
  static const bool value = false;
```

```cpp
};

template <class T>
struct is_transparent<T, typename T::is_transparent>
{
  static const bool value = true;
};

template <typename C, typename K, typename R>
struct enable_if_transparent
  : boost::move_detail::enable_if_c<dtl::is_transparent<C>::value, R>
{};


} //namespace dtl {
} //namespace container {
} //namespace boost {

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

#endif   //#ifndef BOOST_CONTAINER_CONTAINER_DETAIL_MPL_HPP
//////////////////////////////////////////////////////////////////////////////
//
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//
// See http://www.boost.org/libs/interprocess for documentation.
//
//////////////////////////////////////////////////////////////////////////////

#ifndef BOOST_INTERPROCESS_DETAIL_MPL_HPP
#define BOOST_INTERPROCESS_DETAIL_MPL_HPP

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

#include <cstddef>

namespace boost {
namespace interprocess {
```

```cpp
namespace ipcdetail {

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

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

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

typedef true_  true_type;
typedef false_ false_type;

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

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

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

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

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

template<
    bool C
  , typename T1
  , typename T2
  >
struct if_c
{
```

```cpp
   typedef T1 type;
};

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

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


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

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

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

} //namespace ipcdetail {
} //namespace interprocess {
} //namespace boost {

#endif   //#ifndef BOOST_INTERPROCESS_DETAIL_MPL_HPP
#!/usr/bin/env python
from subprocess import check_output as run
```

```python
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)
```

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OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE
SOFTWARE.
[article Invalid copyright
[quickbook 1.5]
[copyright No year]
]

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

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   (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>
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 </para>
 <!--hr / -->
 <ulink url="mailto:jeff@crystalclearsoftware.com">Jeff Garland</ulink>
 © 2000-2002
</section>
This is an attempt to acknowledge early contributions to the garbage
collector. Later contributions should instead be mentioned in
README.changes.

HISTORY -

 Early versions of this collector were developed as a part of research

projects supported in part by the National Science Foundation
and the Defense Advance Research Projects Agency.

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

Some other contributors:

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

The SPARC specific code was originally contributed by Mark Weiser.
The Encore Multimax modifications were supplied by
Kevin Kenny (kenny@m.cs.uiuc.edu). The adaptation to the IBM PC/RT is largely
due to Vernon Lee, on machines made available to Rice by IBM.
Much of the HP specific code and a number of good suggestions for improving the
generic code are due to Walter Underwood.
Robert Brazile (brazile@diamond.bbn.com) originally supplied the ULTRIX code.
Al Dosser (dosser@src.dec.com) and Regis Cridlig (Regis.Cridlig@cl.cam.ac.uk)
subsequently provided updates and information on variation between ULTRIX
systems. Parag Patel (parag@netcom.com) supplied the A/UX code.
Jesper Peterson(jep@mtiame.mtia.oz.au), Michel Schinz, and
Martin Tauchmann (martintauchmann@bigfoot.com) supplied the Amiga port.
Thomas Funke (thf@zelator.in-berlin.de(?)) and
Brian D.Carlstrom (bdc@clark.lcs.mit.edu) supplied the NeXT ports.
Douglas Steel (doug@wg.icl.co.uk) provided ICL DRS6000 code.
Bill Janssen (janssen@parc.xerox.com) supplied the SunOS dynamic loader
specific code. Manuel Serrano (serrano@cornas.inria.fr) supplied linux and
Sony News specific code. Al Dosser provided Alpha/OSF/1 code. He and
Dave Detlefs(detlefs@src.dec.com) also provided several generic bug fixes.
Alistair G. Crooks(agc@uts.amdahl.com) supplied the NetBSD and 386BSD ports.
Jeffrey Hsu (hsu@soda.berkeley.edu) provided the FreeBSD port.
Brent Benson (brent@jade.ssd.csd.harris.com) ported the collector to
a Motorola 88K processor running CX/UX (Harris NightHawk).
Ari Huttunen (Ari.Huttunen@hut.fi) generalized the OS/2 port to
nonIBM development environments (a nontrivial task).
Patrick Beard (beard@cs.ucdavis.edu) provided the initial MacOS port.
David Chase, then at Olivetti Research, suggested several improvements.
Scott Schwartz (schwartz@groucho.cse.psu.edu) supplied some of the
code to save and print call stacks for leak detection on a SPARC.
Jesse Hull and John Ellis supplied the C++ interface code.
Zhong Shao performed much of the experimentation that led to the
current typed allocation facility. (His dynamic type inference code hasn't

made it into the released version of the collector, yet.)
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Aleksey Gurtovoy (agurtovoy@meta-comm.com)
Andrei Alexandrescu (andrewalex - at - hotmail.com) (See Boost list message of August 12, 2004 11:06:58 AM
EST)
Andrew Lumsdaine ()
Anthony Williams (anthony -at- justsoftwaresolutions.co.uk)
Beman Dawes (bdawes@acm.org)
Brad King (brad.king -at- kitware.com) (See Boost list message of Wed, 21 Jul 2004 11:15:46 -0400)
Brian Osman (osman -at- vvisions.com) (See CVS log)
Bruce Barr (schmoost -at- yahoo.com) (See Boost list of Mon, 16 Aug 2004 15:06:43 -0500)
Bruno da Silva de Oliveira (bruno - at - esss.com.br)

Christain Engstrom (christian.engstrom -at- glindra.org) (See Boost list message of Mon, 30 Aug 2004 14:31:49 +0200)

Cromwell D Enage (sponage -at- yahoo.com) (See Boost list message of August 12, 2004 11:49:13 AM EST)

Dan Gohman (djg -at- cray.com) (See Boost list messsage of Sat, 21 Aug 2004 10:54:59 +0100)

Dan Nuffer (dan -at- nuffer.name)

Daniel Frey (d.frey -at- gmx.de, daniel.frey -at- aixigo.de)

Daniel Nuffer (dan -at- nuffer.name)

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Fernando Luis Cacciola Carballal (fernando_cacciola@ciudad.com.ar)

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Gottfried Ganauge (Gottfried.Ganssauge -at- HAUFE.DE) (Alternative spelling of Gottfried Ganssauge)

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Gregory Colvin (gregory.colvin -at- oracle.com) (See Boost list message of Sat, 14 Aug 2004 10:57:00 +0100)

Gunter Winkler (gunter.winkler -at- unibw-muenchen.de) (See Boost List message of Mon, 16 Aug 2004 10:24:17 +0200)

Hartmut Kaiser (hartmut.kaiser -at- gmail.com)

Herve Bronnimann (hbr -at- poly.edu)

Herv Brnnimann (hbr -at- poly.edu)

Housemarque Oy (Ilari Kuittinen ilari.kuittinen -at- housemarque.fi)

Howard Hinnant (hinnant -at- twcny.rr.com) (See Boost list message of July 25, 2004 3:44:49 PM EST)

Hubert Holin (hubert_holin -at- users.sourceforge.net)

Indiana University ()

Itay Maman (imaman -at- users.sourceforge.net)

Jaakko Jrvi (jajarvi -at- osl.iu.edu)

Jaap Suter (j.suter -at- student.utwente.nl) (See Boost list message of Thu, 16 Sep 2004 09:32:43 -0700)

Jeff Garland (jeff - at - crystalclearsoftware.com) (see Boost list post of July 25, 2004 19:31:09 -0700)

Jens Maurer (Jens.Maurer@gmx.net)

Jeremy G Siek (jsiek@osl.iu.edu)

Jeremy Siek (jsiek@osl.iu.edu)

Joel de Guzman (joel -at- boost-consulting.com) (See Boost list message of July 25, 2004 8:32:00 PM EST)

John Bandela (jbandela-at-ufl.edu)

John Maddock (john - at - johnmaddock.co.uk)

```html
<html xmlns="http://www.w3.org/1999/xhtml">
 <head>
  <meta http-equiv="Content-Type" content="text/html; charset=utf-8" />

  <title>&lt;no title&gt; &#8212; Boost.HigherOrderFunctions 0.6 documentation</title>

  <link rel="stylesheet" href="_static/boostbook.css" type="text/css" />
  <link rel="stylesheet" href="_static/pygments.css" type="text/css" />

  <script type="text/javascript">
   var DOCUMENTATION_OPTIONS = {
     URL_ROOT:    './',
     VERSION:     '0.6',
     COLLAPSE_INDEX: false,
     FILE_SUFFIX: '.html',
     HAS_SOURCE:  true,
     SOURCELINK_SUFFIX: '.txt'
    };
  </script>
  <script type="text/javascript" src="_static/jquery.js"></script>
  <script type="text/javascript" src="_static/underscore.js"></script>
  <script type="text/javascript" src="_static/doctools.js"></script>
  <link rel="index" title="Index" href="genindex.html" />
  <link rel="search" title="Search" href="search.html" />
 </head>
 <body role="document">
<table cellpadding="2" width="100%"><tr>
<td valign="top"><img alt="Boost C++ Libraries" width="277" height="86"src="_static/boost.png"></td>
</tr></table>

