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Contents

1.1 ftpserver-core 1.0.6

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1.2 jsoup 1.10.2

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1.12 spring-boot-starter-jetty 1.5.2.RELEASE

1.13 spring-boot-starter-data-jpa 1.5.2.RELEASE

1.14 libpcap 1.5.3 December 18, 2013

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#

Calling this script install-sh is preferred over install.sh, to prevent

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when there is no Makefile.

#

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```
*
* @(#) $Header: /tcpdump/master/libpcap/pcap-bpf.h,v 1.50 2007-04-01 21:43:55 guy Exp $ (LBL)
*/
```

1.15 ngx-charter 0.0.7

1.16 core-js 2.5.7
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1.18 jspdf 1.5.3

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The basic library functions are written in C and are freestanding. Also included in the distribution is a set of C++ wrapper functions.

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Nmap and the other tools distributed with it. What follows is a
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On all platforms, Nmap is normally linked with:
o libpcap: Network packet capture library. Distributed with Nmap in the
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  is in the file NMAP_MODIFICATIONS.
  http://code.google.com/p/libdnet/
o PCRE: Perl-compatible regular expressions. PCRE is part of Nmap's
  version detection and is also made available as an NSE library.
  Distributed with Nmap in the libpcre subdirectory.
  http://www.pcre.org/
o liblua: Lua programming language. Lua is the implementation language
  of NSE, the Nmap Scripting Engine. Nmap links with liblua to allow
  running Lua programs inside Nmap. Distributed with Nmap in the liblua
  subdirectory. liblua can be omitted by configuring with the
  --without-liblua configuration directive.
  http://www.lua.org/
o OpenSSL: Cryptographic library. OpenSSL is used by service detection
  and by NSE to connect to SSL services. NSE also provides access to
  OpenSSL functions such as encryption and digest calculation. OpenSSL
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  http://www.openssl.org/
o LIBLINEAR. Used for IPv6 OS classifiction.
  http://www.csie.ntu.edu.tw/~cjlin/liblinear/
o libsvn. The Subversion library, used by the updater program
  nmap-update. http://subversion.apache.org/
o APR (Apache Portable Runtime). Used by libsvn. http://apr.apache.org/

On Windows only, Nmap uses:
o WinPcap: libpcap for Windows. The libpcap license applies to WinPcap,
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  distributed with Nmap in the subdirectory mswin32/winpcap.
  http://www.winpcap.org/

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o Python. The binary distributions of Nmap include a Python interpreter
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o libpng, jpeg, LibTIFF: Image file format libraries used by GTK+.
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o zlib and bzip2: compression libraries.
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o Expat: XML parser library.
  http://expat.sourceforge.net/

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  http://www.fontconfig.org/

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  http://www.freetype.org/

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o libintl: gettext translation facilities. Under the GNU LGPL 2 and 2.1.
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o PyGTK, PyGObject: bindings for Python. Licensed under the GNU LGPL
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  (For example, a function in a library to compute square roots has
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For an executable, the required form of the "work that uses the
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  b) You must cause the files modified to carry prominent notices
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  d) If a facility in the modified Library refers to a function or a
  table of data to be supplied by an application program that uses
  the facility, other than as an argument passed when the facility
  is invoked, then you must make a good faith effort to ensure that,
  in the event an application does not supply such function or
  table, the facility still operates, and performs whatever part of
  its purpose remains meaningful.

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

These requirements apply to the modified work as a whole. If
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on the Library, the distribution of the whole must be on the terms of
this License, whose permissions for other licensees extend to the
entire whole, and thus to each and every part regardless of who wrote
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Thus, it is not the intent of this section to claim rights or contest
your rights to work written entirely by you; rather, the intent is to
exercise the right to control the distribution of derivative or
collective works based on the Library.

In addition, mere aggregation of another work not based on the Library
with the Library (or with a work based on the Library) on a volume of
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 3. You may opt to apply the terms of the ordinary GNU General Public
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 Once this change is made in a given copy, it is irreversible for
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 This option is useful when you wish to copy part of the code of
the Library into a program that is not a library.

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

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

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

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

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

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

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

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

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

  a) Accompany the work with the complete corresponding
  machine-readable source code for the Library including whatever

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

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

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than the cost of performing this distribution.

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

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

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reproducing the executable from it. However, as a special exception,
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use both them and the Library together in an executable that you
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the Library and of the other library facilities is otherwise
permitted, and provided that you do these two things:

  a) Accompany the combined library with a copy of the same work
  based on the Library, uncombined with any other library
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  Sections above.

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  that part of it is a work based on the Library, and explaining
  where to find the accompanying uncombined form of the same work.

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When a program is linked with a library, whether statically or using
a shared library, the combination of the two is legally speaking a
combined work, a derivative of the original library. The ordinary
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entire combination fits its criteria of freedom. The Lesser General
Public License permits more lax criteria for linking other code with
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We call this license the "Lesser" General Public License because it
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Public License. It also provides other free software developers Less
of an advantage over competing non-free programs. These disadvantages
are the reason we use the ordinary General Public License for many
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A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

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

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In addition, mere aggregation of another work not based on the Library
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 3. You may opt to apply the terms of the ordinary GNU General Public
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 Once this change is made in a given copy, it is irreversible for
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 This option is useful when you wish to copy part of the code of
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 4. You may copy and distribute the Library (or a portion or
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it with the complete corresponding machine-readable source code, which
must be distributed under the terms of Sections 1 and 2 above on a
medium customarily used for software interchange.

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

5. A program that contains no derivative of any portion of the
Library, but is designed to work with the Library by being compiled or
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However, linking a "work that uses the Library" with the Library
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When a "work that uses the Library" uses material from a header file
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Whether this is true is especially significant if the work can be
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If such an object file uses only numerical parameters, data
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Otherwise, if the work is a derivative of the Library, you may
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Any executables containing that work also fall under Section 6,
whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or
link a "work that uses the Library" with the Library to produce a
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executable containing the modified Library. (It is understood
that the user who changes the contents of definitions files in the
Library will not necessarily be able to recompile the application
to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the
Library. A suitable mechanism is one that (1) uses at run time a
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1.21 flink-streaming-java 1.2.0

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1.24 tcp-dump 4.9.2 0ubuntu0.16.04.1

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1.25 flinkconnectorkafka 1.2.0

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1.26 jewelcli 0.8.2

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1.28 angular 1.5.9

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1.29 commons-io 2.5

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<!DOCTYPE html>
<html lang="en">
<head>
 <meta charset="utf-8">
 <meta http-equiv="X-UA-Compatible" content="IE=edge">
 <meta name="viewport" content="width=device-width, initial-scale=1">
 <meta name="description" content="Home page of The Apache Software Foundation">

 <link rel="apple-touch-icon" sizes="57x57" href="/favicons/apple-touch-icon-57x57.png">
 <link rel="apple-touch-icon" sizes="60x60" href="/favicons/apple-touch-icon-60x60.png">
 <link rel="apple-touch-icon" sizes="72x72" href="/favicons/apple-touch-icon-72x72.png">
 <link rel="apple-touch-icon" sizes="76x76" href="/favicons/apple-touch-icon-76x76.png">
 <link rel="apple-touch-icon" sizes="114x114" href="/favicons/apple-touch-icon-114x114.png">
 <link rel="apple-touch-icon" sizes="120x120" href="/favicons/apple-touch-icon-120x120.png">
 <link rel="apple-touch-icon" sizes="144x144" href="/favicons/apple-touch-icon-144x144.png">
 <link rel="apple-touch-icon" sizes="152x152" href="/favicons/apple-touch-icon-152x152.png">
 <link rel="apple-touch-icon" sizes="180x180" href="/favicons/apple-touch-icon-180x180.png">
 <link rel="icon" type="image/png" href="/favicons/favicon-32x32.png" sizes="32x32">
 <link rel="icon" type="image/png" href="/favicons/favicon-194x194.png" sizes="194x194">
 <link rel="icon" type="image/png" href="/favicons/favicon-96x96.png" sizes="96x96">
 <link rel="icon" type="image/png" href="/favicons/android-chrome-192x192.png" sizes="192x192">
 <link rel="icon" type="image/png" href="/favicons/favicon-16x16.png" sizes="16x16">
 <link rel="manifest" href="/favicons/manifest.json">
 <link rel="shortcut icon" href="/favicons/favicon.ico">
 <meta name="msapplication-TileColor" content="#603cba">
 <meta name="msapplication-TileImage" content="/favicons/mstile-144x144.png">
 <meta name="msapplication-config" content="/favicons/browserconfig.xml">

