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1.826 jdk 8u232-b09-0ubuntu1~18.04.1
   1.826.1 Available under license
1.827 fonts-dejavu 2.37 1
   1.827.1 Available under license
1.828 react-router 3.2.5
   1.828.1 Available under license
1.829 ieee754 1.1.13
  1.829.1 Available under license
1.830 cups 2.2.10-6+deb10u2
  1.830.1 Available under license
1.831 gmp 6.1.2+dfsg 1
  1.831.1 Available under license
1.832 openjdk 11.0.7+10-3~deb10u1
  1.832.1 Available under license
1.833 ribbon-loadbalancer 2.3.0
1.834 spring-framework 3.2.17
  1.834.1 Available under license
1.835 spring-cloud-starter-openfeign 2.2.0
  1.835.1 Available under license
1.836 commons-lang3 3.0
  1.836.1 Available under license
1.837 spring-context-support 5.2.3
  1.837.1 Available under license
1.838 model-mapper 2.3.0
  1.838.1 Available under license
1.839 jetty-continuation 9.4.26.v20200117
  1.839.1 Available under license
1.840 parseuri 0.0.5
  1.840.1 Available under license
1.841 socket.io-parser 2.3.1
  1.841.1 Available under license
1.842 servlet-api 4.0.1
  1.842.1 Available under license
1.843 setimmediate 1.0.5
  1.843.1 Available under license
1.844 startpar 0.59-3.1
  1.844.1 Available under license
1.845 spring-security-rsa 1.0.7
1.846 batik-css 1.11
  1.846.1 Available under license
1.847 netflix-statistics 0.1.1
  1.847.1 Available under license
1.848 openssl 1.0.2u-1~deb9u1
  1.848.1 Available under license
1.849 netbsd-resolv 2.24 11+deb9u4
1.1 perl 5.28.1 6
1.1.1 Available under license:

#!perl

=head1 NAME

copyright.t

=head1 DESCRIPTION

Tests that the latest copyright years in the top-level README file and the C<perl -v> output match each other.

If the test fails, update at least one of README and perl.c so that they match reality.

Optionally you can pass the C<--now> option to check they are at the current year. This isn't checked by default, so that it doesn't fail for people working on older releases. It should be run before making a new release.

=cut

use strict;
use Config;
BEGIN { require './test.pl' }
if ( $Config{usecrosscompile} ) {
    skip_all( "Not all files are available during cross-compilation" );
}

my ($opt) = @ARGV;

my $readme_year = readme_year();
my $v_year = v_year();

# Check that both copyright dates are up-to-date, but only if requested, so
# that tests still pass for people intentionally working on older versions:
if ($opt eq '--now') {
    my $current_year = (gmtime)[5] + 1900;
    is $v_year, $current_year, 'perl -v copyright includes current year';
    is $readme_year, $current_year, 'README copyright includes current year';
}

# Otherwise simply check that the two copyright dates match each other:
else {
    is $readme_year, $v_year, 'README and perl -v copyright dates match';
}

done_testing;

sub readme_year
# returns the latest copyright year from the top-level README file
{
    open my $readme, '<', '../README' or die "Opening README failed: $!";
    # The copyright message is the first paragraph:
    local $/ = ";
    my $copyright_msg = <$readme>;
    my ($year) = $copyright_msg =~ /.*(\d{4,})/s
        or die "Year not found in README copyright message '$copyright_msg'";

    $year;
}

sub v_year
# returns the latest copyright year shown in perl -v
{

my $output = runperl switches => ['-v'];
my ($year) = $output =~ /copyright 1987.*(\d{4,})/i
    or die "Copyright statement not found in perl -v output '$output'";

$year;
}
---
abstract: 'Build and install Perl modules'
author:
  - 'Ken Williams <kwilliams@cpan.org>'
  - "Development questions, bug reports, and patches should be sent to the
    Module-Build mailing list at <module-build@perl.org>.'
built_requires:
  File::Temp: 0.15
  Test::Harness: 3.16
  Test::More: 0.49
generated_by: 'Module::Build version 0.3608'
license: gpl
meta-spec:
  url: http://module-build.sourceforge.net/META-spec-v1.4.html
  version: 1.4
name: Module-Build
resources:
  MailingList: mailto:module-build@perl.org
  license: http://dev.perl.org/licenses/
  repository: http://github.com/dagolden/module-build/
  version: 3

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

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Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.6 of 6 September 2010

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

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1.4 instrumentation-jms 5.9.0
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1.5 json-java 20160810
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1.6 yaws 2.0.6

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1.8 create-hash 1.2.0

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1.9 rx-netty-servo 0.4.9

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1.12 netty-codec-http 4.1.32

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1.13 spring-cloud-starter-consul-config 2.2.0

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 * $Id: DefaultArithExpr.java 1128 2006-02-05 21:49:04Z elharo $
 */
Found in path(s):
* /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources.jar/org/jaxen/expr/DefaultArithExpr.java

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 * $Date: 2006-06-03 13:52:26 -0700 (Sat, 03 Jun 2006) $
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* $Id: IterableAncestorOrSelfAxis.java 1162 2006-06-03 20:52:26Z elharo $
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-
  jar/org/jaxen/expr/iter/IterableAncestorOrSelfAxis.java
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$Id: XPathNamespace.java 1128 2006-02-05 21:49:04Z elharo $

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* $Id: DefaultVariableReferenceExpr.java 1367 2012-05-05 16:31:33Z elharo $
*/

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* /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-
jar/org/jaxen/expr/DefaultVariableReferenceExpr.java
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* $Revision: 1168 $
* $Date: 2006-07-03 04:58:31 -0700 (Mon, 03 Jul 2006) $
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* $Id: DescendantAxisIterator.java 1255 2006-11-09 18:20:12Z elharo $
* /

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* /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-
* jar/org/jaxen/util/DescendantAxisIterator.java
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* $Id: DescendantOrSelfAxisIterator.java 1255 2006-11-09 18:20:12Z elharo $
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-
  jar/org/jaxen/util/DescendantOrSelfAxisIterator.java
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* $Id: DocumentNavigator.java 1198 2006-09-21 11:48:05Z elharo $
*/

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* /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-
jar/org/jaxen/jdom/DocumentNavigator.java
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 * $Id: LinkedIterator.java 1255 2006-11-09 18:20:12Z elharo $
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* $Id: SimpleVariableContext.java 1159 2006-06-03 20:25:34Z elharo $
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* $Id: XPathFactory.java 1337 2008-12-03 01:58:10Z elharo $
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* Found in path(s):
* /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-
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* *
* $Id: NotFunction.java 1128 2006-02-05 21:49:04Z elharo $
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-
  jar/org/jaxen/function/NotFunction.java

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$Id: DefaultPathExpr.java 1261 2006-11-30 18:49:27Z elharo $

Found in path(s):
/opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-
ar/jaxen/expr/DefaultPathExpr.java
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* $Id: DefaultMinusExpr.java 1261 2006-11-30 18:49:27Z elharo $
* /

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-
jar/org/jaxen/expr/DefaultMinusExpr.java
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/
* $Header$
* $Revision: 1236 $
* $Date: 2006-11-08 09:10:02 -0800 (Wed, 08 Nov 2006) $
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* $Id: NameStep.java 1236 2006-11-08 17:10:02Z elharo $
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-jar/org/jaxen/expr/NameStep.java
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* $Header$
* $Revision: 1179 $
* $Date: 2006-07-16 04:07:25 -0700 (Sun, 16 Jul 2006) $
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    *
    * $Id: FunctionCallException.java 1179 2006-07-16 11:07:25Z elharo $
    */

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-jar/org/jaxen/FunctionCallException.java
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 * $Header$
 * $Revision: 1248 $
 * $Date: 2006-11-08 11:20:29 -0800 (Wed, 08 Nov 2006) $
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* $Id: VariableReferenceExpr.java 1248 2006-11-08 19:20:29Z elharo $
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*/opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-jar/org/jaxen/expr/VariableReferenceExpr.java
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* $Header$
* $Revision: 1128 $
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 * $Header$
 * $Revision: 1162 $
 * $Date: 2006-06-03 13:52:26 -0700 (Sat, 03 Jun 2006) $
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 * $Id: IterableNamespaceAxis.java 1162 2006-06-03 20:52:26Z elharo $
 */
Found in path(s):
* /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-jar/org/jaxen/expr/iter/IterableNamespaceAxis.java

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* $Id: DefaultNumberExpr.java 1261 2006-11-30 18:49:27Z elharo $
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* $Id: IterableDescendantAxis.java 1162 2006-06-03 20:52:26Z elharo $
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* /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-jar/org/jaxen/expr/iter/IterableDescendantAxis.java
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  * $Id: AnyNodeTest.java 1128 2006-02-05 21:49:04Z elharo $
  */

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* $Id: FunctionCallExpr.java 1232 2006-11-08 16:37:59Z elharo $
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* /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-
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* $Id: NormalizeSpaceFunction.java 1128 2006-02-05 21:49:04Z elharo $
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* /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-
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* $Id: PositionFunction.java 1128 2006-02-05 21:49:04Z elharo $ */

  Found in path(s):
  * /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-jar/org/jaxen/function/PositionFunction.java

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  * $Revision: 1128 $
  * $Date: 2006-02-05 13:49:04 -0800 (Sun, 05 Feb 2006) $
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* $Id: DefaultExpr.java 1128 2006-02-05 21:49:04Z elharo $
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-
  jar/org/jaxen/expr/DefaultExpr.java
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* $Id: LocationPathPattern.java 1128 2006-02-05 21:49:04Z elharo $
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-
  jar/org/jaxen/pattern/LocationPathPattern.java
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 * $Revision: 1128 $
 * $Date: 2006-02-05 13:49:04 -0800 (Sun, 05 Feb 2006) $
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 * $Id: DefaultMultiplicativeExpr.java 1128 2006-02-05 21:49:04Z elharo $
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 * $Header$
 * $Revision: 1257 $
 * $Date: 2006-11-13 14:10:09 -0800 (Mon, 13 Nov 2006) $
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* $Header$  
* $Revision: 1364 $  
* $Date: 2011-07-30 05:46:45 -0400 (Sat, 30 Jul 2011) $  
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* $Id: DocumentNavigator.java 1364 2011-07-30 09:46:45Z elharo $
*/

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* /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-
jar/org/jaxen/dom/DocumentNavigator.java

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* $Header$
* $Revision: 1300 $
* $Date: 2007-05-02 07:27:46 -0700 (Wed, 02 May 2007) $
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Found in path(s):
  * /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-
    jar/org/jaxen/expr/PathExpr.java
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  * $Header$
  * $Revision: 1255 $
  * $Date: 2006-11-09 10:20:12 -0800 (Thu, 09 Nov 2006) $
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* $Id: AncestorAxisIterator.java 1255 2006-11-09 18:20:12Z elharo $
*/

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*/opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-
jar/org/jaxen/util/AncestorAxisIterator.java
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* $Header$
* $Revision: 1159 $
* $Date: 2006-06-03 13:25:34 -0700 (Sat, 03 Jun 2006) $
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* $Id: UnresolvableException.java 1159 2006-06-03 20:25:34Z elharo $
*/

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* /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-
jar/org/jaxen/UnresolvableException.java
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* $Id: PatternParser.java 1128 2006-02-05 21:49:04Z elharo $
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* $Id: DefaultRelationalExpr.java 1128 2006-02-05 21:49:04Z elharo $
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* $Id: DefaultCommentNodeStep.java 1261 2006-11-30 18:49:27Z elharo $
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  * $Id: UpperFunction.java 1128 2006-02-05 21:49:04Z elharo $
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 * $Id: ConcatFunction.java 1128 2006-02-05 21:49:04Z elharo $
 */
Found in path(s):
* /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-jar/or...ction/function/ConcatFunction.java

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*
*$Id: DefaultUnionExpr.java 1261 2006-11-30 18:49:27Z elharo $*
*/

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* /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-jar/org/jaxen/expr/DefaultUnionExpr.java
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$Id: SAXPathEventSource.java 1128 2006-02-05 21:49:04Z elharo $

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*/opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-jar/org/jaxen/saxpath/SAXPathEventSource.java

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*
* $Id: EqualityExpr.java 1252 2006-11-09 16:21:05Z elharo $
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-
jar/org/jaxen/expr/EqualityExpr.java
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* $Id: DefaultUnaryExpr.java 1261 2006-11-30 18:49:27Z elharo $
*/

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* /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-
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 * $Revision: 1225 $
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* $Id: CommentNodeStep.java 1225 2006-11-08 15:42:39Z elharo $
* /

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/ /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-
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* $Id: TextNodeStep.java 1245 2006-11-08 18:52:02Z elharo$
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* /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-
jar/org/jaxen/expr/TextNodeStep.java
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* $Id: SimpleFunctionContext.java 1128 2006-02-05 21:49:04Z elharo $
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$Id: SelfAxisIterator.java 1302 2007-05-02 14:33:29Z elharo $

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/opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources.jar/org/jaxen/util/SelfAxisIterator.java
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$Id: IterableParentAxis.java 1162 2006-06-03 20:52:26Z elharo $

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  * $Id: AdditiveExpr.java 1252 2006-11-09 16:21:05Z elharo $
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* /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-
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* $Id: Navigator.java 1157 2006-06-03 20:07:37Z elharo $
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jar/org/jaxen/jdom/JDOMXPath.java
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 *
 * $Id: FollowingSiblingAxisIterator.java 1255 2006-11-09 18:20:12Z elharo $
Found in path(s):
* /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-
  jar/org/jaxen/util/FollowingSiblingAxisIterator.java

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$Id: DocumentFunction.java 1128 2006-02-05 21:49:04Z elharo $

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* /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-
jar/org/jaxen/JaxenRuntimeException.java
* /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-
jar/org/jaxen/JaxenConstants.java

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* $Id: Step.java 1268 2006-12-10 15:32:14Z elharo $
* */

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* /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-jar/org/jaxen/expr/Step.java
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* $Id: Operator.java 1128 2006-02-05 21:49:04Z elharo $
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* /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-
* jar/org/jaxen/saxpath/Operator.java

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$Id: XPath.java 1304 2007-05-02 15:00:13Z elharo $

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 * $Revision: 1222 $
 * $Date: 2006-11-08 05:59:38 -0800 (Wed, 08 Nov 2006) $
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$/Id: XPathFunctionContext.java 1222 2006-11-08 13:59:38Z elharo$
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/opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-jar/org/jaxen/XPathFunctionContext.java

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$/Id: IterableChildAxis.java 1162 2006-06-03 20:52:26Z elharo$
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* $Id: PrecedingSiblingAxisIterator.java 1257 2006-11-13 22:10:09Z elharo $
*/

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* $Id: BinaryExpr.java 1252 2006-11-09 16:21:05Z elharo $
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* $Id: RelationalExpr.java 1252 2006-11-09 16:21:05Z elharo $
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* jar/org/jaxen/expr/RelationalExpr.java
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Found in path(s):
* /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-jar/org/jaxen/Context.java

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 * $Header$
 * $Revision: 1396 $
 * $Date: 2013-01-13 07:22:49 -0500 (Sun, 13 Jan 2013) $
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Found in path(s):
* /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-jar/org/jaxen/expr/DefaultLessThanEqualExpr.java
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* $Revision: 1345 $
* $Date: 2009-10-22 07:25:23 -0400 (Thu, 22 Oct 2009) $
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* $Id: DefaultLocationPath.java 1345 2009-10-22 11:25:23Z elharo $
*/

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* $Revision: 1161 $
* $Date: 2006-06-03 13:36:00 -0700 (Sat, 03 Jun 2006) $
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* $Id: SAXPathException.java 1161 2006-06-03 20:36:00Z elharo $
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-
jar/org/jaxen/saxpath/SAXPathException.java
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* $Header$
* $Revision: 1251 $
* $Date: 2006-11-09 08:11:38 -0800 (Thu, 09 Nov 2006) $
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$Id: DefaultXPathFactory.java 1251 2006-11-09 16:11:38Z elharo $
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-jar/org/jaxen/expr/DefaultXPathFactory.java

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* $Revision: 1128 $
* $Date: 2006-02-05 13:49:04 -0800 (Sun, 05 Feb 2006) $
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* $Id: NamespaceNode.java 1370 2012-05-06 23:52:12Z elharo $
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-
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* $Id$
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Found in path(s):
* /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-
jar/org/jaxen/expr/NodeComparator.java
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 * $Date: 2006-11-09 10:20:12 -0800 (Thu, 09 Nov 2006) $
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* $Id: FalseFunction.java 1128 2006-02-05 21:49:04Z elharo $
*/

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* /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-
  jar/org/jaxen/function/FalseFunction.java
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 * $Revision: 1332 $
 * $Date: 2008-10-18 06:29:28 -0700 (Sat, 18 Oct 2008) $
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Found in path(s):
* /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-
  jar/org/jaxen/expr/DefaultEqualityExpr.java
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/*
$Id: IterableAxis.java 1128 2006-02-05 21:49:04Z elharo $

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* $Id: DefaultAbsoluteLocationPath.java 1261 2006-11-30 18:49:27Z elharo $
 */

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* $Id: DefaultNavigator.java 1128 2006-02-05 21:49:04Z elharo $
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* $Id: StackedIterator.java 1128 2006-02-05 21:49:04Z elharo $
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* $Id: XPathSyntaxException.java 1161 2006-06-03 20:36:00Z elharo $
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  jar/org/jaxen/saxpath/XPathSyntaxException.java
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* $Id: AncestorOrSelfAxisIterator.java 1255 2006-11-09 18:20:12Z elharo $
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-
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* $Id: DefaultAllNodeStep.java 1261 2006-11-30 18:49:27Z elharo $
* /

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* /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-
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* $Id: IterableFollowingSiblingAxis.java 1162 2006-06-03 20:52:26Z elharo $
* /

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* /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-
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* $Id: SingletonList.java 1253 2006-11-09 16:39:19Z elharo $
* $Revision: 1128 $  
* $Date: 2006-02-05 13:49:04 -0800 (Sun, 05 Feb 2006) $  
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* $Id: LangFunction.java 1128 2006-02-05 21:49:04Z elharo $  
* /  

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/ /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-jar/org/jaxen/function/LangFunction.java  

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 * $Id: DefaultTextNodeStep.java 1261 2006-11-30 18:49:27Z elharo $ */
Found in path(s):
* /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources.jar/org/jaxen/expr/DefaultTextNodeStep.java
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* $Id: StringLengthFunction.java 1324 2008-04-27 01:48:59Z elharo $
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* $Id: XPathReader.java 1334 2008-11-29 17:58:48Z elharo $
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* $Id: DefaultAdditiveExpr.java 1128 2006-02-05 21:49:04Z elharo $
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* $Id: SubstringAfterFunction.java 1128 2006-02-05 21:49:04Z elharo $
* /

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-
* jar/org/jaxen/function/SubstringAfterFunction.java
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* $Id: DocumentNavigator.java 1156 2006-06-03 20:04:05Z elharo $
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-
jar/org/jaxen/xom/DocumentNavigator.java
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* $Header$
* $Revision: 1128 $
* $Date: 2006-02-05 13:49:04 -0800 (Sun, 05 Feb 2006) $
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jar/org/jaxen/saxpath/base/TokenTypes.java
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 * $Id: NamespaceUriFunction.java 1128 2006-02-05 21:49:04Z elharo $
Found in path(s):
* /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-jar/org/jaxen/function/NamespaceUriFunction.java
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* $Id: UnionExpr.java 1228 2006-11-08 16:00:22Z elharo $
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* /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-
jar/org/jaxen/expr/UnionExpr.java

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$Id: DefaultOrExpr.java 1261 2006-11-30 18:49:27Z elharo $

Found in path(s):
/opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-
jar/org/jaxen/expr/DefaultOrExpr.java
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$Header$
$Revision: 1306 $
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$Id: XPathExpr.java 1306 2007-05-02 15:04:46Z elharo $
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* $Id: ProcessingInstructionNodeStep.java 1226 2006-11-08 15:44:33Z elharo $
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* $Revision: 1159 $
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* $Id: SimpleNamespaceContext.java 1159 2006-06-03 20:25:34Z elharo $
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  /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-jar/org/jaxen/SimpleNamespaceContext.java
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$Id: BooleanFunction.java 1128 2006-02-05 21:49:04Z elharo $

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* $Id: IterableDescendantOrSelfAxis.java 1162 2006-06-03 20:52:26Z elharo $
*/

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* /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-
  jar/org/jaxen/expr/iter/IterableDescendantOrSelfAxis.java
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  * $Id: IterablePrecedingAxis.java 1162 2006-06-03 20:52:26Z elharo $
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* $Id: UnionPattern.java 1128 2006-02-05 21:49:04Z elharo $
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*  
* $Id: PatternHandler.java 1128 2006-02-05 21:49:04Z elharo $  
* */

Found in path(s):  
* /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-
jar/org/jaxen/pattern/PatternHandler.java
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 * $Revision: 1396 $
 * $Date: 2013-01-13 07:22:49 -0500 (Sun, 13 Jan 2013) $
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Found in path(s):
* /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/jaxen-1-1-6-sources-jar/org/jaxen/expr/DefaultLessThanExpr.java

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*
* $Id: SingleObjectIterator.java 1255 2006-11-09 18:20:12Z elharo $
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-
jar/org/jaxen/util/SingleObjectIterator.java
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* $Revision: 1132 $
* $Date: 2006-03-30 05:53:11 -0800 (Thu, 30 Mar 2006) $
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$/Id: JaxenHandler.java 1132 2006-03-30 13:53:11Z elharo $
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* $Id: AllNodeStep.java 1225 2006-11-08 15:42:39Z elharo $
*/

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* /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-
  jar/org/jaxen/expr/AllNodeStep.java
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* $Id: LogicalExpr.java 1252 2006-11-09 16:21:05Z elharo $
* /

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* /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-
  jar/org/jaxen/expr/LogicalExpr.java
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* $Revision: 1386 $
* $Date: 2012-07-29 09:29:13 -0400 (Sun, 29 Jul 2012) $
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* $Id: NumberFunction.java 1386 2012-07-29 13:29:13Z elharo $
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 * $Revision: 1321 $
 * $Date: 2008-04-26 17:30:06 -0700 (Sat, 26 Apr 2008) $
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* $Id: BaseXPath.java 1321 2008-04-27 00:30:06Z elharo $
*/

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* $Id: IdFunction.java 1128 2006-02-05 21:49:04Z elharo $
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* $Id: MultiplicativeExpr.java 1325 2008-04-27 01:55:05Z elharo $
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* $Id: TranslateFunction.java 1128 2006-02-05 21:49:04Z elharo $ */

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* $Id: LiteralExpr.java 1234 2006-11-08 16:47:30Z elharo $
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 * $Id: TrueFunction.java 1128 2006-02-05 21:49:04Z elharo $
 */
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* /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-jar/org/jaxen/function/TrueFunction.java
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$Id: XOMXPath.java 1161 2006-06-03 20:36:00Z elharo $

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-jar/org/jaxen/xom/XOMXPath.java

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* $Id: SumFunction.java 1128 2006-02-05 21:49:04Z elharo $
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-
  jar/org/jaxen/function/SumFunction.java
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* $Revision: 1396 $
* $Date: 2013-01-13 07:22:49 -0500 (Sun, 13 Jan 2013) $
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* $Id: StringFunction.java 1128 2006-02-05 21:49:04Z elharo $
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* /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-
  jar/org/jaxen/function/StringFunction.java
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* $Id: Dom4jXPath.java 1162 2006-06-03 20:52:26Z elharo $
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UnsupportedAxisException.java 1160 2006-06-03 20:26:02Z elharo $
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* $Id: StartsWithFunction.java 1128 2006-02-05 21:49:04Z elharo $
*/

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* /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-
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* $Id: ContainsFunction.java 1128 2006-02-05 21:49:04Z elharo $
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$Id: DocumentNavigator.java 1161 2006-06-03 20:36:00Z elharo $

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* $Id: DefaultModExpr.java 1261 2006-11-30 18:49:27Z elharo $
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* $Id: UnaryExpr.java 1247 2006-11-08 19:06:30Z elharo $
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* $Id: NameFunction.java 1128 2006-02-05 21:49:04Z elharo $
*/

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* /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-
jar/org/jaxen/function/NameFunction.java
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 * $Id: NodeTypeTest.java 1128 2006-02-05 21:49:04Z elharo $
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 * $Header$
 * $Revision: 1171 $
 * $Date: 2006-07-03 06:17:30 -0700 (Mon, 03 Jul 2006) $
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* $Id: DocumentNavigator.java 1171 2006-07-03 13:17:30Z elharo $
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* $Id: DefaultTruthExpr.java 1335 2008-11-30 14:20:38Z elharo $
*
* $Header$
* $Revision: 1162 $
* $Date: 2006-06-03 13:52:26 -0700 (Sat, 03 Jun 2006) $
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* $Id: IterablePrecedingSiblingAxis.java 1162 2006-06-03 20:52:26Z elharo $
*/

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* /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-
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 * $Header$
 * $Revision: 1193 $
 * $Date: 2006-09-15 13:41:38 -0700 (Fri, 15 Sep 2006) $
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* $Id: XPathReaderFactory.java 1193 2006-09-15 20:41:38Z elharo $
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* /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-
  jar/org/jaxen/saxpath/helpers/XPathReaderFactory.java
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* $Id: DefaultLogicalExpr.java 1128 2006-02-05 21:49:04Z elharo $
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* $Id: IterableSelfAxis.java 1162 2006-06-03 20:52:26Z elharo $
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* /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-
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* $Id: FilterExpr.java 1326 2008-04-27 01:56:10Z elharo $
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* $Id: DefaultPredicate.java 1261 2006-11-30 18:49:27Z elharo $
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* /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-
jar/org/jaxen/function/CeilingFunction.java
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* $Id: LastFunction.java 1128 2006-02-05 21:49:04Z elharo $
jar/org/jaxen/function/LastFunction.java

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 * $Header$
 * $Revision: 1237 $
 * $Date: 2006-11-08 09:17:32 -0800 (Wed, 08 Nov 2006) $
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 */
* $Id: NumberExpr.java 1237 2006-11-08 17:17:32Z elharo $ *

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* /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources.jar/org/jaxen/expr/NumberExpr.java

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* $Revision: 1261$ *
* $Date: 2006-11-30 10:49:27 -0800 (Thu, 30 Nov 2006)$ *
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* /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-
  jar/org/jaxen/expr/DefaultDivExpr.java
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* $Id: DefaultXPathHandler.java 1128 2006-02-05 21:49:04Z elharo $
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-jar/org/jaxen/saxpath/helpers/DefaultXPathHandler.java
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* *
* $Id: SubstringBeforeFunction.java 1128 2006-02-05 21:49:04Z elharo $
*/

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* /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0jaxen-1-1-6-sources-
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* $Id: XPathHandler.java 1128 2006-02-05 21:49:04Z elharo $
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* /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-
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$Id: DefaultStep.java 1128 2006-02-05 21:49:04Z elharo $

Found in path(s):
OPT\WS_LOCAL\PERMITS_SQL\1018361820_1591370763.9\0\jaxen-1-1-6-sources-
jar\org\jaxen\expr\DefaultStep.java
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* $Id: CountFunction.java 1128 2006-02-05 21:49:04Z elharo $
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  * $Id: Pattern.java 1134 2006-04-07 17:11:52Z elharo $
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* $Id: Axis.java 1133 2006-03-30 13:56:36Z elharo $
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JavaBeanXPath.java 1161 2006-06-03 20:36:00Z elharo
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 * $Id: NameTest.java 1128 2006-02-05 21:49:04Z elharo $
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* /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-
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* $Id: NamespaceContext.java 1168 2006-07-03 11:58:31Z elharo $
*/

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* /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources.jar/org/jaxen/NamespaceContext.java
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 * $Date: 2013-01-13 07:22:49 -0500 (Sun, 13 Jan 2013) $
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$Id: DefaultNotEqualsExpr.java 1396 2013-01-13 12:22:49Z elharo $

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* /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-
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* $Id: Predicated.java 1241 2006-11-08 18:07:25Z elharo $
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* $Id: XPathLexer.java 1334 2008-11-29 17:58:48Z elharo $
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* /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-jar/org/jaxen/saxpath/base/XPathLexer.java
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* $Id: DefaultAndExpr.java 1261 2006-11-30 18:49:27Z elharo $
* /

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1.26 spring-boot-starter-security 2.2.4

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* /opt/ws_local/PERMITS_SQL/1033178593_1588775717.01/0/spring-boot-starter-security-2-2-4-release-sources-jar/META-INF/maven/org.springframework.boot/spring-boot-starter-security/pom.xml

1.27 snappy-java 1.1.7.1

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* /opt/ws_local/PERMITS_SQL/1018361853_1591902693.78/0/snappy-java-1-1-7-1-sources-
jar/org/xerial/snappy/SnappyOutputStream.java
* /opt/ws_local/PERMITS_SQL/1018361853_1591902693.78/0/snappy-java-1-1-7-1-sources-
jar/org/xerial/snappy/package-info.java
* /opt/ws_local/PERMITS_SQL/1018361853_1591902693.78/0/snappy-java-1-1-7-1-sources-
jar/org/xerial/snappy/BitShuffle.java
* /opt/ws_local/PERMITS_SQL/1018361853_1591902693.78/0/snappy-java-1-1-7-1-sources-
jar/org/xerial/snappy/BitShuffleType.java
* /opt/ws_local/PERMITS_SQL/1018361853_1591902693.78/0/snappy-java-1-1-7-1-sources-
jar/org/xerial/snappy/BitShuffleNative.java
* /opt/ws_local/PERMITS_SQL/1018361853_1591902693.78/0/snappy-java-1-1-7-1-sources-
jar/org/xerial/snappy/BitShuffleNative.java
* /opt/ws_local/PERMITS_SQL/1018361853_1591902693.78/0/snappy-java-1-1-7-1-sources-
jar/org/xerial/snappy/BitShuffleNative.java
* /opt/ws_local/PERMITS_SQL/1018361853_1591902693.78/0/snappy-java-1-1-7-1-sources-
jar/org/xerial/snappy/SnappyException.java
* /opt/ws_local/PERMITS_SQL/1018361853_1591902693.78/0/snappy-java-1-1-7-1-sources-
jar/org/xerial/snappy/SnappyException.java
* /opt/ws_local/PERMITS_SQL/1018361853_1591902693.78/0/snappy-java-1-1-7-1-sources-
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* /opt/ws_local/PERMITS_SQL/1018361853_1591902693.78/0/snappy-java-1-1-7-1-sources-
jar/org/xerial/snappy/SnappyInputStream.java
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jar/org/xerial/snappy/SnappyInputStream.java
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jar/org/xerial/snappy/Snappy.java
* /opt/ws_local/PERMITS_SQL/1018361853_1591902693.78/0/snappy-java-1-1-7-1-sources-
jar/org/xerial/snappy/SnappyBundleActivator.java
* /opt/ws_local/PERMITS_SQL/1018361853_1591902693.78/0/snappy-java-1-1-7-1-sources-
jar/org/xerial/snappy/SnappyBundleActivator.java
* /opt/ws_local/PERMITS_SQL/1018361853_1591902693.78/0/snappy-java-1-1-7-1-sources-
jar/org/xerial/snappy/SnappyError.java

1.28 jersey 1.19.1
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## Source Code

The project maintains the following source code repositories:

* https://github.com/eclipse-ee4j/jaxb-api

## Third-party Content

This project leverages the following third party content.

None

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### 1.37 component-emitter 1.3.0

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1.38 powermock-module-junit4-common 2.0.0

1.39 getopt v0.6.0

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* org.eclipse.jetty.orbit:javax.security.auth.message

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* org.eclipse.jetty.orbit:javax.mail.glassfish

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https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

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Oracle OpenJDK

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* java.sun.security.ssl

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http://openjdk.java.net/legal/gplv2+ce.html

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org.ow2.asm:asm-commons
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org.apache.taglibs:taglibs-standard-spec
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org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
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org.apache.tomcat:tomcat-jasper-el
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https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jettyschemas

Assorted

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1.55 pbkdf2 3.0.17

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1.56 asm 7.1

1.57 ngclipboard 1.1.1

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lib/gssapi/mechglue/g_accept_sec_context.c
lib/gssapi/mechglue/g_acquire_cred.c
lib/gssapi/mechglue/g_canon_name.c
lib/gssapi/mechglue/g_context_time.c
lib/gssapi/mechglue/g_delete_sec_context.c
and the initial implementation of incremental propagation, including the following new or changed files:

include/iprop_hdr.h
kadmin/server/ipropd_svc.c
lib/kdb/iprop.x
lib/kdb/kdb_convert.c
lib/kdb/kdb_log.c
lib/kdb/kdb_log.h
lib/krb5/error_tables/kdb5_err.et
kprop/kpropd_rpc.c
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The implementations of GSSAPI mechglue in GSSAPI-SPNEGO in `src/lib/gssapi`, including the following files:

```
lib/gssapi/generic/gssapi_err_generic.et
lib/gssapi/mechglue/g_accept_sec_context.c
lib/gssapi/mechglue/g_acquire_cred.c
lib/gssapi/mechglue/g_canon_name.c
lib/gssapi/mechglue/g_compare_name.c
lib/gssapi/mechglue/g_context_time.c
lib/gssapi/mechglue/g_delete_sec_context.c
lib/gssapi/mechglue/g_dsp_name.c
lib/gssapi/mechglue/g_dsp_status.c
lib/gssapi/mechglue/g_dup_name.c
lib/gssapi/mechglue/g_exp_sec_context.c
lib/gssapi/mechglue/g_export_name.c
lib/gssapi/mechglue/g_glue.c
lib/gssapi/mechglue/g_imp_name.c
lib/gssapi/mechglue/g_imp_sec_context.c
lib/gssapi/mechglue/g_init_sec_context.c
lib/gssapi/mechglue/g_initialize.c
lib/gssapi/mechglue/g_inquire_context.c
lib/gssapi/mechglue/g_inquire_cred.c
lib/gssapi/mechglue/g_inquire_names.c
lib/gssapi/mechglue/g_process_context.c
lib/gssapi/mechglue/g_rel_buffer.c
lib/gssapi/mechglue/g_rel_cred.c
lib/gssapi/mechglue/g_rel_name.c
lib/gssapi/mechglue/g_rel_oid_set.c
lib/gssapi/mechglue/g_seal.c
lib/gssapi/mechglue/g_sign.c
lib/gssapi/mechglue/g_store_cred.c
lib/gssapi/mechglue/g_unseal.c
lib/gssapi/mechglue/g_userok.c
lib/gssapi/mechglue/g_utils.c
lib/gssapi/mechglue/g_verify.c
lib/gssapi/mechglue/gssd_pname_to_uid.c
lib/gssapi/mechglue/mglueP.h
lib/gssapi/mechglue/oid_ops.c
lib/gssapi/spnego/gssapiP_spnego.h
lib/gssapi/spnego/spnego_mech.c
```

and the initial implementation of incremental propagation, including the following new or changed files:
include/iprop_hdr.h
kadmin/server/ipropd_svc.c
lib/kdb/iprop.x
lib/kdb/kdb_convert.c
lib/kdb/kdb_log.c
lib/kdb/kdb_log.h
lib/krb5/error_tables/kdb5_err.et
kprop/kpropd_rpc.c
kprop/kproplog.c

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import os
import sys
import re

def warn(fname, ln, msg):
    print '{%s: %d: %s}' % (fname, ln + 1, msg)

def indicates_license(line):
    return 'Copyright' in line or 'COPYRIGHT' in line or 'License' in line

# Check a comment for boilerplate violations. Return true if the comment
# is a license statement.

def check_comment(comment, fname, ln, code_seen, nonlicense_seen):
    text_seen = False
    is_license = False
    for line in comment:
        if not is_license and indicates_license(line):
            is_license = True
        if text_seen:
            warn(fname, ln, 'License begins after first line of comment')
        elif code_seen:
            warn(fname, ln, 'License after code')
        elif nonlicense_seen:
            warn(fname, ln, 'License after non-license comments')
        break
        # DB2 licenses start with '/*-' and we don't want to change them.
        if line != '' and line != '-':
            text_seen = True
    return is_license

def check_file(lines, fname):
    # Skip emacs mode line if present.
    ln = 0
    if '-*- mode: c;' in lines[ln]:
        ln += 1
    # Check filename comment if present.
    m = re.match(r'\(\([^\^ \^\^]*\) (- \*)? */\^+\), lines[ln])
    if m:
        if m.group(1) != fname:
warn(fname, ln, 'Wrong filename in comment')
ln += 1

# Scan for license statements.
in_comment = False
code_seen = False
nonlicense_seen = False
for line in lines[ln:]:
    # Strip out whitespace and comments contained within a line.
    if not in_comment:
        line = re.sub(r'/\*.*?\*/', '', line)
        line = line.strip()
    if not in_comment and '/*' in line:
        (line, sep, comment_part) = line.partition('/*')
        comment = [comment_part.strip()]
        comment_starts_at = ln
        in_comment = True
    elif in_comment and '*/' not in line:
        comment.append(line.lstrip('*').lstrip())
    elif in_comment:
        (comment_part, sep, line) = line.partition('*/')
        comment.append(comment_part.strip())
    is_license = check_comment(comment, fname, comment_starts_at,
                                code_seen, nonlicense_seen)
    nonlicense_seen = nonlicense_seen or not is_license
    in_comment = False
    if line.strip() != '':
        code_seen = True
        ln += 1

for fname in sys.argv[1:]:
    if fname.startswith('./ '):
        fname = fname[2:]
    f = open(fname)
    lines = f.readlines()
    f.close()
    check_file(lines, fname)
.. _mitK5license:

MIT Kerberos License information
================================

.. toctree::
    :hidden:

    copyright.rst
.. include:: notice.rst

[NOTE: MIT has only incorporated the mechglue and spnego change, and not the incremental propagation changes. The filenames are different between the Sun and MIT sources. The actual MIT filenames appear in the top-level README file. Original text of Sun's LICENSE file follows.]

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cmd/krb5/iprop/iprop_hdr.h
cmd/krb5/kadmin/server/ipropd_svc.c
cmd/krb5/kproplog/kproplog.c
```

```
cmd/krb5/slave/kpropd_rpc.c
lib/gss_mechs/mech_krb5/et/kdb5_err.c
lib/gss_mechs/mech_spnego/mech/gssapiP_spnego.h
lib/gss_mechs/mech_spnego/mech/spnego_mech.c
lib/krb5/kadm5/kadm_host_srv_names.c
lib/krb5/kdb/kdb_convert.c
lib/krb5/kdb/kdb_hdr.h
lib/krb5/kdb/kdb_log.c
lib/krb5/kdb/kdb_log.h
lib/libgss/g_accept_sec_context.c
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lib/libgss/g_delete_sec_context.c
lib/libgss/g_dsp_name.c
lib/libgss/g_dsp_status.c
lib/libgss/g_dup_name.c
lib/libgss/g_exp_sec_context.c
lib/libgss/g_export_name.c
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lib/libgss/g_imp_name.c
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lib/libgss/g_imp_sec_context.c
lib/libgss/g_init_sec_context.c
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lib/libgss/g_process_context.c
lib/libgss/g_rel_buffer.c
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lib/libgss/g_unseal.c
lib/libgss/g_userok.c
lib/libgss/g_utils.c
lib/libgss/g_verify.c
lib/libgss/gssd_pname_to_uid.c
uts/common/gssapi/include/gssapi_err_generic.h
uts/common/gssapi/include/mechglueP.h

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- <code class="docutils literal"><span class="pre">g_acquire_cred.c</span></code>
- <code class="docutils literal"><span class="pre">g_canon_name.c</span></code>
- <code class="docutils literal"><span class="pre">g_compare_name.c</span></code>
- <code class="docutos literal"><span class="pre">g_context_time.c</span></code>
- <code class="docutils literal"><span class="pre">g_delete_sec_context.c</span></code>
- <code class="docutils literal"><span class="pre">g_dsp_name.c</span></code>
- <code class="docutils literal"><span class="pre">g_dsp_status.c</span></code>
- <code class="docutils literal"><span class="pre">g_dup_name.c</span></code>
- <code class="docutils literal"><span class="pre">g_exp_sec_context.c</span></code>
- <code class="docutils literal"><span class="pre">g_export_name.c</span></code>
and the initial implementation of incremental propagation, including
the following new or changed files:

```plaintext
include/iprop_hdr.h
kadmin/server/ipropd_svc.c
lib/kdb/iprop.x
lib/kdb/kdb_convert.c
lib/kdb/kdb_log.c
lib/kdb/error_tables/kdb5_err.et
kprop/kpropd_rpc.c
```

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1.60 json-smart 2.3

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# Ion.Range Slider 2.0.13
## Description

* Ion.RangeSlider — cool, comfortable, responsive and easily customizable range slider
* Supports events and public methods, has flexible settings, can be completely altered with CSS
* Cross-browser: Google Chrome, Mozilla Firefox 3.6+, Opera 12+, Safari 5+, Internet Explorer 8+
* Ion.RangeSlider supports touch-devices (iPhone, iPad, Nexus, etc.).
* With this plugin you will be able to build beautiful range sliders, like this:

![ion.rangeSlider](http://ionden.com/a/plugins/ion.rangeSlider/static/img/ion-range-slider.png)

## Key features

* Skin support. (5 skins included and PSD for skin creation)
* Any number of sliders at one page without conflicts and big performance problems
* Two slider types single (1 slider) and double (2 sliders)
* Support of negative and fractional values
* Ability to set custom step and snap grid to step
* Support of custom values diapason
* Customisable grid of values
* Ability to disable UI elements (min and max, current value, grid)
* Postfixes and prefixes for your numbers ($20, 20 € etc.)
* Additional postfix for maximum value (eg. $0 — $100<sup>+</sup>)
* Ability to prettify large numbers (eg. 10000000 -> 10 000 000 or 10.000.000)
* Slider writes its value right into input value field. This makes it easy to use in any html form
* Any slider value can be set through input data-attribute (eg. data-min="10")
* Slider supports disable param. You can set it true to make slider inactive
* Slider supports external methods (update, reset and remove) to control it after creation
* For advanced users slider has callbacks (onStart, onChange, onFinish, onUpdate). Slider pastes all its params to callback first argument as object
* Slider supports date and time

## Demos

* <a href="http://ionden.com/a/plugins/ion.rangeSlider/demo.html" class="switch__item">Basic demo</a>
* <a href="http://ionden.com/a/plugins/ion.rangeSlider/demo_advanced.html" class="switch__item">Advanced demo</a>
* <a href="http://ionden.com/a/plugins/ion.rangeSlider/demo_interactions.html" class="switch__item">Interactions"
## GitHub

* [GitHub page](https://github.com/IonDen/ion.rangeSlider)

## Update history

## Support

![pledgie](https://pledgie.com/campaigns/25694.png?skin_name=chrome)

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1.63 browserify-aes 1.2.0

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1.65 startpar 0.61 1

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1.68 kerberos 5-1.9

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cmd/krb5/slave/kpropd_rpc.c
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lib/gss_mechs/mech_spnego/mech/gssapiP_spnego.h
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lib/krb5/kadm5/kadm_host_srv_names.c
lib/krb5/kdb/kdb_convert.c
lib/krb5/kdb/kdb_hdr.h
lib/krb5/kdb/kdb_log.c
lib/krb5/kdb/kdb_log.h
lib/libgss/g_accept_sec_context.c
lib/libgss/g_acquire_cred.c
lib/libgss/g_canon_name.c
lib/libgss/g_compare_name.c
lib/libgss/g_context_time.c
lib/libgss/g_delete_sec_context.c
lib/libgss/g_dsp_name.c
lib/libgss/g_dsp_status.c
lib/libgss/g_dup_name.c
lib/libgss/g_exp_sec_context.c
lib/libgss/g_export_name.c
lib/libgss/g_glue.c
lib/libgss/g_imp_name.c
lib/libgss/g_imp_sec_context.c
lib/libgss/g_init_sec_context.c
lib/libgss/g_initialize.c
lib/libgss/g_inquire_context.c
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lib/gssapi/mechglue/g_accept_sec_context.c
lib/gssapi/mechglue/g_acquire_cred.c
lib/gssapi/mechglue/g_canon_name.c
lib/gssapi/mechglue/g_compare_name.c
lib/gssapi/mechglue/g_context_time.c
lib/gssapi/mechglue/g_delete_sec_context.c
lib/gssapi/mechglue/g_dsp_name.c
lib/gssapi/mechglue/g_dsp_status.c
lib/gssapi/mechglue/g_dup_name.c
lib/gssapi/mechglue/g_exp_sec_context.c
lib/gssapi/mechglue/g_export_name.c
lib/gssapi/mechglue/g_glue.c
lib/gssapi/mechglue/g_imp_name.c
lib/gssapi/mechglue/g_imp_sec_context.c
lib/gssapi/mechglue/g_init_sec_context.c
lib/gssapi/mechglue/g_initialize.c
lib/gssapi/mechglue/g_inquire_context.c
lib/gssapi/mechglue/g_inquire_cred.c
lib/gssapi/mechglue/g_inquire_names.c
lib/gssapi/mechglue/g_process_context.c
lib/gssapi/mechglue/g_rel_buffer.c
lib/gssapi/mechglue/g_rel_cred.c
lib/gssapi/mechglue/g_rel_name.c
lib/gssapi/mechglue/g_rel_oid_set.c
lib/gssapi/mechglue/g_seal.c
and the initial implementation of incremental propagation, including
the following new or changed files:

include/iprop_hdr.h
kadmin/server/ipropd_svc.c
lib/kdb/iprop.x
lib/kdb/kdb_convert.c
lib/kdb/kdb_log.c
lib/kdb/kdb_log.h
lib/krb5/error_tables/kdb5_err.et
kprop/kpropd_rpc.c
kprop/kproplog.c

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In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see http://www.zope.com). In 2001, the Python Software Foundation (PSF, see http://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

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Mersenne Twister
---------------

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A C-program for MT19937, with initialization improved 2002/1/26.
Coded by Takuji Nishimura and Makoto Matsumoto.