<div class="spirit-nav">
<a accesskey="p"  ><img src="_static/prev.png" alt="Prev"></a>
<a accesskey="u" href="doc/index.html"><img src="_static/up.png" alt="Up"></a>
<a accesskey="h" href="doc/index.html"><img src="_static/home.png" alt="Home"></a>
<a accesskey="n"  ><img src="_static/next.png" alt="Next"></a>
</div>


  <div class="document">
<div class="chapter">
   <div class="body" role="main">

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    </div>
 </div>
    <div class="clearer"></div>
  </div>
  <div class="footer" role="contentinfo">
  <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">
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    <a href="http://www.boost.org/LICENSE_1_0.txt"
target="_top">http://www.boost.org/LICENSE_1_0.txt)
    </p>
  </div></td>
  </tr></table>
  </div>
 </body>
</html>
<!--
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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"],
});
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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"><img alt="Logo" src="Boost.png"/></td>
 <td style="padding-left: 0.5em;">
 <div id="projectname">Boost.Hana
  <span id="projectnumber">1.5.0</span>
 </div>
 <div id="projectbrief">Your standard library for metaprogramming</div>
 </td>
 <td>        <div id="MSearchBox" class="MSearchBoxInactive">
    <span class="left">
     <img id="MSearchSelect" src="search/mag_sel.png"
        onmouseover="return searchBox.OnSearchSelectShow()"
        onmouseout="return searchBox.OnSearchSelectHide()"
        alt=""/>
     <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()"><img id="MSearchCloseImg"
border="0" src="search/close.png" alt=""/></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  </td><td
class="memItemRight" valign="bottom"><a class="el"
href="structboost_1_1mpl_1_1integral__c.html">boost::mpl::integral_c&lt; T, v &gt;</a></td></tr>
<tr class="memdesc:"><td class="mdescLeft"> </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"> </td></tr>
<tr class="memitem:"><td class="memItemLeft" align="right" valign="top">struct  </td><td
class="memItemRight" valign="bottom"><a class="el"
href="structboost_1_1mpl_1_1list.html">boost::mpl::list&lt; T &gt;</a></td></tr>
<tr class="memdesc:"><td class="mdescLeft"> </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"> </td></tr>
<tr class="memitem:"><td class="memItemLeft" align="right" valign="top">struct  </td><td
class="memItemRight" valign="bottom"><a class="el"
href="structboost_1_1mpl_1_1vector.html">boost::mpl::vector&lt; T &gt;</a></td></tr>
```

<tr class="memdesc:"><td class="mdescLeft"> </td><td class="mdescRight">Adapter for Boost.MPL vectors. More...
</td></tr>

<tr class="separator:"><td class="memSeparator" colspan="2"> </td></tr>

</table>

</div><!-- contents -->

</div><!-- doc-content -->

<!--

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-->

<!-- 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! -->

</div>

</body>

</html>

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```xml
<?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>
```

http_parser.c is based on src/http/ngx_http_parse.c from NGINX copyright Igor Sysoev.

Additional changes are licensed under the same terms as NGINX and copyright Joyent, Inc. and other Node contributors. All rights reserved.

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```
// Copyright Louis Dionne 2013-2017
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// (See accompanying file LICENSE.md or copy at http://boost.org/LICENSE_1_0.txt)

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


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

struct state { };

template <int i>
struct t { };

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

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


int main() { }
////
```

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http://www.boost.org/LICENSE_1_0.txt

////

[#mpl]

MPL Support, <boost/mp11/mpl.hpp>

:toc:

:toc-title:

:idprefix:

The header `<boost/mp11/mpl.hpp>`, when included, defines the

necessary support infrastructure for `mp_list` and `std::tuple`

to be valid link:../../../../libs/mpl[MPL] sequences.

NOTE: `mpl.hpp` is not included by `<boost/mp11.hpp>`.

```
/*
 *
 * Copyright (c) 2003 Dr John Maddock
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 * Boost Software License, Version 1.0. (See accompanying file
 * 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&);
```

```cpp
};

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>";
```

```cpp
      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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 http://www.boost.org/LICENSE_1_0.txt)
 =============================================================================/]
```

1.19 curl 7.64.0-4+deb10u1

1.19.1 Available under license :

```
License Mixing
==============


libcurl can be built to use a fair amount of various third party libraries,
libraries that are written and provided by other parties that are distributed
using their own licenses. Even libcurl itself contains code that may cause
problems to some. This document attempts to describe what licenses libcurl and
the other libraries use and what possible dilemmas linking and mixing them all
can lead to for end users.


I am not a lawyer and this is not legal advice!


One common dilemma is that [GPL](https://www.gnu.org/licenses/gpl.html)
licensed code is not allowed to be linked with code licensed under the
[Original BSD license](https://spdx.org/licenses/BSD-4-Clause.html) (with the
announcement clause). You may still build your own copies that use them all,
but distributing them as binaries would be to violate the GPL license - unless
you accompany your license with an
[exception](https://www.gnu.org/licenses/gpl-faq.html#GPLIncompatibleLibs). This
particular problem was addressed when the [Modified BSD
license](https://opensource.org/licenses/BSD-3-Clause) was created, which does
not have the announcement clause that collides with GPL.