```
<meta name="theme-color" content="#303284">

<title>Apache License, Version 2.0</title>
<link href='https://fonts.googleapis.com/css?family=Source+Sans+Pro:400,700%7cDroid+Serif:400,700'
rel='stylesheet' type='text/css'>
<link href="/css/min.bootstrap.css" rel="stylesheet">
<link href="/css/styles.css" rel="stylesheet">


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permissions and limitations under the License. -->

</head>

<body>
<!-- Navigation -->
<header>
 <nav class="navbar navbar-default navbar-fixed-top">
  <div class="container">
   <div class="navbar-header">
    <button class="navbar-toggle" type="button" data-toggle="collapse" data-target="#mainnav-collapse">
     <span class="sr-only">Toggle navigation</span>
     <span class="icon-bar"></span>
     <span class="icon-bar"></span>
     <span class="icon-bar"></span>
    </button>
    <a href="#" class="navbar-brand"><span class="glyphicon glyphicon-home"></span></a>
   </div>
   <div class="collapse navbar-collapse" id="mainnav-collapse">
    <div style="line-height:20px; padding-top:5px; float:left"><a href="/">Home</a> &raquo <a
href="/licenses/">Licenses</a></div>
    <ul class="nav navbar-nav navbar-right">
     <li class="dropdown">
      <a href="#" class="dropdown-toggle" data-toggle="dropdown">About <span class="caret"></span></a>
      <ul class="dropdown-menu" role="menu">
      <li><a href="/foundation">Overview</a></li>
      <li><a href="/foundation/members.html">Members</a></li>
      <li><a href="/foundation/how-it-works.html">Process</a></li>
      <li><a href="/foundation/sponsorship.html">Sponsorship</a></li>
      <li><a href="/foundation/glossary.html">Glossary</a></li>
      <li><a href="/foundation/preFAQ.html">FAQ</a></li>
      <li><a href="/foundation/contact.html ">Contact</a></li>
```

```
          </ul>
        </li>
    <li><a href="/index.html#projects-list">Projects</a></li>
      <li class="dropdown">
        <a href="#" class="dropdown-toggle" data-toggle="dropdown">People <span class="caret"></span></a>
        <ul class="dropdown-menu" role="menu">
      <li><a href="http://people.apache.org/">Overview</a></li>
      <li><a href="http://people.apache.org/committer-index.html">Committers</a></li>
      <li><a href="/foundation/how-it-works.html#meritocracy">Meritocracy</a></li>
      <li><a href="/foundation/how-it-works.html#roles">Roles</a></li>
      <li><a href="http://planet.apache.org/">Planet Apache</a></li>
        </ul>
        </li>
      <li class="dropdown">
        <a href="#" class="dropdown-toggle" data-toggle="dropdown">Get Involved <span
class="caret"></span></a>
        <ul class="dropdown-menu" role="menu">
          <li><a href="/foundation/getinvolved.html">Overview</a></li>
      <li><a href="http://community.apache.org/">Community Development</a></li>
            <li><a href="http://helpwanted.apache.org/">Help Wanted</a></li>
      <li><a href="http://www.apachecon.com/">ApacheCon</a></li>
         </ul>
    </li>
      <li><a href="/dyn/closer.cgi">Download</a></li>
      <li class="dropdown">
        <a href="#" class="dropdown-toggle" data-toggle="dropdown">Support Apache <span
class="caret"></span></a>
        <ul class="dropdown-menu" role="menu">
      <li><a href="/foundation/sponsorship.html">Sponsorship</a></li>
      <li><a href="/foundation/contributing.html">Donations</a></li>
      <li><a href="/foundation/buy_stuff.html">Buy Stuff</a></li>
      <li><a href="/foundation/thanks.html">Thanks</a></li>
         </ul>
        </li>
       </ul>
      </div>
     </div>
  </nav>
</header>
<!-- / Navigation -->
<div class="container">
 <div class="row">
  <div class="col-md-9 col-sm-8 col-xs-12">
   <img src="/img/asf_logo.png" alt="Apache Logo" style="max-width: 100%;">
  <a href="http://apache.org/foundation/contributing.html" title="Support Apache" style="margin-left: 150px;">
   <img src="/images/SupportApache-small.png" style="height: 150px; width: 150px;">
  </a>
  </div>
```

```
    <div class="col-md-3 col-sm-4 col-xs-12">
      <div class="input-group" style="margin-bottom: 5px;">
     <script>
 (function() {
   var cx = '005703438322411770421:5mgshgrgx2u';
   var gcse = document.createElement('script');
   gcse.type = 'text/javascript';
   gcse.async = true;
   gcse.src = (document.location.protocol == 'https:' ? 'https:' : 'http:') +
      '//cse.google.com/cse.js?cx=' + cx;
   var s = document.getElementsByTagName('script')[0];
   s.parentNode.insertBefore(gcse, s);
 })();
</script>
      <gcse:searchbox-only></gcse:searchbox-only>
      </div>
    <a role="button" class="btn btn-block btn-default btn-xs" href="/foundation/governance/">The Apache Way</a>
    <a role="button" class="btn btn-block btn-default btn-xs"
href="https://community.apache.org/contributors/">Contribute</a>
    <a role="button" class="btn btn-block btn-default btn-xs" href="/foundation/thanks.html">ASF Sponsors</a>
      </div>
  </div>
</div>
<div class="container"><style type="text/css">
/* The following code is added by mdx_elementid.py
  It was originally lifted from http://subversion.apache.org/style/site.css */
/*
* Hide class="elementid-permalink", except when an enclosing heading
* has the :hover property.
*/
.headerlink, .elementid-permalink {
 visibility: hidden;
}
h2:hover > .headerlink, h3:hover > .headerlink, h1:hover > .headerlink, h6:hover > .headerlink, h4:hover >
.headerlink, h5:hover > .headerlink, dt:hover > .elementid-permalink { visibility: visible }</style>
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```

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title="Permanent link">&para;</h1>
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</pre></div></div>

<!-- Footer -->

<footer class="bg-primary">
 <div class="container">
  <div class="row">

   <div class="col-sm-1">

   </div>
   <div class="col-sm-2">
       <h5 class="white">Community</h5>
       <ul class="list-unstyled white" role="menu">
    Overview
    Conferences
    Summer of Code
    Getting Started
    The Apache Way
    Travel Assistance
    Get Involved
    Community FAQ
    Memorials