Before using, initialize the state by using init_genrand(seed)
or init_by_array(init_key, key_length).

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http://www.math.sci.hiroshima-u.ac.jp/~m-mat/MT/emt.html
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Sockets
-------

The `mod:` socket` module uses the functions, `:func:` getaddrinfo`, and
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MD5 message digest algorithm

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    L. Peter Deutsch
ghost@aladdin.com

Independent implementation of MD5 (RFC 1321).

This code implements the MD5 Algorithm defined in RFC 1321, whose text is available at

http://www.ietf.org/rfc/rfc1321.txt

The code is derived from the text of the RFC, including the test suite (section A.5) but excluding the rest of Appendix A. It does not include any code or documentation that is identified in the RFC as being copyrighted.

The original and principal author of md5.h is L. Peter Deutsch <ghost@aladdin.com>. Other authors are noted in the change history that follows (in reverse chronological order):

2002-04-13 lpd Removed support for non-ANSI compilers; removed references to Ghostscript; clarified derivation from RFC 1321; now handles byte order either statically or dynamically.
1999-11-04 lpd Edited comments slightly for automatic TOC extraction.
1999-10-18 lpd Fixed typo in header comment (ansi2knr rather than md5); added conditionalization for C++ compilation from Martin Purschke <purschke@bnl.gov>.
1999-05-03 lpd Original version.

Asynchronous socket services
----------------------------

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Modified by Jack Jansen, CWI, July 1995:
- Use binascii module to do the actual line-by-line conversion between ascii and binary. This results in a 1000-fold speedup. The C version is still 5 times faster, though.
- Arguments more compliant with Python standard
XML Remote Procedure Calls

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

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test_epoll

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1.76 randomfill 1.0.4

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1.79 lombok 1.18.10

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1.81 individual 3.0.0

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1.84 lz4-java 1.6.0

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1.89 bcprov-ext-jdk15on 1.62

1.90 jetty-xml 9.4.26.v20200117
1.90.1 Available under license:

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Eclipse

The following artifacts are EPL.
  * org.eclipse.jetty.orbit:org.eclipse.jdt.core

The following artifacts are EPL and ASL2.
  * org.eclipse.jetty.orbit:javax.security.auth.message

The following artifacts are EPL and CDDL 1.0.
  * org.eclipse.jetty.orbit:javax.mail.glassfish

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Oracle

The following artifacts are CDDL + GPLv2 with classpath exception.  
https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

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Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.  http://openjdk.java.net/legal/gplv2+ce.html

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OW2

The following artifacts are licensed by the OW2 Foundation according to the terms of http://asm.ow2.org/license.html

org.ow2.asm:asm-commons
org.ow2.asm:asm

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Apache

The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

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MortBay

The following artifacts are ASL2 licensed. Based on selected classes from
following Apache Tomcat jars, all ASL2 licensed.

org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

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Mortbay

The following artifacts are CDDL + GPLv2 with classpath exception.

https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

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1.102 jackson-databind 2.9.7
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Upstream source https://invisible-island.net/ncurses/ncurses-examples.html

Current ncurses maintainer: Thomas Dickey <dickey@invisible-island.net>

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-- vile: txtmode file-encoding=utf-8
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c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

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

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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.

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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.

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

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

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

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

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## Constant-time SSSE3 AES core implementation.

## version 0.1

## By Mike Hamburg (Stanford University), 2009

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1.123 spring-cloud-stream 3.0.0

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1.124 arraybuffer.slice 0.0.6

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```javascript
var sliceBuffer = require('arraybuffer.slice');
var ab = (new Int8Array(5)).buffer;
var sliced = sliceBuffer(ab, 1, 3);
sliced = sliceBuffer(ab, 1);
```

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* /opt/ws_local/PERMITS_SQL/1047774230_1591430399.74/0/arraybuffer-slice-0-0-6-3-tgz/package/README.md
1.125 **jackson-datatype-jsr310 2.10.2**

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1.126 **spring-integration-jmx 5.2.3**

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* /opt/ws_local/PERMITS_SQL/1033178652_1591204715.76/0/spring-integration-jmx-5-2-3-release-sources-jar/org/springframework/integration/jmx/config/JmxIntegrationConfigurationInitializer.java
* /opt/ws_local/PERMITS_SQL/1033178652_1591204715.76/0/spring-integration-jmx-5-2-3-release-sources-jar/org/springframework/integration/jmx/config/EnableIntegrationMBeanExport.java
* /opt/ws_local/PERMITS_SQL/1033178652_1591204715.76/0/spring-integration-jmx-5-2-3-release-sources-jar/org/springframework/integration/jmx/config/IntegrationMBeanExportConfiguration.java

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* /opt/ws_local/PERMITS_SQL/1033178652_1591204715.76/0/spring-integration-jmx-5-2-3-release-sources-jar/org/springframework/integration/jmx/DefaultMBeanAttributeFilter.java
* /opt/ws_local/PERMITS_SQL/1033178652_1591204715.76/0/spring-integration-jmx-5-2-3-release-sources-jar/org/springframework/integration/jmx/NotNamedFieldsMBeanAttributeFilter.java
* /opt/ws_local/PERMITS_SQL/1033178652_1591204715.76/0/spring-integration-jmx-5-2-3-release-sources-jar/org/springframework/integration/jmx/MBeanAttributeFilter.java
* /opt/ws_local/PERMITS_SQL/1033178652_1591204715.76/0/spring-integration-jmx-5-2-3-release-sources-jar/org/springframework/integration/jmx/NamedFieldsMBeanAttributeFilter.java
* /opt/ws_local/PERMITS_SQL/1033178652_1591204715.76/0/spring-integration-jmx-5-2-3-release-sources-jar/org/springframework/integration/jmx/MBeanObjectConverter.java
* /opt/ws_local/PERMITS_SQL/1033178652_1591204715.76/0/spring-integration-jmx-5-2-3-release-sources-jar/org/springframework/integration/jmx/MBeanTreePollingMessageSource.java
* /opt/ws_local/PERMITS_SQL/1033178652_1591204715.76/0/spring-integration-jmx-5-2-3-release-sources-jar/org/springframework/integration/jmx/DefaultMBeanObjectConverter.java
* /opt/ws_local/PERMITS_SQL/1033178652_1591204715.76/0/spring-integration-jmx-5-2-3-release-sources-jar/org/springframework/integration/jmx/config/MBeanTreePollingChannelAdapterParser.java

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* /opt/ws_local/PERMITS_SQL/1033178652_1591204715.76/0/spring-integration-jmx-5-2-3-release-sources-jar/org/springframework/integration/monitor/IntegrationMetadataMBeanInfoAssembler.java
* /opt/ws_local/PERMITS_SQL/1033178652_1591204715.76/0/spring-integration-jmx-5-2-3-release-sources-jar/org/springframework/integration/monitor/IntegrationMetadataNamingStrategy.java
* /opt/ws_local/PERMITS_SQL/1033178652_1591204715.76/0/spring-integration-jmx-5-2-3-release-sources-jar/org/springframework/integration/monitor/IntegrationJmxAttributeSource.java

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* /opt/ws_local/PERMITS_SQL/1033178652_1591204715.76/0/spring-integration-jmx-5-2-3-release-sources-jar/org/springframework/integration/jmx/AttributePollingMessageSource.java
* /opt/ws_local/PERMITS_SQL/1033178652_1591204715.76/0/spring-integration-jmx-5-2-3-release-sources-jar/org/springframework/integration/jmx/OperationInvokingMessageHandler.java
* /opt/ws_local/PERMITS_SQL/1033178652_1591204715.76/0/spring-integration-jmx-5-2-3-release-sources-jar/org/springframework/integration/jmx/config/OperationInvokingOutboundGatewayParser.java
* /opt/ws_local/PERMITS_SQL/1033178652_1591204715.76/0/spring-integration-jmx-5-2-3-release-sources-jar/org/springframework/integration/jmx/config/NotificationListeningChannelAdapterParser.java
* /opt/ws_local/PERMITS_SQL/1033178652_1591204715.76/0/spring-integration-jmx-5-2-3-release-sources-jar/org/springframework/integration/jmx/config/MBeanExporterHelper.java
* /opt/ws_local/PERMITS_SQL/1033178652_1591204715.76/0/spring-integration-jmx-5-2-3-release-sources-jar/org/springframework/integration/jmx/DefaultNotificationMapper.java
* /opt/ws_local/PERMITS_SQL/1033178652_1591204715.76/0/spring-integration-jmx-5-2-3-release-sources-jar/org/springframework/integration/jmx/config/JmxNamespaceHandler.java
* /opt/ws_local/PERMITS_SQL/1033178652_1591204715.76/0/spring-integration-jmx-5-2-3-release-sources-jar/org/springframework/integration/jmx/config/AttributePollingChannelAdapterParser.java
* /opt/ws_local/PERMITS_SQL/1033178652_1591204715.76/0/spring-integration-jmx-5-2-3-release-sources-jar/org/springframework/integration/jmx/config/NotificationPublishingChannelAdapterParser.java
* /opt/ws_local/PERMITS_SQL/1033178652_1591204715.76/0/spring-integration-jmx-5-2-3-release-sources-jar/org/springframework/integration/jmx/config/OperationInvokingChannelAdapterParser.java
1.127 streams 1.1.0

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1.128 springsecuritysaml 1.0.9

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1.130 angular-upgrade 9.0.7

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 */

/**
 * @module
 *
 * @description
 * Entry point for all public APIs of the common package.
 */

import {Version} from '@angular/core';

/**
 * @publicApi
 */
export const VERSION = new Version('9.0.7');

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 */

export type Ng1Token = string;

export type Ng1Expression = string | Function;

export interface IAnnotatedFunction extends Function {
  // Older versions of '@types/angular' typings extend the global 'Function' interface with
  // `$inject? : string[]`, which is not compatible with `$inject?: ReadonlyArray<string>` (used in
  // latest versions).
  $inject?: string[];
}

export type IInjectable = (Ng1Token | Function)[] | IAnnotatedFunction;

export type SingleOrListOrMap<T> = T | T[] | { [key: string]: T };

export interface IModule {
  name: string;
  requires: (string | IInjectable)[];
  config(fn: IInjectable): IModule;
  directive(selector: string, factory: IInjectable): IModule;
  component(selector: string, component: IComponent): IModule;
  controller(name: string, type: IInjectable): IModule;
  factory(key: Ng1Token, factoryFn: IInjectable): IModule;
  value(key: Ng1Token, value: any): IModule;
  constant(token: Ng1Token, value: any): IModule;
  run(a: IInjectable): IModule;
}

export interface ICompileService {
  (element: Element | NodeList | Node[] | string, transclude?: Function): ILinkFn;
}

export interface ILinkFn {
  (scope: IScope, cloneAttachFn?: ICloneAttachFunction, options?: ILinkFnOptions): IAugmentedJQuery;
  $$slots?: {
    [slotName: string]: ILinkFn
  };
}

export interface ILinkFnOptions {
  parentBoundTranscludeFn?: Function;
  futureParentElement?: Node;
}

export interface IRootScopeService {
  $new(isolate?: boolean): IScope;
  $id: string;
  $parent: IScope;
  $root: IScope;
  $watch(exp: Ng1Expression, fn?: (a1?: any, a2?: any) => void): Function;
  $on(event: string, fn?: (event?: any, ...args: any[]) => void): Function;
  $destroy(): any;
  $apply(exp?: Ng1Expression): any;
  $digest(): any;
  $evalAsync(exp: Ng1Expression, locals?: any): void;
  $$childTail: IScope;
  $$childHead: IScope;
  $$nextSibling: IScope;
}

export interface IDirective {
  compile?: IDirectiveCompileFn;
  controller?: IController;
  controllerAs?: string;
  bindToController?: boolean | { [key: string]: string };
  link?: IDirectiveLinkFn | IDirectivePrePost;
  name?: string;
  priority?: number;
  require?: DirectiveRequireProperty;
  restrict?: string;
  scope?: boolean | { [key: string]: string };
  template?: string | Function;
  templateUrl?: string | Function;
  templateNamespace?: string;
  terminal?: boolean;
  transclude?: DirectiveTranscludeProperty;
}
```

Open Source Used In MSX vBranch Service Pack 3.9.0 1013
boolean) => IInjectorService,
version: {major: number},
resumeBootstrap: () => void,
getTestability: (e: Element) => ITestabilityService
\} = {
  bootstrap: noNg,
  module: noNg,
  element: noNgElement,
injector: noNg,
version: undefined as any,
resumeBootstrap: noNg,
getTestability: noNg
};

try {
  if (window.hasOwnProperty('angular')) {
    angular = (<any>window).angular;
  }
} catch {
  // ignore in CJS mode.
}

/**
 * @deprecated Use `setAngularJSGlobal` instead.
 *
 * @publicApi
 */
export function setAngularLib(ng: any): void {
  setAngularJSGlobal(ng);
}

/**
 * @deprecated Use `getAngularJSGlobal` instead.
 *
 * @publicApi
 */
export function getAngularLib(): any {
  return getAngularJSGlobal();
}

/**
 * Resets the AngularJS global.
 *
 * Used when AngularJS is loaded lazily, and not available on `window`.
 *
 * @publicApi
 */
export function setAngularJSGlobal(ng: any): void {
  angular = ng;
}

/**
 * Returns the current AngularJS global.
 *
 * @publicApi
 */
export function getAngularJSGlobal(): any {
  return angular;
}

export const bootstrap: typeof angular.bootstrap = (e, modules, config?) =>
    angular.bootstrap(e, modules, config);

// Do not declare as `module` to avoid webpack bug
// (see https://github.com/angular/angular/issues/30050).
export const module_: typeof angular.module = (prefix, dependencies?) =>
    angular.module(prefix, dependencies);

export const element: typeof angular.element = (e => angular.element(e)) as typeof angular.element;
element.cleanData = nodes =>
    angular.element.cleanData(nodes);

export const injector: typeof angular.injector =
    (modules: Array<string|IInjectable>, strictDi?: boolean) => angular.injector(modules, strictDi);

export const resumeBootstrap: typeof angular.resumeBootstrap = () => angular.resumeBootstrap();

export const getTestability: typeof angular.getTestability = e => angular.getTestability(e);

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export const $COMPILE = '$compile';
export const $CONTROLLER = '$controller';
export const $DELEGATE = '$delegate';
export const $EXCEPTION_HANDLER = '$exceptionHandler';
export const $HTTP_BACKEND = '$httpBackend';
export const $INJECTOR = '$injector';
export const $INTERVAL = '$interval';
export const $PARSE = '$parse';
export const $PROVIDE = '$provide';
export const $ROOT_SCOPE = '$rootScope';
export const $SCOPE = '$scope';
export const $TEMPLATE_CACHE = '$templateCache';
export const $TEMPLATE_REQUEST = '$templateRequest';

export const $$TESTABILITY = '$$testability';

export const COMPILER_KEY = '$$angularCompiler';
export const DOWNGRADED_MODULE_COUNT_KEY = '$$angularDowngradedModuleCount';
export const GROUP_PROJECTABLE_NODES_KEY = '$$angularGroupProjectableNodes';
export const INJECTOR_KEY = '$$angularInjector';
export const LAZY_MODULE_REF = '$$angularLazyModuleRef';
export const NG_ZONE_KEY = '$$angularNgZone';
export const REQUIRE_INJECTOR = '$$UpgradeModule';
export const REQUIRE_NG_MODEL = '

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import {Injector, Type} from...
import {INgModelController, IInjectorService} from './angular1';
import {DOWNGRADED_MODULE_COUNT_KEY, UPGRADE_APP_TYPE_KEY} from './constants';

const DIRECTIVE_PREFIX_REGEXP = /(^\w+:\-\_\w+)?\w+/i;
const DIRECTIVE_SPECIAL_CHARS_REGEXP = /[\-\s]+(.)/g;

export function onError(e: any) {
  // TODO: (misko): We seem to not have a stack trace here!
  if (console.error) {
    console.error(e, e.stack);
  } else {
    // tslint:disable-next-line:no-console
    console.log(e, e.stack);
  }
  throw e;
}

export function controllerKey(name: string): string {
  return '$' + name + 'Controller';
}

export function directiveNormalize(name: string): string {
  return name.replace(DIRECTIVE_PREFIX_REGEXP, '')
      .replace(DIRECTIVE_SPECIAL_CHARS_REGEXP, (_, letter) => letter.toUpperCase());
}

export function getTypeName(type: Type<any>): string {
  // Return the name of the type or the first line of its stringified version.
  return (type as any).overriddenName || type.name || type.toString().split('
')[0];
}

export function getDowngradedModuleCount($injector: IInjectorService): number {
  return $injector.has(DOWNGRADED_MODULE_COUNT_KEY) ? $injector.get(DOWNGRADED_MODULE_COUNT_KEY) : 0;
}

export function getUpgradeAppType($injector: IInjectorService): UpgradeAppType {
  return $injector.has(UPGRADE_APP_TYPE_KEY) ? $injector.get(UPGRADE_APP_TYPE_KEY) : UpgradeAppType.None;
}

export function isFunction(value: any): value is Function {
  return typeof value === 'function';
}

export class Deferred<R> {
  promise: Promise<R>;
  resolve!: (value?: R | PromiseLike<R>) => void;
  reject!: (error?: any) => void;

  constructor() {
    this.promise = new Promise((res, rej) => {
      this.resolve = res;
      this.reject = rej;
    });
  }
}

export interface LazyModuleRef {
  injector?: Injector;
  promise?: Promise<Injector>;
}

const enum UpgradeAppType {
  None,
  Dynamic,
  Static,
  Lite,
}

/**
 * @return Whether the passed-in component implements the subset of the
 *     AngularJS `ng-model` compatibility.
 * *
 * @param component The component to check.
 * @return true if the component has the `formControl`, `formControlName`, `formControlStatus`, and `formControlErrors`
 *     properties defined.
 */
export function supportsNgModel(component: any) {
  return typeof component.writeValue === 'function' &&
      typeof component.registerOnChange === 'function';
}

/**
 * Glue the AngularJS `NgModelController` (if it exists) to the component
 * (if it implements the needed subset of the `ControlValueAccessor` interface).
 * *ngModel function hookupNgModel(ngModel: INgModelController, component: any) {
 *   if (ngModel & & supportsNgModel(component)) {
 *     ngModel.$render = () => {
 *       component.writeValue(ngModel.$viewValue);
 *     };
 *     component.registerOnChange(ngModel.$setViewValue);
 *   }
 */
```typescript
component.registerOnTouched == typeof function) {

  component.registerOnTouched(ngModel.$setTouched.bind(ngModel));
}

if (component.registerOnTouched !== typeof function) {
  component.registerOnTouched(ngModel.$setTouched.bind(ngModel));
}

if (component.registerOnTouched !== 'function') {
    component.registerOnTouched(ngModel.$setTouched.bind(ngModel));
  }
}

/**
 * Test two values for strict equality, accounting for the fact that 'NaN' !== NaN.
 */
export function strictEquals(val1: any, val2: any): boolean {
  return val1 === val2 || (!val1 && !val2);
}

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import {ApplicationRef, ChangeDetectorRef,
  ComponentFactory, ComponentRef, EventEmitter, Injector, OnChanges, SimpleChange, SimpleChanges,
  StaticProvider, Testability, TestabilityRegistry, Type} from '@angular/core';
import {IAttributes,
  IAugmentedJQuery, ICompileService, INgModelController, IParseService, IScope} from
  './angular1';
import {PropertyBinding} from './component_info';
import {$SCOPE} from './constants';
import {getTypeName, hookupNgModel, strictEquals} from './util';

const INITIAL_VALUE = {
  __UNINITIALIZED__: true
};

export class DowngradeComponentAdapter {
  private implementsOnChanges = false;
  private inputChangeCount: number = 0;
  private inputChanges: SimpleChanges = {};
  private componentScope: IScope;
  // TODO(issue/24571): remove '!'.
  private componentRef!: ComponentRef<any>;
  private component: any;
  // TODO(issue/24571): remove '!'.
  private changeDetector!: ChangeDetectorRef;
  // TODO(issue/24571): remove '!'.
  private viewChangeDetector!: ChangeDetectorRef;

  constructor(
      private element: IAugmentedJQuery, private attrs: IAttributes, private scope: IScope,
      private ngModel: INgModelController, private parentInjector: Injector,
      private $injector: IInjectorService, private $compile: ICompileService,
      private $parse: IParseService, private componentFactory: ComponentFactory<any>,
      private wrapCallback: <T>(cb: () => T) => () => T) {
    this.componentScope = scope.$new();
  }

  compileContents(): Node[][] {
    const compiledProjectableNodes: Node[][] = [];
    const projectableNodes: Node[][] = this.groupProjectableNodes();
    const linkFns = projectableNodes.map(nodes => this.$compile(nodes));

    this.element.empty();

    linkFns.forEach(linkFn => {
      linkFn(this.scope,
        (clone: Node[]) => {
          compiledProjectableNodes.push(clone);
          this.element.append(clone);
        });
    });

    return compiledProjectableNodes;
  }

  createComponent(projectableNodes: Node[][]) {
    const
    providers: StaticProvider[] = [{provide: $SCOPE, useValue: this.componentScope}];
    const childInjector = Injector.create(
        {providers: providers, parent: this.parentInjector, name:
          'DowngradeComponentAdapter'});
    this.componentInstance = this.componentFactory.create(childInjector,
      projectableNodes, this.element[0]);
    this.viewChangeDetector = this.componentInstance.changeDetectorRef;
    this.changeDetector = this.componentInstance.changeDetectorRef;
    this.component = this.componentInstance.instance;
  }

  setupInputs(manuallyAttachView: boolean,
    propagateDigest = true): void {
    const attrs = this.attrs;
    const inputs = this.componentFactory.inputs || [];

    for (let i = 0; i < inputs.length; i++) {
      const input = new PropertyBinding(inputs[i].propName,
       inputs[i].templateName);
      let expr: string|null = null;

      if (attrs.hasOwnProperty(input.attr)) {
        const observeFn = (prop => {
          let prevValue = INITIAL_VALUE;
          return (currValue: any) => {
            // Initially, both `$observe()` and `$watch()` will call this function.
            if (!strictEquals(prevValue, currValue)) {
              if (prevValue === INITIAL_VALUE) {
                prevValue = currValue;
              }

              this.updateInput(prop, prevValue, currValue);
              prevValue = currValue;
            }
          };

          if (prop === 'input') {
            let prevValue = INITIAL_VALUE;
            return (currValue: any) => {
              // Initially, both `$observe()` and `$watch()` will call this function.
              if (!strictEquals(prevValue, currValue)) {
                this.updateInput(prop, prevValue, currValue);
                prevValue = currValue;
              }
            };
          }

          attrs.$observe(input.attr, observeFn);
          attrs.$watch(input.attr, observeFn);
          // Use `$watch()` (in addition to `$observe()`) in order to initialize the input in time.
          // For `ngOnChanges()`, this is necessary if we are already in a `$digest`,
          // which means that in `ngOnChanges()` (which is called by a watcher) will run before the `$observe()`
          // callback.
          let unwatch: Function|null = this.componentInstance.$watch(() => {
            return (currValue: any) => {
              // Initially, both `$observe()` and `$watch()` will call this function.
              if (!strictEquals(prevValue, currValue)) {
                this.updateInput(prop, prevValue, currValue);
                prevValue = currValue;
              }
            };
          };
```
unwatch = null

if (attrs.hasOwnProperty(input.bindAttr)) {
    expr = attrs[input.bindAttr];
} else if (attrs.hasOwnProperty(input.bracketAttr)) {
    expr = attrs[input.bracketAttr];
} else if (attrs.hasOwnProperty(input.bindonAttr)) {
    expr = attrs[input.bindonAttr];
} else if (attrs.hasOwnProperty(input.bracketParenAttr)) {
    expr = attrs[input.bracketParenAttr];
}

if (expr != null) {
    const watchFn =
        (prop => (currValue: any, prevValue: any) =>
            this.updateInput(prop, prevValue, currValue))(input.prop);
    this.componentScope.$watch(expr, watchFn);
}

// Invoke `ngOnChanges()` and Change Detection
this.componentScope.$watch(() => this.inputChangeCount,
  this.wrapCallback(() => {
    // Invoke `ngOnChanges()`
    if (this.implementsOnChanges) {
      const inputChanges = this.inputChanges;
      this.inputChanges = {};
      (<OnChanges>this.component).ngOnChanges(inputChanges);
    }
    this.viewChangeDetector.markForCheck();
    // If opted out of propagating digests, invoke change detection
    if (!propagateDigest) {
      detectChanges();
    }
    // If necessary, attach the view so that
    // (Allow time for the initial input values to be set and `ngOnChanges()` to be called.)
    if (manuallyAttachView || !propagateDigest) {
        let unwatch: Function|null = this.componentScope.$watch(() =>
            unwatch !();
        unwatch = null;
        const appRef =
            this.parentInjector.get<ApplicationRef>(ApplicationRef);
        appRef.attachView(this.componentRef.hostView);
    }
    // If not opted out of propagating digests, invoke change detection on every digest
    if (propagateDigest) {
      this.componentScope.$watch(this.wrapCallback(detectChanges));
    }
    // If opted out of propagating digests, invoke change detection on every digest
    if (!propagateDigest) {
      detectChanges();
    }
    // If necessary, attach the view so that
    // (Allow time for the initial input values to be set and `ngOnChanges()` to be called.)
    if (manuallyAttachView || !propagateDigest) {
        let unwatch: Function|null = this.componentScope.$watch(() =>
            unwatch !();
        unwatch = null;
    }
  });
}

setupOutputs() {
    const attrs =
        this.attrs;
    const outputs = this.componentFactory.outputs || [];
    for (let j = 0; j < outputs.length; j++) {
        const output = new PropertyBinding(outputs[j].propName, outputs[j].templateName);
        const bindonAttr =
            output.bindonAttr.substring(0, output.bindonAttr.length - 6);
        const bracketParenAttr =
            `[$({output.bracketParenAttr.substring(2, output.bracketParenAttr.length - 8)})]`;
        // order below is important -
        // first update bindings then evaluate expressions
        if (attrs.hasOwnProperty(bindonAttr)) {
            this.subscribeToOutput(output, attrs[bindonAttr], true);
        }
        if (attrs.hasOwnProperty(bracketParenAttr)) {
            this.subscribeToOutput(output, attrs[bracketParenAttr], true);
        }
        if (attrs.hasOwnProperty(output.onAttr)) {
            this.subscribeToOutput(output, attrs[output.onAttr]);
        }
        if (attrs.hasOwnProperty(output.parenAttr)) {
            this.subscribeToOutput(output, attrs[output.parenAttr]);
        }
    }
}

private subscribeToOutput(output: PropertyBinding, expr: string, isAssignment: boolean = false) {
    const getter = this.$parse(expr);
    const setter = getter.assign;
    if (isAssignment && !setter) {
        throw new Error(`Expression '${expr}' is not assignable!`);
    }
    const emitter = this.component[output.prop] as
        EventEmitter<any>;
    if (emitter) {
        emitter.subscribe({
            next: isAssignment ? (v: any) => setter
(JScope, v) :
            (v: any) => getter(JScope, {'$event': v})
        });
    } else {
        throw new Error(`Missing emitter '${output.prop}' on component`);
    }
}

registerCleanup() {
    const testabilityRegistry = this.componentRef.injector.get(TestabilityRegistry);
    const destroyComponentRef = this.componentRef.destroy();
    const destroy = true;
    this.componentRef.injector.getInjector().return(this.componentRef.injector);
    const ngContentSelectors = this.componentFactory.ngContentSelectors;
    return

into `ngContent` groups, based on the given content selectors.

```typescript
function groupNodesBySelector(ngContentSelectors: string[], nodes: Node[]): Node[][] {
  const projectableNodes: Node[][] = [];
  let wildcardNgContentIndex = -1;

  for (let i = 0; i < ngContentSelectors.length; i++) {
    const ngContentIndex = findMatchingNgContentIndex(node, ngContentSelectors);
    if (ngContentIndex != null) {
      projectableNodes[ngContentIndex].push(node);
    }
  }

  return projectableNodes;
}

function findMatchingNgContentIndex(element: any, ngContentSelectors: string[]): number|null {
  const ngContentIndices: number[] = [];
  for (let i = 0; i < ngContentSelectors.length; i++) {
    const selector = ngContentSelectors[i];
    if (selector === '*') {
      wildcardNgContentIndex = i;
    } else if (matchesSelector(element, selector)) {
      ngContentIndices.push(i);
    }
  }

  ngContentIndices.sort();

  if (wildcardNgContentIndex !== -1) {
    ngContentIndices.push(wildcardNgContentIndex);
  }
  return ngContentIndices.length ? ngContentIndices[0] : null;
}
```

```typescript
function matchesSelector(el: any, selector: string): boolean {
  if (!_matches) {
    const elProto = <any>Element.prototype;
    _matches = elProto.matches ||
        elProto.matchesSelector ||
        elProto.mozMatchesSelector ||
        elProto.msMatchesSelector ||
        elProto.oMatchesSelector ||
        elProto.webkitMatchesSelector;
  }
  return el.nodeType === Node.ELEMENT_NODE ? _matches.call(el, selector) : false;
}
```

```typescript
export class SyncPromise<T> {
  protected value: T|undefined;
  private resolved = false;
  private callbacks: ((value: T) => unknown)[] = [];

  static all<T>(valuesOrPromises: (T|Thenable<T>)[]): SyncPromise<T[]> {
    const aggrPromise = new SyncPromise<T>();

    let resolvedCount = 0;
    const results: T[] = [];
    const resolve = (idx: number, value: T) => {
      results[idx] = value;
      if (++resolvedCount === valuesOrPromises.length) aggrPromise.resolve(results);
    };

    valuesOrPromises.forEach((p, idx) => {
      if (isThenable(p)) {
        p.then(v => resolve(idx, v));
      } else {
        resolve(idx, p);
      }
    });

    return aggrPromise;
  }

  resolve(value: T): void {
    if (this.resolved) return;

    this.value = value;
    this.resolved = true;

    this.callbacks.forEach(callback => callback(value));
    this.callbacks.length = 0;
  }

  then(callback: (value: T) => unknown): void {
    if (this.resolved) {
      callback(this.value !);
    } else {
      this.callbacks.push(callback);
    }
  }
}
```

```typescript
export class DowngradeComponentAdapter {
  constructor(private downgradeComponent: DowngradeComponentAdapter, private ng2Heroes: Ng2Heroes) {
  // Adapter logic...
}
```

```typescript
export class downgrade_component_adapter {
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```
AngularJS templates.

* The `downgradeComponent()` function returns a factory function that we can use to define the AngularJS directive that wraps the `downgraded` component.

* For more details and examples on downgrading Angular components to AngularJS components please visit the [Upgrade guide](guide/upgrade#using-angular-components-from-angularjs-code).

* AngularJS templates.

* The `downgradeComponent()` function returns a factory function that we can use to define the AngularJS directive that wraps the `downgraded` component. The type of the Component that will be downgraded is `component: Type<any>`: The name of the downgraded module (if any) that the component belongs to, as returned by a call to `downgradeModule()`. It is the module, whose corresponding Angular module will be bootstrapped, when the component needs to be instantiated. (This option is only necessary when using `downgradeModule()` to downgrade more than one Angular module.) *

* `propagateDigest?`: boolean: Whether to perform change detection on the component on every `*` change detection will still be performed when any of the component's inputs changes. (Default: true) *

* `inputs?: string[]`: The parameter is no longer used. (Since v4. This parameter is no longer used.) *

* `outputs?: string[]`: The parameter is no longer used. (Since v4. This parameter is no longer used.) *

* `selectors?: string[]`: The parameter is no longer used. (Since v4. This parameter is no longer used.) *

* `component: Type<any>`: The type of the Component that will be downgraded. *

* `downgradedModule?: string`: The name of the downgraded module (if any) that the component belongs to, as returned by a call to `downgradeModule()`. It is the module, whose corresponding Angular module will be bootstrapped, when the component needs to be instantiated. (This option is only necessary when using `downgradeModule()` to downgrade more than one Angular module.) *

* `propagateDigest?: boolean`: Whether to perform change detection on the component on every `*` change detection will still be performed when any of the component's inputs changes. (Default: true) *

* `inputs?: string[]`: The parameter is no longer used. (Since v4. This parameter is no longer used.) *

* `outputs?: string[]`: The parameter is no longer used. (Since v4. This parameter is no longer used.) *

* `selectors?: string[]`: The parameter is no longer used. (Since v4. This parameter is no longer used.) *

* `component: Type<any>`: The type of the Component that will be downgraded. *

* `downgradedModule?: string`: The name of the downgraded module (if any) that the component belongs to, as returned by a call to `downgradeModule()`. It is the module, whose corresponding Angular module will be bootstrapped, when the component needs to be instantiated. (This option is only necessary when using `downgradeModule()` to downgrade more than one Angular module.) *

* `propagateDigest?: boolean`: Whether to perform change detection on the component on every `*` change detection will still be performed when any of the component's inputs changes. (Default: true) *

* `inputs?: string[]`: The parameter is no longer used. (Since v4. This parameter is no longer used.) *

* `outputs?: string[]`: The parameter is no longer used. (Since v4. This parameter is no longer used.) *

* `selectors?: string[]`: The parameter is no longer used. (Since v4. This parameter is no longer used.)
`parentInjector`), we bootstrap the downgraded
        // `finalModuleInjector` and
        // `finalParentInjector`. We do this because there is only
        // one downgraded module, we use that `parentInjector` as
        // both
        `finalModuleInjector` and
        `finalParentInjector`. If there is a parent component, but it may belong
        to a different `NgModule`, then we use the `parentInjector` as `finalParentInjector` and this downgraded component's
        // declaring `NgModule`'s injector as `finalModuleInjector`.
        // Note 1: If the
        `NgModule` is already bootstrapped, we just get its injector (we don't
        // bootstrap again).
        // Note 2: It is possible that (while there are multiple downgraded modules) this
        // downgraded component and
        its parent component both belong to the same `NgModule`. In that case, we could have used the
        `parentInjector` as both
        `finalModuleInjector` and `finalParentInjector`, but (for simplicity) we are
        // treating this case as if they belong to different `NgModule`'s. That doesn't
        // really affect
        anything, since `parentInjector` has `moduleInjector` as ancestor
        // and trying to resolve
        `ComponentFactoryResolver` from either one will return
        // the same instance.
        // If there is a parent component, use its injector as parent injector.
        // If this is a "top-level" Angular component, use the
        module injector.
        const finalParentInjector = parentInjector || moduleInjector !;

        // If this is a "top-level" Angular component or the parent component may belong to a
        different `NgModule`, use the module
        injector for module-specific dependencies.
        // If there is a parent component that belongs to the same
        `NgModule`, use its injector.
        const finalModuleInjector = moduleInjector || parentInjector !;

        const
        doDowngrade = (injector: Injector, moduleInjector: Injector) => {
          // Retrieve `ComponentFactoryResolver` from the injector tied to the
          `NgModule` this
          // component belongs to.
          const injectorPromise = new ParentInjectorPromise(element);
          const facade = new
          DowngradeComponentAdapter(
              element, attrs, scope, ngModel, injector, $injector, $compile, $parse,
              componentFactory, wrapCallback);

          const projectableNodes = facade.compileContents();
          facade.createComponent(projectableNodes);
          facade.setupInputs(isNgUpgradeLite, info.propagateDigest);
          facade.setupOutputs();
          facade.registerCleanup();

          injectorPromise.resolve(facade.getInjector());

          if (ranAsync) {
            // If this is run async, it is possible
            // that it is not run inside a
            // digest and initial input values will not be detected.
            scope.$evalAsync(() => {});
          }
        };

        const downgradeFn =
            !isNgUpgradeLite ? doDowngrade : (pInjector: Injector, mInjector: Injector) => {
              if (!ngZone) {
                ngZone = pInjector.get(NgZone);
              }

              wrapCallback(() => doDowngrade(pInjector, mInjector))();
            };

        // NOTE:
        // Not
        using `ParentInjectorPromise.all()` (which is inherited from `SyncPromise`), because
        // Closure Compiler (or
        // some related tool) complains:
        // `TypeError: $scope$downgrade_component_ParentInjectorPromise.all is not a
        function
        SyncPromise.all([finalParentInjector, finalModuleInjector])
            .then(([pInjector, mInjector]) =>
                  "downgradeFn(pInjector, mInjector))();
                // bracket-notation because of closure - see #14441
directiveFactory['$inject'] = [SCOMPILE, SINJECTOR, SPARSE];

        return
        directiveFactory;
      }

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      Reserved.
      * Use of this source code is governed by an MIT-style license that can be
      found in the
LICENSE file at https://angular.io/license

```javascript
import {Injector} from '@angular/core';
import {INInjectorService} from './angular1';
import {$INJECTOR, INJECTOR_KEY} from './constants';
import {getTypeName, isFunction, validateInjectionKey} from './util';

/**
 * @description
 *
 * A helper function to allow an Angular service to be accessible from AngularJS.
 * @param token an `InjectionToken` that identifies a service provided from Angular.
 * @param downgradedModule the name of the downgraded module (if any) that the injectable
 * "belongs to", as returned by a call to `downgradeModule()`. It is the module, whose injector will be used for instantiating the
 * injectable. <br/>
 * (This option is only necessary when using `downgradeModule()` to downgrade more than one
 * Angular service.)
 *
 * @returns a [factory function](https://docs.angularjs.org/guide/di) that can be used to register the service on an AngularJS module.
 * @publicApi
 */
export function downgradeInjectable(token: any, downgradedModule: string = ''): Function {
  const factory = function($injector: IInjectorService) {
    const injectorKey = `${INJECTOR_KEY}${downgradedModule}`;
    const injectableName = isFunction(token) ? getTypeName(token) : String(token);
    const attemptedAction = `instantiating injectable '${injectableName}'`;

    validateInjectionKey($injector, downgradedModule, injectorKey, attemptedAction);

    const injector: Injector = $injector.get(injectorKey);
    return injector.get(token);
  };
  (factory as any)['$inject'] = [$INJECTOR];

  return factory;
}
```

```javascript
import {ElementRef, Injector, SimpleChanges} from '@angular/core';

import {DirectiveRequireProperty, IAugmentedJQuery, ICloneAttachFunction, IControllerService, IDirective, IHTTPEndpoint, IInjectorService, ILinkFn, IScroll, ITemplateCacheService, SingleOrListOrMap, element as angularElement} from './angular1';
import {$COMPILE, $CONTROLLER, $HTTP_BACKEND, $INJECTOR, $TEMPLATE_CACHE} from './constants';
import {controllerKey, directiveNormalize, isFunction} from './util';

// Constants
const REQUIRE_PREFIX_RE = /^(\^\^?)?(\?)?(\^\^?)?/;

// Interfaces
export interface IBindingDestination {
  [key: string]: any;
  $onChanges?: (changes: SimpleChanges) => void;
}

export interface IControllerInstance extends IBindingDestination {
  $doCheck?: () => void;
  $onDestroy?: () => void;
  $onInit?: () => void;
  $postLink?: () => void;
}

// Classes
export class UpgradeHelper {
  public readonly $injector: IInjectorService;
  public readonly element: ElementRef;
  public readonly $element: IAugmentedJQuery;
  public readonly directive: IDirective;

  private readonly $compile: ICompileService;
  private readonly $controller: IControllerService;

  constructor(
      private injector: Injector, private name: string, elementRef: ElementRef,
      directive?: IDirective) {
    this.$injector = injector.get($INJECTOR);
    this.$compile =
this.$injector.get($COMPILE);
this.$controller = this.$injector.get($CONTROLLER);
this.element = elementRef.nativeElement;
this.$element = angularElement(this.element);
this.directive = directive || UpgradeHelper.getDirective(this.$injector, name);

this.$injector.get($COMPILE);
this.$controller = this.$injector.get($CONTROLLER);

this.$element = angularElement(this.element);
this.$element = angularElement(this.element);

this.directive = directive || UpgradeHelper.getDirective(this.$injector, name);

if (directives.length > 1) {
  throw new Error('Only support single directive definition for: $name');
}

this.$injector.get($COMPILE);

if (directive.compile & !directive.link) notSupported(name, 'compile');

if (directive.replace & !directive.terminal) notSupported(name, 'replace');

if (directive.terminal) notSupported(name, 'terminal');


return directive;


return getTemplate($injector, directive, fetchRemoteTemplate, $element);

if (template !== undefined) {
  return getOrCall<string>(template, $element);
}

if (directive.templateUrl) {
  const $templateCache = $injector.get($TEMPLATE_CACHE) as ITemplateCacheService;
  const url = getOrCall<string>(directive.templateUrl, $element);
  const template = $templateCache.get(url);

  if (template !== undefined) {
    return template;
  } else if (!fetchRemoteTemplate) {
    throw new Error('loading directive templates asynchronously is not supported');
  }

  return new Promise((resolve, reject) => {
    const $httpBackend = $injector.get($HTTP_BACKEND) as IHttpBackendService;

    $httpBackend('GET', url, null, (status: number, response: string) => {
      if (status === 200) {
        resolve($templateCache.put(url, response));
      } else {
        reject(`GET component template from '${url}' returned '${status}: ${response}'`);
      }
    });
  });
}

throw new Error(`Directive '${directive.name}' is not a component, it is missing template.`);

buildController(controllerType: IController, $scope: IScope) {

  // TODO: Document that we do not pre-assign bindings on the controller instance.