## libcurl


Uses an [MIT style license](https://curl.haxx.se/docs/copyright.html) that is
```

very liberal.

OpenSSL

(May be used for SSL/TLS support) Uses an Original BSD-style license with an announcement clause that makes it "incompatible" with GPL. You are not allowed to ship binaries that link with OpenSSL that includes GPL code (unless that specific GPL code includes an exception for OpenSSL - a habit that is growing more and more common). If OpenSSL's licensing is a problem for you, consider using another TLS library.

GnuTLS

(May be used for SSL/TLS support) Uses the [LGPL](https://www.gnu.org/licenses/lgpl.html) license. If this is a problem for you, consider using another TLS library. Also note that GnuTLS itself depends on and uses other libs (libgcrypt and libgpg-error) and they too are LGPL- or GPL-licensed.

WolfSSL

(May be used for SSL/TLS support) Uses the GPL license or a proprietary license. If this is a problem for you, consider using another TLS library.

NSS

(May be used for SSL/TLS support) Is covered by the [MPL](https://www.mozilla.org/MPL/) license, the GPL license and the LGPL license. You may choose to license the code under MPL terms, GPL terms, or LGPL terms. These licenses grant you different permissions and impose different obligations. You should select the license that best meets your needs.

mbedTLS

(May be used for SSL/TLS support) Uses the [Apache 2.0 license](https://opensource.org/licenses/Apache-2.0) or the GPL license. You may choose to license the code under Apache 2.0 terms or GPL terms. These licenses grant you different permissions and impose different obligations. You should select the license that best meets your needs.

BoringSSL

(May be used for SSL/TLS support) As an OpenSSL fork, it has the same license as that.

libressl

(May be used for SSL/TLS support) As an OpenSSL fork, it has the same
license as that.

c-ares

(Used for asynchronous name resolves) Uses an MIT license that is very
liberal and imposes no restrictions on any other library or part you may link
with.

zlib

(Used for compressed Transfer-Encoding support) Uses an MIT-style license
that shouldn't collide with any other library.

MIT Kerberos

(May be used for GSS support) MIT licensed, that shouldn't collide with any
other parts.

Heimdal

(May be used for GSS support) Heimdal is Original BSD licensed with the
announcement clause.

GNU GSS

(May be used for GSS support) GNU GSS is GPL licensed. Note that you may not
distribute binary curl packages that uses this if you build curl to also link
and use any Original BSD licensed libraries!

libidn

(Used for IDNA support) Uses the GNU Lesser General Public License [3]. LGPL
is a variation of GPL with slightly less aggressive "copyleft". This license
requires more requirements to be met when distributing binaries, see the
license for details. Also note that if you distribute a binary that includes
this library, you must also include the full LGPL license text. Please
properly point out what parts of the distributed package that the license
addresses.

OpenLDAP

(Used for LDAP support) Uses a Modified BSD-style license. Since libcurl uses
OpenLDAP as a shared library only, I have not heard of anyone that ships
OpenLDAP linked with libcurl in an app.

libssh2

(Used for scp and sftp support) libssh2 uses a Modified BSD-style license.
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1.20 zlib 1.2.11

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1.21 angular-ui-sortable 1.1.1

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1.22 tiny-xml 2.6.2

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o zlib and bzip2: compression libraries.

http://www.zlib.org/ http://www.bzip.org/

o Expat: XML parser library.

  http://expat.sourceforge.net/

o fontconfig: font configuration library.

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o PyGTK, PyGObject: bindings for Python. Licensed under the GNU LGPL
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  Our method of protecting your rights has two steps: (1) copyright
the library, and (2) offer you this license which gives you legal
permission to copy, distribute and/or modify the library.

Also, for each distributor's protection, we want to make certain
that everyone understands that there is no warranty for this free
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the original authors' reputations.

Finally, any free program is threatened constantly by software
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software will individually obtain patent licenses, thus in effect
transforming the program into proprietary software. To prevent this,
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the same as in the ordinary license.

The reason we have a separate public license for some libraries is that
they blur the distinction we usually make between modifying or adding to a
program and simply using it. Linking a program with a library, without
changing the library, is in some sense simply using the library, and is
analogous to running a utility program or application program. However, in
a textual and legal sense, the linked executable is a combined work, a
derivative of the original library, and the ordinary General Public License
treats it as such.

Because of this blurred distinction, using the ordinary General
Public License for libraries did not effectively promote software
sharing, because most developers did not use the libraries. We
concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the
users of those programs of all benefit from the free status of the
libraries themselves. This Library General Public License is intended to
permit developers of non-free programs to use free libraries, while
preserving your freedom as a user of such programs to change the free
libraries that are incorporated in them. (We have not seen how to achieve
this as regards changes in header files, but we have achieved it as regards
changes in the actual functions of the Library.) The hope is that this
will lead to faster development of free libraries.

The precise terms and conditions for copying, distribution and
modification follow. Pay close attention to the difference between a
"work based on the library" and a "work that uses the library". The

former contains code derived from the library, while the latter only works together with the library.

 Note that it is possible for a library to be covered by the ordinary General Public License rather than by this special one.

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 "Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

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  b) You must cause the files modified to carry prominent notices
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  table of data to be supplied by an application program that uses
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  is invoked, then you must make a good faith effort to ensure that,
  in the event an application does not supply such function or
  table, the facility still operates, and performs whatever part of
  its purpose remains meaningful.

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

These requirements apply to the modified work as a whole. If
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must be distributed under the terms of Sections 1 and 2 above on a
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 If distribution of object code is made by offering access to copy
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source code from the same place satisfies the requirement to
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compelled to copy the source along with the object code.

 5. A program that contains no derivative of any portion of the
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contains portions of the Library), rather than a "work that uses the
library". The executable is therefore covered by this License.
Section 6 states terms for distribution of such executables.

 When a "work that uses the Library" uses material from a header file

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

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

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

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

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    from a designated place, offer equivalent access to copy the above
    specified materials from the same place.

    d) Verify that the user has already received a copy of these
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reproducing the executable from it. However, as a special exception,
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1.30 angular 8.0.1

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```
import { HttpClientTestingModule, HttpTestingController } from '@angular/common/http/testing';
import { Injector } from '@angular/core';
import { TestBed } from '@angular/core/testing';

import { ContributorService } from './contributor.service';
import { ContributorGroup } from './contributors.model';

describe('ContributorService', () => {

 let injector: Injector;
 let contribService: ContributorService;
 let httpMock: HttpTestingController;

 beforeEach(() => {
  injector = TestBed.configureTestingModule({
   imports: [HttpClientTestingModule],
   providers: [
    ContributorService
   ]
  });

  contribService = injector.get<ContributorService>(ContributorService);
  httpMock = injector.get(HttpTestingController);
 });

 afterEach(() => httpMock.verify());

 it('should make a single connection to the server', () => {
  const req = httpMock.expectOne({});
  expect(req.request.url).toBe('generated/contributors.json');
 });

 describe('#contributors', () => {

  let contribs: ContributorGroup[];
  let testData: any;

  beforeEach(() => {
   testData = getTestContribs();
   httpMock.expectOne({}).flush(testData);
   contribService.contributors.subscribe(results => contribs = results);
  });
```

```
it('contributors observable should complete', () => {
  let completed = false;
  contribService.contributors.subscribe(undefined, undefined, () => completed = true);
  expect(completed).toBe(true, 'observable completed');
});

it('should reshape the contributor json to expected result', () => {
  const groupNames = contribs.map(g => g.name).join(',');
  expect(groupNames).toEqual('Angular,Collaborators,GDE');
});

it('should have expected "GDE" contribs in order', () => {
  const gde = contribs[2];
  const actualAngularNames = gde.contributors.map(l => l.name).join(',');
  const expectedAngularNames = [testData.gkalpak, testData.kapunahelewong].map(l => l.name).join(',');
  expect(actualAngularNames).toEqual(expectedAngularNames);
});

it('should support including a contributor in multiple groups', () => {
  const contributor = testData.gkalpak;
  const matchedGroups = contribs
      .filter(group => group.contributors.includes(contributor))
      .map(group => group.name);

  expect(matchedGroups).toEqual(['Collaborators', 'GDE']);
});
});

it('should do WHAT(?) if the request fails');
});

function getTestContribs() {
 return {
  kapunahelewong: {
    name: 'Kapunahele Wong',
    picture: 'kapunahelewong.jpg',
    website: 'https://github.com/kapunahelewong',
    twitter: 'kapunahele',
    bio: 'Kapunahele is a front-end developer and contributor to angular.io',
    groups: ['GDE']
  },
  misko: {
    name: 'Miko Hevery',
    picture: 'misko.jpg',
    twitter: 'mhevery',
    website: 'http://misko.hevery.com',
    bio: 'Miko Hevery is the creator of AngularJS framework.',
```

```
          groups: ['Angular']
        },
      igor: {
        name: 'Igor Minar',
        picture: 'igor-minar.jpg',
        twitter: 'IgorMinar',
        website: 'https://google.com/+IgorMinar',
        bio: 'Igor is a software engineer at Angular.',
        groups: ['Angular']
      },
      kara: {
        name: 'Kara Erickson',
        picture: 'kara-erickson.jpg',
        twitter: 'karaforthewin',
        website: 'https://github.com/kara',
        bio: 'Kara is a software engineer on the Angular team at Angular and a co-organizer of the Angular-SF Meetup. ',
        groups: ['Angular']
      },
      jeffcross: {
        name: 'Jeff Cross',
        picture: 'jeff-cross.jpg',
        twitter: 'jeffbcross',
        website: 'https://twitter.com/jeffbcross',
        bio: 'Jeff was one of the earliest core team members on AngularJS.',
        groups: ['Collaborators']
      },
      naomi: {
        name: 'Naomi Black',
        picture: 'naomi.jpg',
        twitter: 'naomitraveller',
        website: 'http://google.com/+NaomiBlack',
        bio: 'Naomi is Angular\'s TPM generalist and jack-of-all-trades.',
        groups: ['Angular']
      },
      gkalpak: {
        name: 'George Kalpakas',
        picture: 'gkalpak.jpg',
        twitter: 'gkalpakas',
        bio: 'George wrote this test, so he gets to have his name included here.',
        groups: ['GDE', 'Collaborators'],
      }
};
}
import { Injectable } from '@angular/core';
import { HttpClient } from '@angular/common/http';

import { ConnectableObservable, Observable } from 'rxjs';
import { map, publishLast } from 'rxjs/operators';
```

```
import { Contributor, ContributorGroup } from './contributors.model';

// TODO(andrewjs): Look into changing this so that we don't import the service just to get the const
import { CONTENT_URL_PREFIX } from 'app/documents/document.service';

const contributorsPath = CONTENT_URL_PREFIX + 'contributors.json';
const knownGroups = ['Angular', 'Collaborators', 'GDE'];

@Injectable()
export class ContributorService {
 contributors: Observable<ContributorGroup[]>;

 constructor(private http: HttpClient) {
  this.contributors = this.getContributors();
 }

 private getContributors() {
  const contributors = this.http.get<{[key: string]: Contributor}>(contributorsPath).pipe(
    // Create group map
    map(contribs => {
     const contribMap: { [name: string]: Contributor[]} = {};
     Object.keys(contribs).forEach(key => {
      const contributor = contribs[key];
      contributor.groups.forEach(group => {
       const contribGroup = contribMap[group] || (contribMap[group] = []);
       contribGroup.push(contributor);
      });
     });

     return contribMap;
    }),

    // Flatten group map into sorted group array of sorted contributors
    map(cmap => {
     return Object.keys(cmap).map(key => {
      const order = knownGroups.indexOf(key);
      return {
       name: key,
       order: order === -1 ? knownGroups.length : order,
       contributors: cmap[key].sort(compareContributors)
      } as ContributorGroup;
     })
     .sort(compareGroups);
    }),

    publishLast(),
  );
```

```
    (contributors as ConnectableObservable<ContributorGroup[]>).connect();
    return contributors;
  }
}

function compareContributors(l: Contributor, r: Contributor) {
return l.name.toUpperCase() > r.name.toUpperCase() ? 1 : -1;
}

function compareGroups(l: ContributorGroup, r: ContributorGroup) {
 return l.order === r.order ?
  (l.name > r.name ? 1 : -1) :
   l.order > r.order ? 1 : -1;
}
import { Component, Input } from '@angular/core';

import { Contributor } from './contributors.model';
import { CONTENT_URL_PREFIX } from 'app/documents/document.service';

@Component({
 selector: 'aio-contributor',
 template: `
  <div [ngClass]="{ 'flipped': person.isFlipped }" class="contributor-card">

    <div class="card-front" (click)="flipCard(person)">
       <h3>{{person.name}}</h3>

       <div class="contributor-image" [style.background-image]="'url('+pictureBase+(person.picture ||
noPicture)+')'">
          <div class="contributor-info">
            <a *ngIf="person.bio" mat-button class="info-item">
              View Bio
            </a>
            <a *ngIf="person.twitter" mat-icon-button class="info-item icon"
              href="https://twitter.com/{{person.twitter}}" target="_blank" (click)="$event.stopPropagation()">
              <mat-icon svgIcon="logos:twitter"></mat-icon>
            </a>
            <a *ngIf="person.website" mat-icon-button class="info-item icon"
              href="{{person.website}}" target="_blank" (click)="$event.stopPropagation()">
              <mat-icon class="link-icon">link</mat-icon>
            </a>
          </div>
        </div>
      </div>

    <div class="card-back" *ngIf="person.isFlipped" (click)="flipCard(person)">
       <h3>{{person.name}}</h3>
```

```
      <p class="contributor-bio">{{person.bio}}</p>
    </div>
  </div>
`
})
export class ContributorComponent {
 @Input() person: Contributor;
 noPicture = '_no-one.png';
 pictureBase = CONTENT_URL_PREFIX + 'images/bios/';

 flipCard(person: Contributor) {
  person.isFlipped = !person.isFlipped;
 }
}
import { ReflectiveInjector } from '@angular/core';

import { of } from 'rxjs';

import { ContributorGroup } from './contributors.model';
import { ContributorListComponent } from './contributor-list.component';
import { ContributorService } from './contributor.service';
import { LocationService } from 'app/shared/location.service';

// Testing the component class behaviors, independent of its template
// Let e2e tests verify how it displays.
describe('ContributorListComponent', () => {

 let component: ContributorListComponent;
 let injector: ReflectiveInjector;
 let contributorService: TestContributorService;
 let locationService: TestLocationService;
 let contributorGroups: ContributorGroup[];

 beforeEach(() => {
  injector = ReflectiveInjector.resolveAndCreate([
   ContributorListComponent,
   {provide: ContributorService, useClass: TestContributorService },
   {provide: LocationService, useClass: TestLocationService }
  ]);

  locationService = injector.get(LocationService);
  contributorService = injector.get(ContributorService);
  contributorGroups = contributorService.testContributors;
 });

 it('should select the first group when no query string', () => {
  component = getComponent();
  expect(component.selectedGroup).toBe(contributorGroups[0]);
```

```
  });

  it('should select the first group when query string w/o "group" property', () => {
    locationService.searchResult = { foo: 'GDE' };
    component = getComponent();
    expect(component.selectedGroup).toBe(contributorGroups[0]);
  });

  it('should select the first group when query group not found', () => {
    locationService.searchResult = { group: 'foo' };
    component = getComponent();
    expect(component.selectedGroup).toBe(contributorGroups[0]);
  });

  it('should select the GDE group when query group is "GDE"', () => {
    locationService.searchResult = { group: 'GDE' };
    component = getComponent();
    expect(component.selectedGroup).toBe(contributorGroups[1]);
  });

  it('should select the GDE group when query group is "gde" (case insensitive)', () => {
    locationService.searchResult = { group: 'gde' };
    component = getComponent();
    expect(component.selectedGroup).toBe(contributorGroups[1]);
  });

  it('should set the query to the "GDE" group when user selects "GDE"', () => {
    component = getComponent();
    component.selectGroup('GDE');
    expect(locationService.searchResult['group']).toBe('GDE');
  });

  it('should set the query to the first group when user selects unknown name', () => {
    component = getComponent();
    component.selectGroup('GDE'); // a legit group that isn't the first

    component.selectGroup('foo'); // not a legit group name
    expect(locationService.searchResult['group']).toBe('Angular');
  });

  //// Test Helpers ////
  function  getComponent(): ContributorListComponent {
    const comp = injector.get(ContributorListComponent);
    comp.ngOnInit();
    return comp;
  }

  interface SearchResult { [index: string]: string; }
```

```
class TestLocationService {
  searchResult: SearchResult = {};
  search = jasmine.createSpy('search').and.callFake(() => this.searchResult);
  setSearch = jasmine.createSpy('setSearch')
    .and.callFake((label: string, result: SearchResult) => {
      this.searchResult = result;
    });
}

class TestContributorService {
  testContributors = getTestData();
  contributors = of(this.testContributors);
}

function getTestData(): ContributorGroup[] {
  return [
    // Not interested in the contributors data in these tests
    { name: 'Angular', order: 0, contributors: [] },
    { name: 'GDE', order: 1, contributors: [] },
  ];
}
});
{
 "mhevery": {
  "name": "Miko Hevery",
  "picture": "misko.jpg",
  "twitter": "mhevery",
  "website": "http://misko.hevery.com",
  "bio": "Miko Hevery is the creator of AngularJS framework. He has passion for making complex things simple.
He currently works at Google, but has previously worked at Adobe, Sun Microsystems, Intel, and Xerox, where he
became an expert in building web applications in web related technologies such as Java, JavaScript, Flex and
ActionScript.",
  "groups": ["Angular"],
  "lead": "kara"
 },
 "igorminar": {
  "name": "Igor Minar",
  "picture": "igor-minar.jpg",
  "twitter": "IgorMinar",
  "website": "https://google.com/+IgorMinar",
  "bio": "Igor is a software engineer at Google. He is a lead on the Angular project, practitioner of test driven
development, open source enthusiast, hacker. In his free time, Igor enjoys spending time with his wife and two kids,
doing outdoor activities (including but not limited to sports, gardening and building retaining walls).",
  "groups": ["Angular"],
  "lead": "bradlygreen"
 },
 "bradlygreen": {
```

```
    "name": "Brad Green",
    "picture": "brad-green.jpg",
    "twitter": "bradlygreen",
    "website": "https://plus.google.com/+BradGreen",
    "bio": "Brad Green works at Google as an engineering director. Brad manages the Google Sales Platform suite of
projects as well as the AngularJS framework. Prior to Google, Brad worked on the early mobile web at AvantGo,
founded and sold startups, and spent a few hard years toiling as a caterer. Brad's first job out of school was as lackey
to Steve Jobs at NeXT Computer writing demo software and designing his slide presentations. Brad enjoys throwing
dinner parties with his wife Heather and putting on plays with his children.",
    "groups": ["Angular"]
  },
  "jelbourn": {
    "name": "Jeremy Elbourn",
    "picture": "jelbourn.jpg",
    "twitter": "jelbourn",
    "website": "https://plus.google.com/+JeremyElbourn/",
    "bio": "Angular Material Team Lead. FE Engineer @ Google specializing in AngularJS, component design, and
the cleanest of code.",
    "groups": ["Angular"],
    "lead": "igorminar"
  },
  "petebacondarwin": {
    "name": "Pete Bacon Darwin",
    "picture": "pete.jpg",
    "twitter": "petebd",
    "website": "http://www.bacondarwin.com",
    "bio": "AngularJS for JS Team Lead. Pete has been working on the core team since 2012 and became the team
lead for the AngularJS for JS branch in November 2014. He has co-authored a book on AngularJS and regularly
talks about and teaches Angular.",
    "groups": ["Angular"],
    "lead": "igorminar"
  },
  "stephenfluin": {
    "name": "Stephen Fluin",
    "picture": "stephenfluin.jpg",
    "twitter": "stephenfluin",
    "website": "https://plus.google.com/+stephenfluin",
    "bio": "Stephen is a Developer Advocate working on the Angular team. Before joining Google, he was a Google
Expert. Stephen loves to help enterprises use technology more effectively.",
    "groups": ["Angular"],
    "lead": "bradlygreen"
  },
  "robwormald": {
    "name": "Rob Wormald",
    "picture": "rob-wormald.jpg",
    "twitter": "robwormald",
    "website": "http://github.com/robwormald",
    "bio": "Rob is a Developer Advocate on the Angular team at Google. He's the Angular team's resident reactive
```