   </div>

   <div class="col-sm-2">
    <h5 class="white">Innovation</h5>
       <ul class="list-unstyled white" role="menu">

```
<li><a href="http://incubator.apache.org/">Incubator</a></li>
<li><a href="http://labs.apache.org/">Labs</a></li>
<li><a href="/licenses/">Licensing</a></li>
<li><a href="/foundation/license-faq.html">Licensing FAQ</a></li>
<li><a href="/foundation/marks/">Trademark Policy</a></li>
<li><a href="/foundation/contact.html">Contacts</a></li>
    </ul>
</div>

<div class="col-sm-2">
<h5 class="white">Tech Operations</h5>
    <ul class="list-unstyled white" role="menu">
  <li><a href="/dev/">Developer Information</a></li>
  <li><a href="/dev/infrastructure.html">Infrastructure</a></li>
  <li><a href="/security/">Security</a></li>
  <li><a href="http://status.apache.org">Status</a></li>
  <li><a href="/foundation/contact.html">Contacts</a></li>
     </ul>
</div>

<div class="col-sm-2">
<h5 class="white">Press</h5>
   <ul class="list-unstyled white" role="menu">
 <li><a href="/press/">Overview</a></li>
 <li><a href="https://blogs.apache.org/">ASF News</a></li>
 <li><a href="https://blogs.apache.org/foundation/">Announcements</a></li>
 <li><a href="https://twitter.com/TheASF">Twitter Feed</a></li>
 <li><a href="/press/#contact">Contacts</a></li>
   </ul>
</div>

<div class="col-sm-2">
<h5 class="white">Legal</h5>
   <ul class="list-unstyled white" role="menu">
 <li><a href="/legal/">Legal Affairs</a></li>
 <li><a href="/licenses/">Licenses</a></li>
 <li><a href="/foundation/marks/">Trademark Policy</a></li>
 <li><a href="/foundation/records/">Public Records</a></li>
     <li><a href="/foundation/policies/privacy.html">Privacy Policy</a></li>
 <li><a href="/licenses/exports/">Export Information</a></li>
 <li><a href="/foundation/license-faq.html">License/Distribution FAQ</a></li>
 <li><a href="/foundation/contact.html">Contacts</a></li>
   </ul>
</div>

<div class="col-sm-1">
</div>
```

```
      </div>
    <hr class="col-lg-12 hr-white" />
    <div class="row">
    <div class="col-lg-12">
      <p class="text-center">Copyright &#169; 2017 The Apache Software Foundation, Licensed under the <a
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        <p class="text-center">Apache and the Apache feather logo are trademarks of The Apache Software
Foundation.</p>
      </div>
     </div>
    </div>

  </footer>


  <!-- / Footer -->


  <script src="/js/jquery-2.1.1.min.js"></script>
  <script src="/js/bootstrap.js"></script>
  </body>
  </html>
```

1.30 commons-codec 1.9

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*/

1.31 rxjs 5.5.2

1.31.1 Available under license :

```
var fs = require('fs');
var dist = require('minimist')(process.argv).dist;
var license = require('minimist')(process.argv).license;

function addLicenseToFile (license, destination) {
 if (!license) {
   throw new Error('license path is required as 1st argument');
 }

 addLicenseTextToFile(fs.readFileSync(license).toString(), destination);
}

function addLicenseTextToFile(licenseText, destination) {
 if (!destination) {
   throw new Error('destination file path is required as 2nd argument');
 }

 fs.writeFileSync(destination, `/**
 @license
 ${licenseText}
**/
```

```
${fs.readFileSync(`${destination}`).toString()}
`);
}

module.exports = {
 addLicenseToFile: addLicenseToFile,
 addLicenseTextToFile: addLicenseTextToFile
};
```

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1.35 html2canvas 1.0.0-rc.4

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+GJ{e^M!TsC@1Rk_aB(FQ5QTbUE(FQ5QTbUh(
A`.oIENDB`
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" md-button>
               View Bio
            </a>
            <a *ngIf="person.twitter" md-button class="icon"
               href="https://twitter.com/{{person.twitter}}" target="_blank" (click)="$event.stopPropagation()">
               <span class="fa fa-twitter fa-2x"></span>
            </a>
            <a *ngIf="person.website" md-button class="icon"
               href="{{person.website}}" target="_blank" (click)="$event.stopPropagation()">
               <span class="fa fa-link fa-2x"></span>
            </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) {
   person.isFlipped = !person.isFlipped;
```

```
  }
}
export class ContributorGroup {
 name: string;
 order: number;
 contributors: Contributor[];
}

export class Contributor {
 group: string;
 name: string;
 picture?: string;
 website?: string;
 twitter?: string;
 bio?: string;
 isFlipped ? = false;
}
{
 "misko": {
   "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.",
   "group": "Angular"
 },

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   "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).",
   "group": "Angular"
 },