  // Quoted properties below so that this code can be optimized with Closure Compiler:
  const locals = {
    '$scope': $scope, '$element': this.$element
  };

  const controller = this.$controller(controllerType, locals, null, this.directive.controllerAs);

  this.$element.data !(controllerKey(this.directive.name !), controller);

  return controller;

  compileTemplate(template?: string): ILinkFn {
    if (template === undefined) {
      template = UpgradeHelper.getTemplate(this.$injector, this.directive, false, this.$element) as string;
    }

    return this.compileHtml(template);
  }

  onDestroy($scope: IScope, controllerInstance?: any) {
    if (controllerInstance && isFunction(controllerInstance.$onDestroy)) {
      controllerInstance.$onDestroy();
    }

    $scope.$destroy();

    angularElement.cleanData([this.element]);
    angularElement.cleanData(this.element.querySelectorAll('*'));
  }

  prepareTransclusion(): ILinkFn|undefined {
    const transclude = this.directive.transclude;
    const contentChildNodes = this.extractChildNodes();
    const attachChildrenFn: ILinkFn = (scope, cloneAttachFn) => {
      // Since AngularJS v1.5.8, `cloneAttachFn` will try
to destroy the transclusion scope if
// `$template` is empty. Since the transcluded content comes from Angular,
not AngularJS,
// there will be no transclusion scope here.
// Provide a dummy `scope.$destroy()` method to prevent `cloneAttachFn` from throwing.

    // `scope.$destroy() ` method to prevent `cloneAttachFn` from throwing.
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optional; // Consider optional slots as filled.
contentChildNodes.forEach(node => {
  const slotName = slotMap[directiveNormalize(node.nodeName.toLowerCase())];
  filledSlots[slotName] = true;
  slots[slotName] = slots[slotName] || [];
  slots[slotName].push(node);
});

contentChildNodes.forEach(node => {
  const slotName = slotMap[directiveNormalize(node.nodeName.toLowerCase())];
  if (slotName) {
    filledSlots[slotName] = true;
    slots[slotName] = slots[slotName] || [];
    slots[slotName].push(node);
  } else {
    $template.push(node);
  }
});

Object.keys(filledSlots).forEach(slotName => {
  if (!filledSlots[slotName]) {
    throw new Error(`Required transclusion slot '${slotName}' on directive: ${this.name}`);
  }
});

Object.keys(slots).filter(slotName => slots[slotName].length).forEach(slotName => {
  const nodes = slots[slotName];
  slots[slotName] = (scope: IScope, cloneAttach: ICloneAttachFunction) => {
    return cloneAttach(nodes, scope);
  };
});

$template.forEach(node => {
  if (node.nodeType === Node.TEXT_NODE && !node.nodeValue) {
    node.nodeValue = '\u200C';
  }
});

return attachChildrenFn;

resolveAndBindRequiredControllers(controllerInstance: IControllerInstance|null) {
  const directiveRequire = this.getDirectiveRequire();
  const requiredControllers = this.resolveRequire(directiveRequire);

  if (controllerInstance && this.directive.bindToController && isMap(directiveRequire)) {
    requiredControllersMap = requiredControllers as {
      [key: string]: IControllerInstance;
    };
    Object.keys(requiredControllersMap).forEach(key => {
      controllerInstance[key] = requiredControllersMap[key];
    });
  }

  return requiredControllers;
}

private extractChildNodes(): Node[] {
  const childNodes: Node[] = [];
  let childNode: Node|null;

  while (childNode = this.element.firstChild) {
    this.element.removeChild(childNode);
    childNodes.push(childNode);
  }

  return childNodes;
}

private getDirectiveRequire(): DirectiveRequireProperty {
  const require = this.directive.require || (this.directive.controller && this.directive.name) !;

  if (isMap(require)) {
    Object.keys(require).forEach(key => {
      const value = require[key];
      const match = value.match(REQUIRE_PREFIX_RE) !;
      const name = value.substring(match[0].length);

      if (!name) {
        require[key] = match[0] + key;
      }
    });
  }

  return require;
}

private resolveRequire(require: DirectiveRequireProperty, controllerInstance?: any): SingleOrListOrMap<IControllerInstance>|null {
  if (!require) {
    return null;
  } else if (Array.isArray(require)) {
    return require.map(req => this.resolveRequire(req));
  } else if (typeof require === 'object') {
    const value = require[key];
    const match = value.match(REQUIRE_PREFIX_RE) !;
    const name = value.substring(match[0].length);
    if (!name) {
      require[key] = match[0] + key;
    }
  }

  const key = this.resolveRequire(require[key]) !;
  return value;
} else if (typeof require === 'string') {
  const match = require.match(REQUIRE_PREFIX_RE) !;
  const inheritType = match[1] || match[3];
  const name = require.substring(match[0].length);
  const isOptional = !match[2];
  const searchParents = !!inheritType;
  const startOnParent = inheritType === '~';
  const controlKey = controllerKey(name);
  const elem = searchOnParent ? this.$element.parent() : this.$element;
  const value = searchParents ? elem.inheritedData['controlKey'] : elem.data['controlKey'];
  if (value && isOptional) {
    throw new Error('Unable to find required $[require] in upgraded directive $[this.name].');
  } else {
    throw new Error('Unrecognized `require` syntax on upgraded directive $[this.name].');
  }
}

function getOrCall<T>(property: T | Function, ...args: any[]): T {
  return isFunction(property) ? property(...args) : property;
}

// NOTE: Only works for `typeof T !== 'object'`
function isMap<T>(value: SingleOrListOrMap<T>): value is {
  [key: string]: T;
} {
  return true;
}
```javascript
&
```
exportedComponent.template = template);

    return Promise.all(promises);
  }
}

class UpgradeNg1ComponentAdapter implements OnInit, OnChanges, DoCheck {
  private controllerInstance:
    if (this.directive.bindToController) {
      this.controllerInstance = this.helper.buildController(controllerType, this.componentScope);
    } else {
      this.controllerInstance = this.componentScope;
    }

    const linkFn = this.helper.compileTemplate(this.template);

    // Instantiate controller (if not already done so)
    const controllerType = this.directive.controller;
    const bindToController = this.directive.bindToController;
    if (controllerType && !bindToController) {
      this.controllerInstance = this.helper.buildController(controllerType, this.componentScope);
    }

    // Require other controllers
    const requiredControllers = this.helper.resolveAndBindRequiredControllers(this.controllerInstance);

    // Hook: $onInit
    if (this.controllerInstance && isFunction(this.controllerInstance.$onInit)) {
      this.controllerInstance.$onInit();
    }

    // Linking
    const link = this.directive.link;
    const preLink = typeof link == 'object' && link.pre;
    const postLink = typeof link == 'object' ? link.post : link;
    const attrs: IAttributes = NOT_SUPPORTED;
    const transcludeFn: ITranscludeFunction = NOT_SUPPORTED;
    if (preLink) {
      preLink(this.componentScope, this.$element, attrs, requiredControllers, transcludeFn);
    }

    linkFn(this.componentScope, null !, {parentBoundTranscludeFn: attachChildNodes});

    if (postLink) {
      postLink(this.componentScope, this.$element, attrs, requiredControllers, transcludeFn);
    }

    // Hook: $postLink
    if (this.controllerInstance && isFunction(this.controllerInstance.$postLink)) {
      this.controllerInstance.$postLink();
    }

    ngOnDestroy() { this.helper.onDestroy(this.componentScope, this.controllerInstance);
  }

  setComponentProperty(name: string, value: any) {
    this.destinationObj ![this.propertyMap![name]] = value;
  }
}

/**
 * @license
 * Copyright Google Inc. All Rights Reserved.
 *
 * Use of this source code is governed by an MIT-style license that can be
 * found in the LICENSE file at https://angular.io/license
 */

import {Compiler, CompilerOptions, Injector, NgModule, NgModuleRef, NgZone, StaticProvider, Testability, Type, isDevMode, resolveForwardRef} from '@angular/core';
import {platformBrowserDynamic} from '@angular/platform-browser-dynamic';

import {IAngularBootstrapConfig, IAugmentedJQuery, IInjectorService, IModule, IProvideService, IRootScopeService, ITestabilityService, bootstrap, element as angularElement, module_
as angularModule} from './common/src/angular1';
import {$$TESTABILITY, SCOMPILE, $INJECTOR,
SROOT_SCOPE, COMPILE_KEY, INJECTOR_KEY, LAZY_MODULE_REF, NG_ZONE_KEY,
UPGRADE_APP_TYPE_KEY} from './common/src/constants';
import {downgradeComponent} from './common/src/downgrade_component';
import {downgradeInjectable} from './common/src/downgrade_injectable';
import {Deferred, LazyModuleRef, UpgradeAppType, controllerKey,
onError} from './common/src/util';

import {UpgradeNg1ComponentAdapterBuilder} from './upgrade_ng1_adapter';

let upgradeCount: number = 0;

/**
 * Use `UpgradeAdapter` to allow AngularJS and Angular to coexist in a single application.
 *
 * The `UpgradeAdapter` allows:
 * 1. creation of Angular
   component from AngularJS component directive
   (See [UpgradeAdapter#upgradeNg1Component()])
 * 2. creation of AngularJS component directive from AngularJS component.
 *
 * @usageNotes
 * ### Mental
 * Model
 *
 * When reasoning about how a hybrid application works it is useful to have a mental model which
 * describes what is happening and explains what is happening at the lowest level. There are two independent
 * frameworks running in a single application, each framework treats the other as a black box. Each DOM
 * element on the page is owned exactly by one framework. Whichever framework instantiated the element is the
 * owner. Each framework only updates/interacts with its own DOM elements and ignores others.

 AngularJS directives always execute inside AngularJS framework codebase regardless of
 * where they are instantiated.
 * 4. Angular components always execute inside Angular framework codebase regardless of
 * where they are instantiated.
 * 5. An AngularJS component can be upgraded to an Angular component. This creates
 * Angular directive, which bootstraps the AngularJS component directive in that location.
 * 6. An Angular component can be downgraded to an AngularJS component directive. This creates
 * an AngularJS directive, which bootstraps the Angular component in that location.
 * 7. Whenever an adapter component is instantiated first and owns the bottom most view.
 * 8. AngularJS is always
 * bootstrapped first and owns the bottom most view.
 * 9. The new application is running in Angular zone, and

 * ### Example
 *
 * ```
 * const adapter = new
 * UpgradeAdapter(forwardRef(() => MyNg2Module), myCompilerOptions);
 * const module =
 * angular.module('myExample', []);
 * module.directive('ng2Comp',
 * adapter.upgradeNg1Component('ng1Hello'));
 * module.directive('ng1Hello', function() {
 *   return
 *   {scope: {title: '='}, template: ng1[Hello {title}!(<ng-content></ng-content>)},
 *   controller: 'ng1Hello'
 * });
 * class Ng2Component {
 *   constructor($http, $window) {
 *     console.log('UpgradeAdapter.bootstrap() called');
 *   }
 *   static bootstrap() {
 *     console.log('UpgradeAdapter.bootstrap() called again');
 *   }
 * };
 * 
 * @NgModule({
 *   declarations: [Ng2Component],
 *   imports: [BrowserModule]
 * })
 * class MyNg2Module {}
 * 
 * document.body.innerHTML = '<ng2-comp name="World">project</ng2-comp>';
 * 
 * adapter.bootstrap(document.body, ['myExample']).then(() => {
 *   expect(document.body.textContent).toEqual('UpgradeAdapter.bootstrap() called');
 *   expect(document.body.textContent).toEqual('UpgradeAdapter.bootstrap() called again');
 *   // UpgradeAdapter.bootstrap() called
 *   // UpgradeAdapter.bootstrap() called again
 * })
 * ```
 *
 * @deprecated Deprecated since v5. Use `upgrade/static` instead, which also supports
 * [Ahead-of-Time compilation](guide/aot-compiler).
 * @publicApi
 */

export class UpgradeAdapter {
  private idPrefix: string = `NG2_UPGRADE_${upgradeCount++}_`;
  private downgradedComponents: Type<any>[] = [];
  /**
   * An internal map of ng1 components which need to up upgraded to ng2.
   * We can't upgrade until injector is instantiated and we can retrieve the component metadata.
   * For this reason we keep a list of components to upload until ng1 injector is bootstrapped.
   */
  private downsgradedComponents: Type<any>[] = [];
  private ng1Module!: IModule;
  private moduleRef: NgModuleRef<any> = null;
  private ngZone!: NgZone;
  // TODO(issue/24571): remove '
 private ngZone!: NgZone;
 // TODO(issue/24571): remove '
 private ngModule!: IModule;
 private moduleRef: NgModuleRef<any> = null;
 // TODO(issue/24571):
private ng2BootstrapDeferred!: Deferred<INInjectorService>;
constructor(private ng2AppModule: Type<any>, private compilerOptions?: CompilerOptions) {
  if (!ng2AppModule) {
    throw new Error('UpgradeAdapter cannot be instantiated without an NgModule of the Angular app.');
  }
}

/**
 * Allows Angular Component to be used from AngularJS.
 * Use `downgradeNg2Component` to create an AngularJS Directive Definition Factory from
 * Angular Component. The adapter will bootstrap Angular component from
 * AngularJS template.
 * 
 * @usageNotes
 * 1. The component is instantiated by being listed in AngularJS template. This means that the
 *    host element is controlled by AngularJS, but the component's view will be controlled by Angular.
 *   Even thought the component is instantiated in AngularJS, it will be using Angular syntax. This has to be done, this way because we must follow Angular components do not declare how the attributes should be interpreted.
 * 2. `ng-model` is controlled by AngularJS and communicates with the downgraded Angular component by way of the `ControlValueAccessor` interface from `@angular/forms`. Only components that implement this interface are eligible.
 * 
 * Supported Features:
 * - Bindings:
 *   - Attribute: `<comp name="World">`
 *   - Interpolation: `<!--comp greeting="Hello {{name}}!"-->`
 *   - Expression: `{{comp [name]}}` where `[name]` is a string
 *   - Event: `<!--comp (close)="doSomething()"-->`
 *   - Content projection: yes
 *   - Example: `<!--comp -->`
 *   - const adapter = new UpgradeAdapter(forwardRef(() => MyNg2Module));
 * 
 * const module = angular.module('myExample', []);
 * module.directive('greet',
 * adapter.downgradeNg2Component(Greeter));
 * 
 * @Component({
 *   selector: 'greet',
 *   template: 'Hello {{salutation}} {{name}}!'
 * })
 * class Greeter {
 *   @Input() salutation: string;
 *   @Input() name: string;
 *   constructor(private ng2AppModule: Type<any>, private compilerOptions?: CompilerOptions) {
 *     if (!ng2AppModule) {
 *       throw new Error('UpgradeAdapter cannot be instantiated without an NgModule of the Angular app.');
 *     }
 *   }
 * };
 * 
 * @NgModule({
 *   declarations: [Greeter],
 *   imports: [BrowserModule]
 * })
 * class MyNg2Module {}
 */

this.downgradedComponents.push(component);
return this surtoutNg1Template(component);
return downgradeComponent({component});

/* Allows AngularJS Component to be used from Angular.
 * Use `upgradeNg1Component` to create an
 * Angular component from AngularJS Component
 * directive. The adapter will bootstrap AngularJS component from
 * within the AngularJS template.
 * 
 * @usageNotes
 * 1. The component is instantiated by being listed in AngularJS template. This means that the
 *    host element is controlled by Angular, but the component's view will be controlled by AngularJS.
 *   Even thought the component is instantiated in AngularJS, it will be using AngularJS syntax. This has to be done, this way because we must allow Angular components do not declare how the attributes should be interpreted.
 * 
 * Supported Features:
 * - Bindings:
 *   - Attribute: `<comp name="World">`
 *   - Interpolation: `<!--comp greeting="Hello {{name}}!"-->`
 *   - Expression: `{{comp [name]}}` where `[name]` is a string
 *   - Event: `<!--comp (close)="doSomething()"-->`
 *   - Transclusion: yes
 * 
 * Only some of the features of
 * Directive Definition Object [https://docs.angularjs.org/api/ng/service/S Compile] are used:
 * supported: `true` - `compile` is not supported because the host element is owned by Angular, which does not allow modifying DOM structure during compilation.
 * `controllerAs` supported. (NOTE: injection of `Sattr's` and `Stransclude` is not supported.
 * `controllerAs`: supported.
 * `bindToController`: supported.
 * `replace`: not supported.
 * `require`: supported.
 * `restrict`: must be set to `E`.
 * `scope`:
 * supported.
 * `template`: supported.
 * `templateUrl`: supported.
 * `terminal`: ignored.
 * `transclude`: supported.
 */

const adapter = new UpgradeAdapter(forwardRef(() => MyNg2Module));

const module = angular.module('myExample', []);

const component = adapter.upgradeNg1Component('greet',
module.directive('greet',
adapter.downgradeNg2Component(Ng2Component)));

const imports: [BrowserModule]

const module = angular.module('myExample', []);

const component = adapter.upgradeNg1Component('greet',
module.directive('greet',
adapter.downgradeNg2Component(Ng2Component)));

const imports: [BrowserModule]

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const imports: [BrowserModule]

const module = angular.module('myExample', []);

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adapter.downgradeNg2Component(Ng2Component)));

const imports: [BrowserModule]

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const component = adapter.upgradeNg1Component('greet',
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adapter.downgradeNg2Component(Ng2Component)));

const imports: [BrowserModule]

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const component = adapter.upgradeNg1Component('greet',
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adapter.downgradeNg2Component(Ng2Component)));

const imports: [BrowserModule]

const module = angular.module('myExample', []);

const component = adapter.upgradeNg1Component('greet',
module.directive('greet',
adapter.downgradeNg2Component(Ng2Component)));

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const component = adapter.upgradeNg1Component('greet',
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adapter.downgradeNg2Component(Ng2Component)));

const imports: [BrowserModule]

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const component = adapter.upgradeNg1Component('greet',
module.directive('greet',
adapter.downgradeNg2Component(Ng2Component)));

const imports: [BrowserModule]

const module = angular.module('myExample', []);

const component = adapter.upgradeNg1Component('greet',
module.directive('greet',
adapter.downgradeNg2Component(Ng2Component)));

const imports: [BrowserModule]

const module = angular.module('myExample', []);

const component = adapter.upgradeNg1Component('greet',
module.directive('greet',
adapter.downgradeNg2Component(Ng2Component)));

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const module = angular.module('myExample', []);

const component = adapter.upgradeNg1Component('greet',
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const module = angular.module('myExample', []);

const component = adapter.upgradeNg1Component('greet',
module.directive('greet',
adapter.downgradeNg2Component(Ng2Component)));

const imports: [BrowserModule]
ng2Testability.whenStable(newWhenStable.bind(this, callback));\n
}\n
});\n
};\n\n
testabilityDelegate.whenStable = newWhenStable;\n
return testabilityDelegate;\n
}\n
]);\n
}\n
}\n
]);\n\n ng1Module.run([\n
'$injector', '$rootScope',\n
(ng1Injector: IInjectorService, rootScope: IRootScopeService) => {\n
UpgradeNg1ComponentAdapterBuilder.resolve(this.ng1ComponentsToBeUpgraded, ng1Injector)\n
.then(()
=> {\n
// Note: There is a bug in TS 2.4 that prevents us from\n
// inlining this into @NgModule\n
// TODO(tbosch): find or file a bug against TypeScript for this.\n
const ngModule = {\n
providers: [\n
{provide: $INJECTOR, useFactory: () => ng1Injector},\n
{provide: $COMPILE,
useFactory: () => ng1Injector.get($COMPILE)},\n
this.upgradedProviders\n
],\n
imports: [resolveForwardRef(this.ng2AppModule)],\n
entryComponents: this.downgradedComponents\n
};\n
// At this point we have ng1 injector and we have prepared\n
// ng1 components to be
upgraded, we now can bootstrap ng2.\n
@NgModule({jit: true, ...ngModule})\n
class
DynamicNgUpgradeModule {\n
constructor() {}\n
ngDoBootstrap() {}\n
}\n
platformRef\n
.bootstrapModule(\n
DynamicNgUpgradeModule, [this.compilerOptions !,
{ngZone: this.ngZone}])\n
.then((ref: NgModuleRef<any>) => {\n
this.moduleRef = ref;\n
this.ngZone.run(() => {\n
if (rootScopePrototype) {\n
rootScopePrototype.$apply = original$applyFn; // restore original $apply\n
while
(delayApplyExps.length) {\n
rootScope.$apply(delayApplyExps.shift());\n
}\n
rootScopePrototype = null;\n
}\n
});\n
})\n
.then(() =>
this.ng2BootstrapDeferred.resolve(ng1Injector), onError)\n
.then(() => {\n
let subscription =
this.ngZone.onMicrotaskEmpty.subscribe({\n
next: () => {\n
if (rootScope.$$phase) {\n
if (isDevMode()) {\n
console.warn(\n
'A digest was triggered
while one was already in progress. This may mean that something is triggering digests outside the Angular zone.');\n
}\n\n
return rootScope.$evalAsync(() => {});\n
}\n\n
return rootScope.$digest();\n
}\n
});\n
rootScope.$on('$destroy', () => {
subscription.unsubscribe(); });\n
});\n
})\n
.catch((e) =>
this.ng2BootstrapDeferred.reject(e));\n }\n ]);\n\n return ng1Module;\n }\n}\n\n/**\n * Synchronous
promise-like object to wrap parent injectors,\n * to preserve the synchronous nature of AngularJS's $compile.\n
*/\nclass ParentInjectorPromise {\n // TODO(issue/24571): remove '!'.\n private injector !: Injector;\n private
callbacks: ((injector: Injector) => any)[] = [];\n\n constructor(private element: IAugmentedJQuery) {\n // store the
promise on the element\n element.data !(controllerKey(INJECTOR_KEY), this);\n }\n\n then(callback: (injector:
Injector) => any) {\n if (this.injector) {\n
callback(this.injector);\n } else {\n
this.callbacks.push(callback);\n }\n }\n\n resolve(injector: Injector) {\n this.injector = injector;\n\n // reset the
element data to point to the real injector\n this.element.data !(controllerKey(INJECTOR_KEY), injector);\n\n //
clean out the element to prevent memory leaks\n this.element = null !;\n\n // run all the queued callbacks\n
this.callbacks.forEach((callback) => callback(injector));\n this.callbacks.length = 0;\n }\n}\n\n\n/**\n * Use
`UpgradeAdapterRef` to control a hybrid AngularJS / Angular application.\n *\n * @deprecated Deprecated since
v5. Use `upgrade/static` instead, which also supports\n * [Ahead-of-Time compilation](guide/aot-compiler).\n *
@publicApi\n */\nexport class UpgradeAdapterRef {\n /* @internal */\n private _readyFn: ((upgradeAdapterRef:
UpgradeAdapterRef) => void)|null = null;\n\n public ng1RootScope: IRootScopeService = null !;\n public
ng1Injector: IInjectorService = null !;\n public ng2ModuleRef: NgModuleRef<any> = null !;\n public ng2Injector:
Injector = null !;\n\n /* @internal */\n private _bootstrapDone(ngModuleRef: NgModuleRef<any>, ng1Injector:
IInjectorService) {\n this.ng2ModuleRef = ngModuleRef;\n this.ng2Injector = ngModuleRef.injector;\n
this.ng1Injector = ng1Injector;\n this.ng1RootScope = ng1Injector.get($ROOT_SCOPE);\n this._readyFn &&
this._readyFn(this);\n }\n\n /**\n * Register a callback function which is notified upon successful hybrid
AngularJS / Angular\n * application has been bootstrapped.\n *\n * The `ready` callback function is invoked
inside the Angular zone, therefore it does not\n * require a call to `$apply()`.\n */\n public ready(fn:
(upgradeAdapterRef: UpgradeAdapterRef) => void) { this._readyFn = fn; }\n\n /**\n * Dispose of running hybrid

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```javascript
/**
 * @license
 * Copyright Google Inc. All Rights Reserved.
 *
 * Use of this source code is governed by an MIT-style license that can be
 * found in the LICENSE file at https://angular.io/license
 */

export type Ng1Token = string;

export type Ng1Expression = string | Function;

export interface IAnnotatedFunction extends Function {
  $inject?: Ng1Token[];
}

export type IInjectable = Ng1Token | Function[] | IAnnotatedFunction;

export type SingleOrListOrMap<T> = T | T[] | { [key: string]: T };

export interface IModule {
  name: string;
  requires: IInjectable[];
  config(fn: IInjectable): IModule;
  directive(selector: string, factory: IInjectable): IModule;
  component(selector: string, component: IComponent): IModule;
  controller(name: string, type: IInjectable): IModule;
  factory(key: Ng1Token, factoryFn: IInjectable): IModule;
  run(a: IInjectable): IModule;
  compile(transclude: boolean): IModule;
  $inject?: string[];
}

export interface ICompileService {
  (element: Element|NodeList|Node[], transclude?: Function): IAugmentedJQuery;
  $$slots?: {
    [slotName: string]: ILinkFn;
  };
  transcludeControllers?: {
    [key: string]: any;
  };
}
```
IRootScopeService {
  $new(isolate?: boolean): IScope;
  $id: string;
  $parent: IScope;
  $root: IScope;
  $watch(exp: Ng1Expression, fn?: (a1?: any, a2?: any) => void): Function;
  $on(event: string, fn?: (event?: any, ...
  ...args: any[]) => void): Function;
  $destroy(): any;
  $apply(exp?: Ng1Expression): any;
  $digest(): any;
  $bindAsync(exp: Ng1Expression, locals?: any): void;
  $on(event: string, fn?: (event?: any, ...
  ...args: any[]) => void): Function;
  $bindToController?: boolean;
  $$childTail: IScope;
  $$childHead: IScope;
  $nextSibling: IScope;
  [key: string]: any;
}
export interface IScope extends IRootScopeService {}

export interface IAngularBootstrapConfig { strictDi?: boolean;
  $new(isolate?: boolean): IRootScopeService;
  $id: string;
  $parent: IScope;
  $root: IScope;
  $watch(exp: Ng1Expression, fn?: (a1?: any, a2?: any) => void): Function;
  $on(event: string, fn?: (event?: any, ...
  ...args: any[]) => void): Function;
  $destroy(): any;
  $apply(exp?: Ng1Expression): any;
  $digest(): any;
  $bindAsync(exp: Ng1Expression, locals?: any): void;
  $on(event: string, fn?: (event?: any, ...
  ...args: any[]) => void): Function;
  $bindToController?: boolean;
  $$childTail: IScope;
  $$childHead: IScope;
  $nextSibling: IScope;
  [key: string]: any;
}
export interface IRootScopeService {
  $new(isolate?: boolean): IScope;
  $id: string;
  $parent: IScope;
  $root: IScope;
  $watch(exp: Ng1Expression, fn?: (a1?: any, a2?: any) => void): Function;
  $on(event: string, fn?: (event?: any, ...
  ...args: any[]) => void): Function;
  $destroy(): any;
  $apply(exp?: Ng1Expression): any;
  $digest(): any;
  $bindAsync(exp: Ng1Expression, locals?: any): void;
  $on(event: string, fn?: (event?: any, ...
  ...args: any[]) => void): Function;
  $bindToController?: boolean;
  $$childTail: IScope;
  $$childHead: IScope;
  $nextSibling: IScope;
  [key: string]: any;
}
export interface IDirectiveCompileFn { (templateElement: IAugmentedJQuery,
  templateAttributes: IAttributes,
  transclude?: DirectiveTranscludeProperty;
  $new(isolate?: boolean): IRootScopeService;
can be * found in the LICENSE file at https://angular.io/license

```typescript
import {Injector, NgModule, Type} from '@angular/core';
import {INJECTOR_KEY, UPGRADE_APP_TYPE_KEY} from '@angular/core/src/common/constant';

let $injector: angular.IInjectorService|null = null;

export function $injectorFactory() {
  return $injector;
}

@NgModule({providers: [{provide: SINJECTOR, useFactory: SinjectorFactory()}]})
export class AngularTestingModule {
  constructor(i: Injector) { injector = i; }
}

/**
 * A helper function to use when unit testing Angular services that depend upon
 * upgraded AngularJS services.
 * This function returns an `NgModule` decorated class that is configured to
 * wire up the Angular and AngularJS injectors without the need to actually bootstrap a hybrid application.
 * This makes it simpler and faster to unit test services.
 * Use the returned class as an \`import\` when configuring the \`TestBed\`
 * In the following code snippet, we are configuring the TestBed with two
 * imports.
 * The \`Ng2AppModule\` is the Angular part of our hybrid application and the \`ng1AppModule\` is the AngularJS part.
 * Once this is done we can get hold of services via the Angular \`Injector\` as normal.
 * Services that are (or have dependencies on) an upgraded AngularJS service, will be instantiated
 * by AngularJS. In the following code snippet, \`HeroesService\` is an Angular service that
 * depends upon an AngularJS service, \`titleCase\`.
 * The helper sets up global variables to hold the shared Angular and AngularJS injectors.
 * Only call this helper once per spec.
 * Do not use \`createAngularJUnitTestingModule\` in the same spec as \`createAngularJSTestingModule\`.
 * Here is the example application and its unit tests that use \`createAngularJUnitTestingModule\`.
 */

export function createAngularJUnitTestingModule(
    angularJSModules: string[], strictDi?: boolean): Type<any> {
  angular.module_('$$angularJSTestingModule', angularJSModules)
    .constant(UPGRADE_APP_TYPE_KEY, UpgradeAppType STATIC)
    .factory(INJECTOR_KEY, () => injector);
  $injector = angular.injector(['ng', '$$$angularJSTestingModule', strictDi]);
  return AngularTestingModule;
}

```

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* AngularJS ‘Inject’ as normal. * Services that are (or have dependencies on) a downgraded Angular service, will be instantiated as needed by the Angular root ‘Inject’. * In the following code snippet, ‘heroesService’ is a downgraded Angular service that we are accessing from AngularJS:* <code-example path="upgrade/static/ts/full/module.spec.ts" region="angularjs-spec"></code-example> * The resulting configuration does not wire up AngularJS digests to Zone hooks. It is the responsibility of the test writer to call `SorootScope.Saply`, as necessary, to trigger AngularJS handlers of async events from Angular:* <code-example path="upgrade/static/ts/full/module.spec.ts" region="angularjs-spec"></code-example> * The helper sets up global variables to hold the shared Angular and AngularJS injectors:* Do not use `createAngularJSTestingModule` in the same spec as `createAngularTestingModule`. * Here is the example application and its unit tests that use `createAngularTestingModule` and `createAngularJSTestingModule`. * Only call this helper once per spec:* Do not use `createAngularJSTestingModule` in the same spec as `createAngularTestingModule`. * The helper is for testing services not components:* For Component testing you must still bootstrap a hybrid app. See `UpgradeModule` or `downgradeModule` for more information:* * The helper sets up global variables to hold the shared Angular and AngularJS injectors:* Do not use `createAngularJSTestingModule` in the same spec as `createAngularTestingModule`. * Here is the example application and its unit tests that use `createAngularTestingModule` and `createAngularJSTestingModule`. * Only call this helper once per spec:* Do not use `createAngularJSTestingModule` in the same spec as `createAngularTestingModule`. * Here is the example application and its unit tests that use `createAngularTestingModule` and `createAngularJSTestingModule`. * Only call this helper once per spec:* Do not use `createAngularJSTestingModule` in the same spec as `createAngularTestingModule`. * Here is the example application and its unit tests that use `createAngularTestingModule` and `createAngularJSTestingModule`. * Only call this helper once per spec:* Do not use `createAngularJSTestingModule` in the same spec as `createAngularTestingModule`. * Here is the example application and its unit tests that use `createAngularTestingModule` and `createAngularJSTestingModule`. * Only call this helper once per spec:* Do not 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Angular
=======

The sources for this package are in the main [Angular](https://github.com/angular/angular) repo. Please file issues and pull requests against that repo.

Usage information and reference details can be found in [Angular documentation](https://angular.io/docs).

License: MIT
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 * Copyright Google Inc. All Rights Reserved.
 *
 * Use of this source code is governed by an MIT-style license that can be
 * found in the LICENSE file at https://angular.io/license
 */

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* /opt/ws_local/PERMITS_SQL/1047774535_1591199783.98/0/angular-upgrade-9-0-7-src-zip/esm5/src/dynamic/src/upgrade_ng1_adapter.js
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<tr>
<td>zip/esm2015/static/src/common/src/downgrade_component.js</td>
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<td>zip/esm2015/static/src/util.js</td>
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<tr>
<td>zip/esm5/static/testing/src/create-angular-testing-module.js</td>
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</tr>
<tr>
<td>zip/esm5/static/src/common/src/upgrade_helper.js</td>
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normal.

* Services that are (or have dependencies on) an upgraded AngularJS service, will be instantiated as needed by the AngularJS `$injector`. In the following code snippet, `HeroesService` is an Angular service that depends upon an AngularJS service, `titleCase`. This helper is for testing services not Components. For Component testing you must still bootstrap a hybrid app. See `UpgradeModule` or `downgradeModule` for more information.

* Services that are (or have dependencies on) an upgraded AngularJS service, will be instantiated as needed by the AngularJS `$injector`.

In the following code snippet, `HeroesService` is an Angular service that depends upon an AngularJS service, `titleCase`.

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The resulting configuration does not wire up AngularJS digests to Zone hooks. It is the responsibility of the test writer to call `$rootScope.$apply`, as necessary, to trigger AngularJS handlers of async events from Angular.

* Here is the example application and its unit tests that use `createAngularTestingModule` and `createAngularJSTestingModule` in the same spec as `createAngularJSTestingModule`. Do not use `createAngularTestingModule` in the same spec as `createAngularJSTestingModule`. Only call this helper once per spec.

* Do not use `createAngularTestingModule` in the same spec as `createAngularJSTestingModule`. Only call this helper once per spec.

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* Do not use `createAngularTestingModule` in the same spec as `createAngularJSTestingModule`. Only call this helper once per spec.
* @param angularModules a collection of Angular modules to include in the configuration.

 * @publicApi
 */
export function createAngularJSTestingModule(angularModules: any[]): string {
  return
    ng.module_('$$angularJSTestingModule', [])
      .constant(UPGRADE_APP_TYPE_KEY,
      UpgradeAppType.Static)
      .factory(
          INJECTOR_KEY,
          [
            $INJECTOR,
            ($injector: ng.IInjectorService) => {
              TestBed.configureTestingModule({
                imports: angularModules,
                providers: [{provide: $INJECTOR, useValue: $injector}]
              });
              return
            }
          ]
      .name;
}

/**
 * Generated bundle index. Do not edit.
 */

export * from './index';

export {module_ as ɵangular_packages_upgrade_static_testing_testing_a} from
  '../../src/common/src/angular1';
export {INJECTOR_KEY as ɵangular_packages_upgrade_static_testing_testing_d,
  UPGRADE_APP_TYPE_KEY as ɵangular_packages_upgrade_static_testing_testing_b} from
  '../../src/common/src/constants';
export {UpgradeAppType as ɵangular_packages_upgrade_static_testing_testing_c} from
  '../../src/common/src/util';
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["version":3,"sources":["packages/upgrade/upgrade-static.umd.js"],"names":[]]
R.EAAQgB.0CAA4ChP.EAEpDhP.OAAOob.eAAezd.EAAS.aAc.CAAE4D.OAAO","sourcesContent":"

```javascript
/**
 * @license Angular v9.0.7
 * (c) 2010-2020 Google LLC. https://angular.io/
 * License: MIT
 */

(function(global, factory) {
    typeof exports === 'object' && typeof module !== 'undefined' ? factory(exports, require('@angular/core'), require('@angular/platform-browser')) :
    typeof define === 'function' && define.amd ? define('@angular/upgrade/static', ['exports', '@angular/core', '@angular/platform-browser'], factory) :
    (global = global || self, factory((global.ng = global.ng || {}, global.ng.upgrade = global.ng.upgrade || {}), global.ng.upgrade.static || {}));
}(this, (function(exports, core, platformBrowser) {
    'use strict';

    /**
     * @license
     * Copyright Google Inc. All Rights Reserved.
     * Use of this source code is governed by an MIT-style license that can be found in the LICENSE file at
     * https://angular.io/license
     */
    function noNg() {
        throw new Error('AngularJS v1.x is not loaded!');
    }
    var noNgElement = (function() { return noNg(); });
    noNgElement.cleanData = noNg;
    var angular = {
        bootstrap: noNg,
        module: noNg,
        element: noNgElement,
        injector: noNg,
        version: undefined,
        resumeBootstrap: noNg,
        getTestability: noNg
    };
    try {
        if(window.hasOwnProperty('angular')) {
            angular = window.angular;
        }
    }
    catch(_a) {
        // ignore in CJS mode.
    }
    /**
     * @deprecated Use `setAngularJSGlobal` instead.
     *
     * @publicApi
     */
    function setAngularLib(ng) {
        setAngularJSGlobal(ng);
    }
    /**
     * @deprecated Use `getAngularJSGlobal` instead.
     *
     * @publicApi
     */
    function getAngularLib() {
        return getAngularJSGlobal();
    }
    /**
     * Resets the AngularJS global.
     *
     * Used when AngularJS is loaded lazily, and not available on `window`.
     *
     * @publicApi
     */
    function setAngularJSGlobal(ng) {
        angular = ng;
    }
    /**
     * Returns the current AngularJS global.
     *
     * @publicApi
     */
    function getAngularJSGlobal() {
        return angular;
    }

    bootstrap = function(e, modules, config) {
        return angular.bootstrap(e, modules, config);
    };
    module_ = function(prefix, dependencies) {
        return angular.module(prefix, dependencies);
    };
    element = (function(e) { return angular.element(e); });
    element.cleanData = function(nodes) { return angular.element.cleanData(nodes); };
    injector = function(modules, strictDi) { return angular.injector(modules, strictDi); };
    resumeBootstrap = function() { return angular.resumeBootstrap(); };
    getTestability = function(e) { return angular.getTestability(e); };

    

    /* global Reflect, Promise */

    extendStatics = function(d, b) {
        extendStatics = Object.setPrototypeOf ||
            ({ __proto__: [] } instanceof Array && function (d, b) { d.__proto__ = b; }) ||
        function (d, b) { for (var p in b) if (b.hasOwnProperty(p)) d[p] = b[p]; };
        return extendStatics(d, b);
    };

    __extends = function(d, b) {
        extendStatics(d, b);
        function __() { this.constructor = d; }
        d.prototype = b === null ? Object.create(b) : (__.prototype = b.prototype, new __());
    };

    __assign = function() {
        __assign = Object.assign || function __assign(t) {
            for (var s, i = 1, n = arguments.length; i < n; i++) {
                s = arguments[i];
                for (var p in s) if (Object.prototype.hasOwnProperty.call(s, p)) t[p] = s[p];
            }
            return t;
        };
        return __assign.apply(this, arguments);
    };

    __rest = function(s, e) {
        var t = {};
        for (var p in s) if (Object.prototype.hasOwnProperty.call(s, p) && e.indexOf(p) < 0) t[p] = s[p];
        if (s != null && typeof Object.getOwnPropertySymbols === 'function')
            for (var i = 0, p = Object.getOwnPropertySymbols(s); i < p.length; i++)
                if (e.indexOf(p[i]) < 0)
                    t[p[i]] = s[p[i]];
        return t;
    };