programming geek and founded the Reactive Extensions for Angular project, ngrx.",
    "groups": ["Angular"],
    "lead": "stephenfluin"
},
"rkirov": {
    "name": "Rado Kirov",
    "picture": "rado.jpg",
    "twitter": "radokirov",
    "website": "https://plus.sandbox.google.com/+RadoslavKirov",
    "bio": "Rado has been on the Angular Core team since Summer 2014. Before Angular, he worked on the Adsense serving stack, responsible for serving billions of ads daily. Being passionate about open source, he made contributions to Angular as a Google-20% project, before making the fulltime jump. He is a recovering academic; ask him about error-correcting codes from algebraic curves (or don't).",
    "groups": ["Angular"],
    "lead": "mprobst"
},
"alexeagle": {
    "name": "Alex Eagle",
    "picture": "alex-eagle.jpg",
    "twitter": "jakeherringbone",
    "website": "http://google.com/+alexeagle",
    "bio": "Alex works on language tooling for JavaScript and TypeScript. Previously Alex spent five years in Google's developer testing tools. He has developed systems including Google's continuous integration service, capturing build&test failures, and explaining them to developers. Before Google, Alex worked at startups including Opower, and consulted for large government IT. In his 20% time, he created the Error-Prone static analysis tool, which detects common Java programming mistakes and reports them as compile errors.",
    "groups": ["Angular"],
    "lead": "igorminar"
},
"kyliau": {
    "name": "Keen Yee Liau",
    "groups": ["Angular"],
    "lead": "alexeagle",
    "picture": "kyliau.jpg"
},
"clydin": {
    "name": "Charles Lyding",
    "groups": ["Angular"],
    "lead": "alexeagle",
    "picture": "clydin.jpg"
},
"alan-agius4": {
    "name": "Alan Agius",
    "groups": ["Angular"],
    "lead": "alexeagle",
    "picture": "alan-agius4.jpg",
    "bio": "Angular CLI Member, Loves TypeScript, Build Tools, Food, Beer & Coffee:)"
},