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   "twitter": "naomitraveller",
   "website": "http://google.com/+NaomiBlack",
   "bio": "Naomi is Angular's TPM generalist and jack-of-all-trades. She supports Angular's internal Google users
and solves hard-to-define problems. She's been at Google since 2006, as a technical program manager on projects
```

ranging from Accessibility to Google Transit. She fights daleks in her spare time.",
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  },

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    "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.",
    "group": "Angular"
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  "juleskremer": {
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    "picture": "juleskremer.jpg",
    "twitter": "jules_kremer",
    "website": "https://plus.google.com/+JulesKremer",
    "bio": "Jules is Head of Angular Developer Relations at Google. When not working with developers, Jules is often bending into pretzel-like shapes, creating paths through thick jungle with a machete or drinking really awesome beer.",
    "group": "Angular"
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  "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.",
    "group": "Angular"
  },

  "pete": {
    "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.",
    "group": "Angular"
  },

"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.",
  "group": "Angular"
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"robwormald": {
  "name": "Rob Wormald",
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  "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.",
  "group": "Angular"
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"tobias": {
  "name": "Tobias Bosch",
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  "twitter": "tbosch1009",
  "website": "https://plus.google.com/+TobiasBosch",
  "bio": "Tobias Bosch is a software engineer at Google. He is part of the Angular core team and works on
Angular.",
  "group": "Angular"
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"rado": {
  "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).",
  "group": "Angular"
},

"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.",
    "group": "Angular"
  },

  "martinprobst": {
    "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.",
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  "julieralph": {
    "name": "Julie Ralph",
    "picture": "julie-ralph.jpg",
    "twitter": "SomeJulie",
    "website": "https://plus.google.com/+JulieRalph",
    "bio": "Julie Ralph works as a Software Engineer in Test at Google in Seattle and is the lead developer on the Angular end-to-end testing framework Protractor.",
    "group": "Angular"
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  "alexrickabaugh": {
    "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.",
    "group": "Angular"
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  "matias": {
    "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.",
  "group": "Angular"
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 "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.",
  "group": "Angular"
 },

 "kara": {
  "name": "Kara Erickson",
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  "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.",
  "group": "Angular"
 },

 "chuckj": {
  "name": "Chuck Jazdzewski",
  "picture": "chuckj.jpg",
  "twitter": "chuckjaz",
  "website": "http://removingalldoubt.com",
  "bio": "Chuck is a Software Engineer on the Angular team at Google. He is a programming language geek, UI framework and component library veteran, and has a passion for simplifying the task of programming. Before Google, he worked at Microsoft and Borland.",
  "group": "Angular"
 },

 "vikram": {
  "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.",
  "group": "Angular"
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"maxsills": {
  "name": "Max Sills",
  "picture": "max-sills.jpg",
  "twitter": "angularjs",
  "website": "http://google-opensource.blogspot.com/",
  "bio": "Max Sills is Angular's Open Source lawyer.",
  "group": "Angular"
},

"pawel": {
  "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.",
  "group": "Angular"
},

"paulgschwendtner": {
  "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.",
  "group": "Angular"
},

"elad": {
  "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.",
  "group": "Angular"
},

"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.",

    "group": "Angular"
   },

   "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.",
    "group": "Angular"
   },

   "martinstaffa": {
    "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.",
    "group": "Angular"
   },

   "filipesilva": {
    "name": "Filipe Silva",
    "picture": "filipe-silva.jpg",
    "twitter": "filipematossilv",
    "website": "http://github.com/filipesilva",
    "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.",
    "group": "Angular"
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   "andrewseguin": {
    "name": "Andrew Seguin",
    "picture": "andrewseguin.jpg",
    "website": "http://github.com/andrewseguin",
    "bio": "Andrew is an engineer on the Angular Material team working on bringing material components to the world. When hes not obsessing over pixels and design, he is probably off somewhere having adventures with his wife and daughters.",
    "group": "Angular"
   },

   "jesusrodriguez": {

     "name": "Jess Rodrguez",
  "picture": "jesus-rodriguez.jpg",
  "twitter": "foxandxss",
  "website": "http://angular-tips.com",
  "bio": "Jesus is an open source lover, a book author and editor, and AngularUI lead developer. He is currently a core contributor to the UI Bootstrap project.",
  "group": "Angular"
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 "crisbeto": {
  "name": "Kristiyan Kostadinov",
  "picture": "crisbeto.jpg",
  "website": "http://crisbeto.com/",
  "bio": "Kristiyan is a front-end developer, passionate open-source contributor and a core team member on Angular Material.",
  "group": "Angular"
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 "gkalpak": {
  "name": "Georgios Kalpakas",
  "picture": "gkalpak.jpg",
  "twitter": "gkalpakas",
  "website": "https://github.com/gkalpak",
  "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?)",
  "group": "Angular"
 },
 "mmalerba": {
  "name": "Miles Malerba",
  "picture": "mmalerba.jpg",
  "bio": "Miles is a software engineer on the Angular Material team at Google. In addition to Javascripting he enjoys eating food and ogling cute puppies.",
  "group": "Angular"
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 "jasonaden": {
  "name": "Jason Aden",
  "picture": "jasonaden.jpg",
  "bio": "Jason is a software engineer at Google on the Angular Core team. He is enthusiastic about Angular and application development in the modern age. In his free time Jason enjoys spending time with his wife and four children and doing outdoor activities (hiking, fishing, snowboarding, etc.).",
  "group": "Angular"
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 "jeffwhelpley": {
  "name": "Jeff Whelpley",

  "picture": "jeffwhelpley.jpg",

  "twitter": "jeffwhelpley",

  "website": "https://medium.com/@jeffwhelpley",

  "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.",

  "group": "GDE"

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 "pascalprecht": {

  "name": "Pascal Precht",

  "picture": "pascalprecht.jpg",

  "website": "https://twitter.com/PascalPrecht",

  "bio": "Pascal is a software engineer, author and Google Developer Expert for the Angular team. He loves contributing to open source and is the creator of the popular angular-translate module. In his spare time hes fiddling with EDM production.",

  "group": "GDE"

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 "deborah": {

  "name": "Deborah Kurata",

  "picture": "deborah.jpg",

  "twitter": "deborahkurata",

  "website": "http://blogs.msmvps.com/deborahk/",

  "bio": "Deborah is a software developer, author, and Google Developer Expert. She is author of several Pluralsight courses including: 'Angular 2: Getting Started' and Angular Routing",

  "group": "GDE"

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 "alyssa": {

  "name": "Alyssa Nicoll",

  "picture": "mickey_mouse.jpg",

  "twitter": "alyssanicoll",

  "website": "alyssa.io",

  "bio": "I am an energetic, ber passionate GDE and Web Dev. I have some Front-End and Angular courses on Egghead.io and Code School. I love to learn new things and share them with others. I Scuba Dive and have a toothless dog named 'Gummy'. My DM is always open, come talk sometime.",

  "group": "GDE"

 },

 "ralph": {

  "name": "Ralph Wang",

  "picture": "ralph.jpg",

  "twitter": "ralph_wang_gde",

  "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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  "wassim": {
   "name": "Wassim Chegham",
   "picture": "wassim.jpg",
   "twitter": "manekinekko",
   "website": "https://medium.com/@wassimchegham",
   "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.",
   "group": "GDE"
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  "chrisnoring": {
   "name": "Christoffer Noring",
   "picture": "chrisnoring.jpg",
   "twitter": "chris_noring",
   "website": "softchris.github.io",
   "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",
   "group": "GDE"
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  "jorgeucano": {
   "name": "Jorge Cano",
   "picture": "jorgeucano.jpg",
   "twitter": "jorgeucano",
   "website": "https://medium.com/@jorgeucano",
   "bio": "Jorge is a Full Stack Developer in ByteDefault, a professor for several courses related to JavaScript, a
speaker, and an author of technical articles and the book \"Entendiendo Angular.\" He is a Google Developer Expert
in web technologies (nominated by Google) and a NativeScript Developer Expert (nominated by Telerik).",
   "group": "GDE"
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  "toddmotto": {
   "name": "Todd Motto",
   "picture": "toddmotto.jpg",
   "twitter": "toddmotto",
   "website": "https://ultimateangular.com",
   "bio": "Owner and trainer at Ultimate Angular. Lives in England, UK. Has a love for teaching, OSS and speaking
at conferences. Google Developer Expert for Web Technologies and Angular.",
   "group": "GDE"
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  "michaelprentice": {
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"name": "Michael Prentice",
 "picture": "michaelprentice.jpg",
 "twitter": "splaktar",
 "website": "https://www.DevIntent.com",
 "bio": "Lead for AngularJS Material. Owner and consultant at DevIntent. Ex-Angular GDE. Founder of the Google Developers Group (GDG) community on the Space Coast of Florida, USA.",
 "group": "Angular"
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 "mikebrocchi": {
  "name": "Mike Brocchi",
  "picture": "mike-brocchi.jpg",
  "twitter": "brocco",
  "bio": "Mike is a core team member of the Angular CLI team, a GDE and is also an instructor at egghead. Mike is passionate about helping others by writing code as well as teaching.",
  "group": "Angular"
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 "manfredsteyer": {
  "name": "Manfred Steyer",
  "picture": "steyer.jpg",
  "twitter": "ManfredSteyer",
  "website": "https://www.softwarearchitekt.at",
  "bio": "Trainer and Consultant with focus on Angular. Writes for O'Reilly, the German Java Magazine and Heise. Regularly speaks at conferences.",
  "group": "GDE"
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 "maximsalnikov": {
  "name": "Maxim Salnikov",
  "picture": "maximsalnikov.jpg",
  "twitter": "webmaxru",
  "website": "https://medium.com/@webmaxru",