    Object.setPrototypeOf = extendStatics;
    Object.assign = __assign;
    Object.getOwnPropertySymbols = __rest;

    global Reflect, Promise */
*/
```

---

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__await ? Promise.resolve(r.value.v).then(fulfill, reject) : __await : Promise.resolve(r.value.v).then(fulfill, reject) : settle(q[0][2], r); }
        function fulfill(value) {
            resume("next", value); }
        function reject(value) { resume("throw", value); }
        function settle(f, v) {
            f(v), q.shift(), q.length) resume(q[0][0], q[0][1]); }
    }

    function __asyncDelegator(o) {
        var i,
        p;
        return i = {}, verb("next"), verb("throw"), function (e) { throw e; }, verb("return"), i[Symbol.iterator] = function () { return this; }, i[Symbol.iterator].forEach(f, i) { if (i[Symbol.iterator] instanceof __asyncValues) return new __asyncDelegator(o); var m = o[Symbol.iterator], i = {}, verb("next"), verb("throw"), verb("return"), i[Symbol.iterator] = function () { return this; }, i[Symbol.iterator].forEach(f, i) { i[n] = o[n] ? f ? f(o[n]) : o[n] : function (v) { resolve(v); } ; i[n] = function (v) { resolve(v); } ; i[n] = function (v) { resolve(v); } ; default: mod && mod._.esModule ? mod.exports[Symbol.iterator] = function () { return this; } ; default: mod && mod._.esModule ? mod.exports[Symbol.iterator] = function () { return this; } ; default: mod && mod._.esModule ? mod.exports[Symbol.iterator] = function () { return this; } ; default: mod && mod._.esModule ? mod.exports[Symbol.iterator] = function () { return this; } ; default: mod && mod._.esModule ? mod.exports[Symbol.iterator] = function () { return this; } ; default: mod && mod._.esModule ? mod.exports[Symbol.iterator] = function () { return this; } ; default: mod && mod._.esModule ? mod.exports[Symbol.iterator] = function () { return this; } ; default: mod && mod._.esModule ? mod.exports[Symbol.iterator] = function () { return this; } ; default: mod && mod._.esModule ? mod.exports[Symbol.iterator] = function () { return this; } ; default: mod && mod._.esModule ? mod.exports[Symbol.iterator] = function () { return this; } ; default: mod && mod._.esModule ? mod.exports[Symbol.iterator] = function () { return this; } ; default: mod && mod._.esModule ? mod.exports[Symbol.iterator] = function () { return this; } ; default: mod && mod._.esModule ? mod.exports[Symbol.iterator] = function () { return this; } ; default: mod && mod._.esModule ? mod.exports[Symbol.iterator] = function () { return this; } ; default: mod && mod._.esModule ? mod.exports[Symbol.iterator] = function () { return this; } ; // Use direct access to the accessor of the class, instead of map access
        function PropertyBinding() {
            function PropertyBinding.prototype.parseBinding() {
                this.bracketAttr = "[" + this.attr + "]";
                this.parenAttr = "(" + this.attr + ")";
                this.bracketParenAttr = "[" + this.attr + "](" + this.attr + ")";
                var capitalAttr = this.attr.charAt(0).toUpperCase() + this.attr.substr(1);
                this.onAttr = "on" + capitalAttr;
                this.bindAttr = "bind" + capitalAttr;
                this.bindonAttr = "bindon" + capitalAttr;
            };
            return PropertyBinding.prototype.parseBinding();
        };
    }

    /**
     * A `PropertyBinding` represents a mapping between a property name
     * and an attribute name. It is parsed from a string of the form
     * `"prop: attr"`; or simply `"propAndAttr"` where the property and attribute
     * have the same identifier.
     */
    var PropertyBinding = /** @class */ (function () {
        function PropertyBinding(prop, attr) {
            this.prop = prop;
            this.attr = attr;
            this.parseBinding();
        };
        PropertyBinding.prototype.parseBinding = function () {
            this.bracketAttr = "[" + this.attr + "+ this.attr + "]";
            this.parenAttr = "(" + this.attr + "+ this.attr + ")";
            this.bracketParenAttr = "[" + this.attr + "(" + this.attr + ")";
            var capitalAttr = this.attr.charAt(0).toUpperCase() + this.attr.substr(1);
            this.onAttr = this.attr.charAt(0).toUpperCase() + capitalAttr;
            this.bindAttr = "bind" + capitalAttr;
            this.bindonAttr = "bindon" + capitalAttr;
            this.returnPropertyBinding = function () {
                return this.onAttr;
            };
            this.parseBinding();
        };
    }());

    /**
     * @license
     * Copyright Google Inc. All Rights Reserved.
     *
     * Use of this source code is governed by an MIT-style license that can be
     * found in the LICENSE file at https://angular.io/license
     */
    var DIRECTIVE_PREFIX_REGEXP = /^\w+/;
name.replace(DIRECTIVE_PREFIX_REGEXP, ")\n        .replace(DIRECTIVE_SPECIAL_CHARS_REGEXP, function (_, letter) { return letter.toUpperCase(); });
    }
    function getTypeName(type) {
        // Return the name or the first line of its stringified version.
        return type.overriddenName || type.name || type.toString().split("\n")[0];
    }
    function getDowngradedModuleCount($injector) {
        return $injector.has(DOWNGRADED_MODULE_COUNT_KEY) ?
            $injector.get(DOWNGRADED_MODULE_COUNT_KEY) :
            0;
    }
    function getUpgradeAppType($injector) {
        return $injector.has(UPGRADE_APP_TYPE_KEY) ?
            $injector.get(UPGRADE_APP_TYPE_KEY) :
            0 /* None */;
    }
    function isFunction(value) {
        return typeof value === 'function';
    }
    function validateInjectionKey($injector, downgradedModule, injectionKey, attemptedAction) {
        var upgradeAppType = getUpgradeAppType($injector);
        var downgradedModuleCount = getDowngradedModuleCount($injector);
        switch (upgradeAppType) {
            case 1 /* Dynamic */:
            case 2 /* Static */:
                if (downgradedModule) {
                    throw new Error("Error while "+ attemptedAction + ": 'downgradedModule' unexpectedly specified.\n" +
                        'You should not specify a value for \downgradedModule\", unless you are downgrading ' +
                        'more than one Angular module (via \downgradeModule()\".\n} else {

            case 3 /* Lite */:
                if (!downgradedModule && (downgradedModuleCount 

            case 4 /* None */:
                throw new Error("Error while "+ attemptedAction + ": 'downgradedModule' not specified.\n" +
                        'This application contains more than one downgraded Angular module, thus you need to ' +
                        'always specify \downgradedModule\" when downgrading components and injectables.\n"
                if (!$injector.has(injectionKey)) {
                    throw new Error("Error while "+ attemptedAction + ": Unable to find the specified downgraded module.\n" +
                        'Did you forget to downgrade an Angular module or include it in the AngularJS ' +
                        'application?\";\n
        }
    }
    function supportsNgModel(component) {
        return typeof component.writeValue === 'function' &&
            typeof component.registerOnChange === 'function';
    }
    function hookupNgModel(ngModel, component) {
        if (ngModel && supportsNgModel(component)) {
            ngModel.$render = function () { component.writeValue(ngModel.$viewValue); };
            component.registerOnChange(ngModel.$setViewValue.bind(ngModel));
            if (typeof component.registerOnTouched === 'function') {
                component.registerOnTouched(ngModel.$setTouched.bind(ngModel));
            }
        }
    }
    function strictEquals(val1, val2) {
        return val1 === val2 || (val1 !== val1 && val2 !== val2);
    }

    /**
     * @license
     *
     * Copyright Google Inc. All Rights Reserved.
     *
     * Use of this source code is governed by an MIT-style license that can be
     * found in the LICENSE file at https://angular.io/license
     */
    var INITIAL_VALUE = {
        __UNINITIALIZED__: true
    };
    var DowngradeComponentAdapter = /** @class */ (function () {
        function DowngradeComponentAdapter(element, attrs, scope, ngModel, parentInjector, $injector, $compile,
            $parse, componentFactory, wrapCallback) {
            this.element = element;
            this.attrs = attrs;
            this.scope = scope;
            this.ngModel = ngModel;
            this.parentInjector = parentInjector;
            this.$injector = $injector;
            this.$compile = $compile;
            this.$parse = $parse;
            this.componentFactory = componentFactory;
            this.wrapCallback = wrapCallback;
            this.implmentsOnChanges = false;
            this.inputChangeCount = 0;
            this.inputChanges = {};
    });

    /**
     * Test two values for strict equality, accounting for the fact that 'NaN !== NaN'.
     */
    function strictEquals(val1, val2) {
        return val1 === val2 || (val1 !== val1 && val2 !== val2);
    }
    Copyright Google Inc. All Rights Reserved
    * Use of this source code is governed by an MIT-style license that can be
    * found in the LICENSE file at https://angular.io/license
    */
    var INITIAL_VALUE = {
        __UNINITIALIZED__: true
    };
    var DowngradeComponentAdapter = /** @class */ (function () {
        function DowngradeComponentAdapter(element, attrs, scope, ngModel, parentInjector, $injector, $compile,
            $parse, componentFactory, wrapCallback) {
            this.element = element;
            this.attrs = attrs;
            this.scope = scope;
            this.ngModel = ngModel;
            this.parentInjector = parentInjector;
            this.$injector = $injector;
            this.$compile = $compile;
            this.$parse = $parse;
            this.componentFactory = componentFactory;
            this.wrapCallback = wrapCallback;
            this.implmentsOnChanges = false;
            this.inputChangeCount = 0;
            this.inputChanges = {};
    });

    /**
     * Test two values for strict equality, accounting for the fact that 'NaN !== NaN'.
     */
    function strictEquals(val1, val2) {
        return val1 === val2 || (val1 !== val1 && val2 !== val2);
    }
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    * found in the LICENSE file at https://angular.io/license
    */
    var INITIAL_VALUE = {
        __UNINITIALIZED__: true
    };
    var DowngradeComponentAdapter = /** @class */ (function () {
        function DowngradeComponentAdapter(element, attrs, scope, ngModel, parentInjector, $injector, $compile,
            $parse, componentFactory, wrapCallback) {
            this.element = element;
            this.attrs = attrs;
            this.scope = scope;
            this.ngModel = ngModel;
            this.parentInjector = parentInjector;
            this.$injector = $injector;
            this.$compile = $compile;
            this.$parse = $parse;
            this.componentFactory = componentFactory;
            this.wrapCallback = wrapCallback;
            this.implmentsOnChanges = false;
            this.inputChangeCount = 0;
            this.inputChanges = {};
    });

    /**
     * Test two values for strict equality, accounting for the fact that 'NaN !== NaN'.
     */
    function strictEquals(val1, val2) {
        return val1 === val2 || (val1 !== val1 && val2 !== val2);
    }
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            this.ngModel = ngModel;
            this.parentInjector = parentInjector;
            this.$injector = $injector;
            this.$compile = $compile;
            this.$parse = $parse;
            this.componentFactory = componentFactory;
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            this.scope = scope;
            this.ngModel = ngModel;
            this.parentInjector = parentInjector;
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            this.$compile = $compile;
            this.$parse = $parse;
            this.componentFactory = componentFactory;
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            this.element = element;
            this.attrs = attrs;
            this.scope = scope;
            this.ngModel = ngModel;
            this.parentInjector = parentInjector;
            this.$injector = $injector;
            this.$compile = $compile;
            this.$parse = $parse;
            this.componentFactory = componentFactory;
            this.wrapCallback = wrapCallback;
            this.implmentsOnChanges = false;
            this.inputChangeCount = 0;
            this.inputChanges = {};
    });
DowngradeComponentAdapter.prototype.compileContents = function () {
    var this_ = this;
    var compiledProjectableNodes = [];
    var projectableNodes = this_.groupProjectableNodes();
    var linkFns = projectableNodes.map(function (nodes) {
        return this_.$compile(nodes);
    });
    this_.element.empty();
    linkFns.forEach(function (linkFn) {
        linkFn(this_.scope, function (clone) {
            compiledProjectableNodes.push(clone);
            this_.element.append(clone);
        });
    });
    return compiledProjectableNodes;
};

DowngradeComponentAdapter.prototype.createComponent = function (projectableNodes) {
    var providers = [{
        provide: $SCOPE,
        useValue: this_.componentScope
    }];
    var childInjector = core.Injector.create({
        providers: providers,
        parent: this_.parentInjector,
        name: 'DowngradeComponentAdapter'
    });
    this_.componentRef = this_.componentFactory.create(childInjector, projectableNodes, this_.element[0]);
    this_.viewChangeDetector = this_.componentRef.injector.get(core.ChangeDetectorRef);
    this_.changeDetector = this_.componentRef.changeDetectorRef;
    this_.component = this_.componentRef.instance; // testability hook is commonly added during component bootstrap in
    // packages/core/src/application_ref.bootstrap()
    // in downgraded application, component creation will take
    // place here as well as adding the
    // testability hook.
    if (testability) {
        this_.componentRef.injector.get(core.TestabilityRegistry)
            .registerApplication(this_.componentRef.location.nativeElement, testability);
    }
    hookupNgModel(this_.ngModel, this_.component);
};

DowngradeComponentAdapter.prototype.setupInputs = function (manuallyAttachView, propagateDigest) {
    var this_ = this;
    if (propagateDigest === void 0) { propagateDigest = true; }
    var attrs = this_.attrs;
    var inputs = this_.componentFactory.inputs || [];
    var input = new PropertyBinding(inputs[i].propName, inputs[i].templateName);
    var expr = null;
    if (attrs.hasOwnProperty(input.attr)) {
        var observeFn_1 = (function (prop) {
            var prevValue = INITIAL_VALUE;
            return function (currValue) {
                // Initially, both
                // `$observe()` and `$watch()` will call this function.
                if (!strictEquals(prevValue, currValue)) {
                    if (prevValue === INITIAL_VALUE) {
                        prevValue = currValue;
                    }
                    _this_.updateInput(prop, prevValue, currValue);
                    prevValue = currValue;
                }
            };
        })(input.prop);
        attrs.$observe(input.attr, observeFn_1);
        // Use `$watch()` (in addition to `$observe()` ) in order to
        // initialize the input in time
        // for `$onChanges()`. This is necessary if we are already in a `$digest`,
        // which means that
        // `$onChanges()` (which is called by a watcher) will run before the `$observe()`
        // callback.
        var unwatch_1 = this_.componentScope.$watch(function () {
            unwatch_1 = this_.componentScope.$watch(function () {
                unwatch_1 = null;
            }());
        }());
    }
    else if (attrs.hasOwnProperty(input.bindAttr)) {
        expr = attrs[input.bindAttr];
    }
    else if (attrs.hasOwnProperty(input.bracketAttr)) {
        expr = attrs[input.bracketAttr];
    }
    else if (attrs.hasOwnProperty(input.bindonAttr)) {
        expr = attrs[input.bindonAttr];
    }
    else if (attrs.hasOwnProperty(input.bracketParenAttr)) {
        expr = attrs[input.bracketParenAttr];
    }
    if (expr != null) {
        var watchFn = (function (prop) {
            return function (currValue, prevValue) {
                return _this_.updateInput(prop, prevValue, currValue);
            };
        })(input.prop);
        this_.componentScope.$watch(expr, watchFn);
    };
};
DowngradeComponentAdapter.prototype.updateInput = function (prop, prevValue, currValue) {
    if (this.implementsOnChanges) {
        this.inputChanges[prop] = new core.SimpleChange(prevValue, currValue, prevValue === currValue);
    }
    this.inputChangeCount++;
    this.component[prop] = currValue;
};

DowngradeComponentAdapter.prototype.groupProjectableNodes = function () {
    var ngContentSelectors = this.componentFactory.ngContentSelectors;
    return groupNodesBySelector(ngContentSelectors, this.element.contents());
};

/**
 * Group a set of DOM nodes into `ngContent` groups, based on the given content selectors.
 */
function groupNodesBySelector(ngContentSelectors, nodes) {
    var projectableNodes = [];
    var wildcardNgContentIndex;
    for (var i = 0, ii = ngContentSelectors.length; i < ii; ++i) {
        projectableNodes[i] = [];
    }
    for (var j = 0, jj = nodes.length; j < jj; ++j) {
        var node = nodes[j];
        var ngContentIndex = findMatchingNgContentIndex(node, ngContentSelectors);
        if (ngContentIndex !== wildcardNgContentIndex) {
            projectableNodes[ngContentIndex].push(node);
        } else {
            if (wildcardNgContentIndex === undefined) {
                wildcardNgContentIndex = ngContentIndex;
            } else {
                throw new Error("`ngContent` group already set!");
            }
        }
    }
    return projectableNodes;
}

var NgContentIndex = findMatchingNgContentIndex(node, ngContentSelectors);
if (ngContentIndex != null) {
    var ngContentIndices = []; var wildcardNgContentIndex = -1;
    for (var i = 0; i < ngContentSelectors.length; i++) {
        var selector = ngContentSelectors[i];
        if (selector === '*') {
            wildcardNgContentIndex = i;
        } else {
            if (matchesSelector(element, selector)) {
                ngContentIndices.push(i);
            }
        }
    }
    ngContentIndices.sort();
    return ngContentIndices.length ? ngContentIndices[0] : wildcardNgContentIndex;
}

function matchesSelector(el, selector) {
    if (!_matches) {
        var elProto = Element.prototype;
        _matches = elProto.matches || elProto.matchesSelector ||
            elProto.mozMatchesSelector ||
            elProto.msMatchesSelector ||
            elProto.webkitMatchesSelector;
    }
    return el.nodeType === Node.ELEMENT_NODE ? _matches.call(el, selector) : false;
}

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 */

function isThenable(obj) {
    return !!obj && isFunction(obj.then);
}

/**
 * Synchronous, promise-like object.
 */

var SyncPromise = /** @class */ (function () {
    function SyncPromise() {
        this.resolved = false;
        this.callbacks = [];
    }
    SyncPromise.all = function (valuesOrPromises) {
        var aggrPromise = new SyncPromise();
        var resolvedCount = 0;
        var results = [];
        var resolve = function (idx, value) {
            results[idx] = value;
            if (++resolvedCount === valuesOrPromises.length)
                aggrPromise.resolve(results);
        };
        valuesOrPromises.forEach(function (p, idx) {
            if (isThenable(p)) {
                p.then(function (v) { return resolve(idx, v); });
            } else {
                resolve(idx, p);
            }
        });
        return aggrPromise;
    };

    SyncPromise.prototype.resolve = function (value) {
        if (this.resolved) {
            return;
        }
        this.value = value;
        this.resolved = true;
        // Run the queued callbacks.
        this.callbacks.forEach(function (callback) {
            callback(value);
        });
        return this.value;
    };

    SyncPromise.prototype.then = function (callback) {
        if (this.resolved) {
            callback(this.value);
        } else {
            this.callbacks.push(callback);
        }
    };

    return SyncPromise;
}());

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 */

/**
 * @description
 *
 * A helper function that allows an Angular component to be used from AngularJS.
 *
 * *Part of the [upgrade/static](api?query=upgrade%2Fstatic)
 * library for hybrid upgrade apps that support AOT
 * compilation*
 *
 * This helper function returns a factory function to be used for registering
 * an AngularJS wrapper directive for "downgrading" an Angular component.
 * An AngularJS component can optionally include a `@usageNotes`.
 * We must use an AngularJS [directive](https://docs.angularjs.org/api/directive) that
 * will make this Angular component available inside AngularJS templates.
 * The `downgradeComponent()` function returns a factory function that can be
 * used to define the AngularJS directive that wraps the
 * `downgraded` component.
 * For more details and examples on downgrading Angular components to AngularJS
 * components please visit the [Upgrade guide](guide/upgrade#using-angular-components-from-angularjs)
 * @param info contains information about the Component that is being downgraded:
 * - `component: Type<any>`: The type of the Component that will be downgraded
 * - `downgradedModule?: string`: The name of the downgraded module (if any) that the component
 * - `propagateDigest?: boolean`: This option is only necessary when using

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Whether to perform `{@link ChangeDetectorRef#detectChanges \* change detection}` on the component on every
`* [Sdigest](https://docs.angularjs.org/api/ng/type/$rootScope.Scope#$digest). If set to `false`, change detection will still be performed when any of the component's inputs changes. `{@link \* (Default: true)}`

`* @returns a factory function that can be used to register the component in an
`* AngularJS module.

`* @publicApi

`* function downgradeComponent(info) `{\n`* var directiveFactory = function ($compile, $parse) `{\n`* // When using `@downgradeModule()`, we need to handle certain things specially. For example:\n`* // - We always need to attach the component view to the `ApplicationRef` for it to be
`* dirty-checked.\n`* // - We need to ensure callbacks to Angular APIs (e.g. change detection) are run inside the
`* Angular zone.\n`* // NOTE: This is not needed, when using `UpgradeModule`, because `$digest()`
`* will be run \* inside the Angular zone (except if explicitly escaped, in which case we shouldn't\n`* // force it back in).\n`* var isNgUpgradeLite = getUpgradeAppType($injector) === 3; /* Lite */;\n`* var wrapCallback = isNgUpgradeLite ? function(cb) { return cb; } : function(cb) { return function() { return core.NgZone.isInAngularZone() ? cb() : ngZone.run(cb); }; };\n`* var ngZone;\n`* // When downgrading multiple modules, special handling is needed wrt injectors.\n`* var hasMultipleDowngradedModules = isNgUpgradeLite && (getDowngradedModuleCount($injector) > 1);\n`* return {\n`* restrict: 'E',\n`* terminal: true,\n`* require: [REQUIRE_INJECTOR, REQUIRE_NG_MODEL],\n`* link: function(scope, element, atts, required) {\n`* // We might have to compile the contents asynchronously, because this might have been\`\* // triggered by `UpgradeNg1ComponentAdapterBuilder`, before the Angular templates have\`\* been compiled.\n`* var ngModel = required[1];\n`* var parentInjector = required[0];\n`* var moduleInjector = undefined;\n`* var ranAsync = false;\n`* if (!parentInjector || hasMultipleDowngradedModules) {\n`* var downgradedModule = info.downgradedModule || '';\n`* var lazyModuleRefKey = '\"' + LAZY_MODULE_REF + 'ng\"';\n`* var attemptedAction = '\"instantiating component \"' +
`* getTypeName(info.component) + '\"' +\n`* validateInjectionKey($injector, downgradedModule,\n`* lazyModuleRefKey, attemptedAction);\n`* var lazyModuleRef = $injector.get(lazyModuleRefKey);\n`* moduleInjector = lazyModuleRefInjector || lazyModuleRef.promise;\n`* }\n`* Notes:\n`* // There are two injectors: `finalModuleInjector` and `finalParentInjector` (they\n`* might be\`\* // the same instance, but that is irrelevant):\n`* // - `finalModuleInjector` is used to retrieve `ComponentFactoryResolver`, thus it must be\`\* // on the same tree as the `NgModule` that\n`* declares this downgraded component.\n`* // - `finalParentInjector` is used for all other injection\n`* purposes.\n`* // (Note that Angular knows to only traverse the component-tree part of that injector,\n`* // when looking for an injectable and then switch to the module injector.)\n`* // There are basically three cases:\n`* // - If there is no parent component (thus no `parentInjector`), we\n`* bootstrap the downgraded\`\* // `NgModule` and use its injector as both `finalModuleInjector` and\n`* // `finalParentInjector`.\n`* // - If there is a parent component (and thus a `parentInjector`) and we\n`* are\`\* // sure that it\`\* // belongs to the same `NgModule` as this downgraded component (e.g. because there\n`* is\`\* // one downgraded module, we use that `parentInjector` as both `finalModuleInjector` and\n`* // `finalParentInjector`).\n`* // - If there is a parent component, but it may belong to a different\`\* // `NgModule`, then we\`\* // use the `parentInjector` as `finalParentInjector` and this downgraded\n`* component\`\* // declaring `NgModule`’s injector as `finalModuleInjector`.\n`* // Note 1: If the `NgModule` is already bootstrapped, we just get its injector (we don't\n`* // bootstrap again).\n`* // Note 2: It is possible that (while there are multiple downgraded modules) this\n`* downgraded component and its parent component both belong to the same `NgModule`.\n`* In that\n`* case, we could have used the `parentInjector` as both `finalModuleInjector` and\n`* `finalParentInjector`, but (for simplicity) we are\`\* // treating this case as if they belong to different\`\* `NgModule`s. That doesn't\n`* // really affect anything, since `parentInjector` has `moduleInjector` as ancestor\`\* // and trying to resolve `ComponentFactoryResolver` from either one will return\`\* // the same instance.\n`* // If there is a parent component, use its injector as parent
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```javascript
var componentFactory = componentFactoryResolver.resolveComponentFactory(info.component)
if (!componentFactory)
    throw new Error("Unable to retrieve component factory for: " + getTypeName(info.component));

var injectorPromise = new ParentInjectorPromise(element);
var facade = new DowngradeComponentAdapter(element, attrs, scope, ngModel, injector, Sinjector, Scompile, Sparse, componentFactory, wrapCallback);

var projectableNodes = facade.compileContents();

facade.createComponent(projectableNodes);
facade.setupInputs(isNgUpgradeLite, componentFactoryResolver.resolveComponentFactory(info.component));
if (!finalModuleInjector)
    throw new Error("Expecting ComponentFactoryResolver for: " + getTypeName(info.component));

var injectorPromise = new ParentInjectorPromise(element);
var facade = new DowngradeComponentAdapter(element, attrs, scope, ngModel, injector, Sinjector, Scompile, Sparse, componentFactory, wrapCallback);

var projectableNodes = facade.compileContents();

facade.createComponent(projectableNodes);
facade.setupInputs(isNgUpgradeLite, componentFactoryResolver.resolveComponentFactory(info.component));
if (!finalModuleInjector)
    throw new Error("Expecting ComponentFactoryResolver for: " + getTypeName(info.component));

var injectorPromise = new ParentInjectorPromise(element);
```
factory function for the service\n * on an AngularJS module.\n */

*\n * [\@example
upgrade/static/ts/full/module.ts region="\'downgrade-ng2-heroes-service\'\"]*\n */

* Inside an AngularJS
component’s controller we can get hold of the\n * downgraded service via the name we gave when

downgrading,\n */

* [\@example upgrade/static/ts/full/module.ts region="\'example-app\'\"]*\n */

* <div
class="\'alert is-important\'">*\n */

* When using \`\`downgradeModule()\`, downgraded injectables will not be
available until the Angular\n * module that provides them is instantiated. In order to be safe, you need to ensure
that the\n * downgraded injectables are not used anywhere outside of the part of the app where it is used
 * guaranteed that their module has been instantiated.\n */

* For example, it is _OK_ to use a downgraded
service in an upgraded component that is only used\n * from a downgraded Angular component provided by the
same Angular module as the injectable, but it is _not OK_ to use it in an AngularJS component that may be
used independently of Angular or use it in a downgraded Angular component from a different module.\n
*\n */

</div>*\n
* * @param token an \`InjectionToken\` that identifies a service provided from Angular.\n */

* @param downgradedModule the name of the downgraded module (if any) that the injectable\n * \"belongs to\", as returned by a call to \`\`downgradeModule()\`. It is the module, whose injector will\n * be used for instantiating
the injectable.\n
* (This option is only necessary when using \`\`downgradeModule()\` to downgrade more
than one Angular\n * module.)\n */

* @returns a [factory function](https://docs.angularjs.org/guide/di) that
 * can be
 * used to register the service on an AngularJS module.\n */

* @publicApi
 */

function

downgradeInjectable(token, downgradedModule) {
    if (downgradedModule === void 0) { downgradedModule = ''; }
    var factory = function ($injector) {
        var injectorKey = '' + INJECTOR_KEY + downgradedModule;
        var injectableName = isFunction(token) ? getTypeName(token) : String(token);

        var attemptedAction = "instantiating injectable '" + injectableName + "'";
        validateInjectionKey($injector, downgradedModule, injectorKey, attemptedAction);
        var injector = $injector.get(injectorKey);
        return injector.get(token);
    };
    factory['$inject'] = [$INJECTOR];
    return factory;
}

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 */

/**
 * @publicApi
 */

var VERSION = new

core.Version('9.0.7');

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// We have to do a little dance to get the ng1 injector into the module injector.
// We store the ng1 injector so that the provider in the module injector can access it
// Then we \`\`get\`\` the ng1 injector from the module injector, which triggers the provider to read\n // the stored injector and release the
reference to it.\n
var tempInjectorRef = null;

function setTempInjectorRef(injector) {\n    tempInjectorRef = injector;
}

function injectorFactory() {\n    return injector.get('$injector');\n}

function rootScopeFactory(i) {\n    return i.get('$rootScope');\n}

function compileFactory(i) {\n    return i.get('$compile');\n}

function parseFactory(i) {\n    return i.get('$parse');\n}

var angular1Providers = [\n    // We must use exported
named functions for the ng2 factories to keep the compiler happy:\n    // > Metadata collected contains an error
that will be reported at runtime:\n    // > Function calls are not supported:\n    // > Consider replacing the
function or lambda with a reference to an exported function:\n    \provide: 'Injectable', useFactory: InjectableFactory, deps: [] \];\n
    \provide: 'Scope', useFactory: rootScopeFactory, deps: ['$Injectable'] \];\n
    \provide: 'Compile', useFactory: compileFactory, deps: ['$Injectable'] \];\n
    \provide: 'Parse', useFactory: parseFactory, deps: ['$Injectable'] \];\n
    /\"\" */

*/

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 */

var NgAdapterInjector = /** @class */ (function () {
    function

NgAdapterInjector(modInjector) {
    this.modInjector = modInjector;
}

function NgAdapterInjector(modInjector) {
    this.modInjector = modInjector;
}

// When Angular locate a
service in the component injector tree, the not found value is set to
\"NOT_FOUND_CHECK_ONLY_ELEMENT_INJECTOR\". In such a case we should not walk up to the module
// injector.
// AngularJS only supports a single tree and should always check the module.injector.
NgAdapterInjector.prototype.get = function (token, notFoundValue) {
    if (notFoundValue === core.NOT_FOUND_CHECK_ONLY_ELEMENT_INJECTOR) {
        return notFoundValue;
    }
    return this.modInjector.get(token, notFoundValue);
}();

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 */
var moduleUid = 0;

/**
 * @description
 * A helper function for creating an AngularJS module that can bootstrap an Angular module
 * \`on-demand\` (possibly lazily) when a \[@link downgradeComponent downgraded component\]
 * needs to be instantiated.
 * 
 * Part of the [upgrade/static](api?query=upgrade/static) library for hybrid upgrade apps that
 * support AOT compilation.
 * 
 * It allows loading/bootstraping the Angular part of a hybrid application lazily and not having to pay the cost up-front. For example, you can have an AngularJS application that uses Angular for specific routes and only instantiate the Angular modules if/when the user visits one of these routes. The Angular module will be bootstrapped once (when requested for the first time) and the same reference will be used from that point onwards.
 * 
 * \`downgradeModule\` requires either an \`NgModuleFactory\` or a function:
 * 
 * 1. \`NgModuleFactory\`: If you pass an \`NgModuleFactory\`, it will be used to instantiate a module using \`platformBrowser\`s \[@link PlatformRef#bootstrapModuleFactory bootstrapModuleFactory\]().
 * 2. \`Function\`: If you pass a function, it is expected to return a promise resolving to an \`NgModuleRef\`. The function is called with an array of extra \[@link StaticProvider Providers\] that are expected to be available from the returned \`NgModuleRef\`'s \`Injector\`.
 * 
 * \`downgradeModule\` returns the name of the created AngularJS wrapper module. You can use it to declare a dependency in your main AngularJS module.
 * 
 * \`downgradeModule\` is a helper function that is useful when you want to bootstrapped the Angular part of a hybrid application lazily and not have to pay the cost up-front. For example, you can have an AngularJS application that uses Angular for specific routes and only instantiate the Angular modules if/when the user visits one of these routes. The Angular module will be bootstrapped once (when requested for the first time) and the same reference will be used from that point onwards.
 * 
 * \`downgradeModule\` requires either an \`NgModuleFactory\` or a function:
 * 
 * 1. \`NgModuleFactory\`: If you pass an \`NgModuleFactory\`, it will be used to instantiate a module using \`platformBrowser\`s \[@link PlatformRef#bootstrapModuleFactory bootstrapModuleFactory\]().
 * 2. \`Function\`: If you pass a function, it is expected to return a promise resolving to an \`NgModuleRef\`. The function is called with an array of extra \[@link StaticProvider Providers\] that are expected to be available from the returned \`NgModuleRef\`'s \`Injector\`.
 * 
 * \`downgradeModule\` returns the name of the created AngularJS wrapper module. You can use it to declare a dependency in your main AngularJS module.
 * 
 * Differences with \`UpgradeModule\`:
 * 
 * 1. Unlike \`UpgradeModule\`, \`downgradeModule\` does not bootstrap the main AngularJS module inside the \[@link NgZone Angular zone\].
 * 2. Unlike \`UpgradeModule\`, \`downgradeModule\` does not automatically run \`\$digest()\` when changes are detected in the Angular part of the application.
 * 
 * What this means is that applications using \`UpgradeModule\` will run change detection more frequently in order to ensure that both frameworks are properly notified about possible changes. This will inevitably result in more change detection runs than necessary.
 * 
 * \`downgradeModule\`, on the other side, does not try to tie the two change detection systems tightly, restricting the explicit change detection runs only to cases where it knows it is necessary (e.g. when the inputs of a downgraded component change). This improves performance, especially in change-detection-heavy applications, but leaves it up to the developer to manually notify each framework as needed.
 * 
 * For a more detailed discussion of the differences and their implications, see \[@link Upgrading for Performance\]().
 * 
 * \`downgradeModule\` can manually trigger a change detection run in AngularJS using \`
 * [scope.$apply(...)]\`.
 * 
 * You can manually trigger a change detection run in Angular using \[@link NgZone#run\]().
 * 
 * The name of the created AngularJS module is the same as the hybrid application. Use one or the other.
 * 
 * Differences with \`UpgradeModule\`:
 * 
 * Besides their different API, there are two important internal differences between \`downgradeModule\` and \`UpgradeModule\` that affect the behavior of hybrid applications:
 * 
 * 1. Unlike \`UpgradeModule\`, \`downgradeModule\` does not bootstrap the main AngularJS module.
 * 
 * For more details on how to use \`downgradeModule\` see \[@link Upgrading for Performance\]().
 * 
 * Apart from \`UpgradeModule\`, you can use the rest of the `upgrade/static` helpers as usual to build a hybrid application. Note that the Angular pieces (e.g. downgraded services) will not be available until the downgraded module has been bootstrapped, i.e. by instantiating a \`downgradeModule\` component.
 * 
 * You cannot use \`downgradeModule\` and \`UpgradeModule\` in the same hybrid application.
 * 
 * For a more detailed discussion of the differences and their implications, see \[@link Upgrading for Performance\]().
 * 
 * You can manually trigger a change detection run in AngularJS using \`
 * [scope.$apply(...)]\`
 * 
 * You can manually trigger a change detection run in Angular using \[@link NgZone#run\]().
 * 
 * It is possible to downgrade multiple modules.
and include them in an AngularJS application. In this case, each downgraded module will be bootstrapped when an associated downgraded component or injectable needs to be instantiated. Things to keep in mind, when downgrading multiple modules:

- Each downgraded component/injectable needs to be explicitly associated with a downgraded module. See `downgradeComponent()` and `downgradeInjectable()` for more details.
- If you want some injectables to be shared among all downgraded modules, you can provide them as a StaticProvider's, when creating the `PlatformRef` (e.g. via `platformBrowser` or `platformBrowserDynamic`).

When using the `platformBrowser` or `platformBrowserDynamic`:

- `bootstrapModule()` or `bootstrapModuleFactory` to bootstrap the downgraded modules, each one is considered a \`root\` module. As a consequence, a new instance will be created for every injectable provided in \`\`root\`\` (via \`@link Injectable\`\`providedIn\`)\.

- If this is not your intention, you can have a shared module (that will act as act as the \`root\` module) and create all downgraded modules using that module's injector:

  ```javascript
  @example upgrade/static/ts/lite-multi-shared/module.ts region="shared-root-module"
  ```

@publicApi

```javascript
function downgradeModule(moduleFactoryOrBootstrapFn) {
    var lazyModuleName = UPGRADE_MODULE_NAME + '\.lazy' + ++moduleUid;
    var lazyModuleRefKey = LAZY_MODULE_REF + lazyModuleName;
    var lazyInjectorKey = INJECTOR_KEY + lazyModuleName;
    var bootstrapFn = isFunction(moduleFactoryOrBootstrapFn) ?
        moduleFactoryOrBootstrapFn :
        function (extraProviders) {
            return platformBrowser.platformBrowser(extraProviders).bootstrapModuleFactory(moduleFactoryOrBootstrapFn);
        };
    var injector;
    // Create an ng1 module to bootstrap.
    module(lazyModuleName, []).
        constant(UPGRADE_APP_TYPE_KEY, 3 /* Lite */).factory(INJECTOR_KEY, [lazyInjectorKey, identity])
            .factory(lazyInjectorKey, function () {
                if (!injector) {
                    throw new Error('Trying to get the Angular injector before bootstrapping the corresponding module.');
                }
                return injector;
            })
            .factory(LAZY_MODULE_REF, [lazyModuleRefKey, identity])
            .factory(lazyModuleRefKey, function ($) {
                setTempInjectorRef($injector);
                var result = {
                    promise: bootstrapFn(angular1Providers).then(function (ref) {
                        injector = result.injector = new NgAdapterInjector(ref.injector);
                        injector.get($INJECTOR);
                        return injector;
                    })
                };
                return result;
            })
            .config([$INJECTOR, $PROVIDE, function ($injector, $provide) {
                $provide.constant(DOWNGRADED_MODULE_COUNT_KEY, getDowngradedModuleCount($injector) + 1);
            }]);
    return lazyModuleName;
}
```

@license

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---

**Example**

```javascript
function downgradeModule(moduleFactoryOrBootstrapFn) {
    var lazyModuleName = UPGRADE_MODULE_NAME + '\.lazy' + ++moduleUid;
    var lazyModuleRefKey = LAZY_MODULE_REF + lazyModuleName;
    var lazyInjectorKey = INJECTOR_KEY + lazyModuleName;
    var bootstrapFn = isFunction(moduleFactoryOrBootstrapFn) ?
        moduleFactoryOrBootstrapFn :
        function (extraProviders) {
            return platformBrowser.platformBrowser(extraProviders).bootstrapModuleFactory(moduleFactoryOrBootstrapFn);
        };
    var injector;
    // Create an ng1 module to bootstrap.
    module(lazyModuleName, []).
        constant(UPGRADE_APP_TYPE_KEY, 3 /* Lite */).factory(INJECTOR_KEY, [lazyInjectorKey, identity])
            .factory(lazyInjectorKey, function () {
                if (!injector) {
                    throw new Error('Trying to get the Angular injector before bootstrapping the corresponding module.');
                }
                return injector;
            })
            .factory(LAZY_MODULE_REF, [lazyModuleRefKey, identity])
            .factory(lazyModuleRefKey, function ($) {
                setTempInjectorRef($injector);
                var result = {
                    promise: bootstrapFn(angular1Providers).then(function (ref) {
                        injector = result.injector = new NgAdapterInjector(ref.injector);
                        injector.get($INJECTOR);
                        return injector;
                    })
                };
                return result;
            })
            .config([$INJECTOR, $PROVIDE, function ($injector, $provide) {
                $provide.constant(DOWNGRADED_MODULE_COUNT_KEY, getDowngradedModuleCount($injector) + 1);
            }]);
    return lazyModuleName;
}
```

---

Upgrade Helper: A class that can be used to create an instance of a module, which can be used to create a new injector:

```javascript
UpgradeHelper = function (injector, name, elementRef, directive) {
    var injector = injector.get($INJECTOR);
    var result = {
        promise:
            function (ref) {
                injector = result.injector = new NgAdapterInjector(ref.injector);
                injector.get($INJECTOR);
                return injector;
            }
    };
    return result;
};
```

---

NgModule: A class that can be used to create a new injector:

```javascript
NgModule = function (injector, name, elementRef, directive) {
    var injector = injector.get($INJECTOR);
    var result = {
        promise:
            function (ref) {
                injector = result.injector = new NgAdapterInjector(ref.injector);
                injector.get($INJECTOR);
                return injector;
            }
    };
    return result;
};
```

---

AngularJS: A framework that can be used to create a new injector:

```javascript
AngularJS = function (injector, name, elementRef, directive) {
    var injector = injector.get($INJECTOR);
    var result = {
        promise:
            function (ref) {
                injector = result.injector = new NgAdapterInjector(ref.injector);
                injector.get($INJECTOR);
                return injector;
            }
    };
    return result;
};
```

---

License: A license that can be used to create a new injector:

```javascript
License = function (injector, name, elementRef, directive) {
    var injector = injector.get($INJECTOR);
    var result = {
        promise:
            function (ref) {
                injector = result.injector = new NgAdapterInjector(ref.injector);
                injector.get($INJECTOR);
                return injector;
            }
    };
    return result;
};
```
if (directive.template !== undefined) {
    return getOrCall(directive.template, $element);
} else if (directive.templateUrl) {
    var $templateCache_1 = injector.get($TEMPLATE_CACHE);
    var url_1 = getOrCall(directive.templateUrl, $element, null, function (status, response) {
        if (status === 200) {
            resolve($templateCache_1.put(url_1, response));
        } else {
            throw new Error('loading directive templates asynchronously is not supported');
        }
    });
    var template = $templateCache_1.get(url_1);
    if (template !== undefined) {
        return template;
    } else if (!fetchRemoteTemplate) {
        throw new Error('loading directive
    ```
```
```javascript
property.apply(void 0, __spread(args)) : property;
    }
    // NOTE: Only works for `typeof T !== 'object'.

function isMap(value) {
        return value && !Array.isArray(value) && typeof value === 'object';
    }

function notSupported(name, feature) {
        throw new Error("Upgraded directive '" + name + "' contains unsupported feature: '" + feature + "'.");
    }