"gregmagolan": {
  "name": "Greg Magolan",
  "groups": ["Angular"],
  "lead": "alexeagle",
  "picture": "gregmagolan.jpg",
  "bio": "Building great software with Angular and Node.js."
},
"mprobst": {
  "name": "Martin Probst",
  "picture": "martin-probst.jpg",
  "twitter": "martin_probst",
  "website": "http://probst.io",
  "bio": "Martin is a software engineer at Google in the AngularJS team. He holds a MSc in Software Engineering from HPI in Potsdam, Germany. Before joining the AngularJS team at Google, he worked at a database startup in the Netherlands, at EMC, at SAP, and as a freelancer. In his free time, he likes to cook and sail, not necessarily at the same time.",
  "groups": ["Angular"],
  "lead": "bradlygreen"
},
"alxhub": {
  "name": "Alex Rickabaugh",
  "picture": "alex-rickabaugh.jpg",
  "twitter": "synalx",
  "website": "https://plus.google.com/+AlexRickabaugh/about",
  "bio": "Core team member working to optimize the Angular platform for the next generation of applications, including mobile. Before joining the Angular team, Alex worked in the Google sales organization where he helped build the first large Angular application within Google.",
  "groups": ["Angular"],
  "lead": "kara"
},
"matsko": {
  "name": "Matias Niemela",
  "picture": "matias.jpg",
  "twitter": "yearofmoo",
  "website": "http://yearofmoo.com",
  "bio": "Matias Niemela is a fullstack web developer who has been programming & building websites for over 10 years, and a core team member of AngularJS for two years. In the spring of 2015 Matias joined Angular full time at Google. In his free time Matias loves to build complex things and is always up for public speaking, travelling and tweaking his current Vim setup.",
  "groups": ["Angular"],
  "lead": "kara"
},
"hansl": {
  "name": "Hans Larsen",
  "picture": "hansl.jpg",
  "twitter": "hanslatwork",
  "website": "http://www.codingatwork.com/",
  "bio": "Hans is a software engineer at Google on the Angular team and was previously at Slack. He works

everyday to help make it easier for everyone to create beautiful, consistent web applications using Angular, using Material Design components and the CLI tool.",

  "groups": ["Angular"],

  "lead": "alexeagle"

 },

 "kara": {

  "name": "Kara Erickson",

  "picture": "kara-erickson.jpg",

  "twitter": "karaforthewin",

  "website": "https://github.com/kara",

  "bio": "Kara is a software engineer on the Angular team at Google and a co-organizer of the Angular-SF Meetup. Prior to Google, she helped build UI components in Angular for guest management systems at OpenTable. She enjoys snacking indiscriminately and probably other things too.",

  "groups": ["Angular"],

  "lead": "igorminar"

 },

 "vikerman": {

  "name": "Vikram Subramanian",

  "picture": "vikram.jpg",

  "twitter": "vikerman",

  "bio": "Vikram is a Software Engineer on the Angular team focused on Engineering Productivity. That means he makes sure people on the team can move fast and not break things. Vikram enjoys doing Yoga and going on walks with his daughter.",

  "groups": ["Angular"],

  "lead": "alexeagle"

 },

 "pkozlowski-opensource": {

  "name": "Pawel Kozlowski",

  "picture": "pawel.jpg",

  "twitter": "pkozlowski_os",

  "bio": "Open source hacker, AngularJS book author, AngularUI lead developer. Pawel is an software-development addict who believes in free, open source software. He is a core contributor to the AngularJS framework, AngularUI, Karma-runner and several other projects. He is the co-author of the \"Mastering Web Application Development with AngularJS\" book. When not coding, Pawel can be spotted speaking at various software development conferences.",

  "groups": ["Angular"],

  "lead": "kara"

 },

 "devversion": {

  "name": "Paul Gschwendtner",

  "picture": "devversion.jpg",

  "twitter": "DevVersion",

  "website": "https://github.com/DevVersion",

  "bio": "Paul is a 17-year-old developer living in Germany. While he attends school, Paul works as a core team member on Angular Material. Paul focuses on tooling and building components for Angular.",

  "groups": ["Angular"],

  "lead": "kara"

 },

 "EladBezalel": {

    "name": "Elad Bezalel",
    "picture": "eladbezalel.jpg",
    "website": "https://github.com/EladBezalel",
    "bio": "Elad is a fullstack developer with a very strong love for design. Since 8 years old, he's been designing in Photoshop and later on fell in love with programing. This strong bond between design and computer programming gave birth to a new kind of love. And he is currently doing the combination of both, as a core member of the ngMaterial project.",
    "groups": ["GDE"]
  },
  "marclaval": {
    "name": "Marc Laval",
    "picture": "marclaval.jpg",
    "twitter": "marclaval",
    "website": "https://github.com/mlaval",
    "bio": "Marc is a manager at Amadeus where he leads the team in charge of developing and recommending UI frameworks for the company. He is also an open source developer and a contributor to Angular.",
    "groups": ["Angular"],
    "lead": "kara"
  },
  "wardbell": {
    "name": "Ward Bell",
    "picture": "wardbell.jpg",
    "website": "https://github.com/wardbell",
    "twitter": "wardbell",
    "bio": "Ward is an all-around developer with JavaScript, Node.js, and .net chops. He's a frequent conference speaker and podcaster, trainer, Google Developer Expert for Angular, Microsoft MVP, and PluralSight author. He is also president of IdeaBlade, an enterprise software consulting firm and the makers of breeze.js. He would like to get more sleep and spend more time in the mountains.",
    "groups": ["GDE"]
  },
  "Narretz": {
    "name": "Martin Staffa",
    "picture": "martinstaffa.jpg",
    "twitter": "Narretz",
    "bio": "Martin is an English major turned web developer who loves frontend stuff. He's been part of the AngularJS team since 2014. If you can't find him roaming the Github issue queues, he's probably out with his camera somewhere.",
    "groups": ["Angular"],
    "lead": "petebacondarwin"
  },
  "filipesilva": {
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    "bio": "Filipe is a passion-driven developer that always strives for the most elegant solution for each problem. He is currently an author for Angular.io, a core contributor for Angular-CLI and senior front end engineer at KonnectAgain. When not busy going through PRs, you can find him scouring reddit for new dinner recipes to cook