  "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.",
  "group": "GDE"
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 "jeremywilken": {
  "name": "Jeremy Wilken",
  "picture": "jeremywilken.jpg",
  "twitter": "gnomeontherun",
  "website": "https://gnomeontherun.com",
  "bio": "Based in Austin Texas, Jeremy is an application architect and homebrewer. He is a Google Developer Expert in Web Technologies and Angular, with a focus on speaking and training and author of Angular in Action and Ionic in Action.",
  "group": "GDE"

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  "minko": {
    "name": "Minko Gechev",
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    "twitter": "mgechev",
    "website": "http://blog.mgechev.com",
    "bio": "Software engineer who enjoys theoretical computer science and its practical applications. Author of the
books 'Switching to Angular 2' and 'Getting Started with Angular', speaker and blogger. Working on tooling for
Angular and TypeScript.",
    "group": "GDE"
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  "uri": {
    "name": "Uri Shaked",
    "picture": "urish.jpg",
    "twitter": "UriShaked",
    "website": "https://urish.org",
    "bio": "Uri Shaked is a Google Developer Expert for Web Technologies. He regularly writes about Web and IoT
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.",
    "group": "GDE"
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  "eusoj": {
    "name": "Josue Gutierrez",
    "picture": "josue.jpg",
    "twitter": "eusoj",
    "website": "http://techtam.io",
    "bio": "Based in Mexico, Josue has been web developer since the last 10 years, he is part of the Google Developer
Expert Program, passionate about teaching and building communities",
    "group": "GDE"
  },

  "SanderElias": {
    "name": "Sander Elias",
    "picture": "sanderelias.jpg",
    "twitter": "esoSanderElias",
    "website": "https://sanderelias.nl",
    "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.",
    "group": "GDE"
  },
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 "name": "Filip Bruun Bech-Larsen",
 "picture": "filipbech.jpg",
 "twitter": "filipbech",
 "website": "http://filipbech.github.io/",
 "bio": "Filip is a Frontend developer from Denmark. He works at IMPACT, delivering large-scale, high-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.",
 "group": "GDE"
},

"ocombe": {
 "name": "Olivier Combe",
 "picture": "ocombe.jpg",
 "twitter": "ocombe",
 "bio": "Olivier is a passionate front-end engineer who loves interacting with the community by doing open source 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.",
 "group": "Angular"
},

"cironunes": {
 "name": "Ciro Nunes",
 "picture": "cironunes.jpg",
 "twitter": "cironunesdev",
 "bio": "Ciro is the Lead Front-end Engineer of CrossEngage and Google Developer Expert in Web Technologies.",
 "group": "GDE"
},

"elecash": {
 "name": "Ral Jimnez",
 "picture": "raul.jpg",
 "twitter": "elecash",
 "bio": "Raul works as a CEO and Front-end Architect at Byte Default for companies around the world helping 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.",
 "group": "GDE"
},

"simpulton": {
 "name": "Lukas Ruebbelke",
 "picture": "lukas.jpg",
 "twitter": "simpulton",
 "bio": "Developer. Hacker. Community backer. Author and blogger. Console logger.",
 "group": "GDE"
},

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  "name": "Christian Weyer",
  "picture": "christianweyer.jpg",
  "twitter": "ChristianWeyer",
  "website": "https://www.thinktecture.com",
  "bio": "Co-founder and CTO of Thinktecture AG, as well as Google GDE and Microsoft MVP. Since two decades
active as an engaged and passionate speaker on several software conferences and events all over the world. Some
people call him 'Mr. Cross-Platform'.",
  "group": "GDE"
},

"shaireznik": {
  "name": "Shai Reznik",
  "picture": "shaireznik.jpg",
  "twitter": "shai_reznik",
  "website": "https://www.hirez.io",
  "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.",
  "group": "GDE"
},

"danwahlin": {
  "name": "Dan Wahlin",
  "picture": "danwahlin.jpg",
  "twitter": "DanWahlin",
  "website": "https://codewithdan.com",
  "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.",
  "group": "GDE"
},

"joeeames": {
  "name": "Joe Eames",
  "picture": "joeeames.jpg",
  "twitter": "josepheames",
  "website": "https://joeeames.me",
  "bio": "Joe Eames is a developer and educator. He publishes course on Angular and JavaScript on Pluralsight.com.
He is an organizer of ng-conf, a Google Developer Expert in Angular, gives lots of talks & workshops, and loves all
things web.",
  "group": "GDE"
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"willmendesneto": {
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  "picture": "willmendesneto.jpg",
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  "website": "https://willmendesneto.github.io",
  "bio": "GDE (Google Developer Expert) Angular and Web Technologies, GDG Salvador organizer, passionate
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,
speaker at conferences in Brazil and other countries and contributes to several open source projects.",
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  "bio": "GDE (Google Developer Expert) Angular and Web Technologies, Women Who Code KL Director,
Jecelyn specializes in professional application development with technologies, including Angular, HTML5,
Typescript, JavaScript, CSS, C#, NodeJs, Cloud and ASP.NET.",
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  "bio": "Director of Experience Technology at SapientRazorfish. Consults various brands on their frontend and
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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"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": "Austin is an software architect with a passion for JavaScript and Angular. Austin loves to share his experiences with other like-minded developers by giving talks, blogging, podcasting and open-sourcing.",
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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 founder of the 'Frontend Band'.",
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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 with Angular'",
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  "website": "https://coryrylan.com",
  "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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    "website": "https://mhartington.io",
    "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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    "name": "Juri Strumpflohner",
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    "website": "https://juristr.com",
    "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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    "website": "http://imars.info/",
    "bio": "Mashhood is the principal technical consultant at Recurship and a Google Developer Expert. He works 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 available to execute the best possible solutions.",
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    "website": "https://kmaida.io/",
    "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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workshops, and open source.",
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from AngularJS to Angular and would love to chat about your experience with upgrading.",
   "group": "Angular"
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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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   "website": "https://sajeetharan.herokuapp.com/",
   "bio": "Sajeetharan is a Developer, Top contributor on stackoverflow for #Angular, ng-SriLanka organizer. He
makes use of his extensive knowledge over the past years to contribute to community to make the world a better
place.",
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   "twitter": "laco2net",
   "website": "https://lacolaco.net",
   "bio": "Suguru is a community-loving Frontend developer and a lead of Angular Japan User Group. He organizes
the largest Angular event in Japan (ng-japan). And he is a contributor to Angular by sending patches, writing,
speaking, and localizing resources in Japanese.",
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  "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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 "blove": {
  "name": "Brian Love",
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  "twitter": "brian_love",
  "website": "https://brianflove.com",
  "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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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: [] },
  ];
}
});
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) {
   name = name.toLowerCase();
   this.selectedGroup = this.groups.find(g => g.name.toLowerCase() === name) || this.groups[0];
   this.locationService.setSearch('', {group: this.selectedGroup.name});
 }
}
export class ContributorGroup {
 name: string;
 order: number;
 contributors: Contributor[];
}

export class Contributor {
 group: string;
 name: string;
 picture?: string;
```

```typescript
  website?: string;
  twitter?: string;
  bio?: string;
  isFlipped? = false;
}
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>
              View Bio
            </a>
            <a *ngIf="person.twitter" mat-button class="icon"
              href="https://twitter.com/{{person.twitter}}" target="_blank" (click)="$event.stopPropagation()">
              <span class="fa fa-twitter fa-2x"></span>
            </a>
            <a *ngIf="person.website" mat-button class="icon"
              href="{{person.website}}" target="_blank" (click)="$event.stopPropagation()">
              <span class="fa fa-link fa-2x"></span>
            </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 { 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);
   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(null, null, () => completed = true);
    expect(true).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,GDE');
  });

  it('should have expected "GDE" contribs in order', () => {
    const gde = contribs[1];
    const actualAngularNames = gde.contributors.map(l => l.name).join(',');
    const expectedAngularNames = [testData.jeffcross, testData.kapunahelewong].map(l => l.name).join(',');
    expect(actualAngularNames).toEqual(expectedAngularNames);
  });
});

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',
    group: 'GDE'
  },
  misko: {
    name: 'Miko Hevery',
    picture: 'misko.jpg',
    twitter: 'mhevery',
    website: 'http://misko.hevery.com',
    bio: 'Miko Hevery is the creator of AngularJS framework.',
    group: 'Angular'
  },
  igor: {
    name: 'Igor Minar',
    picture: 'igor-minar.jpg',
    twitter: 'IgorMinar',
    website: 'https://google.com/+IgorMinar',
    bio: 'Igor is a software engineer at Angular.',
    group: '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. ',
    group: '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.',
    group: 'GDE'
  },
  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.',
    group: 'Angular'
  }
};
}
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) {
    name = name.toLowerCase();
    this.selectedGroup = this.groups.find(g => g.name.toLowerCase() === name) || this.groups[0];
    this.locationService.setSearch('', {group: this.selectedGroup.name});
  }
}
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});
}
}
```

```
import { Injectable } from '@angular/core';
import { HttpClient } from '@angular/common/http';

import { Observable } from 'rxjs/Observable';
import 'rxjs/add/operator/map';
import 'rxjs/add/operator/publishLast';
```