    /**
     * @license
     * Copyright Google Inc. All Rights
     * Reserved.
     *
     * Use of this source code is governed by an MIT-style license that can be
     * found in the
     */
    var NOT_SUPPORTED = 'NOT_SUPPORTED';
    var INITIAL_VALUE$1 = {
        __UNINITIALIZED__: true
    };
    var Bindings = /** @class */ (function () {
        function Bindings() {
            this.twoWayBoundProperties = [];
            this.twoWayBoundLastValues = [];
            this.expressionBoundProperties = [];
            this.propertyToOutputMap = {};
        }
        return Bindings;
    }());
    /**
     * @description
     *
     * A helper class that allows an AngularJS component to be
     * used from Angular.
     *
     * *Part of the [upgrade/static](api?query=upgrade%2Fstatic) library for hybrid
     * upgrade apps that support AOT compilation.*
     *
     * This helper class should be used as a base class for
     * creating Angular directives
     * that wrap AngularJS components that need to be \`upgraded\`.
     *
     * @usageNotes
     * ### Examples
     * Let's assume that you have an AngularJS component called
     * \`ng1Hero\` that needs
     * to be made available in Angular templates.
     *
     * ```
     * upgrade/static/ts/full/module.ts
     * // region="ng1-hero"
     * ```
     *
     * We must create a `Directive` that will make this AngularJS component
     * available inside Angular templates.
     *
     * ```
     * upgrade/static/ts/full/module.ts
     * // region="ng1-hero-wrapper"
     * ```
     *
     * In this example you can see that we must
     * derive from the `UpgradeComponent` base class but also provide an `@link Directive` `@Directive`
     * decorator. This is
     * because the AOT compiler requires that this information is statically available at
     * compile time.
     *
     * Note that we must do the following:
     * * specify the directive's selector (\`ng1-hero\`)
     * * specify all inputs and outputs that the AngularJS component expects
     * * derive from
     * the UpgradeComponent instance.
     * * call the base class from the constructor, passing
     *   * the AngularJS name of the component (\`ng1Hero\`)  
     *   * the `ElementRef` and `Injector` for the component wrapper
     *
     * ```
     * UpgradeComponent(name, elementRef, injector) {
     *     this.name = name;
     *     this.elementRef = elementRef;
     *     this.injector = injector;
     *     this.helper = new UpgradeHelper(injector, name, elementRef);
     *     this.$injector = this.helper.$injector;
     *     this.element = this.helper.element;
     *     this.$element = this.helper.$element;
     *     this.directive = this.helper.directive;
     *     this.bindings = this.initializeBindings(this.directive);
     *     // We ask for the AngularJS scope from the Angular injector, since
     *     // we will put the new component scope onto the new injector for each component
     *     var $parentScope = injector.get($SCOPE);
     *     this.$componentScope = $parentScope.$new(!!this.directive.scope);
     *     this.initializeOutputs();
     *     // QUESTION 1: Should we create an isolated scope if the scope is only true?
     *     // QUESTION 2: Should we make the scope accessible through \$ElementScope/\$IsolateScope\`?
     *     this.$ComponentScope = $parentScope.$new(!this.directive.scope);
     *     this.initializeOutputs();
     *     // Collect content, insert and compile template
     *     var attachChildNodes = this.helper.prepareTransclusion();
     *     var linkFn = this.helper.compileTemplate();
     *     // Instantiate controller
     *     var controllerType =
     *         this.directive.controller;
     *     var bindToController = this.directive.bindToController;
     *     var $componentScope = injector.get($SCOPE);
     *     // QUESTION 1: Should we create an isolated scope if the scope is only true?
     *     // QUESTION 2: Should we make the scope accessible through \$ElementScope/\$IsolateScope\`?
     *     this.$ComponentScope = $parentScope.$new(!this.directive.scope);
     *     this.initializeOutputs();
     *     UpgradeComponent.prototype.ngOnInit = function () {
     *         var this = this;
     *         // Collect content, insert and compile template
     *         var attachChildNodes = this.helper.prepareTransclusion();
     *         var linkFn = this.helper.compileTemplate();
     *         // Instantiate controller
     *         var controllerType =
     *             this.directive.controller;
     *         var bindToController = this.directive.bindToController;
     *         if (controllerType) {
     *             this.controllerInstance = this.helper.buildController(controllerType,
     * this.$ComponentScope);
     *         } else if (bindToController) {
     *             throw new Error("Upgraded
directive \`\` + this.directive.name + \`\` specifies bindToController but no controller.");
     *         }
     *     }
     *     // Set up outputs
     *     this.bindingDestination = bindToController ? this.controllerInstance : this.$ComponentScope;
     *     this.bindOutputs();
     *     // Require other controllers
     *     var requiredControllers =
     * });
    */
```
this.helper.resolveAndBindRequiredControllers(this.controllerInstance);  // Hook: $onChanges
if (this.pendingChanges) {
    this.forwardChanges(this.pendingChanges);
    this.pendingChanges = null;
}  // Hook: $onInit
if (this.controllerInstance &&
isFunction(this.controllerInstance.$onInit)) {
    this.controllerInstance.$onInit();
}
// Hook: $doCheck
if (this.controllerInstance && isFunction(this.controllerInstance.$doCheck)) {
    var callDoCheck = function () { return this.controllerInstance.$doCheck(); }
    this.unregisterDoCheckWatcher = this.$componentScope.$parent.$watch(callDoCheck);  
    callDoCheck();  // Linking
    var link = this.directive.link;
    var preLink = typeof link == 'object' && link.pre;
    var postLink = typeof link == 'object' ? link.post : link;
    var attrs = NOT_SUPPORTED;
    var transcludeFn = NOT_SUPPORTED;
    if (preLink) {
        preLink(this.$componentScope, this.$element, attrs, requiredControllers, transcludeFn);
    }
    linkFn(this.$componentScope, null, {parentBoundTranscludeFn: attachChildNodes});
    if (postLink) {
        postLink(this.$componentScope, this.$element, attrs, requiredControllers, transcludeFn);
    }
}
UpgradeComponent.prototype.ngOnChanges = function (changes) {
    if (!this.bindingDestination) {
        this.pendingChanges = changes;
    } else {
        this.forwardChanges(changes);
    }
}
UpgradeComponent.prototype.ngDoCheck = function () {
    var _this = this;
    var twoWayBoundProperties = this.bindings.twoWayBoundProperties;
    var twoWayBoundLastValues = this.bindings.twoWayBoundLastValues;
    var propertyToOutputMap = this.bindings.propertyToOutputMap;
    twoWayBoundProperties.forEach(function (propName, idx) {
        var newValue = _this.bindingDestination[propName];
        var oldValue = twoWayBoundLastValues[idx];
        if (!core.looseIdentical(newValue, oldValue)) {
            var outputName = propertyToOutputMap[propName];
            var eventEmitter = _this[outputName];
            eventEmitter.emit(newValue);
            twoWayBoundLastValues[idx] = newValue;
        }
    });
    UpgradeComponent.prototype.ngOnDestroy = function () { 
        if (isFunction(this.unregisterDoCheckWatcher)) {
            this.unregisterDoCheckWatcher();
        }
    }
}
UpgradeComponent.prototype.initializeBindings = function (directive) {
    var _this = this;
    var btcIsObject = typeof directive.bindToController === 'object';
    if (btcIsObject && Object.keys(directive.scope).length) {
        throw new Error("Binding definitions on scope and controller at
the same time is not supported.");
    }
    var context = btcIsObject ? directive.bindToController : directive.scope;
    var bindings = new Bindings();
    if (typeof context == 'object') {
        Object.keys(context).forEach(function (propName) {
            var definition = context[propName];
            var bindingType = definition.charAt(0);
            switch (bindingType) {
                case '@':
                case '<':
                    // We don't
                    break;
                case '=':
                    bindings.twoWayBoundProperties.push(propName);
                    bindings.twoWayBoundLastValues.push(INITIAL_VALUE$1);
                    bindings.propertyToOutputMap[propName] = propName + 'Change';
                    break;
                case '&':
                    bindings.expressionBoundProperties.push(propName);
                    bindings.expressionBoundProperties.push(propName);
                    break;
                default:
                    var json = JSON.stringify(context);
                    throw new Error("Unexpected mapping "+
                    bindingType + " in " + json + " expected " + 
                    bindingType.toLowerCase());
                    break;
            }
        });
    }
    UpgradeComponent.prototype.initializeOutputs = function () {
        bindings.twoWayBoundProperties.push(INITIAL_VALUE$1);
        bindings.propertyToOutputMap[propName] = propName + 'Change';
        case '&&'
        bindings.expressionBoundProperties.push(propName);
        break;
        default:
        var json = JSON.stringify(context);
        throw new Error("Unexpected mapping "+
        bindingType + " in " + json + " expected " + 
        _this.name + " directive.");
        break;
    }
    UpgradeComponent.prototype.onCreate = function () { 
        if (this.controllerInstance &&
isFunction(this.controllerInstance.onCreate)) {
            this.controllerInstance.onCreate();
        }
    }
    UpgradeComponent.prototype.onDestroy = function () {
        if (isFunction(this.unregisterDoCheckWatcher)) {
            this.unregisterDoCheckWatcher();
        }
    }
    UpgradeComponent.prototype.initControllerInstance = function () { 
        if (this.controllerInstance &&
isFunction(this.controllerInstance.initControllerInstance)) {
            this.controllerInstance.initControllerInstance();
        }
    }
    UpgradeComponent.prototype.onInputEvent = function (event) {
        if (isFunction(this.controllerInstance.onInputEvent)) {
            this.controllerInstance.onInputEvent(event);
        }
    }
    UpgradeComponent.prototype.onSubmit = function () { 
        if (isFunction(this.controllerInstance.onSubmit)) {
            this.controllerInstance.onSubmit();
        }
    }
    UpgradeComponent.prototype.onRegisterInView = function () { 
        if (isFunction(this.controllerInstance.onRegisterInView)) {
            this.controllerInstance.onRegisterInView();
        }
    }
    UpgradeComponent.prototype.onUnregisterInView = function () { 
        if (isFunction(this.controllerInstance.onUnregisterInView)) {
            this.controllerInstance.onUnregisterInView();
        }
    }
    UpgradeComponent.prototype.onChange = function (changes) { 
        this.controllerInstance.onChange(changes);
    }
    UpgradeComponent.prototype.onPrelink = function () { 
        if (isFunction(this.controllerInstance.onPrelink)) {
            this.controllerInstance.onPrelink();
        }
    }
    UpgradeComponent.prototype.onPostlink = function () { 
        if (isFunction(this.controllerInstance.onPostlink)) {
            this.controllerInstance.onPostlink();
        }
    }
    UpgradeComponent.prototype.onPrelink = function () { 
        if (isFunction(this.controllerInstance.onPrelink)) {
            this.controllerInstance.onPrelink();
        }
    }
    UpgradeComponent.prototype.onPostlink = function () { 
        if (isFunction(this.controllerInstance.onPostlink)) {
            this.controllerInstance.onPostlink();
        }
    }
    UpgradeComponent.prototype.onPrelink = function () { 
        if (isFunction(this.controllerInstance.onPrelink)) {
            this.controllerInstance.onPrelink();
        }
    }
    UpgradeComponent.prototype.onPostlink = function () { 
        if (isFunction(this.controllerInstance.onPostlink)) {
            this.controllerInstance.onPostlink();
        }
    }
    UpgradeComponent.prototype.initializeBindings = function (directive) {
        var _this = this;
        var btcIsObject = typeof directive.bindToController === 'object';
        if (btcIsObject && Object.keys(directive.scope).length) {
            throw new Error("Binding definitions on scope and controller at
the same time is not supported.");
        }
        var context = btcIsObject ? directive.bindToController : directive.scope;
        var bindings = new Bindings();
        if (typeof context == 'object') {
            Object.keys(context).forEach(function (propName) {
                var definition = context[propName];
                var bindingType = definition.charAt(0);
                switch (bindingType) {
                    case '@':
                    case '<':
                        // We don't
                        break;
                    case '=':
                        bindings.twoWayBoundProperties.push(propName);
                        bindings.twoWayBoundLastValues.push(INITIAL_VALUE$1);
                        bindings.propertyToOutputMap[propName] = propName + 'Change';
                        break;
                    case '&':
                        bindings.expressionBoundProperties.push(propName);
                        bindings.propertyToOutputMap[propName] = propName;
                        break;
                    default:
                        var json = JSON.stringify(context);
                        throw new Error("Unexpected mapping '" +
                        bindingType + '" in '" + json + '" expected " +
                        bindingType.toLowerCase());
                        break;
                }
            });
        }
        UpgradeComponent.prototype.initializeOutputs = function () { 
            bindings.twoWayBoundProperties.push(INITIAL_VALUE$1);
            bindings.propertyToOutputMap[propName] = propName + 'Change';
            case '&&'
            bindings.expressionBoundProperties.push(propName);
            break;
            default:
            var json = JSON.stringify(context);
            throw new Error("Unexpected mapping "+
            bindingType + " in " + json + " expected " + 
            _this.name + " directive.");
            break;
        }
        UpgradeComponent.prototype.onCreate = function () { 
            if (this.controllerInstance &&
isFunction(this.controllerInstance.onCreate)) {
                this.controllerInstance.onCreate();
            }
        }
        UpgradeComponent.prototype.onDestroy = function () { 
            if (isFunction(this.unregisterDoCheckWatcher)) {
                this.unregisterDoCheckWatcher();
            }
        }
        UpgradeComponent.prototype.initControllerInstance = function () { 
            if (this.controllerInstance &&
isFunction(this.controllerInstance.initControllerInstance)) {
                this.controllerInstance.initControllerInstance();
            }
        }
        UpgradeComponent.prototype.onInputEvent = function (event) {
            if (isFunction(this.controllerInstance.onInputEvent)) {
                this.controllerInstance.onInputEvent(event);
            }
        }
        UpgradeComponent.prototype.onSubmit = function () { 
            if (isFunction(this.controllerInstance.onSubmit)) {
                this.controllerInstance.onSubmit();
            }
        }
        UpgradeComponent.prototype.onRegisterInView = function () { 
            if (isFunction(this.controllerInstance.onRegisterInView)) {
                this.controllerInstance.onRegisterInView();
            }
        }
        UpgradeComponent.prototype.onUnregisterInView = function () { 
            if (isFunction(this.controllerInstance.onUnregisterInView)) {
                this.controllerInstance.onUnregisterInView();
            }
        }
        UpgradeComponent.prototype.onChange = function (changes) { 
            this.controllerInstance.onChange(changes);
        }
        UpgradeComponent.prototype.onPrelink = function () { 
            if (isFunction(this.controllerInstance.onPrelink)) {
                this.controllerInstance.onPrelink();
            }
        }
        UpgradeComponent.prototype.onPostlink = function () { 
            if (isFunction(this.controllerInstance.onPostlink)) {
                this.controllerInstance.onPostlink();
            }
        }
    }
}
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function (propName) {
          var outputName = _this.bindings.propertyToOutputMap[propName];
          _this[outputName] = new core.EventEmitter();
        });
    }

UpgradeComponent.prototype.bindOutputs = function () {
    var _this = this;

    // Bind `&` bindings to
    this.bindings.expressionBoundProperties.forEach(function (propName) {
          var outputName = _this.bindings.propertyToOutputMap[propName];
          var emitter = _this[outputName];
          _this.bindingDestination[propName] = function (value) { return emitter.emit(value); }
    });

    UpgradeComponent.prototype.forwardChanges = function (changes) {
        var _this = this;
        // Forward input changes to `bindingDestination`
        Object.keys(changes).forEach(function (propName) { return _this.bindingDestination[propName] = changes[propName].currentValue; });
    }

    // The `upgrade/static` module provides helpers that allow AngularJS and Angular components
    // to be used together inside a hybrid upgrade application, which supports AOT compilation.
    // Specifically, the classes and functions in the `upgrade/static` module allow the following:
    // 1. Creation of an Angular
    //    directive that wraps and exposes an AngularJS component so
    //    that it can be used in an Angular template. See
    //    `UpgradeComponent`.
    // 2. Creation of an AngularJS directive that wraps and exposes an Angular component
    //    so
    //    that it can be used in an AngularJS template. See `downgradeComponent`.
    // 3. Creation of an
    //    Angular root injector provider that wraps and exposes an AngularJS
    //    service so
    //    that it can be injected into an Angular context. See
    //    `UpgradeModule#upgrading-an-angular-1-service`.
    // 4. Creation of an AngularJS service that wraps and exposes an Angular injectable
    //    so
    //    that it can be injected into an AngularJS context. See `downgradeInjectable`.
    // 5. Bootstrapping of a hybrid
    //    Angular application which contains both of the frameworks
    //    coexisting in a single application.
    // 6. When reasoning about how a hybrid application works it is useful to have a mental model which
    //    describes
    //    what is happening and explains what is happening at the lowest level.
    //    1. There are two independent frameworks running in a single application, each framework treats
    //    the other as a black box.
    //    2. Each
    //    DOM element on the page is owned exactly by one framework. Whichever framework
    //    instantiated the
    //    element is the owner. The other framework then instantiates and owns the
    //    view for that
    //    component.
    //    3. AngularJS directives always execute inside the AngularJS framework codebase regardless of
    //    where they are instantiated.
    //    4. Angular components always execute inside the Angular framework codebase regardless of
    //    where they are instantiated.
    //    5. An AngularJS component can be `\"upgraded\"` to an Angular component.
    //       This is achieved by defining an Angular directive, which bootstraps the AngularJS
    //       component at its location in
    //       the DOM. See `UpgradeComponent#upgrading-an-angular-1-service`.
    //       An Angular component can be `\"downgraded\"` to an AngularJS component.
    //       This is achieved by defining an AngularJS directive, which bootstraps the Angular component at its location in
    //       the DOM. See `downgradeComponent`.
    //       Whenever an `\"upgraded\"` component is instantiated the host element is owned by the
    //       framework doing the instantiation. The other framework then instantiates and owns the
    //       view for that
    //       component. This implies that the component bindings will always follow the semantics of the
    //       instantiation framework.
    //       2. The DOM attributes are parsed by the framework that owns the current template.
    //       So attributes in AngularJS templates must use kebab-case, while AngularJS templates must use
    //       camelCase.
    //       3. However the template binding syntax will always use the Angular style, e.g. square
    //          brackets (`\[...\]`) for property binding.
    //       8. Angular is bootstrapped first; AngularJS is bootstrapped second.

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AngularJS always owns the root component of the application. The new application is running in an Angular zone, and therefore it no longer needs calls to `$apply()`. The `UpgradeModule` class has an `NgModule`, which you import to provide AngularJS core services, and has an instance method used to bootstrap the hybrid upgrade application. Importing this `NgModule` will add providers for the core AngularJS services. After importing this `NgModule`, you need to call its `bootstrap` method. The runtime instance of this class contains a method, which you use to bootstrap the top-level AngularJS module onto an element in the DOM for the hybrid upgrade application. It also contains properties to access the [AngularJS $injector](https://docs.angularjs.org/api/auto/service/$injector).

### The `UpgradeModule` class

This class is an `NgModule`, which you import to provide AngularJS core services, and has an instance method used to bootstrap the hybrid upgrade application. Importing this `NgModule` will add providers for the core AngularJS services. After importing this `NgModule`, you need to call its `bootstrap` method. The runtime instance of this class contains a method, which you use to bootstrap the top-level AngularJS module onto an element in the DOM for the hybrid upgrade application. It also contains properties to access the [AngularJS $injector](https://docs.angularjs.org/api/auto/service/$injector).

### Examples

Import the `UpgradeModule` into your top-level `NgModule`.

```typescript
@NgModule({
  declarations: [MyComponent],
  imports: [UpgradeModule],
  providers: [MyProvider],
  bootstrap: [MyComponent]
})
export class AppModule {

  constructor(private injector: Injector) {
    this.$injector = injector;
  }
}
```

Then inject `UpgradeModule` into your AngularJS module.

```typescript
import { NgModule } from '@angular/core';
import { UpgradeModule } from 'upgrade';

@NgModule({
  bootstrap: [MyAngularJSModule],
  providers: [MyAngularJSProvider]
})
export class AppModule {

  constructor(private injector: Injector) {
    this.$injector = injector;
  }
}
```

### Upgrading an AngularJS service

There is no specific API for upgrading an AngularJS service. Instead you should just follow the same recipe:

```typescript
import { NgModule } from '@angular/core';
import { UpgradeModule } from 'upgrade';

@NgModule({
  bootstrap: [MyAngularJSModule],
  providers: [MyAngularJSProvider]
})
export class AppModule {

  constructor(private injector: Injector) {
    this.$injector = injector;
  }
}
```

Finally, kick off the whole process, by bootstrapping your top-level AngularJS module.

```typescript
import { NgModule } from '@angular/core';
import { UpgradeModule } from 'upgrade';

@NgModule({
  bootstrap: [MyAngularJSModule],
  providers: [MyAngularJSProvider]
})
export class AppModule {

  constructor(private injector: Injector) {
    this.$injector = injector;
  }
}
```

### Upgrading an AngularJS service

There is no specific API for upgrading an AngularJS service. Instead you should just follow the same recipe:

```typescript
import { NgModule } from '@angular/core';
import { UpgradeModule } from 'upgrade';

@NgModule({
  bootstrap: [MyAngularJSModule],
  providers: [MyAngularJSProvider]
})
export class AppModule {

  constructor(private injector: Injector) {
    this.$injector = injector;
  }
}
```
exports.downgradeModule = downgradeModule;
exports.getAngularJSGlobal = getAngularJSGlobal;
exports.getAngularLib = getAngularLib;
exports.setAngularJSGlobal = setAngularJSGlobal;
exports.setAngularLib = setAngularLib;
exports.angular_packages_upgrade_static_static_a = injectorFactory;
exports.angular_packages_upgrade_static_static_b = rootScopeFactory;
exports.angular_packages_upgrade_static_static_c = compileFactory;
exports.angular_packages_upgrade_static_static_d = parseFactory;
exports.angular_packages_upgrade_static_static_e = angular1Providers;

Object.defineProperty(exports, '__esModule', { value: true });

})
//# sourceMappingURL=upgrade-static.umd.js.map

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1047774535_1591199783.98/0/angular-upgrade-9-0-7-src-zip/bundles/upgrade-static.umd.min.js.map
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* /opt/ws_local/PERMITS_SQL/1047774535_1591199783.98/0/angular-upgrade-9-0-7-src-zip/fesm2015/static/testing.js
* /opt/ws_local/PERMITS_SQL/1047774535_1591199783.98/0/angular-upgrade-9-0-7-src-zip/fesm5/static/testing.js
* /opt/ws_local/PERMITS_SQL/1047774535_1591199783.98/0/angular-upgrade-9-0-7-src-zip/fesm5/static.js
* /opt/ws_local/PERMITS_SQL/1047774535_1591199783.98/0/angular-upgrade-9-0-7-src-zip/fesm2015/static.js
* /opt/ws_local/PERMITS_SQL/1047774535_1591199783.98/0/angular-upgrade-9-0-7-src-zip/fesm5/upgrade.js
* /opt/ws_local/PERMITS_SQL/1047774535_1591199783.98/0/angular-upgrade-9-0-7-src-zip/fesm5/upgrade.js

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["version":3,"sources":["packages/upgrade/upgrade-static-testing.umd.js"],"names":["global","factory","exports","module","require","define","amd","self","ng","upgrade","static","testing","core","this","__metadata","metadataKey","metadataValue","Reflect","metadata","noNg","Error","noNgElement","cleanData","angular","bootstrap","element","injector","version","undefined","resumeBootstrap","getTestability","window","hasOwnProperty","\_a","injector\$1","\_prefix","dependencies","$injector","$injectorFactory","AngularTestingModule","__decorate","decorators","target","key","desc","d","e","arguments","length","r","Object","getOwnPropertyDescriptor","decorate","\_i","defineProperty","NgModule","providers","\_provide","\_useFactory","\_Injector","\_createAngularJSTestingModule","\_angularModules","\_constant","\_TestingModule","\_configureTestingModule","\_imports","\_useValue","\_inject","\_name","\_createAngularTestingModule","\_angularJSModules","\_strictDi","\_modules"],"metadata":
```javascript
function __assign(target, source) {
    for (var i in source)
        if (Object.prototype.hasOwnProperty.call(source, i))
            target[i] = source[i];
    return target;
}

__exportStar(m, exports) {
    for (var p in m) exports[p] = m[p];
}

Object.defineProperty(target, key, desc) {
    if (typeof Reflect === "function") return Reflect.defineProperty(target, key, desc);
    if (desc === null) return Object.defineProperty(target, key, desc);
    if (desc.enumerable) target[key] = desc.value;
    else target[key] = undefined;
    return true;
}

function __metadata(metadataKey, metadataValue) {
    if (typeof Reflect === "function" && typeof Reflect.metadata === "function")
        return Reflect.metadata(metadataKey, metadataValue);
}

__param(paramIndex, decorator) {
    return function (target, key) { decorator(target, key, paramIndex); }
}

function __decorate(decorators, target, key, desc) {
    var c = arguments.length, r = c < 3 ? target : desc === null ? desc = Object.getOwnPropertyDescriptor(target, key) : desc, d;
    if (typeof Reflect === "function" && typeof Reflect.decorate === "function")
        return Reflect.decorate(decorators, target, key, desc);
    if (c < 3 && (d = target typeof Symbol === "function" ? Symbol.iterator : Object.prototype.toString.call(target) === "[object Array]") && r)
        r = d; r = (typeof Symbol === "function" ? Symbol.iterator : Object.prototype.toString.call(target) === "[object Array]") && r ? Object.keys(r) : r ? Object.getOwnPropertySymbols(r) : r;
    if (r)
        for (var i = 0, p; i < r.length; i++)
            if (e.indexOf(r[i]) < 0 && Object.prototype.hasOwnProperty.call(s, p[i]))
                t[p[i]] = s[p[i]];
    return t;
}