or enjoying a craft beer in Dublin.",
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  "bio": "George is a Software Engineer with a passion for chess, robotics and automating stuff. He has a strong need to know how things work (so if you already know, he'd love to have a talk with you). He has been a member of the AngularJS team since 2014. When not doing geeky stuff, he is probably trying to convince his wife and kids to apply programming principles in real life. (Or is it the other way around?)",
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children and doing outdoor activities (hiking, fishing, snowboarding, etc.).",
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  "bio": "Jeff Whelpley is a Google Developer Expert and the CTO of GetHuman. He is the co-organizer of the Angular Boston meetup group, co-creator of Angular Universal, former host of AngularAir and frequent speaker at Angular events.",
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  "name": "Ralph Wang",
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  "bio": "Ralph(Zhicheng Wang) is a senior consultant at ThoughtWorks and also a GDE. He is a technology

enthusiast and he is a passionate advocate of 'Simplicity, Professionalism and Sharing'. In his eighteen years of R&D career, he worked as tester, R&D engineer, project manager, product manager and CTO. He is immersed in the excitement of the arrival of the baby.",
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  "bio": "Wassim (aka manekinekko on Twitter/Github) is a Developer Advocate at SFEIR, in Web technologies (Angular, Polymer, PWA, Web Components...). He is also a Developer Expert in Web technologies nominated by Google. He enjoys writing technical articles, meeting developers at events, speaking at conferences and contributing to open source projects. Wassim loves the Web Platform and works hard to move it forward.",
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  "bio": "Chris is a Full Stack Developer at McKinsey. A Google Developer Expert in Web Technologies and Angular. He is also a Nativescript Developer Expert. He is one of the organizers of the Angular conference ngVikings and an author of the book RxJS 5 Ultimate",
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  "bio": "After more than 10 years working in the tech industry, Jorge is a full stack developer with focus on JavaScript technologies. Today, Jorge is working at Hero Devs using Angular / RxJS / Firebase as well as other technologies. He delivered several courses and talks as well as write some tech articles on these subjects. Because of that, he was recognised as a Google Developer Expert in Angular & web technologies and Nativescript Developer Expert.",
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  "website": "https://ultimateangular.com",
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  "bio": "Oslo-based web front-end engineer, a Google Developer Expert in Angular, Web technologies and IoT. Active public speaker & trainer for the developer events. Leader of Norways largest meetups dedicated to web front-end and mobile development. Founder of ngVikings and Mobile Era conferences. Progressive Web Apps advocate.",
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of the book 'Switching to Angular', codelyzer, Guess.js, and the Go linter revive. Working for faster and more
reliable software.",
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related technologies in his medium blog, and speaks about these topics in conferences and meetup around the world.
Among his interests are reverse engineering, hardware hacking, building 3d-printed robots and games, playing
music and Salsa dancing.",
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    "website": "http://techtam.io",
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Expert Program, passionate about teaching and building communities",
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    "bio": "Sander is a versed developer with over 4 decades of practice under his belt. He is also an Google
Developer Expert for web, specializing in Angular. Organizer of meetups and conferences. Helping out others
wherever he can. When he is not breathing code, he is fiddling around with IOT, photography, science and anything
that might vaguely is gadget-like! Thinks he a master of the grill, but in reality you probably don't get a food-
poisoning ;) Also, and actually the most important thing to him, he is a father of 4, and has the most patient
girlfriend in the universe.",
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performance e-commerce to international clients - most often build in Angular. He runs the local Angular usergroup
- ngAarhus, and gives talks/workshops around and beyond the country of Denmark.",
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projects (ocLazyLoad, ngx-translate), being a panelist at Angular-Air, giving talks or just chatting on Twitter and
Slack. Hes a member of the Angular Core team and works on i18n.",
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them to build high-performance web apps. In his spare time he's usually working on Videogular, involved in local
meetups, speaking at conferences and contributing to open source projects.",
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active as an engaged and passionate speaker on several software conferences and events all over the world. Some
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    people call him 'Mr. Cross-Platform'.",
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      "bio": "Teaches Angular at HiRez.io  the most entertaining online courses on the web. An experienced developer,
    consultant and speaker also known for his unusual crazy Angular talks such as ng-wat, ng-show, ng-rap, etc. Shai is
    also the organizer of the largest JavaScript group in Israel and a professional Improv performer.",
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      "bio": "Dan Wahlin founded Wahlin Consulting which provides consulting and onsite/online training services on
    Web technologies such as JavaScript, Angular, TypeScript, Node.js, C#, ASP.NET Core, Web API, and Docker.
    Hes also published many developer courses on Pluralsight.com and Udemy.com. Dan is a Google GDE, Docker
    Captain, and Microsoft MVP and Regional Director and speaks at conferences and user groups around the world.
    Dan has written several books on Web technologies, hundreds of technical articles and blog posts
    (https://blog.codewithdan.com) and runs the 'Code with Dan Web Weekly Newsletter' - a great way to stay up on the
    latest technologies. Follow Dan on Twitter @DanWahlin.",
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    He is an organizer of ng-conf, a Google Developer Expert in Angular, gives lots of talks & workshops, and loves all
    things web.",
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    about technology and active in communities with a focus on web development, including Angular, JavaScript,
    HTML5, CSS3, Workflow, web performance, security and Internet of things. Participates in events organization,
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Jecelyn specializes in professional application development with technologies, including Angular, HTML5,
Typescript, JavaScript, CSS, C#, NodeJs, Cloud and ASP.NET.",
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mobile web architecture. A speaker at various forums and mentor at Launchpad Accelerator and ngGirls India.
Spends free time playing with Angular, Preact, web-components ",
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   "website": "https://medium.com/@gerard.sans",
   "bio": "Gerard is very excited about the future of the Web and JavaScript. Always happy Computer Science
Engineer and humble Google Developer Expert. He loves to share his learnings by giving talks, trainings and
writing about cool technologies. He loves running AngularZone and GraphQL London, mentoring students and
giving back to the community.",
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   "bio": "Nir is a Principal Frontend Consultant & Head of the Angular department at 500Tech, Google Developer
Expert and community leader. He organizes the largest Angular meetup group in Israel (Angular-IL), talks and
teaches about front-end technologies around the world. He is also the author of two books about Angular and the
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   "bio": "Alain Chautard is a Google Developer Expert in Web Technologies / Angular. He started working with
Angular JS in 2011. Since then he has worked with all Angular versions on a daily basis, both as a developer and as
a technical trainer. He is the organizer of the Sacramento Angular Meetup group, co-organizer of the Google
Developer Group chapter in Sacramento, California, and published author of the Packt video course 'Getting Started
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   "bio": "Cory is a full time front end web developer. He works full time building responsive web applications and
progressive web apps. When not building web apps he is busy teaching Angular and other web technologies in
workshops and conferences. He loves the web and is optimistic of the places it can take us.",
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   "bio": "Mike is a Developer Advocate for the Ionic Framework and a GDE in Angular. He spends most of his time
making fast PWAs and exploring emerging web standards. When not behind a keyboard, you'll probably find him
with a guitar and beer.",
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   "bio": "Juri is a software engineer and freelance trainer and consultant currently mostly focusing on the frontend
side using JavaScript, TypeScript and Angular. He has a passion for teaching and sharing his knowledge and
experiences with others. This mostly happens by writing tech articles for his personal blog, by creating video
courses for Egghead.io, during on-site workshops at companies or by speaking at conferences. In his free time he
enjoys practicing Yoseikan Budo, a martial art where he currently owns the 3rd DAN black belt.",
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with different startups in US and EU to helps them crawl through the technical maze and quickly build amazing
products focused around the problems they are trying to solve. He specializes in using the latest web technologies
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    "bio": "Kim is an an Angular consultant, developer, speaker, writer, and Google Developer Expert. She is
passionate about learning from and sharing knowledge with other developers through blogging, speaking,
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    "website": "https://blog.kevinyang.net/",
    "bio": "Kevin is a Angular Taiwan, Angular Girls Taiwan community organzier. He loves sharing knowledge with
other developers through blogging, speaking, workshops.",
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makes use of his extensive knowledge over the past years to contribute to community to make the world a better
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"twitter": "psybercity",

"website": "https://mandarini.github.io/",

"bio": "Katerina is a front end software engineer, a conference speaker and AngularAthens meetup organizer. She is obsessed with sharing knowledge about things she loves. She is also trying to support diversity in the community. She lives with her cat in Athens.",

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"bio": "Brian is a software engineer and GDE in Angular with a passion for learning, writing, speaking, teaching and mentoring. Brian has been building web applications for over 20 years and has long been a fanboy of JavaScript. When not in front of his Macbook Pro Brian is in the Rocky Mountains skiing or hiking.",

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"name": "Jeff Cross",

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"website": "https://nrwl.io/",