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

const contributorsPath = CONTENT_URL_PREFIX + 'contributors.json';
const knownGroups = ['Angular', '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)
    // Create group map
    .map(contribs => {
     const contribMap = new Map<string, Contributor[]>();
     Object.keys(contribs).forEach(key => {
      const contributor = contribs[key];
      const group = contributor.group;
      const contribGroup = contribMap[group];
      if (contribGroup) {
       contribGroup.push(contributor);
      } else {
       contribMap[group] = [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.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;
}
```
@title
@description
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AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.

```
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', '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];
         const group = contributor.group;
         const contribGroup = contribMap[group];
         if (contribGroup) {
           contribGroup.push(contributor);
         } else {
           contribMap[group] = [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 { Injectable } from '@angular/core';
import { HttpClient } from '@angular/common/http';

import { Observable } from 'rxjs/Observable';
import 'rxjs/add/operator/map';
import 'rxjs/add/operator/publishLast';

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

const contributorsPath = CONTENT_URL_PREFIX + 'contributors.json';
const knownGroups = ['Angular', '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)
   // Create group map
   .map(contribs => {
    const contribMap = new Map<string, Contributor[]>();
    Object.keys(contribs).forEach(key => {
     const contributor = contribs[key];
     const group = contributor.group;
     const contribGroup = contribMap[group];
     if (contribGroup) {
      contribGroup.push(contributor);
     } else {
      contribMap[group] = [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.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;
}
```

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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,GDE');
});

it('should have expected "GDE" contribs in order', () => {
  const gde = contribs[1];
  const actualAngularNames = gde.contributors.map(l => l.name).join(',');
  const expectedAngularNames = [testData.jeffcross, testData.kapunahelewong].map(l => l.name).join(',');
  expect(actualAngularNames).toEqual(expectedAngularNames);
});
});

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',
      group: 'GDE'
    },
    misko: {
      name: 'Miko Hevery',
      picture: 'misko.jpg',
      twitter: 'mhevery',
      website: 'http://misko.hevery.com',
      bio: 'Miko Hevery is the creator of AngularJS framework.',
      group: 'Angular'
    },
    igor: {
      name: 'Igor Minar',
      picture: 'igor-minar.jpg',
      twitter: 'IgorMinar',
      website: 'https://google.com/+IgorMinar',
      bio: 'Igor is a software engineer at Angular.',
      group: '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. ',
    group: '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.',
    group: 'GDE'
  },
  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.',
    group: 'Angular'
  }
};
}
```

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LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
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```
import { NgModule, Type } from '@angular/core';
import { CommonModule } from '@angular/common';
import { ContributorListComponent } from './contributor-list.component';
import { ContributorService } from './contributor.service';
import { ContributorComponent } from './contributor.component';
import { WithCustomElementComponent } from '../element-registry';

@NgModule({
 imports: [ CommonModule ],
 declarations: [ ContributorListComponent, ContributorComponent ],
 entryComponents: [ ContributorListComponent ],
 providers: [ ContributorService ]
})
export class ContributorListModule implements WithCustomElementComponent {
 customElementComponent: Type<any> = ContributorListComponent;
}
/**
 * @license Angular v0.0.0-PLACEHOLDER
 * (c) 2010-2018 Google, Inc. https://angular.io/
 * License: MIT
 */
/**
 * @license Angular v0.0.0-PLACEHOLDER
 * (c) 2010-2017 Google, Inc. https://angular.io/
 * License: MIT
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{
"misko": {
  "name": "Miko Hevery",
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```

"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.",

"group": "Angular"

},

"igor": {

"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).",

"group": "Angular"

},

"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. She supports Angular's internal Google users and solves hard-to-define problems. She's been at Google since 2006, as a technical program manager on projects ranging from Accessibility to Google Transit. She fights daleks in her spare time.",

"group": "Angular"

},

"brad": {

"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.",

"group": "Angular"