if (op[0] & 2) return op[1] ? op[1][0] : void 0;
if (op[0] & 3) return op[1] ? op[1][1] : void 0;
if (op[0] & 4) return op[1] ? op[1][2] : void 0;
if (op[0] & 5) return op[1] ? op[1][3] : void 0;
```

---

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$EXCEPTION_HANDLER = $exceptionHandler; 
var $HTTP_BACKEND = $httpBackend; 
var $INJECTOR = $injector; 
var $INTERVAL = $interval; 
var $PARSE = $parse; 
var $PROVIDE = $provide; 
var $ROOT_SCOPE = $rootScope; 
var $SCOPE = $scope; 
var $TEMPLATE_CACHE = $templateCache; 
var $TEMPLATE_REQUEST = $templateRequest; 
var $TESTABILITY = $testability; 
var $COMPILER_KEY = $AngularCompiler; 
var DOWNGRADED_MODULE_COUNT_KEY = $angularDowngradedModuleCount; 
var GROUP_PROJECTABLE_NODES_KEY = $angularGroupProjectableNodes; 
var INJECTOR_KEY = $AngularInjector; 
var LAZY_MODULE_REF = $AngularLazyModuleRef; 
var NG_ZONE_KEY = $AngularNgZone; 
var REQUIRE_INJECTOR = '?^^' + INJECTOR_KEY; 
var REQUIRE_NG_MODEL = '?ngModel'; 
var UPGRADE_MODULE_NAME = $UpgradeModule; 

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 */

$injector = null;
injector$1;

function $injectorFactory() {
    return $injector;
}

var AngularTestingModule = /** @class */ (function () {
    function AngularTestingModule(i) {
        injector$1 = i;
    }
    AngularTestingModule = __decorate([], NgModule({ providers: [{ provide: $INJECTOR, useFactory: $injectorFactory }], __metadata("design:paramtypes", [core.Injector])}), AngularTestingModule);
    return AngularTestingModule;
}());

/**
 * A helper function to use when unit testing Angular services that depend upon upgraded AngularJS services. This function returns an `NgModule` decorated class that is configured to wire up the Angular and AngularJS injectors without the need to actually bootstrap a hybrid application. This makes it simpler and faster to unit test services. Use the returned class as an `import` when configuring the `TestBed`. In the following code snippet, we are configuring the TestBed with two imports. The `Ng2AppModule` is the Angular part of our hybrid application and the `ng1AppModule` is the AngularJS part. The result is that services that are (or have dependencies on) an upgraded AngularJS service, will be instantiated as needed by the AngularJS `$injector`. Services that are (or have dependencies on) an upgraded AngularJS service, will be instantiated as needed by the AngularJS `$injector`.

The helper sets up global variables to hold the shared Angular and AngularJS injectors. Only call this helper once per spec. Do not use `createAngularTestingModule` in the same spec as `createAngularJSTestingModule`. Here is the example application and its unit tests that use `createAngularTestingModule` and `createAngularJSTestingModule`. The testing configuration does not wire up AngularJS digests to Zone hooks. It is the responsibility of the test writer to call `$rootScope.$apply`, as necessary, to trigger AngularJS handlers of async events from Angular.

The helper once per spec does not use `createAngularTestingModule` in the same spec as `createAngularJSTestingModule`. Here is the example application and its unit tests that use `createAngularTestingModule` and `createAngularJSTestingModule`. The testing configuration does not wire up AngularJS digests to Zone hooks. It is the responsibility of the test writer to call `$rootScope.$apply`, as necessary, to trigger AngularJS handlers of async events from Angular.

The helper sets up global variables to hold the shared Angular and AngularJS injectors.

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*/

function createAngularTestingModule(angularJSModules, strictDi) {
    module_('$$angularJSTestingModule', angularJSModules)
        .constant(UPGRADE_APP_TYPE_KEY, 2 /* Static */) 
        .factory(INJECTOR_KEY, function () { return injector$1; });
    $injector = injector(['ng', '$$angularJSTestingModule'], strictDi);
    return AngularTestingModule;
}
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* A helper function to use when unit testing AngularJS services that depend upon downgraded Angular
  services. * This function returns an AngularJS module that is configured to wire up the AngularJS and Angular
  injectors without the need to actually bootstrap a hybrid application. * This makes it simpler and faster to unit
  test services.

* Use the returned AngularJS module in a call to

[`angular.mocks.module`](https://docs.angularjs.org/api/ngMock/function/angular.mock.module) to include
this module in the unit test injector. * In the following code snippet, we are configuring the `Sinjector` with two modules:
* The AngularJS `ng1AppModule`, which is the AngularJS part of our hybrid application and the
* `Ng2AppModule`, which is the Angular part.

* Once this is done we can get hold of services via the AngularJS `Sinjector` as normal. * Services that are (or have
dependencies on) a downgraded Angular service, will be instantiated as needed by the Angular root

`Sinjector`. * In the following code snippet, `heroesService` is a downgraded Angular service that we are

* accessing from AngularJS. * This helper is for testing services not components. * For Component testing you must still bootstrap a hybrid app. See

`UpgradeModule` or `downgradeModule` for more information. * This helper is for testing services not components. * For Component testing you must still bootstrap a hybrid app. See

`UpgradeModule` or `downgradeModule` for more information. * This helper is for testing services not components. * For Component testing you must still bootstrap a hybrid app. See

`UpgradeModule` or `downgradeModule` for more information. * This helper is for testing services not components. * For Component testing you must still bootstrap a hybrid app. See

`UpgradeModule` or `downgradeModule` for more information.

* Here is the example application and its unit tests that use `createAngularTestingModule` in the same spec as `createAngularTestingModule` and `createAngularJSTestingModule`.

* The resulting configuration does not wire up AngularJS digests to Zone hooks. It is the responsibility of the test writer to call `$rootScope.$apply`, as necessary, to trigger AngularJS handlers of async events from Angular.

* The helper sets up global variables to hold the shared Angular and AngularJS injectors.

* Only call this helper once per spec. * Do not use `createAngularJSTestingModule` in the same spec as `createAngularTestingModule`.

* Here is the example application and its unit tests that use `createAngularTestingModule` and `createAngularJSTestingModule`.

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Found in path(s):
* /opt/ws_local/PERMITS_SQL/1047774535_1591199783.98/0/angular-upgrade-9-0-7-src-zip/static/testing.d.ts
* /opt/ws_local/PERMITS_SQL/1047774535_1591199783.98/0/angular-upgrade-9-0-7-src-zip/static/static.d.ts
* /opt/ws_local/PERMITS_SQL/1047774535_1591199783.98/0/angular-upgrade-9-0-7-src-zip/upgrade.d.ts
* /opt/ws_local/PERMITS_SQL/1047774535_1591199783.98/0/angular-upgrade-9-0-7-src-zip/static/testing/testing.d.ts

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* /opt/ws_local/PERMITS_SQL/1047774535_1591199783.98/0/angular-upgrade-9-0-7-src-zip/bundles/upgrade.umd.js
* /opt/ws_local/PERMITS_SQL/1047774535_1591199783.98/0/angular-upgrade-9-0-7-src-
No license file was found, but licenses were detected in source scan.
(window.hasOwnProperty('angular')) {
    angular = (<any>window).angular;
  }
} catch {
  // ignore in CJS
}

/**
 * @deprecated Use `setAngularJSGlobal` instead.
 *
 * @publicApi
 */
export function setAngularLib(ng: any): void {
  setAngularJSGlobal(ng);
}

/**
 * @deprecated Use `getAngularJSGlobal` instead.
 *
 * @publicApi
 */
export function getAngularLib(): any {
  return getAngularJSGlobal();
}

/**
 * Resets the AngularJS global.
 *
 * Used when AngularJS is loaded lazily,
 * and not available on `window.`
 *
 * @publicApi
 */
export function setAngularJSGlobal(ng: any): void {
  angular = ng;
  angular.bootstrap(e, modules, config); // Do not declare as `module` to avoid webpack bug
}

export const bootstrap: typeof angular.bootstrap = (e, modules, config?) => angular.bootstrap(e, modules, config);

export const module_: typeof angular.module = (prefix, dependencies?) => angular.module(prefix, dependencies);

export const element: typeof angular.element = (e) => angular.element(e);

export const injector: typeof angular.injector = angular.injector(modules, strictDi);

export const resumeBootstrap: typeof angular.resumeBootstrap = angular.resumeBootstrap;

export const getTestability: typeof angular.getTestability = angular.getTestability;

export const $COMPILE = '$compile';
export const $CONTROLLER = '$controller';
export const $DELEGATE = '$delegate';
export const $EXCEPTION_HANDLER = '$exceptionHandler';
export const $HTTP_BACKEND = '$httpBackend';
export const $INJECTOR = '$injector';
export const $INTERVAL = '$interval';
export const $PARSE = '$parse';
export const $PROVIDE = '$provide';
export const $ROOT_SCOPE = '$rootScope';
export const $SCOPE = '$scope';
export const $TEMPLATE_CACHE = '$templateCache';
export const $TEMPLATE_REQUEST = '$templateRequest';

export const $$TESTABILITY = '$$testability';

export const COMPILER_KEY = '$$$angularCompiler';
export const DOWNGRADED_MODULE_COUNT_KEY = '$$$angularDowngradedModuleCount';
export const GROUP_PROJECTABLE_NODES_KEY = '$$$angularGroupProjectableNodes';
export const INJECTOR_KEY = '$$$angularInjector';
export const LAZY_MODULE_REF = '$$$angularLazyModuleRef';
export const NG_ZONE_KEY = '$$$angularNgZone';

export const REQUIRE_INJECTOR = '?^^' + INJECTOR_KEY;
export const REQUIRE_NG_MODEL = '?ngModel';

export const UPGRADE_APPLICATION_NAME = '$$$UpgradeModule

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/**
 * A `PropertyBinding` represents a
 * mapping between a property name
 * and an attribute name. It is parsed from a string of the form
 * `"prop:attr"`; or simply `"propAndAttr" where the property
 * and attribute have the same identifier.
 */
export class PropertyBinding {
  // TODO(issue/24571): remove '!'.
  bracketAttr !: string;
  // TODO(issue/24571): remove '!'.
  bracketParenAttr !: string;
  // TODO(issue/24571): remove '!'.
  parenAttr !: string;
  // TODO(issue/24571): remove '!'.
  onAttr !: string;
  // TODO(issue/24571): remove '!'.
  bindAttr !: string;
  // TODO(issue/24571): remove '!'.
  bindonAttr !: string;

  constructor(public prop: string, public attr: string) {
    this.parseBinding();
  }

  private parseBinding() {
    this.bracketAttr = `\[${this.attr}\]`;
    this.parenAttr = `\(${this.attr}\)`;
    this.bracketParenAttr = `\[${this.attr}\]`;
    const capitalAttr = this.attr.charAt(0).toUpperCase() + this.attr.substr(1);
    this.onAttr = `on\${capitalAttr}`;
    this.bindAttr = `\${capitalAttr}`;
    this.bindonAttr = `\${capitalAttr}`;
    this.parseBinding() {
      this.bracketAttr = `\[${this.attr}\]`;
      this.parenAttr = `\(${this.attr}\)`;
      this.bracketParenAttr = `\[${this.attr}\]`;
      this.onAttr = `\${capitalAttr}`;
      this.bindAttr = `\${capitalAttr}`;
      this.bindonAttr = `\${capitalAttr}`;
      this.parseBinding() {
        this.bracketAttr = `\[${this.attr}\]`;
        this.parenAttr = `\(${this.attr}\)`;
        this.bracketParenAttr = `\[${this.attr}\]`;
        this.onAttr = `\${capitalAttr}`;
        this.bindAttr = `\${capitalAttr}`;
        this.bindonAttr = `\${capitalAttr}`;
        this.parseBinding() {
          this.bracketAttr = `\[${this.attr}\]`;
          this.parenAttr = `\(${this.attr}\)`;
          this.bracketParenAttr = `\[${this.attr}\]`;
          this.onAttr = `\${capitalAttr}`;
          this.bindAttr = `\${capitalAttr}`;
          this.bindonAttr = `\${capitalAttr}`;
          this.parseBinding() {
            this.bracketAttr = `\[${this.attr}\]`;
            this.parenAttr = `\(${this.attr}\)`;
            this.bracketParenAttr = `\[${this.attr}\]`;
            this.onAttr = `\${capitalAttr}`;
            this.bindAttr = `\${capitalAttr}`;
            this.bindonAttr = `\${capitalAttr}`;
            this.parseBinding() {
              this.bracketAttr = `\[${this.attr}\]`;
              this.parenAttr = `\(${this.attr}\)`;
              this.bracketParenAttr = `\[${this.attr}\]`;
              this.onAttr = `\${capitalAttr}`;
              this.bindAttr = `\${capitalAttr}`;
              this.bindonAttr = `\${capitalAttr}`;
              this.parseBinding() {
                this.bracketAttr = `\[${this.attr}\]`;
                this.parenAttr = `\(${this.attr}\)`;
                this.bracketParenAttr = `\[${this.attr}\]`;
                this.onAttr = `\${capitalAttr}`;
                this.bindAttr = `\${capitalAttr}`;
                this.bindonAttr = `\${capitalAttr}`;
                this.parseBinding() {
                  this.bracketAttr = `\[${this.attr}\]`;
                  this.parenAttr = `\(${this.attr}\)`;
                  this.bracketParenAttr = `\[${this.attr}\]`;
                  this.onAttr = `\${capitalAttr}`;
                  this.bindAttr = `\${capitalAttr}`;
                  this.bindonAttr = `\${capitalAttr}`;
                  this.parseBinding() {
                    this.bracketAttr = `\[${this.attr}\]`;
                    this.parenAttr = `\(${this.attr}\)`;
                    this.bracketParenAttr = `\[${this.attr}\]`;
                    this.onAttr = `\${capitalAttr}`;
                    this.bindAttr = `\${capitalAttr}`;
                    this.bindonAttr = `\${capitalAttr}`;
                    this.parseBinding() {
                      this.bracketAttr = `\[${this.attr}\]`;
                      this.parenAttr = `\(${this.attr}\)`;
                      this.bracketParenAttr = `\[${this.attr}\]`;
                      this.onAttr = `\${capitalAttr}`;
                      this.bindAttr = `\${capitalAttr}`;
                      this.bindonAttr = `\${capitalAttr}`;
                      this.parseBinding() {
                        this.bracketAttr = `\[${this.attr}\]`;
                        this.parenAttr = `\(${this.attr}\)`;
                        this.bracketParenAttr = `\[${this.attr}\]`;
                        this.onAttr = `\${capitalAttr}`;
                        this.bindAttr = `\${capitalAttr}`;
                        this.bindonAttr = `\${capitalAttr}`;
                        this.parseBinding() {
                          this.bracketAttr = `\[${this.attr}\]`;
                          this.parenAttr = `\(${this.attr}\)`;
                          this.bracketParenAttr = `\[${this.attr}\]`;
                          this.onAttr = `\${capitalAttr}`;
                          this.bindAttr = `\${capitalAttr}`;
                          this.bindonAttr = `\${capitalAttr}

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 * found in the LICENSE file at https://angular.io/license
 */

import {Injector, Type} from '@angular/core';

import {IInjectorService, INgModelController} from './angular1';
import {DOWNGRADED_MODULE_COUNT_KEY, UPGRADE_APP_TYPE_KEY} from './constants';

const DIRECTIVE_PREFIX_REGEXP = /\^\([^x]\)/

boolean {
  return val1 === val2 || (val1 !== val2 && val2 !== val2);\n}\n
/**
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 */

import {ApplicationRef, ChangeDetectorRef, ComponentFactory, ComponentRef, EventEmitter, Injector, OnChanges, SimpleChange, SimpleChanges, StaticProvider, Testability, TestabilityRegistry, Type} from '@angular/core';
import {IAttributes, IAugmentedJQuery, ICompileService, INgModelController, IParseService, IScope} from './angular1';
import {PropertyBinding} from './component_info';
import {$SCOPE} from './constants';
import {getTypeName, hookupNgModel, strictEquals} from './util';

const INITIAL_VALUE = {
  __UNINITIALIZED__: true
};

export class DowngradeComponentAdapter {
  private implementsOnChanges = false;
  private inputChangeCount: number = 0;
  private inputChanges: SimpleChanges = {};
  private componentScope: IScope;
  private componentRef!: ComponentRef<any>;
  private component: any;
  private changeDetector!: ChangeDetectorRef;
  private viewChangeDetector!: ChangeDetectorRef;

  constructor(
    private element: IAugmentedJQuery,
    private attrs: IAttributes,
    private scope: IScope,
    private ngModel: INgModelController,
    private parentInjector: Injector,
    private $injector: IInjectorService,
    private $compile: ICompileService,
    private $parse: IParseService,
    private componentFactory: ComponentFactory<any>,
    private wrapCallback: <T>(cb: () => T) => () => T) {
    this.componentScope = scope.$new();
  }

  compileContents(): Node[][] {
    const compiledProjectableNodes: Node[][] = [];
    const projectableNodes: Node[][] = this.groupProjectableNodes();
    const linkFns = projectableNodes.map(nodes => this.$compile(nodes));

    this.element.empty();

    linkFns.forEach(linkFn => {
      linkFn(this.scope,
        (clone: Node[]) => {
          compiledProjectableNodes.push(clone);
          this.element.append!(clone);
        });
    });

    return compiledProjectableNodes;
  }

  createComponent(projectableNodes: Node[][]) {
    const providers: StaticProvider[] = [{provide: $SCOPE, useValue: this.componentScope}];
    const childInjector = Injector.create(
      {providers: providers, parent: this.parentInjector, name: 'DowngradeComponentAdapter'});
    this.componentRef = this.componentFactory.create(childInjector,
      projectableNodes, this.element[0]);
    this.viewChangeDetector = this.componentRef.injector.get(ChangeDetectorRef);
    this.changeDetector = this.componentFactory.createChangeDetectorRef();
    this.component = this.componentRef.instance;
    // testability hook is commonly added during component bootstrap
    // packages/core/src/application_ref.bootstrap()
    // in downgraded application, component creation will take place here as well as adding the
    // testability hook.
    const testability = this.componentRef.injector.get(Testability, null);
    if (testability) {
      this.componentRef.injector.get(TestabilityRegistry).registerApplication(this.componentRef.location.nativeElement, testability);
    }

    hookupNgModel(this.ngModel, this.component);
  }

  setupInputs(manuallyAttachView: boolean, propagateDigest = true): void {
    const attrs = this.attrs;
    const inputs = this.componentFactory.inputs || [];

    for (let i = 0; i < inputs.length; i++) {
      const input = new PropertyBinding(inputs[i].propName, inputs[i].templateName);
      let expr: string|null = null;

      if (attrs.hasOwnProperty(input.attr)) {
        const observeFn = (prop => {
          let prevValue = INITIAL_VALUE;
          return (currValue: any) => {
            // Initially, both `$observe()` and `$watch()` will call this function.
            if (!strictEquals(prevValue, currValue)) {
              if (prevValue === INITIAL_VALUE) {
                prevValue = currValue;
              }
              this.updateInput(prop, prevValue, currValue);
              prevValue = currValue;
            }
          };
        })(input.prop);
        attrs.$observe(input.attr, observeFn);
        // Use `$watch()` (in addition to `$observe()`) in order to initialize the input in time
        // for `ngOnChanges()`. This is necessary if we are already in a `Sdigest`,
        // which means that `ngOnChanges()` (which is called by a watcher) will run before the `$observe()`
        // callback. let unwatch: Function|null = this.componentScope.$watch(() => {
        unwatch = null; observeFn(attrs[input.attr]!);
      } else if (attrs.hasOwnProperty(input.bindAttr)) {
        expr = attrs[input.bindAttr];
      } else if (attrs.hasOwnProperty(input.bracketAttr)) {
        expr = attrs[input.bracketAttr];
      } else if (attrs.hasOwnProperty(input.bindonAttr)) {
        expr = attrs[input.bindonAttr];
      } else if (attrs.hasOwnProperty(input.classAttr)) {
        expr = attrs[input.classAttr];
      } else if (attrs.hasOwnProperty(input.idAttr)) {
        expr = attrs[input.idAttr];
      } else if (attrs.hasOwnProperty(input.styleAttr)) {
        expr = attrs[input.styleAttr];
      } else if (attrs.hasOwnProperty(input.textContentAttr)) {
        expr = attrs[input.textContentAttr];
      } else if (attrs.hasOwnProperty(input.textAttr)) {
        expr = attrs[input.textAttr];
      } else if (attrs.hasOwnProperty(input.testAttr)) {
        expr = attrs[input.testAttr];
      } else if (attrs.hasOwnProperty(input.testonAttr)) {
        expr = attrs[input.testonAttr];
      } else if (attrs.hasOwnProperty(input.testclassAttr)) {
        expr = attrs[input.testclassAttr];
      } else if (attrs.hasOwnProperty(input.testidAttr)) {
        expr = attrs[input.testidAttr];
      } else if (attrs.hasOwnProperty(input.teststyleAttr)) {
        expr = attrs[input.teststyleAttr];
      } else if (attrs.hasOwnProperty(input.testtextContentAttr)) {
        expr = attrs[input.testtextContentAttr];
      } else if (attrs.hasOwnProperty(input.testtextAttr)) {
        expr = attrs[input.testtextAttr];
      } else if (attrs.hasOwnProperty(input.testattr)) {
        expr = attrs[input.testattr];
      } else if (attrs.hasOwnProperty(input.testbindAttr)) {
        expr = attrs[input.testbindAttr];
      } else if (attrs.hasOwnProperty(input.testbindonAttr)) {
        expr = attrs[input.testbindonAttr];
      } else if (attrs.hasOwnProperty(input.testclassAttr)) {
        expr = attrs[input.testclassAttr];
      } else if (attrs.hasOwnProperty(input.testidAttr)) {
        expr = attrs[input.testidAttr];
      } else if (attrs.hasOwnProperty(input.teststyleAttr)) {
        expr = attrs[input.teststyleAttr];
      } else if (attrs.hasOwnProperty(input.testtextContentAttr)) {
        expr = attrs[input.testtextContentAttr];
      } else if (attrs.hasOwnProperty(input.testtextAttr)) {
        expr = attrs[input.testtextAttr];
      } else if (attrs.hasOwnProperty(input.attr)) {
        expr = attrs[input.attr];
      } else if (attrs.hasOwnProperty(input.stringifyAttr)) {
        expr = attrs[input.stringifyAttr];
      } else if (attrs.hasOwnProperty(input.stringifyonAttr)) {
        expr = attrs[input.stringifyonAttr];
      }
    }
  }

  updateInput(prop: string, prevValue: any, currValue: any) {
    // Initially, both `$observe()` and `$watch()` will call this function.
    if (!strictEquals(prevValue, currValue)) {
      if (prevValue === INITIAL_VALUE) {
        prevValue = currValue;
      }
      // `ngOnChanges()` (which is called by a watcher) will run before the `$observe()`
      // callback.
      let unwatch: Function|null = this.componentScope.$watch(() => {
        unwatch = null;
        observeFn(attrs[prop]!);
      } else if (attrs.hasOwnProperty(input.bindAttr)) {
        expr = attrs[input.bindAttr];
      } else if (attrs.hasOwnProperty(input.bracketAttr)) {
        expr = attrs[input.bracketAttr];
      } else if (attrs.hasOwnProperty(input.bindonAttr)) {
        expr = attrs[input.bindonAttr];
      } else if (attrs.hasOwnProperty(input.classAttr)) {
        expr = attrs[input.classAttr];
      } else if (attrs.hasOwnProperty(input.idAttr)) {
        expr = attrs[input.idAttr];
      } else if (attrs.hasOwnProperty(input.styleAttr)) {
        expr = attrs[input.styleAttr];
      } else if (attrs.hasOwnProperty(input.textContentAttr)) {
        expr = attrs[input.textContentAttr];
      } else if (attrs.hasOwnProperty(input.textAttr)) {
        expr = attrs[input.textAttr];
      } else if (attrs.hasOwnProperty(input.testAttr)) {
        expr = attrs[input.testAttr];
      } else if (attrs.hasOwnProperty(input.testonAttr)) {
        expr = attrs[input.testonAttr];
      } else if (attrs.hasOwnProperty(input.testclassAttr)) {
        expr = attrs[input.testclassAttr];
      } else if (attrs.hasOwnProperty(input.testidAttr)) {
        expr = attrs[input.testidAttr];
      } else if (attrs.hasOwnProperty(input.teststyleAttr)) {
        expr = attrs[input.teststyleAttr];
      } else if (attrs.hasOwnProperty(input.testtextContentAttr)) {
        expr = attrs[input.testtextContentAttr];
      } else if (attrs.hasOwnProperty(input.testtextAttr)) {
        expr = attrs[input.testtextAttr];
      } else if (attrs.hasOwnProperty(input.testattr)) {
        expr = attrs[input.testattr];
      } else if (attrs.hasOwnProperty(input.testbindAttr)) {
        expr = attrs[input.testbindAttr];
      } else if (attrs.hasOwnProperty(input.testbindonAttr)) {
        expr = attrs[input.testbindonAttr];
      } else if (attrs.hasOwnProperty(input.testclassAttr)) {
        expr = attrs[input.testclassAttr];
      } else if (attrs.hasOwnProperty(input.testidAttr)) {
        expr = attrs[input.testidAttr];
      } else if (attrs.hasOwnProperty(input.teststyleAttr)) {
        expr = attrs[input.teststyleAttr];
      } else if (attrs.hasOwnProperty(input.testtextContentAttr)) {
        expr = attrs[input.testtextContentAttr];
      } else if (attrs.hasOwnProperty(input.testtextAttr)) {
        expr = attrs[input.testtextAttr];
      } else if (attrs.hasOwnProperty(input.attr)) {
        expr = attrs[input.attr];
      } else if (attrs.hasOwnProperty(input.stringifyAttr)) {
        expr = attrs[input.stringifyAttr];
      } else if (attrs.hasOwnProperty(input.stringifyonAttr)) {
        expr = attrs[input.stringifyonAttr];
      }
    }
  }

  //...
attrs[input.bindonAttr];\n
} else if (attrs.hasOwnProperty(input.bracketParenAttr)) {\n
expr =
attrs[input.bracketParenAttr];\n
}\n
if (expr != null) {\n
const watchFn =\n
(prop => (currValue:
any, prevValue: any) =>\n
this.updateInput(prop, prevValue, currValue))(input.prop);\n
this.componentScope.$watch(expr, watchFn);\n
}\n }\n\n // Invoke `ngOnChanges()` and Change Detection
(when necessary)\n const detectChanges = () => this.changeDetector.detectChanges();\n const prototype =
this.componentFactory.componentType.prototype;\n this.implementsOnChanges = !!(prototype &&
(<OnChanges>prototype).ngOnChanges);\n\n this.componentScope.$watch(() => this.inputChangeCount,
this.wrapCallback(() => {\n
// Invoke `ngOnChanges()`\n
if (this.implementsOnChanges) {\n
const
inputChanges = this.inputChanges;\n
this.inputChanges = {};\n
(<OnChanges>this.component).ngOnChanges(inputChanges !);\n
}\n\n
this.viewChangeDetector.markForCheck();\n\n
// If opted out of propagating digests, invoke change detection
when inputs change.\n
if (!propagateDigest) {\n
detectChanges();\n
}\n }));\n\n // If not opted out of
propagating digests, invoke change detection on every digest\n if (propagateDigest) {\n
this.componentScope.$watch(this.wrapCallback(detectChanges));\n }\n\n // If necessary, attach the view so that
it will be dirty-checked.\n // (Allow time for the initial input values to be set and `ngOnChanges()` to be called.)\n
if (manuallyAttachView || !propagateDigest) {\n
let unwatch: Function|null = this.componentScope.$watch(() =>
{\n
unwatch !();\n
unwatch = null;\n\n
const appRef =
this.parentInjector.get<ApplicationRef>(ApplicationRef);\n
appRef.attachView(this.componentRef.hostView);\n
});\n }\n }\n\n setupOutputs() {\n const attrs =
this.attrs;\n const outputs = this.componentFactory.outputs || [];\n for (let j = 0; j < outputs.length; j++) {\n
const output = new PropertyBinding(outputs[j].propName, outputs[j].templateName);\n
const bindonAttr =
output.bindonAttr.substring(0, output.bindonAttr.length - 6);\n
const bracketParenAttr =\n
`[(${output.bracketParenAttr.substring(2, output.bracketParenAttr.length - 8)})]`;\n
// order below is important first update bindings then evaluate expressions\n
if (attrs.hasOwnProperty(bindonAttr)) {\n
this.subscribeToOutput(output, attrs[bindonAttr], true);\n
}\n
if (attrs.hasOwnProperty(bracketParenAttr)) {\n
this.subscribeToOutput(output, attrs[bracketParenAttr], true);\n
}\n
if
(attrs.hasOwnProperty(output.onAttr)) {\n
this.subscribeToOutput(output, attrs[output.onAttr]);\n
}\n
if
(attrs.hasOwnProperty(output.parenAttr)) {\n
this.subscribeToOutput(output, attrs[output.parenAttr]);\n
}\n
}\n }\n\n private subscribeToOutput(output: PropertyBinding, expr: string, isAssignment: boolean = false) {\n
const getter = this.$parse(expr);\n const setter = getter.assign;\n if (isAssignment && !setter) {\n
throw new
Error(`Expression '${expr}' is not assignable!`);\n }\n const emitter = this.component[output.prop] as
EventEmitter<any>;\n if (emitter) {\n
emitter.subscribe({\n
next: isAssignment ? (v: any) => setter
!(this.scope, v) :\n
(v: any) => getter(this.scope, {'$event': v})\n
});\n } else {\n
throw new
Error(\n
`Missing emitter '${output.prop}' on component
'${getTypeName(this.componentFactory.componentType)}'!`);\n }\n }\n\n registerCleanup() {\n const
testabilityRegistry = this.componentRef.injector.get(TestabilityRegistry);\n const destroyComponentRef =
this.wrapCallback(() => this.componentRef.destroy());\n let destroyed = false;\n\n this.element.on !('$destroy', ()
=> this.componentScope.$destroy());\n this.componentScope.$on('$destroy', () => {\n
if (!destroyed) {\n
destroyed = true;\n
testabilityRegistry.unregisterApplication(this.componentRef.location.nativeElement);\n
destroyComponentRef();\n
}\n });\n }\n\n getInjector(): Injector { return this.componentRef.injector; }\n\n
private updateInput(prop: string, prevValue: any, currValue: any) {\n if (this.implementsOnChanges) {\n
this.inputChanges[prop] = new SimpleChange(prevValue, currValue, prevValue === currValue);\n }\n\n
this.inputChangeCount++;\n this.component[prop] = currValue;\n }\n\n groupProjectableNodes() {\n let
ngContentSelectors = this.componentFactory.ngContentSelectors;\n return
groupNodesBySelector(ngContentSelectors, this.element.contents !());\n }\n}\n\n/**\n * Group a set of DOM nodes
into `ngContent` groups, based on the given content selectors.\n */\nexport function
groupNodesBySelector(ngContentSelectors: string[], nodes: Node[]): Node[][] {\n const projectableNodes:
Node[][] = [];\n let wildcardNgContentIndex: number;\n\n for (let i = 0, ii = ngContentSelectors.length; i < ii; ++i)

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const ngContentIndex = findMatchingNgContentIndex(node, ngContentSelectors);
if (ngContentIndex !== null) {
  projectableNodes[ngContentIndex].push(node);
}

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 * found in the LICENSE file at https://angular.io/license
 */

import {isFunction} from './util';

export interface Thenable<T> { then(callback: (value: T) => any): any; }

export function isThenable<T>(obj: unknown): obj is Thenable<T> {
  return !!obj && isFunction((obj as any).then);
}

/**
 * Synchronous, promise-like object.
 */
export class SyncPromise<T> {
  protected value: T|undefined;
  private resolved = false;
  private callbacks: ((value: T) => unknown)[] = [];

  static all<T>(valuesOrPromises: (T|Thenable<T>)[]): SyncPromise<T[]> {
    const aggrPromise = new SyncPromise<T[]>();

    let resolvedCount = 0;
    const results: T[] = [];
    const resolve = (idx: number, value: T) => {
      results[idx] = value;
      if (++resolvedCount === valuesOrPromises.length) aggrPromise.resolve(results);
    }

    valuesOrPromises.forEach((p, idx) => {
      if (isThenable(p)) {
        p.then(v => resolve(idx, v));
      } else {
        resolve(idx, p);
      }
    });

    return aggrPromise;
  }

  resolve(value: T): void {
    // Do nothing, if already resolved.
    if (this.resolved) return;

    this.value = value;
    this.resolved = true;
    // Run the queued callbacks.
    this.callbacks.forEach(callback => callback(value));
    this.callbacks.length = 0;
  }

  then(callback: (value: T) => unknown): void {
    if (this.resolved) {
      callback(this.value);
    } else {
      this.callbacks.push(callback);
      } } 

  REQUIRE_NG_MODEL: from '/constants';@nimport { DowngradeComponentAdapter } from '/downgrade_component_adapter';@nimport { SyncPromise, Thenable } from './promise_util';@nimport { LazyModuleRef, UpgradeAppType, controllerKey, getDowngradedModuleCount, getTypeName, getUpgradeAppType, validateInjectionKey } from './util';@nimport { IAnnotatedFunction, IAttributes, IAugmentedJQuery, ICompileService, IDirective, INgModelController, IParseService, IScope } from './angular1';
import {$COMPILE, $INJECTOR, $PARSE, INJECTOR_KEY, LAZY_MODULE_REF, REQUIRE_INJECTOR, REQUIRE_NG_MODEL } from './constants';
import { DowngradeComponentAdapter } from './downgrade_component_adapter';
import { SyncPromise, Thenable } from './promise.util';
import { LazyModuleRef, UpgradeAppType, controllerKey, getDowngradedModuleCount, getTypeName, getUpgradeAppType, validateInjectionKey } from './util';
*/

/**
 * @description
 *
 * A helper function that allows an Angular component to be used from AngularJS.
 *
 * Part of the upgrade/static library for hybrid upgrade apps that support AOT compilation*
 *
 * This helper function returns a factory function to be used for registering an AngularJS wrapper directive for \`downgrading\` an Angular component. It is used to make available an AngularJS component available inside AngularJS templates.

 * The ` downgradeComponent(\` value returns a factory function that we\n * can use to define the AngularJS directive that wraps the \`downgraded\` component.

 * For more details and examples on
downgrading Angular components to AngularJS components please\n * visit the [Upgrade
guide](guide/upgrade#using-angular-components-from-angularjs-code).\n * @param info contains information
about the Component that is being downgraded.\n * "component": Type<any>: The type of the Component that
will be downgraded.\n * "downgradedModule": string: The name of the downgraded module (if any) that the
component\n * "belongs to", as returned by a call to `downgradeModule()` . It is the module, whose\n * corresponding Angular module will be bootstrapped, when the component needs to be instantiated.\n * <br />

* @param info contains information
about the Component that is being downgraded.\n * "component": Type<any>: The type of the Component that
will be downgraded.\n * "downgradedModule": string: The name of the downgraded module (if any) that the
component\n * "belongs to", as returned by a call to `downgradeModule()` . It is the module, whose\n * corresponding Angular module will be bootstrapped, when the component needs to be instantiated.\n * <br />

* @returns a factory
function that can be used to register the component in an AngularJS module.\n * @publicApi
 */
export function downgradeComponent(info: {
  component: Type<any>; downgradedModule?: string; propagateDigest?: boolean;
  /** @deprecated since v4. This parameter is no longer used */
  inputs?: string[];
  /** @deprecated since v4. This parameter is no longer used */
  outputs?: string[];
  /** @deprecated since v4. This parameter is no longer used */
  selectors?: string[];
}): any /* angular.IInjectable */ {
  const directiveFactory:
    IDirective = function($compile: ICompileService, $injector: IInjectorService, $parse:
        IParseService): IDirective {
        // When using `downgradeModule()`, we need to handle certain things specially. For
example:
        // - We always need to attach the component view to the `ApplicationRef` for it to be
        //   dirty-
        // checked.\n        // - We need to ensure callbacks to Angular APIs (e.g. change detection) are run inside the\n        // Angular zone.\n        // NOTE: This is not needed, when using `UpgradeModule`, because `$digest()` will be run\n        // inside the Angular zone (except if explicitly escaped, in which case we shouldn't
        // force it back
in).\n        // const isNgUpgradeLite = getUpgradeAppType($injector) === UpgradeAppType.Lite;\n        const
        wrapCallback: <T>(cb: () => T) => typeof cb =
            isNgUpgradeLite ? cb => cb : cb => () =>
            ngZone.isInAngularZone() ? cb() : ngZone.run(cb):
                let ngZone: NgZone;

        // When downgrading multiple
        // modules, special handling is needed wrt injectors.\n        const hasMultipleDowngradedModules =
            isNgUpgradeLite && (getDowngradedModuleCount($injector) > 1);

        return {
            restrict: 'E',
            terminal: true,
            require: [REQUIRE_INJECTOR, REQUIRE_NG_MODEL],
            link: (scope: IScope, element:
                IAugmentedJQuery, attrs: IAttributes, required: any[]) => {
                // We might have to compile the contents
                // asynchronously, because this might have been
            // triggered by `UpgradeNg1ComponentAdapterBuilder`,
            // before the Angular templates have\n            // been compiled.\n            const ngModel: INgModelController =
                required[1];\n            const parentInjector: Injector|Thenable<Injector>|undefined = required[0];\n            let
            moduleInjector: Injector|Thenable<Injector>|undefined = undefined;
            let ranAsync = false;\n
            if (!parentInjector || hasMultipleDowngradedModules) {
                const lazyModuleRef = $injector.get(lazyModuleRefKey) as LazyModuleRef;
                lazyModuleRefInjector || lazyModuleRef.promise as Promise<Injector>;
            }\n        // Notes:\n        // There are two injectors: `finalModuleInjector` and `finalParentInjector` (they might be\n        // the same instance,
        // but that is irrelevant);\n        // - `finalModuleInjector` is used to retrieve `ComponentFactoryResolver`, thus it must
be\n        // on the same tree as the `NgModule` that declares this downgraded component.\n        // - `finalParentInjector` is used for all other injection purposes.\n        // (Note that Angular knows to only traverse the component-tree part of that injector,\n        // when looking for an injectable and then switch to the module
injector.)\n
        // There are basically three cases:\n        // - If there is no parent component (thus no
        // parentInjector), we bootstrap the downgraded\n        // `NgModule` and use its injector as both
        // `finalModuleInjector` and\n        // - `finalParentInjector`.\n        // - If there is a parent component (and thus a
        // parentInjector) and we are sure that it\n        // belongs to the same `NgModule` as this downgraded component

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(e.g. because there is only
  // one downgraded module, we use that `parentInjector` as both
  `finalModuleInjector` and `finalParentInjector`.
  // - If there is a parent component, but it may belong
to a different `NgModule`, then we've
  // use the `parentInjector` as `finalParentInjector` and this downgraded
  component's
  // declaring `NgModule`'s injector as `finalModuleInjector`.
  // Note 1: If the
  `NgModule` is already bootstrapped, we just get its injector (we don't
  // bootstrap again).
  // Note 2: It is possible that (while there are multiple downgraded modules) this
  // downgraded component and its parent component both belong to the same
`NgModule`.
  // In that case, we could have used the
  `parentInjector` as both
  `finalModuleInjector` and `finalParentInjector`, but (for simplicity) we are
  // treating this case as if they belong to different `NgModule`'s. That doesn't
  // really affect anything, since `parentInjector` has `moduleInjector` as ancestor
  // and trying to resolve
  `ComponentFactoryResolver` from either one will return
  // the same instance.
  // If there is a parent component, use its injector as parent.injector.
  // If this is a \"top-level\" Angular component, use the
  module.injector.

  const finalParentInjector = parentInjector || moduleInjector !;

  // If this is a \"top-level\" Angular component or the parent component may belong to a
  // different `NgModule`, use the module injector for module-specific dependencies.
  // If there is a parent component that belongs to the same
  `NgModule`, use its injector.
  const finalModuleInjector = moduleInjector || parentInjector !;

  const doDowngrade = (injector: Injector, moduleInjector: Injector) => {
    // Retrieve `ComponentFactoryResolver` from the injector tied to the \`NgModule\`
    const componentFactoryResolver: ComponentFactoryResolver =
      moduleInjector.get(ComponentFactoryResolver);
    const componentFactory: ComponentFactory<any> =
      componentFactoryResolver.resolveComponentFactory(info.component) !;

    if (!componentFactory) {
      throw new Error(`Expecting ComponentFactory for: ${getTypeName(info.component)}`);
    }

    const injectorPromise = new ParentInjectorPromise(element);
    const facade = new
      DowngradeComponentAdapter(
        element, attrs, scope, ngModel, injector, $injector, $compile, $parse,
        componentFactory, wrapCallback);

    facade.createComponent(facade.compileContents());
    facade.setupInputs(isNgUpgradeLite, info.propagateDigest);
    facade.setupOutputs();
    facade.registerCleanup();

    injectorPromise.resolve(facade.getInjector());

    if (ranAsync) {
      // If this is run async, it is possible
      // that it is not run inside a
      // digest and initial input values will not be detected.
      scope.$evalAsync(() => {});
    }
  };

  const downgradeFn =
    !isNgUpgradeLite ? doDowngrade : (pInjector: Injector, mInjector: Injector) => {
      if (!ngZone) {
        ngZone = pInjector.get(NgZone);
      }

      wrapCallback(() => doDowngrade(pInjector, mInjector))();
    };

  // NOTE:
  // Not
  // using `ParentInjectorPromise.all()` (which is inherited from SymfonyPromise), because
  // Closure Compiler (or
  // some related tool) complains:
  // \`TypeError: Xsrc downgrade_componentParentInjectorPromise.all is not a
  // function\`
  SyncPromise.all([finalParentInjector, finalModuleInjector]).

  return directiveFactory;
}

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 * Reserved.
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 * found in the
LICENSE file at https://angular.io/license
 */

import {Injector} from '@angular/core';
import {IInjectorService} from './angular1';
import {$INJECTOR, INJECTOR_KEY} from './constants';
import {getTypeName, isFunction, validateInjectionKey} from './util';

/**
 * @description
 *
 * A helper function to
allow an Angular service to be accessible from AngularJS.

```typescript
export function downgradeInjectable(token: any, downgradedModule: string = ''): Function {
  const factory = function($injector: IInjectorService) {
    const injectorKey = `${INJECTOR_KEY}${downgradedModule}`;
    const injectableName = isFunction(token) ? getTypeName(token) : String(token);
    const attemptedAction = `instantiating injectable '${injectableName}'`;

    validateInjectionKey($injector, downgradedModule, injectorKey, attemptedAction);

    const injector: Injector = $injector.get(injectorKey);
    return injector.get(token);
  };
  (factory as any)['$inject'] = [$INJECTOR];

  return factory;
}
```

```typescript
/**
 * @module
 * @description
 *
 * Entry point for all public APIs of the common package.
 */

import {Version} from '@angular/core';

/**
 *
 * @publicApi
 */
export const VERSION = new Version('9.0.7');
```
lambda with a reference to an exported function

```javascript
{provide: 'Sinjector', useFactory: injectorFactory, deps: []},

{provide: 'SrootScope', useFactory: rootScopeFactory, deps: ['Sinjector']},

{provide: 'Scompile', useFactory: compileFactory, deps: ['Sinjector']},

{provide: 'Sparse', useFactory: parseFactory, deps: ['Sinjector']},

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 * found in the LICENSE file at https://angular.io/license
 */

import {Injector, ɵNOT_FOUND_CHECK_ONLY_ELEMENT_INJECTOR as NOT_FOUND_CHECK_ONLY_ELEMENT_INJECTOR} from '@angular/core';

export class NgAdapterInjector implements Injector {
  constructor(private modInjector: Injector) {}

  // When Angular locate a service in the component injector tree, the not found value is set to
  // `NOT_FOUND_CHECK_ONLY_ELEMENT_INJECTOR`. In such a case we should not walk up to the module
  // injector. AngularJS only supports a single tree and should always check the module injector.
  // @param {any} token
  // @param {any=} notFoundValue
  get(token: any, notFoundValue?: any): any {
    if (notFoundValue === NOT_FOUND_CHECK_ONLY_ELEMENT_INJECTOR) {
      return notFoundValue;
    }

    return this.modInjector.get(token, notFoundValue);
  }
}

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 *
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 * found in the LICENSE file at https://angular.io/license
 */

import {Injector, NgModuleFactory, NgModuleRef, StaticProvider} from '@angular/core';
import {platformBrowser} from '@angular/platform-browser';

import {IInjectorService, IProvideService, module_ as angularModule} from '../../src/common/src/angular1';
import {INJECTOR_KEY, LAZY_MODULE_REF, MODULE_NAME, MODULE_TYPE_KEY, UpgradeAppType, getDowngradedModuleCount} from '../../src/common/src/constants';
import {LazyModuleRef, UpgradeAppType, getDowngradedModuleCount, isFunction} from '../../src/common/src/util';
import {angular1Providers, setTempInjectorRef} from './angular1_providers';
import {NgAdapterInjector} from './util';

let moduleUid = 0;

/**
 * @description
 * A helper function for creating an AngularJS module that can bootstrap an Angular module
 * "on-demand" (possibly lazily) when a downgraded component needs to be
 * instantiated. It allows loading/bootstrapping the Angular part of a hybrid application lazily and not having
 * to pay the cost up-front. For example, you can have an AngularJS application that uses Angular for
 * specific routes and only instantiate the Angular modules if/when the user visits one of these routes.
 * The Angular
 * module will be bootstrapped once (when requested for the first time) and the same
 * reference will be used from
 * that point onwards.
 *
 * @param {any=} [token]
 * @param {any=} [notFoundValue]
 * @return {any} The module name of the created AngularJS wrapper module. You can use it to
 * declare a dependency in your main AngularJS module.
 *
 * @example upgrade/static/ts/lite/module.ts region="basic-how-to"
 * For more details on how to use
 * `downgradeModule()` see
 * Upgrading for Performance[guide/upgrade-performance]
 *
 * @param {any=} [component] Apart from `UpgradeModule`, you can use the rest of the
 * `upgrade/static` helpers as usual to build a hybrid
 * application. Note that the Angular pieces (e.g. downgraded services) will not be
 * available until the downgraded module has been bootstrapped, i.e. by instantiating a
 * component.
 * You cannot use `downgradeModule()` and `UpgradeModule` in the same hybrid
 * application. Use one or the other.
 * Besides their different API, there are two important internal differences between
 * `downgradeModule()` and
 * `UpgradeModule` that affect the behavior of hybrid applications:
 * 1. `UpgradeModule` does not bootstrap the main AngularJS module
 * inside the
 * `@link NgZone Angular
 * zone`
 * 2. `UpgradeModule` does not automatically run an
 */

```
[$digest()](https://docs.angularjs.org/api/ng/type/$rootScope.Scope#$digest) when changes are detected in the Angular part of the application. What this means is that applications using `UpgradeModule` will run change detection more frequently in order to ensure that both frameworks are properly notified about possible changes. This will inevitably result in more change detection runs than necessary. It is possible to downgrade multiple modules and include them in an AngularJS application. If that case, each downgraded module will be bootstrapped when an associated downgraded component or injectable needs to be instantiated. Things to keep in mind, when downgrading multiple modules: - Each downgraded component/injectable needs to be explicitly associated with a downgraded module. See `downgradeComponent()` and `downgradeInjectable()` for more details. - If you want some injectables to be shared among all downgraded modules, you can provide them as `StaticProvider`s, when creating the `PlatformRef` (e.g. via `platformBrowser` or `platformBrowserDynamic`). When using `platformRef.bootstrapModuleFactory` to bootstrap the downgraded modules, each one is considered a `\root\` module. As a consequence, a new instance will be created for every injectable provided in `\root\` (via `[@link Injectable#providedIn providedIn]`). If this is not your intention, you can have a shared module (that will act as the `\root\`) and create all downgraded modules using that module’s injector. (e.g. via `@Injectable({ providedIn: 'root' })`).

### Downgrading multiple modules

It is possible to downgrade multiple modules and include them in an AngularJS application. In that case, each downgraded module will be bootstrapped when an associated downgraded component or injectable needs to be instantiated. Things to keep in mind, when downgrading multiple modules:

- Each downgraded component/injectable needs to be explicitly associated with a downgraded module. See `downgradeComponent()` and `downgradeInjectable()` for more details.
- If you want some injectables to be shared among all downgraded modules, you can provide them as `StaticProvider`s, when creating the `PlatformRef` (e.g. via `platformBrowser` or `platformBrowserDynamic`). When using `platformRef.bootstrapModuleFactory` to bootstrap the downgraded modules, each one is considered a `\root\` module. As a consequence, a new instance will be created for every injectable provided in `\root\` (via `[@link Injectable#providedIn providedIn]`).

---

[$injector](https://docs.angularjs.org/api/ng/function/injector) - Constructor for `Injector`. The constructor takes an optional `targetInjector` as argument. `Injector` is the top-level injector in AngularJS. It is created when bootstrapping an AngularJS module.

```javascript
function injector(initializer, targetInjector) {
  this.$injector = targetInjector;
  this.$injector = targetInjector;

  if (targetInjector) {
    this.$injector = targetInjector;
    this.$injector = targetInjector;
  } else {
    this.$injector = targetInjector;
    this.$injector = targetInjector;
  }

  this.$injector = targetInjector;
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  if (targetInjector) {
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  } else {
    this.$injector = targetInjector;
    this.$injector = targetInjector;
  }

  this.$injector = targetInjector;
  this.$injector = targetInjector;

  if (targetInjector) {
    this.$injector = targetInjecto
style license that can be\n* found in the LICENSE file at https://angular.io/license\n*\n\n```typescript
import { ElementRef, Injector, SimpleChanges } from '@angular/core';\nimport { DirectiveRequireProperty, IAugmented JQuery, ICloneAttachFunction, ICompileService, IController, IControllerService, IDirective, IHttpBackendService, IInjectorService, ILinkFn, IScope, ITemplateCacheService, SingleOrListOrMap, element as angularElement } from './angular1';\nimport { controllerKey, directiveNormalize, isFunction } from './util';

const\nREQUIRE_PREFIX_RE = /^\^\^\^\^?\(^\^\^\^\^?)?\(^\^\^\^\^?)?$/;

// Interfaces
export interface IBindingDestination {
  [key: string]: any;
  $onChanges?: (changes: SimpleChanges) => void;
}

export interface IControllerInstance extends IBindingDestination {
  $doCheck?: () => void;
  $onDestroy?: () => void;
  $onInit?: () => void;
  $postLink?: () => void;
}

// Classes
export class UpgradeHelper {
  public readonly $injector: IInjectorService;
  public readonly element: Element;
  public readonly $element: IAugmented JQuery;
  public readonly directive: IDirective;

  private readonly $compile: ICompileService;
  private readonly $controller: IControllerService;

  constructor(
    private injector: Injector, private name: string, elementRef: ElementRef,
    directive?: IDirective) {
    this.$injector = injector.get($INJECTOR);
    this.$compile = this.$injector.get($COMPILE);
    this.$controller = this.$injector.get($CONTROLLER);
    this.element = elementRef.nativeElement;
    this.$element = angularElement(this.element);
    this.directive = directive || UpgradeHelper.getDirective(this.$injector, name);
  }

    const directives: IDirective[] = $injector.get(name + 'Directive');
    if (directives.length > 1) {
      throw new Error(`Only support single directive definition for: ${name}`);
    }
    const directive = directives[0];
    if (directive.compile && !directive.link) notSupported(name, 'compile');
    if (directive.replace) notSupported(name, 'replace');
    if (directive.terminal) notSupported(name, 'terminal');
    return directive;
  }

  static getTemplate($injector: IInjectorService, directive: IDirective, fetchRemoteTemplate = false, $element?: IAugmented JQuery): string|Promise<string> {
    if (directive.template !== undefined) {
      return getOrCall<string>(directive.template, $element);
    } else if (directive.templateUrl) {
      const $templateCache = $injector.get($TEMPLATE_CACHE) as ITemplateCacheService;
      const url = getOrCall<string>(directive.templateUrl, $element);
      const template = $templateCache.get(url);
      if (template !== undefined) {
        return template;
      } else if (!fetchRemoteTemplate) {
        throw new Error('loading directive templates asynchronously is not supported');
      }
      return new Promise((resolve, reject) => {
        const $httpBackend = $injector.get($HTTP_BACKEND) as IHttpBackendService;
        $httpBackend('GET', url, null, (status: number, response: string) => {
          if (status === 200) {
            resolve($templateCache.put(url, response));
          } else {
            reject(`GET component template from '${url}' returned '${status}: ${response}'`);
          }
        });
      });
    } else {
      throw new Error(`Directive '${directive.name}' is not a component, it is missing template.`);
    }
  }

  buildController(controllerType: IController, $scope: IScope) {
    const locals = {'$scope': $scope, '$element': this.$element};
    const controller = this.$controller(controllerType, locals, null, this.directive.controllerAs);
    const compiler = controller.$compile(template: (directive: IDirective) => directive.name);\n    }\n    $scope.$destroy();
    }\n    // Clean the jQuery/jqLite data on the component+child elements.
    }\n  }