"bio": "Jeff is an Angular Consultant at nrwl.io where he helps enterprise teams succeed with Angular. Prior to founding Nrwl, Jeff was one of the earliest members of the Angular Core Team at Google, and contributed to many of the early state management and performance efforts of AngularJS and Angular.",

"groups": ["GDE"]

},

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"twitter": "keillamenezes_",

"bio": "I am Senior Software Development Consultant in ThoughtWorks and GDE in Angular. Graduated in Computer Science from Federal University of Bahia, I have been worked with software development for more than 11 years. Since 2017, I started with Angular Framework and I went deep into front-end ecosystem and became more specialized in this area. I participate in a computer science community, Campinas Front-end, that promotes events in this area. In the end of 2016, I started to do technical talks. The passion for science is the engine that drives me to

seek answers to the problems that computing aims to solve. Besides that, sharing knowledge and experiences is the path I choose to democratize the technology for all.",
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  "website": "https://github.com/sis0k0",
  "bio": "Software engineer on the NativeScript team at Progress, focused on NativeScript Angular, NativeScript schematics, and integrating webpack in the {N} build system. Co-organizing the Angular Sofia meetup. Speaking about Angular things at conferences here and there.",
  "groups": ["GDE"]
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  "twitter": "sharondio",
  "website": "https://medium.com/@sharondio",
  "bio": "Sharon is a mother to four teenagers, wife of a USMC veteran/police officer, and lead front-end engineer for an educational non-profit in Boston. In her spare time, she is the \"Head Instigator\" of the Angular-Boston Meetup and an active member of the Boston meetups community. She occasionally speaks on Angular and related topics at technology conferences across the country. She has a Bachelor of Fine Arts from SMU and a Masters with honors from RTFM.",
  "groups": ["GDE"]
 },
 "leonardozizzamia": {
  "name": "Leonardo Zizzamia",
  "picture": "leonardo.jpg",
  "twitter": "zizzamia",
  "website": "https://medium.com/@zizzamia",
  "bio": "Leonardo is a Senior Software Engineer at Coinbase. He is deeply passionate about web performance and most recently developed Perfume.js to help companies prioritize roadmaps and business, through performance analytics. From 2018, co-organizer of the Angular San Francisco Meetup group and NGRome Conference.",
  "groups": ["GDE"]
 },
 "tomastrajan": {
  "name": "Tomas Trajan",
  "picture": "tomastrajan.jpg",
  "twitter": "tomastrajan",
  "website": "https://medium.com/@tomastrajan",
  "bio": "Tomas is a Senior Software Engineer with passion for frontend and especially Angular. He always strives to provide lots of value and to empower teams he is working with by sharing know-how, introducing best practices and automating mundane task to enable full focus on creating value for the users! He likes to share his Angular know-how by blogging, speaking and recording video content. He is a co-organizer of Angular Meetup Zurich.",
  "groups": ["GDE"]
 },
 "samjulien": {

    "name": "Sam Julien",

    "picture": "samjulien.jpg",

    "twitter": "samjulien",

    "website": "http://www.samjulien.com/",

    "bio": "Sam Julien builds software, articles, video courses, and campfires. A developer, speaker, writer, and GDE in the Pacific Northwest, Sam's favorite thing in the world is changing someone's life by teaching them to code.",

    "groups": ["Collaborators", "GDE"],

    "mentor": "gkalpak"

  },

  "JiaLiPassion": {

    "name": "JiaLi Passion",

    "groups": ["Collaborators"],

    "mentor": "mhevery",

    "picture": "JiaLiPassion.jpg",

    "bio": "A programmer with passion, angular/zone.js guy! Web frontend engineer @sylabs"

  },

  "cexbrayat": {

    "name": "Cdric Exbrayat",

    "mentor": "petebacondarwin",

    "groups": ["Collaborators"],

    "picture": "cexbrayat.jpg",

    "bio": "Author of `Become a ninja with Angular (2+)` https://books.ninja-squad.com/angular - Angular trainer and @Ninja-Squad co-founder"

  },

  "CaerusKaru": {

    "name": "Adam Plumer",

    "groups": ["Collaborators"],

    "mentor": "vikerman",

    "picture": "CaerusKaru.jpg"

  },

  "jbedard": {

    "name": "Jason Bedard",

    "groups": ["Collaborators"],

    "mentor": "kyliau",

    "picture": "jbedard.jpg"

  },

  "JoostK": {

    "name": "Joost Koehoorn",

    "groups": ["Collaborators"],

    "mentor": "alxhub",

    "picture": "joostk.jpg",

    "twitter": "devjoost",

    "bio": "Joost is a Software Engineer from the Netherlands with an interest in open source software who likes to learn something new every day. He works at Blueriq during the day and contributes to Angular in his spare time, by working on the Angular compiler and runtime. He may review your PR even if you never asked for it ;)"

  },

  "jschwarty": {

    "name": "Justin Schwartzenberger",

```
  "picture": "justinschwartzenberger.jpg",
  "twitter": "schwarty",
  "website": "https://schwarty.com",
  "bio": "Justin (aka Schwarty) is a Google Developer Expert in Web Technologies and Angular, the host and
maintainer of the weekly AngularAir live video broadcast, educator, writer and content creator. He has Angular
courses available on LinkedIn Learning and Pluralsight and loves passing on years of full stack development
knowledge to help empower others to find their inner awesomeness!",
  "groups": ["GDE"]
 },
 "brandonroberts": {
  "name": "Brandon Roberts",
  "picture": "brandonroberts.jpg",
  "twitter": "brandontroberts",
  "website": "https://brandonroberts.dev",
  "bio": "Brandon is a developer and technical writer working on guides, tutorials, application development, and
infrastructure for the Angular docs. He is also a maintainer of the NgRx project, building reactive libraries for
Angular.",
  "groups": ["Angular"],
  "lead": "dennispbrown"
 },
 "chembu": {
  "name": "Sreevani Sreejith",
  "picture": "sreevani.jpg",
  "bio": "Sreevani is a tech writer with prior programming experience. She writes documentation for the Angular
framework team. Outside of work, she likes practicing yoga, honing her skills on classical dance forms, and baking
cakes.",
  "groups": ["Angular"],
  "lead": "dennispbrown"
 },
 "dennispbrown": {
  "name": "Denny Brown",
  "picture": "denny.jpg",
  "bio": "Denny is founder of Expert Support, a professional services firm specializing in technical communication,
and leads the Angular technical writing team. His lifelong passion has been to reduce the time and effort required to
understand complex technical information. Early on, he was Associate Chairman of the Computer Science
Department at Stanford, where he taught introductory courses in programming. He also plays old-timers baseball in
local leagues and national tournaments.",
  "groups": ["Angular"],
  "lead": "bradlygreen"
 },
 "jbogarthyde": {
  "name": "Judy Bogart",
  "picture": "judy.png",
  "groups": ["Angular"],
  "lead": "dennispbrown"
 },
 "jenniferfell": {
  "name": "Jennifer Fell",
```

```
      "picture": "jennifer.jpg",
      "website": "http://silverpath.org",
      "bio": "Jennifer is a technical content strategist, architect, designer, and writer. As lead of the Angular docs team,
    she's always interested in learning more about how developers learn and use Angular. Her offline persona is a
    horsewoman in Idaho.",
      "groups": ["Angular"],
      "lead": "dennispbrown"
    },
    "kapunahelewong": {
      "name": "Kapunahele Wong",
      "picture": "kapunahele.jpg",
      "twitter": "kapunahele",
      "bio": "Kapunahele is a developer and Angular fan who works on the Angular docs writing guides and developing
    example apps. She also enjoys Native Hawaiian practices, textile arts, and marveling at little, inconspicuous plants
    growing in forgotten places outdoors.",
      "groups": ["Angular"],
      "lead": "dennispbrown"
    },
    "luixaviles": {
      "name": "Luis Aviles",
      "picture": "luixaviles.jpg",
      "twitter": "luixaviles",
      "website": "https://luixaviles.com",
      "bio": "Luis is an enthusiast of Open Source software and communities, as well as being a public speaker, a
    technology trainer and an author of courses and technical articles. He is the organizer of the Angular Bolivia
    community and NG Bolivia conference. When he's not coding, Luis is reading about Astronomy or nerding about
    outer space, photography or even doing Astrophotography.",
      "groups": ["GDE"]
    },
    "siddajmera": {
      "name": "Siddharth Ajmera",
      "picture": "sidd-ajmera.jpg",
      "twitter": "SiddAjmera",
      "website": "https://webstackup.com/",
      "bio": "Siddharth is a Full Stack JavaScript Developer and a GDE in Angular. He's passionate about sharing his
    knowledge on Angular, Firebase and the Web in general. He's the organizer of WebStack, a local community of
    developers focused on Web, Mobile, Voice and Server related technologies in general. WebStack hosts free monthly
    meetups every 2nd or 3rd Saturday of the month. Siddharth is also an avid photographer and loves traveling. Find
    him anywhere on the Web with `SiddAjmera`.",
      "groups": ["GDE"]
    },
    "bbrennan": {
      "name": "Bonnie Brennan",
      "twitter": "bonnster75",
      "groups": ["GDE"],
      "picture": "bonnie.jpg",
      "bio": "Bonnie has been specializing in Angular since 2013. She is the founder of ngHouston Angular Meetup and
    a regular panelist on Angular Air. She is also the very proud parent component of @thelittlestdev!"
```

```
        },
        "globegitter": {
          "name": "Markus Padourek",
          "groups": ["Collaborators"],
          "mentor": "gregmagolan",
          "picture": "globegitter.jpg"
        },
        "ahsanayaz": {
          "name": "Muhammad Ahsan Ayaz",
          "picture": "ahsanayaz.jpg",
          "twitter": "ahsan_ayz",
          "website": "https://medium.com/@ahsan.ayaz",
          "bio": "Muhammad Ahsan Ayaz is Software Architect at Modus Create. He is absolutely passionate about Angular
and Web Technologies. Uses Angular daily and talks about it everywhere. Runs NodeSchool Karachi and is a co-
organizer of NgPakistan",
          "groups": ["GDE"]
        },
        "andrewkushnir": {
          "name": "Andrew Kushnir",
          "picture": "andrew-kushnir.jpg",
          "bio": "Andrew is a software engineer at Google on the Angular Core team.",
          "groups": ["Angular"],
          "lead": "kara"
        },
        "kamilmysliwiec": {
          "name": "Kamil Mysliwiec",
          "picture": "kamilmysliwiec.jpg",
          "twitter": "kammysliwiec",
          "website": "https://github.com/kamilmysliwiec",
          "bio": "Kamil Mysliwiec is a software engineer truly passionate about Web Technologies. Creator of NestJS, Co-
Founder of Trilon.io, speaker, and trainer.",
          "groups": ["GDE"]
        }
      }
import { NgModule, Type } from '@angular/core';
import { CommonModule } from '@angular/common';
import { MatIconModule } from '@angular/material/icon';
import { ContributorListComponent } from './contributor-list.component';
import { ContributorService } from './contributor.service';
import { ContributorComponent } from './contributor.component';
import { WithCustomElementComponent } from '../element-registry';

@NgModule({
  imports: [ CommonModule, MatIconModule ],
  declarations: [ ContributorListComponent, ContributorComponent ],
  entryComponents: [ ContributorListComponent ],
  providers: [ ContributorService ]
})
```

```
export class ContributorListModule implements WithCustomElementComponent {
 customElementComponent: Type<any> = ContributorListComponent;
}
#!/usr/bin/env node

// Imports
const {existsSync, readFileSync} = require('fs');
const {join, resolve} = require('path');

// Constants
const CONTENT_DIR = resolve(__dirname, '../../content');
const IMAGES_DIR = join(CONTENT_DIR, 'images/bios');
const CONTRIBUTORS_PATH = join(CONTENT_DIR, 'marketing/contributors.json');

// Run
_main();

// Functions - Definitions
function _main() {
 const contributors = JSON.parse(readFileSync(CONTRIBUTORS_PATH, 'utf8'));
 const expectedImages = Object.keys(contributors)
    .filter(key => !!contributors[key].picture)
    .map(key => join(IMAGES_DIR, contributors[key].picture));
 const missingImages = expectedImages.filter(path => !existsSync(path));

 if (missingImages.length > 0) {
  throw new Error(
     'The following pictures are referenced in \'contributors.json\' but do not exist:' +
     missingImages.map(path => `\n  - ${path}`).join(''));
 }
}
```