},

"juleskremer": {

"name": "Jules Kremer",

"picture": "juleskremer.jpg",

"twitter": "jules_kremer",

```
  "website": "https://plus.google.com/+JulesKremer",
  "bio": "Jules is Head of Angular Developer Relations at Google.  When not working with developers, Jules is often
bending into pretzel-like shapes, creating paths through thick jungle with a machete or drinking really awesome
beer.",
  "group": "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.",
  "group": "Angular"
},

"pete": {
  "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.",
  "group": "Angular"
},

"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.",
  "group": "Angular"
},

"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.",
  "group": "Angular"
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 "picture": "tobias.jpg",
 "twitter": "tbosch1009",
 "website": "https://plus.google.com/+TobiasBosch",
 "bio": "Tobias Bosch is a software engineer at Google. He is part of the Angular core team and works on
Angular.",
 "group": "Angular"
},

"rado": {
 "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).",
 "group": "Angular"
},

"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.",
 "group": "Angular"
},

"martinprobst": {
 "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.",
 "group": "Angular"
},

"julieralph": {

"name": "Julie Ralph",
 "picture": "julie-ralph.jpg",
 "twitter": "SomeJulie",
 "website": "https://plus.google.com/+JulieRalph",
 "bio": "Julie Ralph works as a Software Engineer in Test at Google in Seattle and is the lead developer on the Angular end-to-end testing framework Protractor.",
 "group": "Angular"
},

"alexrickabaugh": {
 "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.",
 "group": "Angular"
},

"matias": {
 "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.",
 "group": "Angular"
},

"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.",
 "group": "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 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.",
  "group": "Angular"
},

"chuckj": {
  "name": "Chuck Jazdzewski",
  "picture": "chuckj.jpg",
  "twitter": "chuckjaz",
  "website": "http://removingalldoubt.com",
  "bio": "Chuck is a Software Engineer on the Angular team at Google. He is a programming language geek, UI framework and component library veteran, and has a passion for simplifying the task of programming. Before Google, he worked at Microsoft and Borland.",
  "group": "Angular"
},

"vikram": {
  "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.",
  "group": "Angular"
},

"maxsills": {
  "name": "Max Sills",
  "picture": "max-sills.jpg",
  "twitter": "angularjs",
  "website": "http://google-opensource.blogspot.com/",
  "bio": "Max Sills is Angular's Open Source lawyer.",
  "group": "Angular"
},

"pawel": {
  "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.",
  "group": "Angular"
},

"paulgschwendtner": {

"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.",
 "group": "Angular"
},

"elad": {
 "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.",
 "group": "Angular"
},

"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.",
 "group": "Angular"
},

"wardbell": {
  "name": "Ward Bell",
  "picture": "wardbell.jpg",
  "website": "https://github.com/wardbell",
  "twitter": "wardbell",
  "bio": "Ward is an all-around developer with JavaScript, node, 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.",
  "group": "Angular"
},

"martinstaffa": {
 "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.",
  "group": "Angular"
},

"filipesilva": {
  "name": "Filipe Silva",
  "picture": "filipe-silva.jpg",
  "twitter": "filipematossilv",
  "website": "http://github.com/filipesilva",
  "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.",
  "group": "Angular"
},

"andrewseguin": {
  "name": "Andrew Seguin",
  "picture": "andrewseguin.jpg",
  "website": "http://github.com/andrewseguin",
  "bio": "Andrew is an engineer on the Angular Material team working on bringing material components to the world. When hes not obsessing over pixels and design, he is probably off somewhere having adventures with his wife and daughters.",
  "group": "Angular"
},

"jesusrodriguez": {
  "name": "Jess Rodrguez",
  "picture": "jesus-rodriguez.jpg",
  "twitter": "foxandxss",
  "website": "http://angular-tips.com",
  "bio": "Jesus is an open source lover, a book author and editor, and AngularUI lead developer. He is currently a core contributor to the UI Bootstrap project.",
  "group": "Angular"
},

 "crisbeto": {
  "name": "Kristiyan Kostadinov",
  "picture": "crisbeto.jpg",
  "website": "http://crisbeto.com/",
  "bio": "Kristiyan is a front-end developer, passionate open-source contributor and a core team member on Angular Material.",
  "group": "Angular"
},

"gkalpak": {
  "name": "Georgios Kalpakas",
  "picture": "gkalpak.jpg",

"twitter": "gkalpakas",

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

"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?)",

"group": "Angular"

},

"mmalerba": {

"name": "Miles Malerba",

"picture": "mmalerba.jpg",

"bio": "Miles is a software engineer on the Angular Material team at Google. In addition to Javascripting he enjoys eating food and ogling cute puppies.",

"group": "Angular"

},

"jasonaden": {

"name": "Jason Aden",

"picture": "jasonaden.jpg",

"bio": "Jason is a software engineer at Google on the Angular Core team. He is enthusiastic about Angular and application development in the modern age. In his free time Jason enjoys spending time with his wife and four children and doing outdoor activities (hiking, fishing, snowboarding, etc.).",

"group": "Angular"

},

"jeffwhelpley": {

"name": "Jeff Whelpley",

"picture": "jeffwhelpley.jpg",

"twitter": "jeffwhelpley",

"website": "https://medium.com/@jeffwhelpley",

"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.",

"group": "GDE"

},

"pascalprecht": {

"name": "Pascal Precht",

"picture": "pascalprecht.jpg",

"website": "https://twitter.com/PascalPrecht",

"bio": "Pascal is a software engineer, author and Google Developer Expert for the Angular team. He loves contributing to open source and is the creator of the popular angular-translate module. In his spare time hes fiddling with EDM production.",

"group": "GDE"

},

"deborah": {

"name": "Deborah Kurata",

"picture": "deborah.jpg",
 "twitter": "deborahkurata",
 "website": "http://blogs.msmvps.com/deborahk/",
 "bio": "Deborah is a software developer, author, and Google Developer Expert. She is author of several Pluralsight courses including: 'Angular 2: Getting Started' and Angular Routing",
 "group": "GDE"
},

"alyssa": {
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 "twitter": "alyssanicoll",
 "website": "alyssa.io",
 "bio": "I am an energetic, ber passionate GDE and Web Dev. I have some Front-End and Angular courses on Egghead.io and Code School. I love to learn new things and share them with others. I Scuba Dive and have a toothless dog named 'Gummy'. My DM is always open, come talk sometime.",
 "group": "GDE"
},

"ralph": {
 "name": "Ralph Wang",
 "picture": "ralph.jpg",
 "twitter": "ralph_wang_gde",
 "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.",
 "group": "GDE"
},

"wassim": {
 "name": "Wassim Chegham",
 "picture": "wassim.jpg",
 "twitter": "manekinekko",
 "website": "https://medium.com/@wassimchegham",
 "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.",
 "group": "GDE"
},

"chrisnoring": {
 "name": "Christoffer Noring",
 "picture": "chrisnoring.jpg",
 "twitter": "chris_noring",
 "website": "softchris.github.io",
 "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",
  "group": "GDE"
},

"jorgeucano": {
  "name": "Jorge Cano",
  "picture": "jorgeucano.jpg",
  "twitter": "jorgeucano",
  "website": "https://medium.com/@jorgeucano",
  "bio": "Jorge is a Fulll Stack Developer in ByteDefault ... Professor in several courses related to javascript , speaker, and writer of technical articles and a book Entendiendo Angular, Google Developer Expert in web technologies nominate by Google, Nativescript Developer Expert nominated by Telerik.",
  "group": "GDE"
},

"toddmotto": {
  "name": "Todd Motto",
  "picture": "toddmotto.jpg",
  "twitter": "toddmotto",
  "website": "https://ultimateangular.com",
  "bio": "Owner and trainer at Ultimate Angular. Lives in England, UK. Has a love for teaching, OSS and speaking at conferences. Google Developer Expert for Web Technologies and Angular.",
  "group": "GDE"
},

"michaelprentice": {
  "name": "Michael Prentice",
  "picture": "michaelprentice.jpg",
  "twitter": "splaktar",
  "website": "https://www.DevIntent.com",
  "bio": "Owner and consultant at DevIntent. Active open-source contributor and leader. Passionate advocate, coach, and consultant for LEAN and Agile teams. Google Developer Expert (GDE) in Angular. Founder and organizer for the Google Developers Group (GDG) community on the Space Coast of Florida, USA.",
  "group": "GDE"
},

"mikebrocchi": {
  "name": "Mike Brocchi",
  "picture": "mike-brocchi.jpg",
  "twitter": "brocco",
  "bio": "Mike is a core team member of the Angular CLI team, a GDE and is also an instructor at egghead. Mike is passionate about helping others by writing code as well as teaching.",
  "group": "Angular"
},

"manfredsteyer": {
  "name": "Manfred Steyer",

```
  "picture": "steyer.jpg",
  "twitter": "ManfredSteyer",
  "website": "https://www.softwarearchitekt.at",
  "bio": "Trainer and Consultant with focus on Angular. Writes for O'Reilly, the German Java Magazine and Heise.
Regularly speaks at conferences.",
  "group": "GDE"
},

"maximsalnikov": {
  "name": "Maxim Salnikov",
  "picture": "maximsalnikov.jpg",
  "twitter": "webmaxru",
  "website": "https://medium.com/@webmaxru",
  "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.",
  "group": "GDE"
},

"jeremywilken": {
  "name": "Jeremy Wilken",
  "picture": "jeremywilken.jpg",
  "twitter": "gnomeontherun",
  "website": "https://gnomeontherun.com",
  "bio": "Based in Austin Texas, Jeremy is an application architect and homebrewer. He is a Google Developer
Expert in Web Technologies and Angular, with a focus on speaking and training and author of Angular in Action
and Ionic in Action.",
  "group": "GDE"
},