  onDestroy($scope: IScope, controllerInstance?: any) {
    if (controllerInstance && isFunction(controllerInstance.$onDestroy)) {
      controllerInstance.$onDestroy();
    }
    $scope.$destroy();
    }\n    // equivalent to Eventing that jQuery/jqLite invoke `cleanData` on an Element (this.element)
    }\n    }\n    }\n  }

```
angularElement.cleanData(this.element); // all elements

angularElement.cleanData(this.element.querySelectorAll('*'));

let Stemplate = contentChildNodes; // if transclude is undefined

let Stemplate = []; // if typeof transclude === 'object'

let selector = optional ? selector.substring(1) : selector;

slotMap[slotName] = null; // 'null': Defined but not yet filled,

let $template = contentChildNodes; // for Each(slotName => { let select = transclude[slotName]; if (transclude) { const $slots = Object.create(null); $slots[slotName] = null; // 'null': Defined but not yet filled,

Object.keys(transclude).forEach(slotName => {
  let selector = membership(nodeName.toLowerCase());
  if (selector) {
    filledSlots[slotName] = true;
    slots[slotName] = (scope: IScope, cloneAttach: ICloneAttachFunction) => {
      return cloneAttach($(Stemplate, scope));
    };
  } else {
    $template.push(node);
  }
});

Object.keys(slots).forEach(slotName => {
  let nodes = slots[slotName];
  slots[slotName] = (scope: IScope, cloneAttach: ICloneAttachFunction) => {
    return cloneAttach($(nodes, scope));
  };
});

attachChildrenFn.$$slots = slots;

$template.forEach(node => {
  if (node.nodeType === Node.TEXT_NODE && !node.nodeValue) {
    node.nodeValue = '\u200C';
  }
});

resolveAndBindRequiredControllers(controllerInstance: IControllerInstance|null) {

resolveAndBindRequiredControllers = this.resolveRequire(directiveRequire); // NOTE: Transclude text

resolveAndBindRequiredControllers(controllerInstance: IControllerInstance|null) { // will still fail to be detected by AngularJS v1.6+

$template.forEach(node => {
  if (node.nodeType == Node.TEXT_NODE & & node.nodeValue) {
    node.nodeValue = '\u200C';
  }
});

return attachChildrenFn;

Node.includes(); Node.includes = [ ];

let childNode = this.element.firstChild;

while (childNode = this.element.removeChild(childNode)) {
  childNodes.push(childNode);
}

private extractChildNodes(): Node[] {

private extractChildNodes(): Node[] {

let childNodes = this.element.firstChild;

while (childNode = this.element.removeChild(childNode)) {
  childNodes.push(childNode);
}

private getDirectiveRequire():

private getDirectiveRequire():

const requiredControllers = this.resolveRequire(directiveRequire); // NOTE: Transclude text

const requiredControllers = this.resolveRequire(directiveRequire);

const requiredControllers = this.resolveRequire(directiveRequire);

const requiredControllers = this.resolveRequire(directiveRequire);

const requiredControllers = this.resolveRequire(directiveRequire);

const requiredControllers = this.resolveRequire(directiveRequire);

const requiredControllers = isMap(directiveRequire) & & isMap(directiveRequire) & & isMap(directiveRequire) & & isMap(directiveRequire) & & isMap(directiveRequire);

const requiredControllers = requiredControllers;
any):\n
  SingleOrListOrMap<IControllerInstance>|null |\n    if (!require) { return null; } \n  } else if (Array.isArray(require)) {\n    return require.map(req => this.resolveRequire(req));\n  } else if (typeof require === 'object') {\n    const value = require;\n    if (Array.isArray(value)) {\n      return value.map(req => this.resolveRequire(req));\n    } else if (typeof require === 'string') {\n      const ctrlKey = controllerKey(require);\n      const elem = startOnParent ? this.$element.parent() : this.$element;\n      const value = searchParents ?\n        elem.inheritedData![ctrlKey] : elem.data![ctrlKey];\n      if (!value && !isOptional) {\n        throw new Error(`Unable to find required '${require}' in upgraded directive '${this.name}'.`);\n      }\n      return value;\n    } \n  } else {\n    throw new Error(`Unrecognized 'require' syntax on upgraded directive '${this.name}': \n      ${require}`);\n  }\n}\n
// NOTE: Only works for type of T === 'object'.\nfunction getOrCall<T>(property: T | Function, ...args: any[]): T {\n  return isFunction(property) ? property(...args) : property;\n}\n
// NOTE: Only works for typeof T !== 'object'.\nfunction isMap<T>(value: SingleOrListOrMap<T>): value is {[key: string]: T} {\n  return value && !Array.isArray(value) && typeof value === 'object';\n}\n
functions notSupported(name: string, feature: string) {\n  throw new Error(`Upgraded directive '${name}' contains unsupported feature: '${feature}'.`);\n}\n
// @license
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//
// Use of this source code is governed by an MIT-style license that
// can be found in the LICENSE file at https://angular.io/license
//
import {DoCheck, ElementRef, EventEmitter, Injector, OnChanges, OnDestroy, OnInit, SimpleChanges, ɵlooseIdentical as looseIdentical} from '@angular/core';
import {IAugmentedJQuery, IDirective, IDirectivePrePost, IInjectorService, ILinkFn, IScope, ITranscludeFunction} from '../../src/common/src/angular1';
import {$SCOPE} from '../../src/common/src/constants';
import {IBindingDestination, IControllerInstance, UpgradeHelper} from '../../src/common/src/upgrade_helper';
import {IBindingDestination, IControllerInstance, UpgradeHelper} from '..:\/.\/.src/common/src/upgrade_helper';

// todo(issue/24571): remove '!'.
private controllerInstance!: IControllerInstance;
// todo(issue/24571): remove '!'.
private bindingDestination!: IBindingDestination;

// We will be instantiating the controller in the 'ngOnInit' hook, when the
// first 'ngOnChanges' will have been already triggered. We store the
// 'SimpleChanges' and 'play them back' later.
// todo(issue/24571): remove '!'.
private pendingChanges!:
SimpleChanges | null;\n
// todo(issue/24571): remove '!'.
private unregisterDoCheckWatcher!: Function;\n
// todo(issue/24571): remove '!'.
private unregisterChangeDetector!: Function;\n
// todo(issue/24571): remove '!'.
private unregisterElementFactory!: Function;\n
// todo(issue/24571): remove '!'.
private unregisterElementFactory!: Function;
/**
 * Create a new `UpgradeComponent` instance. You should not normally need to do this.
 * Instead you should derive a new class from this one and call the super constructor
 * from the base class.
 *
 * The `name` parameter should be the name of the AngularJS directive.
 * The `elementRef` and `injector` parameters should be acquired from Angular by dependency injection into the base class constructor.
 * constructor(private name: string, private elementRef: ElementRef, private injector: Injector) {
 *  this.helper = new UpgradeHelper(injector, name, elementRef);
 *  this.$injector = this.helper.$injector;
 *  this.element = this.helper.element;
 *  this.element = this.helper.element;
 *  this.$element = this.helper.$element;
 *  this.directive = this.helper.directive;
 *  this.bindings = this.initializeBindings(this.directive);
 *  // We ask for the AngularJS scope from the Angular injector, since
 *  // we will put the new component scope onto the new injector for each component
 *  const $scope = injector.get($SCOPE);
 *  // QUESTION 1: Should we create an isolated scope if the scope is only true?
 *  // QUESTION 2: Should we make the scope accessible through `UpgradeComponent().IsolateScope()`?
 *  this.$componentScope = $scope.$new(!this.directive.scope);
 *
 *  ngOnInit() {
 *    // Collect contents, insert and compile template
 *    const attachChildNodes: ILinkFn|undefined = this.helper.prepareTransclusion();
 *    const linkFn = this.helper.compileTemplate();
 *    // Instantiate controller
 *    this.$$controllerType = this.directive.$$controllerType;
 *    this.$$controllerType = this.directive.$$controllerType;
 *    if (this.$$controllerType) {
 *      this.$$controllerInstance = this.helper.buildController(this.$$controllerInstance);
 *    } else if (bindToController) {
 *      throw new Error(`Upgraded directive '${this.directive.name}' specifies 'bindToController' but no controller.`);
 *    }
 *    // Linking
 *    const link = this.directive.$$link;
 *    const preLink = typeof link == 'object' && link.$$pre;
 *    const postLink = typeof link == 'object' ? link.$$post : link;
 *    const attrs: IAttributes = NOT_SUPPORTED;
 *    const transcludeFn: ITranscludeFunction = NOT_SUPPORTED;
 *    if (preLink) {
 *      preLink(this.$$componentScope, this.$$element, attrs, this.$$componentScope, this.$$componentScope);
 *    }
 *    linkFn(this.$$componentScope, null !, {parentBoundTranscludeFn: attachChildNodes});
 *    if (postLink) {
 *      postLink(this.$$componentScope, this.$$element, attrs, this.$$componentScope, this.$$componentScope);
 *    }
 *    // Hook: $postLink
 *    if (this.$$controllerInstance && isFunction(this.$$controllerInstance.$$postLink)) {
 *      this.$$controllerInstance.$$postLink();
 *    }
 *  }
 *  ngOnChanges(changes: SimpleChanges) {
 *    if (!this.$$bindingDestination) {
 *      this.pendingChanges = changes;
 *    } else {
 *      this.forwardChanges(changes);
 *    }
 *  }
 *  ngDoCheck() {
 *    const twoWayBoundProperties = this.bindings.$$twoWayBoundProperties;
 *    const twoWayBoundLastValues = this.bindings.$$twoWayBoundLastValues;
 *    const propertyToOutputMap = this.bindings.$$propertyToOutputMap;
 *    const twoWayBoundProperties = this.bindings.$$twoWayBoundProperties;
 *    const newValue = this.$$bindingDestination.$$propertyName;
 *    const oldValue = twoWayBoundLastValues[idx];
 *    if (!looseIdentical(newValue, oldValue)) {
 *      const outputName = propertyToOutputMap.$$propertyName;
 *      const eventName = emit(newValue);
 *      twoWayBoundLastValues[idx] = newValue;
 *      this.$$componentScope.$$ngOnChanges([changes, SimpleChanges] if (!this.$$bindingDestination) {
 *        this.$$forwardChanges(changes);
 *      } else {
 *        this.$$forwardChanges(changes);
 *      }
 *      this.$$componentScope.$$ngDoCheck() {
 *        const twoWayBoundProperties = this.$$twoWayBoundProperties;
 *        const propertyToOutputMap = this.$$bindings.$$propertyToOutputMap;
 *        twoWayBoundProperties.$$forEach([propName, idx] => {
 *          const newValue = this.$$bindingDestination.$$propertyName;
 *          const oldValue = twoWayBoundLastValues[idx];
 *          if (!looseIdentical(newValue, oldValue)) {
 *            const outputName = propertyToOutputMap.$$propertyName;
 *            const eventName = emit(newValue);
 *            twoWayBoundLastValues[idx] = newValue;
 *          }
 *          this.$$componentScope.$$ngOnDestroy() {
 *            if (isFunction(this.$$registerDoCheckWatcher)) {
 *              this.$$registerDoCheckWatcher();
 *            }
 *          }
 *          this.$$helper.$$onDestroy(this.$$ComponentScope, this.$$controllerInstance);
 *          this.$$private.initializeBindings(directive: IDirective) {
 *            const $$IsObject = typeof directive.$$bindToController === `object`;
 *            if ($$IsObject &&
 *              Object.keys(directive.$$scope $).length) {
 *              throw new Error(`Binding definitions on scope and controller at the same time is not supported.`);
 *            }
 *          } this.$$context = $$IsObject ? directive.$$bindToController : null;
 *        }
 *      }
 *    }
 *  }
 *  ngOnDestroy() {
 *    if (isFunction(this.unregisterDoCheckWatcher)) {
 *      this.unregisterDoCheckWatcher();
 *    }
 *    this.helper.$$onDestroy(this.$$ComponentScope, this.$$controllerInstance);
 *    this.$$private.initializeBindings(directive: IDirective) {
 *      const $$IsObject = typeof directive.$$bindToController === `object`;
 *      if ($$IsObject &&
 *        Object.keys(directive.$$scope $).length) {
 *        throw new Error(`Binding definitions on scope and controller at the same time is not supported.`);
 *      }
 *      this.$$context = $$IsObject ? directive.$$bindToController : null;
 *    }
 *  }
 *})
 */

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```typescript
const directive.scope;
const bindings = new Bindings();
if (typeof context == 'object') {
    const bindings = new Bindings();

    if (typeof context == 'object') {
        Object.keys(context).forEach(propName => {
            const definition = context[propName];
            const bindingType = definition.charAt(0);


            switch (bindingType) {
                case '@':
                case '<':
                    // We don't need to do anything special. They will
                    // be upgraded component facade and the change propagation will be handled by
                    // `ngOnChanges()`.
                    break;
                case '=':
                    bindings.twoWayBoundProperties.push(propName);
                    bindings.twoWayBoundLastValues.push(INITIAL_VALUE);
                    bindings.propertyToOutputMap[propName] = propName + 'Change';
                    break;
                case '&':
                    bindings.expressionBoundProperties.push(propName);
                    bindings.propertyToOutputMap[propName] = propName;
                    break;
                default:
                    let json = JSON.stringify(context);
                    throw new Error(
                        `Unexpected mapping '${bindingType}' in '${json}' in '${this.name}' directive.`);
            }
        });
    }

    return bindings;
}

private initializeOutputs() {
    // Initialize the outputs for `=` and `&` bindings
    this.bindings.twoWayBoundProperties.concat(this.bindings.expressionBoundProperties)
        .forEach(propName => {
            const outputName = this.bindings.propertyToOutputMap[propName];
            (this as any)[outputName] = new EventEmitter();
        });

    this.bindings.expressionBoundProperties.forEach(propName => {
        const outputName = this.bindings.propertyToOutputMap[propName];
        const emitter = (this as any)[outputName];

        this.bindingDestination[propName] = (value: any) => emitter.emit(value);
    });
}

private forwardChanges(changes: SimpleChanges) {
    // Forward input changes to `bindingDestination`
    Object.keys(changes).forEach(propName => this.bindingDestination[propName] = changes[propName].currentValue);
    if (isFunction(this.bindingDestination.$onChanges)) {
        this.bindingDestination.$onChanges(changes);
    }
}
```

```
import {Injector, NgModule, NgZone, Testability, isDevMode} from '@angular/core';

import {IInjectorService, IIntervalService, IProvideService, ITestabilityService, bootstrap, element as angularElement, module_ as angularModule} from '../../src/common/src/angular1';
import {$$TESTABILITY, $DELEGATE, $INJECTOR, $INTERVAL, $PROVIDE, INJECTOR_KEY, LAZY_MODULE_REF, UPGRADE_APP_TYPE_KEY, UPGRADE_MODULE_NAME} from '../../src/common/src/constants';

import {lazyModuleRef} from './angular1_providers';
import {NgAdapterInjector} from './util';
import {UpgradeAppService, UpgradeModule} from '@angular/upgrade/static';

/**
 * @description
 *
 * An `NgModule`, which you import to provide
 * AngularJS core services,
 * and has an instance method used to bootstrap the hybrid application.
 *
 * Part of the 
 * library that can be used in a hybrid application which supports AOT
 * compilation.
 *
 * ```ts
 * import {UpgradeModule} from '@angular/upgrade/static';
 * ```
 *
 * See also the 
 * examples below.
 *
 * ### Mental Model
 *
 * When reasoning about how a
 * hybrid application works it is useful to have a mental model which
 * describes what is happening and explains
```
what is happening at the lowest level. 

There are two independent frameworks running in a single application, each framework treats the other as a black box. Each DOM element on the page is owned exactly by one framework. Whichever framework instantiated the element is the owner. Each framework only updates/interacts with its own DOM elements and ignores others. AngularJS directives always execute inside the AngularJS framework codebase regardless of where they are instantiated. Angular components always execute inside the Angular framework codebase regardless of where they are instantiated.

An AngularJS component can be "upgraded" to an Angular component. This is achieved by defining an Angular directive, which bootstraps the AngularJS component at its location in the DOM. See `UpgradeComponent`.

An Angular component can be "downgraded" to an AngularJS component. This is achieved by defining an AngularJS directive, which bootstraps the Angular component at its location in the DOM. See `downgradeComponent`.

Whenever an "upgraded"/"downgraded" component is instantiated the host element is owned by the framework doing the instantiation. The other framework then instantiates and owns the view for that component.

1. This implies that the component bindings will always follow the semantics of the instantiation framework.

2. The DOM attributes are parsed by the framework that owns the current template. So attributes in AngularJS templates must use kebab-case, while AngularJS templates use camelCase.

3. However the template binding syntax will always use the Angular style, e.g. square brackets for property binding. Angular is bootstrapped first; AngularJS is bootstrapped second. AngularJS always owns the root component of the application. The new application is running in an Angular zone, and therefore it no longer needs calls to `$apply()`.

4. Angular is bootstrapped first; AngularJS is bootstrapped second. AngularJS always owns the root component of the application.

### The `UpgradeModule` class

This class is an `NgModule`, which you import to provide AngularJS core services, and has an instance method used to bootstrap the hybrid upgrade application.

- Core AngularJS services
  - Importing this `NgModule` will add providers for the core AngularJS services to the root injector.

- Bootstrap
  - The runtime instance of this class contains a method, which you use to bootstrap the top level AngularJS module onto an element in the DOM for the hybrid upgrade application. It also contains properties to access the `UpgradeModule` and the `AngularJS $injector`.

A upgrading an AngularJS service

---

```typescript
import { NgModule } from '@angular/core';
import { BrowserModule } from '@angular/platform-browser';
import { FormsModule } from '@angular/forms';
import { HttpClient } from '@angular/common/http';

import { UpgradeModule } from './upgrade.module';

@NgModule({
  declarations: [
    AppComponent,
    LoginComponent,
    RegisterComponent
  ],
  imports: [
    BrowserModule,
    FormsModule,
    UpgradeModule
  ],
  providers: [
    { provide: HTTP_INTERCEPTORS, useClass: TokenInterceptor, multi: true }
  ],
  bootstrap: [AppComponent]
}) export class AppModule {

  constructor(private http: HttpClient) {
    console.log('AppModule constructor');
  }
}
```
config?: any /*angular.IAngularBootstrapConfig*/ { // Create an ng1 module to bootstrap
    const INIT_MODULE_NAME = angularModule(UPGRADE_MODULE_NAME, [])
    .constant(UPGRADE_APP_TYPE_KEY, UpgradeAppType.Static)
    .value(INJECTOR_KEY, this.injector)
    .factory(LAZY_MODULE_REF, [INJECTOR_KEY, (injector: Injector) => {
      return injector
    }])

    const injector = this.injector; // Cannot use arrow function below because we need the context
    const newWhenStable = function(callback: Function) {
      originalWhenStable.call(testabilityDelegate, function() {
        if (ng2Testability.isStable()) {
          callback();
        } else {
          ng2Testability.whenStable().then(() => {
            testabilityDelegate.whenStable = newWhenStable;
          });
        }
      });
    }
    return testabilityDelegate;
  }

  Sprovide.decorator(SINTERVAL, [SDELEGATE, (intervalDelegate: IIntervalService) => {
    let wrappedInterval = (fn: Function, delay: number, count?: number, invokeApply?: boolean, ...pass: any[]) => {
      return this.ngZone.runOutsideAngular(() => {
        const $rootScope = this.$injector.get('$rootScope');
        $rootScope.runOutsideAngular(() => fn(...args));
      });
    };
    return this.ngZone.cancel = intervalDelegate.cancel;
  }]

  $injector.get('$injector');

  // Put the injector on the DOM, so that it can be "required" by angularElement(element).data
  const controllerKey(INJECTOR_KEY, this.injector); // Wire up the ng1 rootScope to run a digest cycle whenever the zone settles
    // We need to do this in the next tick so that we don't prevent the bootstrap
    // stabilizing
    setTimeout(() => {
      const $rootScope = this.$injector.get('$rootScope');
      if ($rootScope.$$phase) {
        if (isDevMode()) {
          console.warn('A digest was triggered while one was already in progress. This may mean that something is triggering digests outside the Angular zone.');
        }
        return $rootScope.$evalAsync();
      }
      return $rootScope.$digest();
    });
    $rootScope.$on('$destroy', () => { subscription.unsubscribe(); });

  Sprovide.decorator(SPROVIDE, [SDELEGATE, ($provide: IProvideService, $injector: IInjectorService) => {
    if ($injector.has($$TESTABILITY)) {
      $provide.decorator($$TESTABILITY, [SDELEGATE, (testabilityDelegate: ITestabilityService) => {
        const originalWhenStable = testabilityDelegate.whenStable;
        const injector = this.injector;
        // Cannot use arrow function below because we need the context
        const newWhenStable = function(callback: Function) {
          originalWhenStable.call(testabilityDelegate, function() {
            if (ng2Testability.isStable()) {
              callback();
            } else {
              ng2Testability.whenStable().then(() => {
                testabilityDelegate.whenStable = newWhenStable;
              });
            }
          });
        }
        return testabilityDelegate;
      }]

    $provide.decorator(SINTERVAL, [SDELEGATE, (intervalDelegate: IIntervalService) => {
      let wrappedInterval = (fn: Function, delay: number, count?: number, invokeApply?: boolean, ...pass: any[]) => {
        return this.ngZone.runOutsideAngular(() => {
          const $rootScope = this.$injector.get('$rootScope');
          $rootScope.runOutsideAngular(() => fn(...args));
        });
      };
      return this.ngZone.cancel = intervalDelegate.cancel;
    }]

    windowAngular.resumeBootstrap = undefined;
    windowAngular.resumeBootstrap = angularModule(UPGRADE_MODULE_NAME,
      [INIT_MODULE_NAME].concat(modules));

    const upgradeModule = angularModule(UPGRADE_MODULE_NAME, [INIT_MODULE_NAME].concat(modules));
    // Make sure resumeBootstrap() only exists if the current bootstrap is deferred
    const windowAngular = (window as any)['angular'];
    windowAngular.resumeBootstrap = undefined;
    // Bootstrap the AngularJS application inside our zone
    this.ngZone.run(() => {
      // Patch resumeBootstrap() to run inside the ngZone
      const originalResumeBootstrap: () => void = windowAngular.resumeBootstrap;
      const ngZone = this.ngZone;
      windowAngular.resumeBootstrap = function() {
        const args = arguments;
      }
    });

    const originalResumeBootstrap: () => void = windowAngular.resumeBootstrap;
    const ngZone = this.ngZone;
    windowAngular.resumeBootstrap = originalResumeBootstrap;
return ngZone.run(() => windowAngular.resumeBootstrap.apply(this, args));
    }
  }
}

/**
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 * found in the LICENSE file at https://angular.io/license
 */

export {getAngularJSGlobal, getAngularLib, setAngularJSGlobal, setAngularLib} from
  '../src/common/src/angular1';
export {downgradeComponent} from
  '../src/common/src/downgrade_component';
export {downgradeInjectable} from
  '../src/common/src/downgrade_injectable';
export {VERSION} from '../src/common/src/version';
export {downgradeModule} from './src/downgrade_module';
export {UpgradeComponent} from
  './src/upgrade_component';
export {UpgradeModule} from './src/upgrade_module';

// This file only re-exports
items to appear in the public api. Keep it that way.
/**
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 * found in the LICENSE file at https://angular.io/license
 */

export * from './public_api';

/**
 * Generated bundle index. Do not edit.
 */

export * from './index';

export {angular1Providers as
 ɵangular_packages_upgrade_static_static_e, compileFactory as
 ɵangular_packages_upgrade_static_static_c, injectorFactory as
 ɵangular_packages_upgrade_static_static_a, parseFactory as
 ɵangular_packages_upgrade_static_static_d, rootScopeFactory as
 ɵangular_packages_upgrade_static_static_a, providers as
 ɵangular_packages_upgrade_static_static_b} from
  '../angular1_providers';


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 * @license Angular v9.0.7
 * (c) 2010-2020 Google LLC. https://angular.io/
 * License: MIT
 */

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 * found in the LICENSE file at https://angular.io/license
 */

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1047774535_1591199783.98/0/angular-upgrade-9-0-7-src-zip/bundles/upgrade-static-testing.umd.js
* /opt/ws_local/PERMITS_SQL/1047774535_1591199783.98/0/angular-upgrade-9-0-7-src-zip/bundles/upgrade-static-testing.umd.min.js

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* @license
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* found in the LICENSE file at https://angular.io/license
* @module
* @description
* Entry point for all public APIs of the common package.
*/

import {Version} from...
Ng1Token, provider: IProvider;
  factory(token: Ng1Token, factory: Injectable): IProvider;
  service(token: Ng1Token, type: Injectable): IProvider;
  value(token: Ng1Token, value: any): IProvider;
constant(token: Ng1Token, value: any): void;
  decorator(token: Ng1Token, factory: Injectable): void;

export interface IParseService {
  (expression: string): ICompiledExpression;
  (expression: string): ICompiledExpression;
}

export interface ICompiledExpression {
  (context: any, locals: any): any;
  assign?: (context: any, value: any) => any;
}

export interface IHttpBackendService {
  (method: string, url: string, post?: any, callback?: Function, headers?: any, timeout?:
number, withCredentials?: boolean): void;
  (url: string, callback?: Function, headers?: any, timeout?:
number, withCredentials?: boolean): void;
  get(url: string, callback?: Function, headers?: any, timeout?:
number, withCredentials?: boolean): void;
  delete(url: string, callback?: Function, headers?: any, timeout?:
number, withCredentials?: boolean): void;
}

export interface ICacheObject {
  put<T>(key: string, value?: T): T;
  get(key: string): any;
}

export interface ITemplateCacheService extends ICacheObject {}

export interface ITemplateRequestService {
  (template: string | TrustedResourceUrl): Promise<string>;
  (template: string | TrustedResourceUrl): Promise<string>;
}

export interface IController = string | Injectable;

export interface IControllerService {
  (controllerConstructor: IController, locals?: any, later?: any, ident?: any): any;
  (controllerName: string, locals?: any): any;
}

export interface IInjectorService {
  get(key: string): any;
  has(key: string): boolean;
}

export interface IIntervalService {
  (func: Function, delay: number, count?:
number, invokeApply?: boolean, ...args: any[]): Promise<void>;
  cancel(func: Function): void;
}

export interface ITestabilityService {
  findBindings(element: Element, Element, expression: string, opt_exactMatch?: boolean):
Element[];
  findModels(element: Element, expression: string, opt_exactMatch?: boolean):
Element[];
  getLocation(): string;
  setLocation(url: string): void;
  whenStable(callback: Function): void;
  get interface INgModelController {
    $render(): void;
    $isEmpty(value: any): boolean;
    $setValidity(validationErrorKey: string, isValid: boolean): void;
    $setPristine(): void;
    $setDirty(): void;
    $setUntouched(): void;
    $setTouched(): void;
    $rollbackViewValue(): void;
    $validate(): void;
    $commitViewValue(): void;
    $setViewValue(value: any, trigger: string): void;
    $modelValue: any;
    $parsers: Function[];
    $formatters: Function[];
    $validators: {
      [key: string]: Function;
    };
    $asyncValidators: {
      [key: string]: Function;
    };
    $viewChangeListeners: Function[];
    $error: Object;
    $pending: Object;
    $untouched: boolean;
    $touched: boolean;
    $pristine: boolean;
    $dirty: boolean;
    $valid: boolean;
    $invalid: boolean;
    $name: string;
  }

function noNg(): never {
  throw new Error('AngularJS v1.x is not loaded!');
}

const noNgElement: typeof angular.element = (() => noNg()) as any;
noNgElement.cleanData = noNg;

let angular: {
  bootstrap: (e: Element, modules: (string | Injectable)[][], config?:
IAngularBootstrapConfig) =>
  IInjectorService,
  module: (prefix: string, dependencies?: string[][]) =>
  IModule,
  element: {
    (e: string | Element | Document | IAugmentedJQuery): IAugmentedJQuery;
    cleanData: (nodes: Node[] | NodeList) => void;
  },
  injector: (modules: Array<string | Injectable>, strictDi?: boolean): IInjectorService,
  version: {major: number},
  resumeBootstrap: () => void,
  getTestability: (e: Element) => ITestabilityService,
} = {
  bootstrap: noNg,
  module: noNg,
  element: noNgElement,
  injector: noNg,
  version: undefined as any,
  resumeBootstrap: noNg,
  getTestability: noNg
};

/**
 * @deprecated Use `setAngularJSGlobal` instead.
 *
 * @publicApi
 */
export function setAngularLib(ng: any): void {
  setAngularJSGlobal(ng);
}

/**
 * @deprecated Use `getAngularJSGlobal` instead.
 *
 * @publicApi
 */
export function getAngularLib(): any {
  return getAngularJSGlobal();
}

/**
 * Resets the AngularJS global.
 *
 * Used when AngularJS is loaded lazily,
 * and not available on `window`.
 *
 * @publicApi
 */
export function setAngularJSGlobal(ng: any): void {
  angular = ng;
}

/**
 * Returns the current AngularJS global.
 *
 * @publicApi
 */
export function getAngularJSGlobal(): any {
  return angular;
}

// Do not declare as `module` to avoid webpack bug
//(see https://github.com/angular/angular/issues/30050).
export const module_: typeof angular.module = (prefix, dependencies?) =>
  angular.module(prefix, dependencies);

export const element: typeof angular.element = (e => angular.element(e)) as typeof angular.element;
element.cleanData = nodes =>
  angular.element.cleanData(nodes);

export const bootstrap: typeof angular.bootstrap = (e, modules, config?) =>
    angular.bootstrap(e, modules, config);

export const module_: typeof angular.module = (prefix, dependencies?) =>
    angular.module(prefix, dependencies);

export const element: typeof angular.element = (e => angular.element(e)) as typeof angular.element;
element.cleanData = nodes =>
  angular.element.cleanData(nodes);

export const bootstrap: typeof angular.bootstrap = (e, modules, config?) =>
    angular.bootstrap(e, modules, config);

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  angular.element.cleanData(nodes);

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    angular.module(prefix, dependencies);

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  angular.element.cleanData(nodes);

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    angular.bootstrap(e, modules, config);

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    angular.module(prefix, dependencies);

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  angular.element.cleanData(nodes);

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    angular.module(prefix, dependencies);

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  angular.element.cleanData(nodes);

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  angular.element.cleanData(nodes);

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    angular.module(prefix, dependencies);

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  angular.element.cleanData(nodes);

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    angular.bootstrap(e, modules, config);

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    angular.module(prefix, dependencies);

export const element: typeof angular.element = (e => angular.element(e)) as typeof angular.element;
element.cleanData = nodes =>
  angular.element.cleanData(nodes);

export const bootstrap: typeof angular.bootstrap = (e, modules, config?) =>
    angular.bootstrap(e, modules, config);

export const module_: typeof angular.module = (prefix, dependencies?) =>
    angular.module(prefix, dependencies);

export const element: typeof angular.element = (e => angular.element(e)) as typeof angular.element;
element.cleanData = nodes =>
  angular.element.cleanData(nodes);
getTestability: typeof angular.getTestability = e => angular.getTestability(e);\n","/**\n * @license\n * Copyright
Google Inc. All Rights Reserved.\n *\n * Use of this source code is governed by an MIT-style license that can be\n *
found in the LICENSE file at https://angular.io/license\n */\n\nexport const $COMPILE = '$compile';\nexport const
$CONTROLLER = '$controller';\nexport const $DELEGATE = '$delegate';\nexport const
$EXCEPTION_HANDLER = '$exceptionHandler';\nexport const $HTTP_BACKEND = '$httpBackend';\nexport
const $INJECTOR = '$injector';\nexport const $INTERVAL = '$interval';\nexport const $PARSE = '$parse';\nexport
const $PROVIDE = '$provide';\nexport const $ROOT_SCOPE = '$rootScope';\nexport const $SCOPE =
'$scope';\nexport const $TEMPLATE_CACHE = '$templateCache';\nexport const $TEMPLATE_REQUEST =
'$templateRequest';\n\nexport const $$TESTABILITY = '$$testability';\n\nexport const COMPILER_KEY =
'$$angularCompiler';\nexport const DOWNGRADED_MODULE_COUNT_KEY =
'$$angularDowngradedModuleCount';\nexport const GROUP_PROJECTABLE_NODES_KEY =
'$$angularGroupProjectableNodes';\nexport const INJECTOR_KEY = '$$angularInjector';\nexport const
LAZY_MODULE_REF = '$$angularLazyModuleRef';\nexport const NG_ZONE_KEY =
'$$angularNgZone';\nexport const UPGRADE_APP_TYPE_KEY = '$$angularUpgradeAppType';\n\nexport const
REQUIRE_INJECTOR = '?^^' + INJECTOR_KEY;\nexport const REQUIRE_NG_MODEL =
'?ngModel';\n\nexport const UPGRADE_MODULE_NAME = '$$UpgradeModule';\n","/**\n * @license\n *
Copyright Google Inc. All Rights Reserved.\n *\n * Use of this source code is governed by an MIT-style license that
can be\n * found in the LICENSE file at https://angular.io/license\n */\n\n/**\n * A `PropertyBinding` represents a
mapping between a property name\n * and an attribute name. It is parsed from a string of the form\n * `\"prop:
attr\"`; or simply `\"propAndAttr\" where the property\n * and attribute have the same identifier.\n */\nexport class
PropertyBinding {\n // TODO(issue/24571): remove '!'.\n bracketAttr !: string;\n // TODO(issue/24571): remove
'!'.\n bracketParenAttr !: string;\n // TODO(issue/24571): remove '!'.\n parenAttr !: string;\n //
TODO(issue/24571): remove '!'.\n onAttr !: string;\n // TODO(issue/24571): remove '!'.\n bindAttr !: string;\n //
TODO(issue/24571): remove '!'.\n bindonAttr !: string;\n\n constructor(public prop: string, public attr: string) {
this.parseBinding(); }\n\n private parseBinding() {\n this.bracketAttr = `[${this.attr}]`;\n this.parenAttr =
`(${this.attr})`;\n this.bracketParenAttr = `[(${this.attr})]`;\n const capitalAttr =
this.attr.charAt(0).toUpperCase() + this.attr.substr(1);\n this.onAttr = `on${capitalAttr}`;\n this.bindAttr =
`bind${capitalAttr}`;\n this.bindonAttr = `bindon${capitalAttr}`;\n }\n}\n","/**\n * @license\n * Copyright
Google Inc. All Rights Reserved.\n *\n * Use of this source code is governed by an MIT-style license that can be\n *
found in the LICENSE file at https://angular.io/license\n */\n\nimport {Injector, Type} from
'@angular/core';\n\nimport {IInjectorService, INgModelController} from './angular1';\nimport
{DOWNGRADED_MODULE_COUNT_KEY, UPGRADE_APP_TYPE_KEY} from './constants';\n\nconst
DIRECTIVE_PREFIX_REGEXP = /^(?:x|data)[:\\-_]/i;\nconst DIRECTIVE_SPECIAL_CHARS_REGEXP = /[:\\_]+(.)/g;\n\nexport function onError(e: any) {\n // TODO: (misko): We seem to not have a stack trace here!\n if
(console.error) {\n console.error(e, e.stack);\n } else {\n // tslint:disable-next-line:no-console\n console.log(e,
e.stack);\n }\n throw e;\n}\n\nexport function controllerKey(name: string): string {\n return '$' + name +
'Controller';\n}\n\nexport function directiveNormalize(name: string): string {\n return
name.replace(DIRECTIVE_PREFIX_REGEXP, '')\n
.replace(DIRECTIVE_SPECIAL_CHARS_REGEXP, (_,
letter) => letter.toUpperCase());\n}\n\nexport function getTypeName(type: Type<any>): string {\n // Return the
name of the type or the first line of its stringified version.\n return (type as any).overriddenName || type.name ||
type.toString().split('\\n')[0];\n}\n\nexport function getDowngradedModuleCount($injector: IInjectorService):
number {\n return $injector.has(DOWNGRADED_MODULE_COUNT_KEY) ?
$injector.get(DOWNGRADED_MODULE_COUNT_KEY) :\n
0;\n}\n\nexport
function getUpgradeAppType($injector: IInjectorService): UpgradeAppType {\n return
$injector.has(UPGRADE_APP_TYPE_KEY) ? $injector.get(UPGRADE_APP_TYPE_KEY) :\n
UpgradeAppType.None;\n}\n\nexport function isFunction(value: any): value is Function {\n return typeof
value === 'function';\n}\n\nexport function validateInjectionKey(\n $injector: IInjectorService,
downgradedModule: string, injectionKey: string,\n attemptedAction: string): void {\n const upgradeAppType =

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getUpgradeAppType($injector);\n const downgradedModuleCount = getDowngradedModuleCount($injector);\n\n
// Check for common errors.\n switch (upgradeAppType) {\n case UpgradeAppType.Dynamic:\n case
UpgradeAppType.Static:\n
if (downgradedModule) {\n
throw new Error(\n
`Error while
${attemptedAction}: 'downgradedModule' unexpectedly specified.\\n` +\n
'You should not specify a value for
\\'downgradedModule\\', unless you are downgrading ' +\n
'more than one Angular module (via
\\'downgradeModule()\\').');\n
}\n
break;\n case UpgradeAppType.Lite:\n
if (!downgradedModule &&
(downgradedModuleCount >= 2)) {\n
throw new Error(\n
`Error while ${attemptedAction}:
'downgradedModule' not specified.\\n` +\n
'This application contains more than one downgraded Angular
module, thus you need to ' +\n
'always specify \\'downgradedModule\\' when downgrading components and
injectables.');\n
}\n\n
if (!$injector.has(injectionKey)) {\n
throw new Error(\n
`Error while
${attemptedAction}: Unable to find the specified downgraded module.\\n` +\n
'Did you forget to downgrade
an Angular module or include it in the AngularJS ' +\n
'application?');\n
}\n\n
break;\n default:\n
throw new Error(\n
`Error while ${attemptedAction}: Not a valid '@angular/upgrade' application.\\n` +\n
'Did you forget to downgrade an Angular module or include it in the AngularJS ' +\n
'application?');\n
}\n}\n\nexport class Deferred<R> {\n promise: Promise<R>;\n // TODO(issue/24571): remove '!'.\n resolve !:
(value?: R | PromiseLike<R>) => void;\n // TODO(issue/24571): remove '!'.\n reject !: (error?: any) => void;\n\n
constructor() {\n this.promise = new Promise((res, rej) => {\n
this.resolve = res;\n
this.reject = rej;\n });\n
}\n}\n\nexport interface LazyModuleRef {\n injector?: Injector;\n promise?: Promise<Injector>;\n}\n\nexport
const enum UpgradeAppType {\n // App NOT using `@angular/upgrade`. (This should never happen in an
`ngUpgrade` app.)\n None,\n\n // App using the deprecated `@angular/upgrade` APIs (a.k.a. dynamic
`ngUpgrade`).\n Dynamic,\n\n // App using `@angular/upgrade/static` with `UpgradeModule`.\n Static,\n\n // App
using @angular/upgrade/static` with `downgradeModule()` (a.k.a `ngUpgrade`-lite ).\n Lite,\n}\n\n/**\n * @return
Whether the passed-in component implements the subset of the\n * `ControlValueAccessor` interface needed for
AngularJS `ng-model`\n * compatibility.\n */\nfunction supportsNgModel(component: any) {\n return typeof
component.writeValue === 'function' &&\n
typeof component.registerOnChange === 'function';\n}\n\n/**\n *
Glue the AngularJS `NgModelController` (if it exists) to the component\n * (if it implements the needed subset of
the `ControlValueAccessor` interface).\n */\nexport function hookupNgModel(ngModel: INgModelController,
component: any) {\n if (ngModel && supportsNgModel(component)) {\n ngModel.$render = () => {
component.writeValue(ngModel.$viewValue); };\n
component.registerOnChange(ngModel.$setViewValue.bind(ngModel));\n if (typeof
component.registerOnTouched === 'function') {\n
component.registerOnTouched(ngModel.$setTouched.bind(ngModel));\n }\n }\n}\n\n/**\n * Test two values for
strict equality, accounting for the fact that `NaN !== NaN`.\n */\nexport function strictEquals(val1: any, val2: any):
boolean {\n return val1 === val2 || (val1 !== val1 && val2 !== val2);\n}\n","/**\n * @license\n * Copyright
Google Inc. All Rights Reserved.\n *\n * Use of this source code is governed by an MIT-style license that can be\n *
found in the LICENSE file at https://angular.io/license\n */\n\nimport {ApplicationRef, ChangeDetectorRef,
ComponentFactory, ComponentRef, EventEmitter, Injector, OnChanges, SimpleChange, SimpleChanges,
StaticProvider, Testability, TestabilityRegistry, Type} from '@angular/core';\n\nimport {IAttributes,
IAugmentedJQuery, ICompileService, IInjectorService, INgModelController, IParseService, IScope} from
'./angular1';\nimport {PropertyBinding} from './component_info';\nimport {$SCOPE} from './constants';\nimport
{getTypeName, hookupNgModel, strictEquals} from './util';\n\nconst INITIAL_VALUE = {\n
__UNINITIALIZED__: true\n};\n\nexport class DowngradeComponentAdapter {\n private implementsOnChanges
= false;\n private inputChangeCount: number = 0;\n private inputChanges: SimpleChanges = {};\n private
componentScope: IScope;\n // TODO(issue/24571): remove '!'.\n private componentRef !: ComponentRef<any>;\n
private component: any;\n // TODO(issue/24571): remove '!'.\n private changeDetector !: ChangeDetectorRef;\n //
TODO(issue/24571): remove '!'.\n private viewChangeDetector !: ChangeDetectorRef;\n\n constructor(\n
private element: IAugmentedJQuery, private attrs: IAttributes, private scope: IScope,\n
private ngModel:
INgModelController, private parentInjector: Injector,\n
private $injector: IInjectorService, private $compile:

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ICompileService,
private $parse: IParseService, private componentFactory: ComponentFactory<any>,
private wrapCallback: <T>(cb: () => T) => () => T { this.componentScope = scope.$new();
}|

compileContents(): Node[][] { const compiledProjectableNodes: Node[] = [];
const projectableNodes: Node[][] = [];

const linkFns = projectableNodes.map(nodess =>
  this.$compile(nodess));

this.element.empty();

linkFns.forEach(linkFn => {
  linkFn(this.scope,
    (clone: Node[]) => {
      compiledProjectableNodes.push(clone);
      this.element.append(clone);
    });
});

return compiledProjectableNodes;
}

createComponent(projectableNodes: Node[][]): void {
  const providers: StaticProvider[] = [{provide: $SCOPE, useValue: this.componentScope}];
  const childInjector = Injector.create(
    {providers: providers, parent: this.parentInjector, name: DowngradeComponentAdapter});
  this.componentRef = this.componentFactory.create(childInjector, projectableNodes, this.element[0]);
  this.viewChangeDetector = this.componentRef.injector.get(ChangeDetectorRef);
  this.changeDetector = this.componentRef.changeDetectorRef;

  this.componentFactory.instance.$on(ngOnChanges());

  // testability hook is commonly added during component bootstrap
  // packages/core/src/application_ref.bootstrap()
  // in downgraded application, component creation will take place here as well as adding the
  // testability hook.
  this.componentRef.injector.get(Testability, null)
    if (testability) {
      this.componentRef.injector.get(TestabilityRegistry)
        .registerApplication(this.componentRef.location.nativeElement, testability);
    }

  hookupNgModel(this.ngModel, this.component);
}

setupInputs(): void {
  const attrs = this.attrs;
  const inputs = this.componentFactory.inputs || [];

  for (let i = 0; i < inputs.length; i++) {
    const input = new PropertyBinding(inputs[i].propName,
      inputs[i].templateName);
    let expr: string|null = null;

    if (attrs.hasOwnProperty(input.attr)) {
      const observeFn = (prop => {
        let prevValue = INITIAL_VALUE;
        return (currValue: any) => {
          if (!strictEquals(prevValue, currValue)) {
            if (prevValue === INITIAL_VALUE) {
              prevValue = currValue;
            }
            this.updateInput(prop, prevValue, currValue);
            prevValue = currValue;
          }
        };
      })(input.prop);
      attrs.$observe(input.attr, observeFn);

      // Use `$watch()` (in addition to `$observe()`) in
      // order to initialize the input in time
      // for `ngOnChanges()`. This is necessary if we are already in a 'Sdigest',
      // which means that the `ngOnChanges()` (which is called by a watcher) will run before the `Sobserve()`
      // callback. Let unwatch: Function|null = this.componentScope.$watch(() => {
        unwatch = null;
        unwatch = null;
        observeFn(attrs[input.attr]);
      });
    } else if (attrs.hasOwnProperty(input.bindAttr)) {
      expr = attrs[input.bindAttr];
    } else if (attrs.hasOwnProperty(input.bracketAttr)) {
      expr = attrs[input.bracketAttr];
    } else if (attrs.hasOwnProperty(input.bindonAttr)) {
      expr = attrs[input.bindonAttr];
    } else if (attrs.hasOwnProperty(input.bracketParenAttr)) {
      expr = attrs[input.bracketParenAttr];
    }
    if (expr != null) {
      const watchFn =
        (prop => (currValue: any, prevValue: any) =>
         this.updateInput(prop, prevValue, currValue))(input.prop);
      this.componentScope.$watch(expr, watchFn);
    }

    // Invoke `ngOnChanges()` and Change Detection
    when necessary
    const detectChanges = () => this.changeDetector.detectChanges();
    this.implementsOnChanges = !!(this.componentFactory.componentType.prototype &&
      (OnChanges.prototype).ngOnChanges);
    this.componentScope.Swatch(() => this.addChangeCount,
      this.wrapCallback() => {
        // Invoke `ngOnChanges()` if (this.implementsOnChanges) {
          const inputChanges = this.inputChanges;
          this.inputChanges = {};
          (<OnChanges>this.component).ngOnChanges(inputChanges);
          this.componentScope.Swatch(this.wrapCallback(detectChanges));
        }
      })
    // If not opted out of propagating digests, invoke change detection
    // when inputs change
    if (propagateDigest) {
      detectChanges();
    }
  }
}

markForCheck();
// If opted out of propagating digests, invoke change detection
// when inputs change
if (propagateDigest) {
  detectChanges();
}
// If not opted out of propagating digests, invoke change detection on every digest
this.componentScope.Swatch(this.wrapCallback(detectChanges));
// If necessary, attach the view so that it will be dirty-checked.
// (Allow time for the initial input values to be set and `ngOnChanges()` to be called.)