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* Copyright Google Inc. All Rights Reserved.
*
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* found in the LICENSE file at https://angular.io/license
*/

'use strict';

// THIS CHECK SHOULD BE THE FIRST THING IN THIS FILE

```javascript
// This is to ensure that we catch env issues before we error while requiring other dependencies.
const engines = require('./package.json').engines;
require('./tools/check-environment')({
 requiredNodeVersion: engines.node,
 requiredNpmVersion: engines.npm,
 requiredYarnVersion: engines.yarn
});

const gulp = require('gulp');

// See `tools/gulp-tasks/README.md` for information about task loading.
function loadTask(fileName, taskName) {
 const taskModule = require('./tools/gulp-tasks/' + fileName);
 const task = taskName ? taskModule[taskName] : taskModule;
 return task(gulp);
}

// Check source code for formatting errors in all source files.
gulp.task('format:enforce', loadTask('format', 'enforce'));

// Format all source files.
gulp.task('format:all', loadTask('format', 'format'));

// Format only untracked source code files.
gulp.task('format:untracked', loadTask('format', 'format-untracked'));

// Format only the changed, tracked source code files.
gulp.task('format:diff', loadTask('format', 'format-diff'));

// Format only changed lines based on the diff from the provided --branch
// argument (or `master` by default).
gulp.task('format:changed', ['format:untracked', 'format:diff']);

// Alias for `format:changed` that formerly formatted all files.
gulp.task('format', ['format:changed']);

gulp.task('lint', ['format:enforce', 'validate-commit-messages', 'tslint']);
gulp.task('tslint', ['tools:build'], loadTask('lint'));
gulp.task('validate-commit-messages', loadTask('validate-commit-message'));
gulp.task('source-map-test', loadTask('source-map-test'));
gulp.task('tools:build', loadTask('tools-build'));
gulp.task('check-cycle', loadTask('check-cycle'));
gulp.task('serve', loadTask('serve', 'default'));
gulp.task('changelog', loadTask('changelog'));
gulp.task('check-env', () => {/* this is a noop because the env test ran already above */});
gulp.task('cldr:extract', loadTask('cldr', 'extract'));
gulp.task('cldr:download', loadTask('cldr', 'download'));
gulp.task('cldr:gen-closure-locale', loadTask('cldr', 'closure'));
```

```
import { Component, OnInit } from '@angular/core';
import { ContributorGroup } from './contributors.model';
import { ContributorService } from './contributor.service';
import { LocationService } from 'app/shared/location.service';

@Component({
selector: `aio-contributor-list`,
template: `
<div class="flex-center group-buttons">
  <a *ngFor="let name of groupNames"
    [class.selected]="name == selectedGroup.name"
    class="button mat-button filter-button"
    (click)="selectGroup(name)">{{name}}</a>
</div>
<section *ngIf="selectedGroup" class="grid-fluid">
  <div class="contributor-group">
    <aio-contributor *ngFor="let person of selectedGroup.contributors" [person]="person"></aio-contributor>
  </div>
</section>`
})
export class ContributorListComponent implements OnInit {
private groups: ContributorGroup[];
groupNames: string[];
selectedGroup: ContributorGroup;

constructor(
  private contributorService: ContributorService,
  private locationService: LocationService) { }

ngOnInit() {
  const groupName =  this.locationService.search()['group'] || '';
  // no need to unsubscribe because `contributors` completes
  this.contributorService.contributors
    .subscribe(grps => {
      this.groups = grps;
      this.groupNames = grps.map(g => g.name);
      this.selectGroup(groupName);
    });
}

selectGroup(name: string) {
  name = name.toLowerCase();
  this.selectedGroup = this.groups.find(g => g.name.toLowerCase() === name) || this.groups[0];
  this.locationService.setSearch('', {group: this.selectedGroup.name});
}
}
/**
 * @license Angular v0.0.0-PLACEHOLDER
```

```
* (c) 2010-2019 Google LLC. https://angular.io/
* License: MIT
*/
export interface ContributorGroup {
 name: string;
 order: number;
 contributors: Contributor[];
}

export interface Contributor {
 groups: string[];
 name: string;
 picture?: string;
 website?: string;
 twitter?: string;
 bio?: string;
 isFlipped?: boolean;
}
# Produces a GraphViz Dot file from the data in the contributors.json file.
# Documentation for this syntax at https://stedolan.github.io/jq/manual
to_entries
| map(select(
 (.value.groups | index("Angular")) or
 (.value.groups | index("Collaborators"))))
| map(.value |= {
 name: .name,
 lead: (.lead // .mentor // ""),
 fillcolor: (if .groups | index("Collaborators") then "aquamarine" else "beige" end),
})
| map(
  "\(.key|tojson) [ label=\(.value.name|tojson) fillcolor=\(.value.fillcolor|tojson) style=filled ] ",
  (if .value.lead != "" then "\(.key|tojson) -> \(.value.lead|tojson)" else "" end)
 )
[]
```

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