"minko": {
  "name": "Minko Gechev",
  "picture": "minko.jpg",
  "twitter": "mgechev",
  "website": "http://blog.mgechev.com",
  "bio": "Software engineer who enjoys theoretical computer science and its practical applications. Author of the
books 'Switching to Angular 2' and 'Getting Started with Angular', speaker and blogger. Working on tooling for
Angular and TypeScript.",
  "group": "GDE"
},

"uri": {
  "name": "Uri Shaked",
  "picture": "urish.jpg",
  "twitter": "UriShaked",
  "website": "https://urish.org",
  "bio": "Uri Shaked is a Google Developer Expert for Web Technologies. He regularly writes about Web and IoT
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.",
  "group": "GDE"
},

"eusoj": {
  "name": "Josue Gutierrez",
  "picture": "josue.jpg",
  "twitter": "eusoj",
  "website": "http://techtam.io",
  "bio": "Based in Mexico, Josue has been web developer since the last 10 years, he is part of the Google Developer Expert Program, passionate about teaching and building communities",
  "group": "GDE"
},

"SanderElias": {
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 "picture": "sanderelias.jpg",
 "twitter": "esoSanderElias",
 "website": "https://sanderelias.nl",
 "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.",
 "group": "GDE"
},

"filipbech": {
  "name": "Filip Bruun Bech-Larsen",
  "picture": "filipbech.jpg",
  "twitter": "filipbech",
  "website": "http://filipbech.github.io/",
  "bio": "Filip is a Frontend developer from Denmark. He works at IMPACT, delivering large-scale, high-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.",
  "group": "GDE"
},

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  "picture": "ocombe.jpg",
  "twitter": "ocombe",
  "bio": "Olivier is a passionate front-end engineer who loves interacting with the community by doing open source 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.",
  "group": "Angular"
},

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"cironunes": {
 "name": "Ciro Nunes",
 "picture": "cironunes.jpg",
 "twitter": "cironunesdev",
 "bio": "Ciro is the Lead Front-end Engineer of CrossEngage and Google Developer Expert in Web Technologies.",
 "group": "GDE"
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 "name": "Ral Jimnez",
 "picture": "raul.jpg",
 "twitter": "elecash",
 "bio": "Raul works as a CEO and Front-end Architect at Byte Default for companies around the world helping
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.",
 "group": "GDE"
},

"simpulton": {
 "name": "Lukas Ruebbelke",
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 "twitter": "simpulton",
 "bio": "Developer. Hacker. Community backer. Author and blogger. Console logger.",
 "group": "GDE"
},

"christianweyer": {
 "name": "Christian Weyer",
 "picture": "christianweyer.jpg",
 "twitter": "ChristianWeyer",
 "website": "https://www.thinktecture.com",
 "bio": "Co-founder and CTO of Thinktecture AG, as well as Google GDE and Microsoft MVP. Since two decades
active as an engaged and passionate speaker on several software conferences and events all over the world. Some
people call him 'Mr. Cross-Platform'.",
 "group": "GDE"
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"shaireznik": {
 "name": "Shai Reznik",
 "picture": "shaireznik.jpg",
 "twitter": "shai_reznik",
 "website": "https://www.hirez.io",
 "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.",
 "group": "GDE"
},
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"danwahlin": {
 "name": "Dan Wahlin",
 "picture": "danwahlin.jpg",
 "twitter": "DanWahlin",
 "website": "https://codewithdan.com",
 "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.",
 "group": "GDE"
},

"joeeames": {
 "name": "Joe Eames",
 "picture": "joeeames.jpg",
 "twitter": "josepheames",
 "website": "https://joeeames.me",
 "bio": "Joe Eames is a developer and educator. He publishes course on Angular and JavaScript on Pluralsight.com. He is an organizer of ng-conf, a Google Developer Expert in Angular, gives lots of talks & workshops, and loves all things web.",
 "group": "GDE"
},

"willmendesneto": {
 "name": "Wilson Mendes",
 "picture": "willmendesneto.jpg",
 "twitter": "willmendesneto",
 "website": "https://willmendesneto.github.io",
 "bio": "GDE (Google Developer Expert) Angular and Web Technologies, GDG Salvador organizer, passionate 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, speaker at conferences in Brazil and other countries and contributes to several open source projects.",
 "group": "GDE"
},

"jecelynyeen": {
 "name": "Jecelyn Yeen",
 "picture": "jecelynyeen.jpg",
 "twitter": "jecelynyeen",
 "website": "https://developers.google.com/experts/people/jecelyn-yeen",
 "bio": "GDE (Google Developer Expert) Angular and Web Technologies, Women Who Code KL Director, Jecelyn specializes in professional application development with technologies, including Angular, HTML5, Typescript, JavaScript, CSS, C#, NodeJs, Cloud and ASP.NET.",
 "group": "GDE"

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    },

    "vincirufus": {
      "name": "Vinci Rufus",
      "picture": "vincirufus.jpg",
      "twitter": "areai51",
      "website": "https://developers.google.com/experts/people/vinci-rufus",
      "bio": "Director of Experience Technology at SapientRazorfish. Consults various brands on their frontend and
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  ",
      "group": "GDE"
    },

    "thierrychatel": {
      "name": "Thierry Chatel",
      "picture": "thierrychatel.jpg",
      "twitter": "ThierryChatel",
      "website": "http://www.methotic.com",
      "bio": "Thierry is a senior consultant and trainer, specialized on Angular, and a Google Developer Expert.",
      "group": "GDE"
    },

    "gerardsans": {
      "name": "Gerard Sans",
      "picture": "gerardsans.jpg",
      "twitter": "gerardsans",
      "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.",
      "group": "GDE"
    },

    "amcdnl": {
      "name": "Austin McDaniel",
      "picture": "amcdnl.jpeg",
      "twitter": "amcdnl",
      "website": "https://amcdnl.com",
      "bio": "Austin is an software architect with a passion for JavaScript and Angular. Austin loves to share his
experiences with other like-minded developers by giving talks, blogging, podcasting and open-sourcing.",
      "group": "Angular"
    },

    "nirkaufman": {
      "name": "Nir Kaufman",
      "picture": "nirkaufman.jpg",
      "twitter": "nirkaufman",
```

    "website": "http://ngnir.life/",
    "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 founder of the 'Frontend Band'.",
    "group": "GDE"
 }
}

1.40 angular-material 7.2.1

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THE SOFTWARE.
import {buildConfig} from './build-config';
import MagicString from 'magic-string';

/** License banner from the build config that will be removed in all source files. */
const licenseBanner = buildConfig.licenseBanner;

/**
* Rollup plugin that removes all license banners of source files.
* This is necessary to avoid having the license comment repeated in the output.
*/
export const rollupRemoveLicensesPlugin = {
 name: 'rollup-clean-duplicate-licenses',
 transform: (code: string) => {
   const newContent = new MagicString(code);

```
// Walks through every occurrence of a license comment and overwrites it with an empty string.
for (let pos = -1; (pos = code.indexOf(licenseBanner, pos + 1)) !== -1; null) {
    newContent.overwrite(pos, pos + licenseBanner.length, '');
}

return {
    code: newContent.toString(),
    map:  newContent.generateMap({ hires: true })
};
}
};
```

1.41 csvjs 1.1.1

1.42 jjwt 0.7.0

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1.43 slf4j-log4j 1.7.24

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1.44 commons-net 3.3

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