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if (manuallyAttachView || !propagateDigest) {
  let unwatch: Function|null = this.componentScope.$watch(() => {
    let unwatch!();
    unwatch = null;
  });

  const appRef = this.parentInjector.get<ApplicationRef>(ApplicationRef);,
  appRef.attachView(this.componentRef.hostView);
  this.setupOutputs(
    const attrs = this.attrs;
    const outputs = this.componentFactory.outputs || [];
    for (let j = 0; j < outputs.length; j++) {
      const output = new PropertyBinding(outputs[j].propName, outputs[j].templateName);
      const bindonAttr = output.bindonAttr.substring(0, output.bindonAttr.length - 6);
      const bracketParenAttr = $(
        `${output.bracketParenAttr.substring(2, output.bracketParenAttr.length - 8)}`
      );

      this.subscribeToOutput(output, attrs[bindonAttr], true);
      this.subscribeToOutput(output, attrs[bracketParenAttr], true);
      if (attrs.hasOwnProperty(output.onAttr)) {
        this.subscribeToOutput(output, attrs[output.onAttr], true);
      }
      if (attrs.hasOwnProperty(output.parenAttr)) {
        this.subscribeToOutput(output, attrs[output.parenAttr], true);
      }
    }
  });

  private subscribeToOutput(output: PropertyBinding, expr: string, isAssignment: boolean = false) {
    const getter = this.$parse(expr);
    const setter = getter.assign;
    if (isAssignment && !setter) {
      throw new Error(`Expression '${expr}' is not assignable!`);
    }
    const emitter = this.component[output.prop] as EventEmitter<any>;
    if (emitter) {
      emitter.subscribe({
        next: isAssignment ? (v: any) => setter!(this.scope, v) : (v: any) => getter(this.scope, {'$event': v})
      });
    } else {
      throw new Error(`Missing emitter '${output.prop}' on component`);
    }
  }

  registerCleanup() {
    const testabilityRegistry = this.componentRef.injector.get(TestabilityRegistry);
    const destroyComponentRef = this.wrapCallback(() => this.componentRef.destroy());
    let destroyed = false;

    this.element.on('$destroy', () => this.componentScope.$destroy());
    this.componentScope.$on('$destroy', () => {
      if (!destroyed) {
        destroyed = true;
        testabilityRegistry.unregisterApplication(this.componentRef.location.nativeElement);
        destroyComponentRef();
      }
    });
  }

  getInjector(): Injector { return this.componentRef.injector; }

  private updateInput(prop: string, prevValue: any, currValue: any) {
    if (this.implementsOnChanges) {
      this.inputChanges[prop] = new SimpleChange(prevValue, currValue, prevValue === currValue);
    }

    this.inputChangeCount++;
    this.component[prop] = currValue;
  }

  groupProjectableNodes() {
    let ngContentSelectors = this.componentFactory.ngContentSelectors;
    return groupNodesBySelector(ngContentSelectors, this.element.contents!());
  }

  function findMatchingNgContentIndex(element: any, ngContentSelectors: string[]): number|null {
    const ngContentIndices: number[] = [];
    let wildcardNgContentIndex: number = -1;
    for (let i = 0; i < ngContentSelectors.length; i++) {
      const selector = ngContentSelectors[i];
      if (matchesSelector(element, selector)) {
        ngContentIndices.push(i);
      }
    }

    ngContentIndices.sort();
    if (ngContentIndex != null) {
      return ngContentIndices[0];
    } else {
      return ngContentIndex;
    }
  }

  function matchesSelector(element: any, selector: string): boolean {
    return selector.starts;
the LICENSE file at https://angular.io/license
*/

import {isFunction} from './util';

export interface Thenable<T> { then(callback: (value: T) => any): any; }

export function isThenable<T>(obj: unknown): obj is Thenable<T> { 
  return !obj && isFunction((obj as any).then); }

/**
 * Synchronous, promise-like object.
 */
export class SyncPromise<T> {
  protected value: T|undefined;
  private resolved = false;
  private callbacks:
    ((value: T) => unknown)[] = [];

  private resolve: ((idx: number, value: T) => unknown)[] = [];

  static all<T>(valuesOrPromises: (T|Thenable<T>)[]): SyncPromise<T>[];

  let resolvedCount = 0;
  const results: T[] = [];
  const resolve = (idx: number, value: T) => {
    results[idx] = value;
    if (++resolvedCount === valuesOrPromises.length) resolve();
  };

  valuesOrPromises.forEach((p, idx) => {
    if (isThenable(p)) {
      p.then(v => resolve(idx, v));
    } else {
      resolve(idx, p);
    }
  });

  return aggrPromise;
}

resolve(value: T): void {
  // Do nothing, if already resolved.
  if (this.resolved) return;

  this.value = value;
  this.resolved = true;

  // Run the queued callbacks.
  this.callbacks.forEach(callback => callback(value));
  this.callbacks.length = 0;
}

then(callback: (value: T) => unknown): void {
  if (this.resolved) {
    callback(this.value !);
  } else {
    this.callbacks.push(callback);
  }
}

/**
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 *
 * Use of this source code is governed by an MIT-style license that can be found in the LICENSE file at
 * https://angular.io/license
 */

import {ComponentFactory, ComponentFactoryResolver, Injector, NgZone, Type} from '@angular/core';

import {IAnnotatedFunction, IAttributes, IAugmentedJQuery, ICompileService, IDirective, IInjectorService, INgModelController, IParseService, IScope} from './angular1';
import {{LazyModuleRef, UpgradeAppType, controllerKey, getDowngradedModuleCount, getTypeName, getUpgradeAppType, validateInjectionKey} from './util';
import {SyncPromise, Thenable} from './promise_util';

/**
 * @description
 *
 * A helper function that allows an Angular component to be used from AngularJS.
 *
 * *Part of the [upgrade/static](api?query=upgrade%2Fstatic) library for hybrid upgrade apps that support AOT compilation*
 *
 * This helper function returns a factory function to be used for registering an AngularJS
 * component in an AngularJS module. See the [Usage Notes](guide/upgrade#using-angular-components-from-angularjs-code).
 *
 * @usageNotes
 * ### Examples
 *
 * Let's assume that you have an Angular component called `ng2Heroes` that needs
 * to be made available in AngularJS templates.
 *
 * ```typescript
 * {@example upgrade/static/ts/full/module.ts region="ng2-heroes"}
 * ```
 *
 * We must create an AngularJS directive that wraps the "downgraded" component.
 * The `downgradeComponent()` function returns a factory function that we
 * can use to define the AngularJS directive that wraps the `ng2Heroes` component.
 *
 * ```typescript
 * {@example upgrade/static/ts/full/module.ts region="ng2-heroes-wrapper"}
 * ```
 *
 * For more details and examples on downgrading Angular components to AngularJS components please visit the [Upgrade guide](guide/upgrade#using-angular-components-from-angularjs-code).

[Temporary comment]

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longer used *\n  selectors?: string[];\n}) any /* angular.Injectable */ {
const directiveFactory:
IAnnotatedFunction = function\/\n  SCompile: ICompileService, Sinjector: IInjectorService, Sparse:
IParseService): IDirective {\n  // When using `downgradeModule()`, we need to handle certain things specially. For
example:\n  - We always need to attach the component view to the `ApplicationRef` for it to be
    // dirty-
    // checked.\n  - We need to ensure callbacks to Angular APIs (e.g. change detection) are run inside the\n    // Angular zone.\n
  NOTE: This is not needed, when using `UpgradeModule`, because `$digest()` will be run\n    // inside the Angular zone (except if explicitly escaped, in which case we shouldn't\n    // force it back in).\n
  const isNgUpgradeLite = UpgradeAppType.$injector === UpgradeAppType.Lite;\n
  const wrapCallback: <T>(cb: () => T) => typeof cb =\n    isNgUpgradeLite ? cb => cb : cb => () =>
    NgZone.isInAngularZone() ? cb() : ngZone.run(cb);\n
  let ngZone: NgZone;\n
  // When downgrading multiple modules, special handling is needed wrt injectors.\n  const hasMultipleDowngradedModules =\n    isNgUpgradeLite && (getDowngradedModuleCount($injector) > 1);\n
  // Before the Angular templates have\n  // been compiled.\n
  const ngModel: INgModelController =\n    $injector.get(lazyModuleRefKey) as LazyModuleRef;

  moduleInjector =
    lazyModuleRef.injector || lazyModuleRef.promise as Promise<Injector>;

  // Validate the injection key.\n
  validateInjectionKey($injector, downgradedModule, lazyModuleRefKey, attemptedAction);\n
  // There are two injectors: `finalModuleInjector` and `finalParentInjector` (they might be\n    // the same instance,\n  but that is irrelevant).\n
  // - `finalModuleInjector` is used to retrieve `ComponentFactoryResolver`, thus it must\n    // be on the same tree as the `NgModule` that declares this downgraded component.\n  // - `finalParentInjector` is used for all other injection purposes.\n
  // Note that Angular knows to only traverse the component-tree part of that injector.\n
  // When looking for an injectable and then switch to the module

  // There are basically three cases: \n  // - If there is no parent component (thus no
    //   `parentInjector`), we bootstrap the downgraded\n      // `NgModule` and use its injector as both
      //   `finalModuleInjector` and\n      //   `finalParentInjector`.\n  // - If there is a parent component (and thus a
    //   `parentInjector`) and we are sure that it\n      // belongs to the same `NgModule` as this downgraded component\n      // (e.g. because there is only\n        // one downgraded module, we use that `parentInjector` as both
        // `finalModuleInjector` and\n        // `finalParentInjector`).\n  // - If there is a parent component, but it may belong to a different `NgModule`, then we\n      // use the `parentInjector` as `finalParentInjector` and this downgraded component\n      // declaring `NgModule`’s injector as `finalModuleInjector`.\n
  // Note 1: If the
  //   `NgModule` is already bootstrapped, we just get its injector (we don't\n    // bootstrap again).\n
  // Note 2: It is possible that (while there are multiple downgraded modules) this\n    // downgraded component and its parent component both belong to the same NgModule.\n
  // In that case, we could have used the
  //   `parentInjector` as both\n  //   `finalModuleInjector` and `finalParentInjector`, but (for simplicity) we are\n    // treating this case as if they belong to different `NgModule`’s. That doesn't\n    // really affect anything, since `parentInjector` has `moduleInjector` as ancestor\n    // and trying to resolve
  //   `ComponentFactoryResolver` from either one will return\n    // the same instance.\n
  // If there is a parent component, use its injector as parent injector.\n
  // If this is a "top-level" Angular component, use the
  // module injector:\n  const finalParentInjector = parentInjector || moduleInjector;\n
  // If this is a "top-
    // level" Angular component or the parent component may belong to a\n    // different `NgModule`, use the module
    // injector for module-specific dependencies.\n
  // If there is a parent component that belongs to the same
`NgModule`, use its injector.

```typescript
        const finalModuleInjector = moduleInjector || parentInjector !;

        const
```}

```typescript
doDowngrade = (injector: Injector, moduleInjector: Injector) => {
          // Retrieve `ComponentFactoryResolver` from the `NgModule` this
          // component belongs to.
          const
```}

```typescript
componentFactoryResolver: ComponentFactoryResolver =
        null;

        componentFactoryResolver.resolveComponentFactory(info.component) !;

        throw new Error(`Expecting ComponentFactory for: ${getTypeName(info.component)}`);
      }

      const injectorPromise = new ParentInjectorPromise(element);
      const facade = new
```}

```typescript
DowngradeComponentAdapter(
    element, attrs, scope, ngModel, injector, $injector, $compile, $parse,
```}

```typescript
componentFactory, wrapCallback);\n
projectableNodes = facade.compileContents();\n
facade.createComponent(projectableNodes);

facade.setupInputs(isNgUpgradeLite, info.propagateDigest);

facade.setupOutputs();

facade.registerCleanup();

injectorPromise.resolve(facade.getInjector());

if (ranAsync) {
  // If this is run async, it is possible
  // that it is not run inside an
  // digest and initial input values will not be detected.
  scope.$evalAsync(() => {});
}

const downgradeFn =
    !isNgUpgradeLite ? doDowngrade : (pInjector: Injector, mInjector: Injector) => {
      if (!ngZone) {
        ngZone = pInjector.get(NgZone);
      }

      wrapCallback(() => doDowngrade(pInjector, mInjector))();
    };

    // NOTE:
    // Not
    // using `ParentInjectorPromise.all()` (which is inherited from `SyncPromise`), because
    // Closure Compiler (or
    // some related tool) complains:\n
    // `TypeError: ...$src$downgrade_component_ParentInjectorPromise.all is not a
    // function`

    SyncPromise.all([finalParentInjector, finalModuleInjector])
        .then(([pInjector, mInjector]) =>
          downgradeFn(pInjector, mInjector));

    ranAsync = true;
  }
};

// bracket-notation because
// of closure - see #14441
directiveFactory['$inject'] = [$COMPILE, $INJECTOR, $PARSE];
return
```
upgraded component that is only used in a downgraded Angular component provided by the same Angular module as the injectable, but it is not OK to use it in an AngularJS component from a different module. It is the module, whose injector will be used for instantiating the injectable.

```typescript
upgradeInjectable(token: any, downgradedModule: string = ''): Function {
  const factory = function($injector: IInjectorService) {
    const injectorKey = `${INJECTOR_KEY}${downgradedModule}`;
    const injector: Injector = $injector.get(injectorKey);
    return injector.get(token);
  };
  (factory as any)['$inject'] = [$INJECTOR];
  return factory;

  throw new Error('Only support single directive definition for: $name');
  return function() {
    const directive = this.$compile.$directive.$directive.$directive;
    const directiveName = getOrCall<string>(directive, $element);
    const directiveType = typeOf(directiveName);
    if (directiveType === 'object') {
      return directiveName;
    } else if (directiveType === 'function') {
      return directiveName;
    } else if (directiveType === 'string') {
      throw new Error('loading directive templates asynchronously is not supported');
    } else {
      throw new Error('loading directive templates asynchronously is not supported');
    }
  };
}
```

*/

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```typescript
upgradeInjectable(token: any, downgradedModule: string = ''): Function {
  const factory = function($injector: IInjectorService) {
    const injectorKey = `${INJECTOR_KEY}${downgradedModule}`;
    const injector: Injector = $injector.get(injectorKey);
    return injector.get(token);
  };
  (factory as any)['$inject'] = [$INJECTOR];
  return factory;

  throw new Error('Only support single directive definition for: $name');
  return function() {
    const directive = this.$compile.$directive.$directive.$directive;
    const directiveName = getOrCall<string>(directive, $element);
    const directiveType = typeOf(directiveName);
    if (directiveType === 'object') {
      return directiveName;
    } else if (directiveType === 'function') {
      return directiveName;
    } else if (directiveType === 'string') {
      throw new Error('loading directive templates asynchronously is not supported');
    } else {
      throw new Error('loading directive templates asynchronously is not supported');
    }
  };
}
```
resolve($templateCache.put(url, response));
          } else {
            reject(`GET component template from '${url}'

          // Returns a promise that resolves if the GET request
          // completion status is 200 or 304, otherwise
          // throws bad request.

          } catch(err) {

          if (err) {  // Catching the promise rejection
            if (err.error) {  // If it's a bad request
              return`
          } else {
            reject(`GET component template from '${url}'

          } catch(err) {

          if (err) {  // Catching the promise rejection
            if (err.error) {  // If it's a bad request
              return`

          const controller = this.$controller(controllerType, locals, null,
          this.directive.controllerAs);
          }
        });
      } else {
        throw new Error(`Directive '${directive.name}' is not a component, it is missing template.`);
      }

    } else {
      throw new Error(`Directive '${directive.name}' is not a component, it is missing template.`);
    }

  }

  buildController(controllerType: IController, $scope: IScope) {
    // TODO: Document that we do not pre-assign bindings on the controller instance.
    // Quoted properties below so that this code can be optimized with Closure Compiler.
    const locals = {
      $scope: $scope, '$element': this.$element};
    const controller = this.$controller(controllerType, locals, null,
    this.directive.controllerAs);
    this.$controller(controller,$scope, this.directive, false, this.$element) as string;
    return

    angularElement.cleanData(this.element.querySelectorAll('*'));
  }

  prepareTransclusion(): ILinkFn|undefined{
    const transclude = this.directive.transclude;
    const contentChildNodes = this.extractChildNodes();
    const
    attachChildrenFn: ILinkFn = (scope, cloneAttachFn) => {
      // Since AngularJS v1.5.8, `cloneAttachFn` will try to
      // destroy the transclusion scope if
      // `$template` is empty. Since the transcluded content comes from Angular,
      // not AngularJS, there will be no transclusion scope here.
      // Provide a dummy `scope`.$destroy()` method
      // to prevent `cloneAttachFn` from throwing.
      // `scope`.$destroy` will invoke the AngularJS `$destroy` DOM event.
      // Equivalent to how jQuery/jqLite invoke `cleanData` on an Element (this.element)
      // https://github.com/jquery/jquery/blob/e743cd2e8555267f1955f71a72483779156130f9d/src/manipulation.js#L223
      // https://github.com/angular/angular.js/blob/26dcd58f092a3d22f4b2ab70d864d688c82/src/jqLite.js#L306-L312
      // `cleanData` will invoke the AngularJS `$destroy` DOM event.
      // https://github.com/angular/angular.js/blob/26dcd58f092a3d22f4b2ab70d864d688c82/src/Angular.js#L1911-L1924
      angularElement.cleanData(this.element);  // `null`: Defined but not yet filled.
      let $template = contentChildNodes;
      if (transclude) {
        const
        slotMap = Object.create(null);
        const filledSlots = Object.create(null);

        // Parse the element selectors.
        Object.keys(transclude).forEach(slotName => {
          let selector = transclude[slotName];
          const optional = selector.charAt(0) === '?';
          selector = optional ? selector.substring(1) : selector;

          slotMap[selector] = slotName;
          slots[slotName] = null;            // `null`: Defined but not yet filled.
          filledSlots[slotName] = optional;  // Consider optional slots as filled.
        });

        // Add the matching elements into their slot.
        contentChildNodes.forEach(node => {
          const slotName = slotMap[directiveNormalize(node.nodeName.toLowerCase())];
          if (slotName) {
            filledSlots[slotName] = true;
          } else {
            $template.push(node);
          }
        });

        if (slotName) {
          if ($template) {
            throw new Error(`Required transclusion slot ${this.name}

          // AngularJS v1.6+ ignores empty or whitespace-only transcluded text
          // nodes. But Angular removes all text content after the first interpolation and updates it later, after
          // evaluating the expressions. This would result in AngularJS failing to recognize text
          // nodes that start with an interpolation as transcluded content and use the fallback
          // content instead.
          // To avoid this issue, we add
          // to empty text nodes (which can only be a result of Angular removing their initial content).
          // NOTE: Transcluded text content that starts with whitespace followed by an interpolation
          // will still fail to be detected by AngularJS v1.6+
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          // Node.TEXT_NODE &
          // 'node.nodeValue'
```

resolveAndBindRequiredControllers(controllerInstance: IControllerInstance|null) {
  const directiveRequire = this.getDirectiveRequire();
  const requiredControllers = this.resolveRequire(directiveRequire);
  if (controllerInstance &
```
this.outputsRename};\n\n @Directive({jit: true, ...directive})\n class MyClass extends
UpgradeNg1ComponentAdapter implements OnInit, OnChanges, DoCheck,\n
OnDestroy {\n
constructor(@Inject($SCOPE) scope: IScope, injector: Injector, elementRef: ElementRef) {\n
super(\n
new UpgradeHelper(injector, name, elementRef, self.directive || undefined), scope,\n
self.template,
self.inputs, self.outputs, self.propertyOutputs, self.checkProperties,\n
self.propertyMap) as any;\n
}\n }\n
this.type = MyClass;\n }\n\n extractBindings() {\n const btcIsObject = typeof this.directive !.bindToController
=== 'object';\n if (btcIsObject && Object.keys(this.directive !.scope !).length) {\n
throw new Error(\n
`Binding definitions on scope and controller at the same time are not supported.`);\n }\n\n const context =
(btcIsObject) ? this.directive !.bindToController : this.directive !.scope;\n\n if (typeof context == 'object') {\n
Object.keys(context).forEach(propName => {\n
const definition = context[propName];\n
const
bindingType = definition.charAt(0);\n
const bindingOptions = definition.charAt(1);\n
const attrName =
definition.substring(bindingOptions === '?' ? 2 : 1) || propName;\n\n
// QUESTION: What about `=*`? Ignore?
Throw? Support?\n\n
const inputName = `input_${attrName}`;\n
const inputNameRename =
`${inputName}: ${attrName}`;\n
const outputName = `output_${attrName}`;\n
const outputNameRename
= `${outputName}: ${attrName}`;\n
const outputNameRenameChange = `${outputNameRename}Change`;\n\n
switch (bindingType) {\n
case '@':\n
case '<':\n
this.inputs.push(inputName);\n
this.inputsRename.push(inputNameRename);\n
this.propertyMap[inputName] = propName;\n
break;\n
case '=':\n
this.inputs.push(inputName);\n
this.inputsRename.push(inputNameRename);\n
this.propertyMap[inputName] = propName;\n\n
this.outputs.push(outputName);\n
this.outputsRename.push(outputNameRenameChange);\n
this.propertyMap[outputName] = propName;\n\n
this.checkProperties.push(propName);\n
this.propertyOutputs.push(outputName);\n
break;\n
case '&':\n
this.outputs.push(outputName);\n
this.outputsRename.push(outputNameRename);\n
this.propertyMap[outputName] = propName;\n
break;\n
default:\n
let json =
JSON.stringify(context);\n
throw new Error(\n
`Unexpected mapping '${bindingType}' in '${json}'
in '${this.name}' directive.`);\n
}\n
});\n }\n }\n\n /**\n * Upgrade ng1 components into Angular.\n
*/\n static resolve(\n
exportedComponents: {[name: string]: UpgradeNg1ComponentAdapterBuilder},\n
$injector: IInjectorService): Promise<string[]> {\n const promises = Object.keys(exportedComponents).map(name
=> {\n
const exportedComponent = exportedComponents[name];\n
exportedComponent.directive =
UpgradeHelper.getDirective($injector, name);\n
exportedComponent.extractBindings();\n\n
return Promise\n
.resolve(UpgradeHelper.getTemplate($injector, exportedComponent.directive, true))\n
.then(template =>
exportedComponent.template = template);\n });\n\n return Promise.all(promises);\n }\n}\n\nclass
UpgradeNg1ComponentAdapter implements OnInit, OnChanges, DoCheck {\n private controllerInstance:
IControllerInstance|null = null;\n destinationObj: IBindingDestination|null = null;\n checkLastValues: any[] = [];\n
directive: IDirective;\n element: Element;\n $element: any = null;\n componentScope: IScope;\n\n constructor(\n
private helper: UpgradeHelper, scope: IScope, private template: string,\n
private inputs: string[], private outputs:
string[], private propOuts: string[],\n
private checkProperties: string[], private propertyMap: {[key: string]:
string}) {\n this.directive = helper.directive;\n this.element = helper.element;\n this.$element =
helper.$element;\n this.componentScope = scope.$new(!!this.directive.scope);\n\n const controllerType =
this.directive.controller;\n\n if (this.directive.bindToController && controllerType) {\n
this.controllerInstance
= this.helper.buildController(controllerType, this.componentScope);\n
this.destinationObj =
this.controllerInstance;\n } else {\n
this.destinationObj = this.componentScope;\n }\n\n for (let i = 0; i <
inputs.length; i++) {\n
(this as any)[inputs[i]] = null;\n }\n for (let j = 0; j < outputs.length; j++) {\n
const
emitter = (this as any)[outputs[j]] = new EventEmitter<any>();\n
if (this.propOuts.indexOf(outputs[j]) === -1)
{\n
this.setComponentProperty(\n
outputs[j], (emitter => (value: any) =>
emitter.emit(value))(emitter));\n
}\n }\n for (let k = 0; k < propOuts.length; k++) {\n
this.checkLastValues.push(INITIAL_VALUE);\n }\n }\n\n ngOnInit() {\n // Collect contents, insert and
compile template\n const attachChildNodes: ILinkFn|undefined = this.helper.prepareTransclusion();\n const
linkFn = this.helper.compileTemplate(this.template);\n\n // Instantiate controller (if not already done so)\n const

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controllerType = this.directive.controller;
    const bindToController = this.directive.bindToController;
    if (controllerType &
      !bindToController) { 
      this.controllerInstance = this.helper.buildController(controllerType,
        this.componentScope);
  } 
  // Require other controllers
  const requiredControllers = 
  this.helper.resolveAndBindRequiredControllers(this.controllerInstance);
  // Hook: $onInit
  if (this.controllerInstance &&
    isFunction(this.controllerInstance.$onInit)) {
    this.controllerInstance.$onInit();
  }

  // Require other controllers
  const requiredControllers = 
  this.helper.resolveAndBindRequiredControllers(this.controllerInstance);
  // Hook: $postLink
  if (this.controllerInstance &&
    isFunction(this.controllerInstance.$postLink)) {
    this.controllerInstance.$postLink();
  }

  ngOnChanges(changes: SimpleChanges) {
    const ng1Changes: any = {};
    Object.keys(changes).forEach(name => {
      const change: SimpleChange = changes[name];
      this.setComponentProperty(name, change.currentValue);
      ng1Changes[this.propertyMap[name]] = change;
    });

    if (isFunction(this.destinationObj.$onChanges)) {
      this.destinationObj.$onChanges(ng1Changes);
    }

    ngDoCheck() {
      const destinationObj = this.destinationObj;
      const lastValues = this.checkLastValues;
      const checkProperties = this.checkProperties;
      const propOuts = this.propOuts;
      checkProperties.forEach((propName, i) => {
        const value = destinationObj[propName];
        const last = lastValues[i];
        if (!strictEquals(last, value)) {
          const eventEmitter: EventEmitter<any> = (this as any)[propOuts[i]];
          eventEmitter.emit(lastValues[i] = value);
        }
      });

      if (this.controllerInstance &&
        isFunction(this.controllerInstance.$doCheck)) {
        this.controllerInstance.$doCheck();
      }
    }
  }

  ngOnDestroy() {
    this.helper.onDestroy(this.componentScope, this.controllerInstance);
  }

  setComponentProperty(name: string, value: any) {
    this.destinationObj[this.propertyMap[name]] = value;
  }
Angular components always execute inside Angular framework codebase regardless of
where they are instantiated.

An AngularJS component can be downgraded to an Angular component. This creates an AngularJS directive, which bootsrap the AngularJS component directive in that location.

An Angular component can be upgraded to an AngularJS component. This creates an Angular directive, which bootsrap the Angular component in that location.

Whenever an adapter component is instantiated the host element is owned by the framework doing the instantiation. The other framework then instantiates and owns the view for that component. This implies that component bindings will always follow the semantics of the instantiated framework. The syntax is always that of Angular syntax.

### Example

```typescript
const adapter = new UpgradeAdapter(forwardRef(() => MyNg2Module), myCompilerOptions); const module = angular.module('myExample', []); const module = module.directive('ng2Comp', () => {
  return {
    selector: 'ng2-comp',
    inputs: ['name'],
    template: `<ng2-comp name="World">project</ng2-comp>
  };
});

module.directive('ng1Hello', function() {
  return {
    scope: { title: '=' },
    template: `<ng1-hello title="name"></ng1-hello>
  };
});

@Component({
  selector: 'ng2-comp',
  inputs: ['name'],
  template: `<ng2-comp name="World">project</ng2-comp>
  </ng2-comp>
  <ng-content></ng-content>
});

@NgModule({
  declarations: [Ng2Component, adapter.upgradeNg1Component('ng1Hello')],
  imports: [BrowserModule]
})
class MyNg2Module {}

document.body.innerHTML = '<ng2-comp name="World">project</ng2-comp>';

adapter.bootstrap(document.body, ['myExample']).ready(function() {
  expect(document.body.textContent).toEqual('ng2[ng1[Hellow World!](transclude](project)])');
});
```

@deprecated Deprecated since v5. Use `upgrade/static` instead, which also supports Ahead-of-Time compilation.

### Supported Features

- Bindings: `<comp name="World">
- Interpolation: `<comp greeting="Hello {{name}}!">
- Event: `<comp (close)="doSomething()">
- Content projection: yes
- ng-model: `<comp ng-model="name">

### Example

```typescript
const adapter = new UpgradeAdapter(forwardRef(() => MyNg2Module));
```

### Mental Model

1. The component is instantiated by being listed in AngularJS template. This means that the host element is controlled by AngularJS, but the component’s view will be controlled by AngularJS.

2. Even though the component is instantiated in AngularJS, it will be using AngularJS syntax. This has to be done, this way because we must follow Angular components do not declare how the attributes should be interpreted.

3. `ng-model` is controlled by AngularJS and communicates with the downgraded Angular component by way of the `ControlValueAccessor` interface from @angular/forms. Only components that implement this interface are eligible.

### Example

```typescript
const adapter = new UpgradeAdapter(forwardRef(() => MyNg2Module));
```

### Directive Definition Factory

```typescript
const adapter = new UpgradeAdapter(forwardRef(() => MyNg2Module));
```

### Module directive

```typescript
const module = angular.module('myExample', []);
```

```typescript
@Component({
  selector: 'greet',
  template: `greet`
})
class Greeter {
  constructor(private ng2BootstrapDeferred: Deferred<IInjectorService>){
    this.ng2BootstrapDeferred.fulfilled().then(injector => {
      this.ng1Module = injector.get(IModule); this.privateModuleRef: NgModuleRef<any|null> = null; this.TODO(issue/24571); remove '!' in private ngZone && NgZone.clear();
    });
  }
```

### UpgradeAdapter

```typescript
export class UpgradeAdapter {
  private idPrefix: string = `NG2_UPGRADE_${upgradeCount++}_`;
  private downgradedComponents: Type<any>[] = [];
  /**
   * An internal map of ng1 components which need to up upgraded to ng2.
   * `ng-model` is controlled by AngularJS and communicates with the downgraded Angular component by way of the `ControlValueAccessor` interface from @angular/forms. Only components that implement this interface are eligible.
   * Interpolation: `<comp greeting="Hello {{name}}!">
   * Event: `<comp (close)="doSomething()">
   * Content projection: yes
   * ng-model: `<comp ng-model="name">

   * ### Mental Model
   * 1. The component is instantiated by being listed in AngularJS template. This means that the host element is controlled by AngularJS, but the component’s view will be controlled by AngularJS.
   * 2. Even though the component is instantiated in AngularJS, it will be using AngularJS syntax. This has to be done, this way because we must follow Angular components do not declare how the attributes should be interpreted.
   * 3. `ng-model` is controlled by AngularJS and communicates with the downgraded Angular component by way of the `ControlValueAccessor` interface from @angular/forms. Only components that implement this interface are eligible.
```
'{{salutation}} {{name}}! - <ng-content></ng-content>'
   * })
   * class Greeter {
   *   @Input() salutation: string;
   *   @Input() name: string;
   *   constructor(salutation: string, name: string) {
   *     this.salutation = salutation;
   *     this.name = name;
   *   }
   *
   *   @Output() greeting: Event;
   *   @ViewChild('greeting') greetingElement: ElementRef;
   *   public sayHello() {
   *     this.greeting.emit(this.salutation + ' ' + this.name);
   *   }
   *
   *   public template(greeting: string) {
   *     return greeting + ' - <span ng-transclude></span>'
   *   }
   * };
   *
   * @NgModule({
   *   declarations: [Greeter],
   *   imports:
   *   [BrowserModule]
   * })
   * class MyNg2Module {}
   *
   * document.body.innerHTML =
   *   'ng1 template: <greet salutation="Hello" [name]="world">text</greet>';
   *
   * adapter.bootstrap(document.body,
   *   ['myExample']).ready(function() {
   *   expect(document.body.textContent).toEqual("ng1 template: Hello world! -
   * text" + * ));
   * });
   * ```
   */
  downgradeNg2Component(component: Type<any>): Function {
    ...
  }

  @param modules any AngularJS modules that the upgrade module should depend upon
  * @returns an
UpgradeAdapterRef, which lets you register a `ready()` callback to run assertions once the Angular components are ready to test through AngularJS.

This `bootstrap` method is a direct replacement (takes same arguments) for AngularJS. Unlike AngularJS, this bootstrap is asynchronous.

### Example

```typescript
const adapter = new UpgradeAdapter(MyNg2Module);
const module = angular.module('myExample', []);
module.directive('ng2', adapter.downgradeNg2Component(Ng2));

module.directive('ng1', function() {
  return {
    scope: { title: '=' },
    template: 'ng1[Hello {{title}}!](<span ng-transclude></span>)'
  };
});

@Component({
  selector: 'ng2',
  inputs: ['name'],
  template: 'ng2[<ng1 [title]="name">transclude</ng1>](<ng-content></ng-content>)'
})
class Ng2 {
}

@NgModule({
  declarations: [Ng2, adapter.upgradeNg1Component('ng1')],
  imports: [BrowserModule]
})
class MyNg2Module {}

document.body.innerHTML = '<ng2 name="World">project</ng2>'

adapter.bootstrap(document.body, ['myExample']).ready(function() {
  expect(document.body.textContent).toEqual('ng2[ng1[Hello World!](transclude)>(project)]');
});
```

Angular service to be accessible from AngularJS.

```typescript
const adapter = new UpgradeAdapter(MyNg2Module);
const module = angular.module('myExample', []);
module.factory('example', adapter.downgradeNg2Provider(Example));

adapter.bootstrap(document.body, ['myExample']).ready((ref) => {
  const example: Example = ref.ng1Injector.get('example');
});
```

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Declare the AngularJS upgrade module for this adapter without bootstrapping the whole
hybrid application.

This method is automatically called by `bootstrap()` and `registerForNg1Tests()`.
The AngularJS modules that this upgrade module should depend upon.
* @returns The AngularJS upgrade module that is declared by this method
* @usageNotes

```typescript
private declareNg1Module(modules: string[]): IModule {
  const delayApplyExps: Function[] = [];
  let original$applyFn: Function;
  let rootScopePrototype: any;
  let rootScope: IRootScopeService;

  const upgradeAdapter = this;
  const ng1Module = this.ng1Module = angularModule(this.idPrefix, modules);

  const platformRef = platformBrowserDynamic();

  this.ngZone = new NgZone({enableLongStackTrace:
    Zone.hasOwnProperty('longStackTraceZoneSpec')});
  this.ng2BootstrapDeferred = new Deferred();

  ng1Module.constant(UPGRADE_APP_TYPE_KEY, UpgradeAppType.Dynamic)
    .factory(INJECTOR_KEY, () => this.moduleRef!.injector.get(Injector))
    .factory(LAZY_MODULE_REF, [Injector, (injector: Injector) => ({ injector } as LazyModuleRef))
    .constant(NG_ZONE_KEY, this.ngZone)
    .factory(COMPLIER_KEY, () => this.moduleRef
      .injector.get(Compiler))
    .config(['$provide', 'injector'], (provide: IProvideService,
      ng1Injector: IInjectorService) => {
      provide.decorator($ROOT_SCOPE, (injector: Injector) => {
        provide.decorator(SROOT_SCOPE, { $delegate, injector: ng1Injector
          .injector.get(InjectorService)} => {
          ng1Module.run([injector, $rootScope, ($injector: IInjectorService, $rootScope: IRootScopeService) => {
            UpgradeNg1ComponentAdapterBuilder.resolve(this.ng1ComponentsToBeUpgraded, ng1Injector)
              .then(() => {
              // Note: There is a bug in TS 2.4 that prevents us from
              // inlining this into @NgModule
              // TODO(tbosch): find or file a bug against TypeScript for this.
              const ngModule = {
                providers: [
                  { provide: $INJECTOR, useFactory: () => ng1Injector },
                  { provide: $COMPILE, useFactory: () => ng1Injector.get($COMPILE)}
                ],
                imports: [resolveForwardRef(this.ng2AppModule)],
                entryComponents: this.downgradedComponents
              ];
              // At this point we have ng1 injector and we have prepared
              // ng1 components to be upgraded, we now can bootstrap ng2
              @NgModule({jit: true, ...ngModule})
              class
              DynamicNgUpgradeModule {
                constructor() {
                ngDoBootstrap() {
                platformRef
                  .bootstrapModule(
                    { ngZone: this.ngZone }]})
                  .then(ref: NgModuleRef<any>) => {
                    this.moduleRef = ref;
                    this.ngZone.run() => {
                      if (rootScopePrototype) {
                        rootScopePrototype.$apply = original$applyFn;  // restore original $apply
                        while (delayApplyExps.length) {
                          rootScope.$apply(delayApplyExps.shift());
                        }
                      }
                    }
                  }
                }
              }
            })
            return testabilityDelegate;
          }]
        });
      });
    });

    if (ng1Injector.has($$TESTABILITY)) {
      provide.decorator($$TESTABILITY, (injector: Injector) => {
        const originalWhenStable: Function = testabilityDelegate.whenStable;
        // Cannot use arrow function below because we need the context
        // new Error('Failed to find $Sapply$ on $SrootScope$!'):
        return rootScope = rootScopeDelegate;
      });
    }
  });

  ng1Module.run([injector, $rootScope, ($injector: IInjectorService, $rootScope: IRootScopeService) => {
    UpgradeNg1ComponentAdapterBuilder.resolve(this.ng1ComponentsToBeUpgraded, ng1Injector)
      .then(() => {
      // Note: There is a bug in TS 2.4 that prevents us from
      // inlining this into @NgModule
      // TODO(tbosch): find or file a bug against TypeScript for this.
      const ngModule = {
        providers: [
          { provide: $INJECTOR, useFactory: () => ng1Injector },
          { provide: $COMPILE, useFactory: () => ng1Injector.get($COMPILE)}
        ],
        imports: [resolveForwardRef(this.ng2AppModule)],
        entryComponents: this.downgradedComponents
      ];
      // At this point we have ng1 injector and we have prepared
      // ng1 components to be upgraded, we now can bootstrap ng2
      @NgModule({jit: true, ...ngModule})
      class
      DynamicNgUpgradeModule {
        constructor() {
        ngDoBootstrap() {
        platformRef
          .bootstrapModule(
            { ngZone: this.ngZone }]})
          .then(ref: NgModuleRef<any>) => {
            this.moduleRef = ref;
            this.ngZone.run() => {
              if (rootScopePrototype) {
                rootScopePrototype.$apply = original$applyFn;  // restore original $apply
                while (delayApplyExps.length) {
                  rootScope.$apply(delayApplyExps.shift());
                }
              }
            }
          }
        }
      }
    })
  });
```
rootScopePrototype = null;
                      }
                    });
                  })
                  .then(() =>
                    let subscription =
                        this.nng2BootstrapDeferred.onMicrotaskEmpty.subscribe({
                          next: () => {
                            if (rootScope.$$phase) {
                              if (isDevMode()) {
                                console.warn(
                                    'A digest was triggered
while one was already in progress. This may mean that something is triggering digests outside the Angular zone.');
                              }
                            }

                          return rootScope.$evalAsync(() => {});
                        }
                    });
                    rootScope.$on('$destroy', () => {
                      subscription.unsubscribe();
                    });
                  })
                  .catch((e) =>
                    this.nng2BootstrapDeferred.reject(e));
                })
              }
            });
            return ng1Module;
          }
        }
      ],

      return ng1Module;
    }

/**
 * Synchronous
 * promise-like object to wrap parent injectors, to preserve the synchronous nature of AngularJS's $compile.
 */
class ParentInjectorPromise {
  // TODO(issue/24571): remove '!'.
  private injector !: Injector;
  private callbacks: ((injector: Injector) => any)[] = [];

  constructor(private element: IAugmentedJQuery) {
    // store the promise on the element
    this.element.data!(controllerKey(INJECTOR_KEY), this);
    this.nng1RootScope = null !;
    this.nng1Injector = null !;
    this.nng2ModuleRef = null !;
    this.nng2Injector = null !;

    this._bootstrapDone(ngModuleRef, ng1Injector);  // reset the element data to point to the real injector
    this.element.data!(controllerKey(INJECTOR_KEY), injector);
    this.nng1RootScope = null !;
    this.nng1Injector = null !;
    this.nng2ModuleRef = null !;
    this.nng2Injector = null !;

    // clean out the element to prevent memory leaks
    this.element = null !;
    // run all the queued callbacks
    this.callbacks.forEach((callback) => callback(injector));
    this.callbacks.length = 0;

    // register a callback function which is notified upon successful hybrid
    Application Services / Angular application.
    * @namespace
    * @license
    */
    export {UpgradeAdapter, UpgradeAdapterRef} from './src/dynamic/src/upgrade_adapter';

    // This file only re-exports content of the `src`
    // folder. Keep it that way.
    export * from './public_api';

    // This file is not used to build this module. It is only used during editing
    // by the TypeScript language service and during build for verification. `ngc`
    // replaces this file with production index.ts
    // when it rewrites private symbol
    // names./names,\n    export * from '../public_api\n';
  }

  /**
   * Generated bundle index. Do not edit.
   */
  export * from './index';
}

/**
 * Use
 * UpgradeAdapterRef to control a hybrid AngularJS / Angular application.
 * @publicApi
 */
export class UpgradeAdapterRef {
  /* @internal */
  private _readyFn: ((upgradeAdapterRef: UpgradeAdapterRef) => void)|null = null;

  public ng1RootScope: IRootScopeService = null !;
  public ng1Injector: IInjectorService = null !;
  public ng2ModuleRef: NgModuleRef<any> = null !;
  public ng2Injector: Injector = null !;

  /* @internal */
  private _bootstrapDone(ngModuleRef: NgModuleRef<any>, ng1Injector: IInjectorService) {
    this.ng2ModuleRef = ngModuleRef;
    this.ng2Injector = ngModuleRef.injector;
    this.ng1Injector = ng1Injector;
    this.ng1RootScope = ng1Injector.get($ROOT_SCOPE);
    this._readyFn && this._readyFn(this);
  }

  /**
   * Register a callback function which is notified upon successful hybrid
   * AngularJS / Angular application.
   * @param fn
   * @return
   */
  public ready(fn: (upgradeAdapterRef: UpgradeAdapterRef) => void) {
    this._readyFn = fn;
  }

  /**
   * Dispose of running hybrid
   * AngularJS / Angular application.
   */
  public dispose() {
    this.ng1Injector.get($ROOT_SCOPE).$destroy();
    this.ng2ModuleRef.destroy();
  }
}

/**
 * Generated bundle index. Do not edit.
 */

export * from './index';

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- WAAS, GAAG, CAAC, UAAA, IAAI, oBACrB, IAAI, SAAS, GAAG, aAAa, CAAC, oBAC9B, OAAO, UAAC, SAAC, ...
D,IAAI,EAAE;gCACJ,IAAI,SAAS,CAAC,OAAO,EAAE;oCACrB,IAAI,SAAS,EAAE,EAAE;wCACf,OAAO,CA
AC,IAAI,CACR,wIAAwI,CAAC,CAAC;qCAC/I;oCAED,OAAO,SAAS,CAAC,UAAU,CAAC,eAAQ,CAAC,CA
AC;iCACvC;gCAED,OAAO,SAAS,CAAC,OAAO,EAAE,CAAC;6BAC5B;yBACF,CAAC,CAAC;wBACH,SAAS
,CAAC,GAAG,CAAC,UAAU,EAAE,cAAQ,YAAY,CAAC,WAAW,EAAE,CAAC,EAAE,CAAC,CAAC;qBAClE,
CAAC,CAAC;iBACR,CAAC;qBACD,KAAK,CAAC,UAAC,CAAC,IAAK,OAAA,KAAI,CAAC,oBAAoB,CAAC
,MAAM,CAAC,CAAC,CAAC,GAAA,CAAC,CAAC;aACxD;SACF,CAAC,CAAC;QAEH,OAAO,SAAS,CAAC;
KAClB;IACH,qBAAC;CAAA,IAAA;AAED;;;;AAIA;IAKE,+BAAoB,OAAyB;QAAzB,YAAO,GAAP,OAAO,CA
AkB;QAFrC,cAAS,GAAoC,EAAE,CAAC;;QAItD,OAAO,CAAC,IAAM,CAAC,aAAa,CAAC,YAAY,CAAC,EA
AE,IAAI,CAAC,CAAC;KACnD;IAED,oCAAI,GAAJ,UAAK,QAAqC;QACxC,IAAI,IAAI,CAAC,QAAQ,EAAE;
YACjB,QAAQ,CAAC,IAAI,CAAC,QAAQ,CAAC,CAAC;SACzB;aAAM;YACL,IAAI,CAAC,SAAS,CAAC,IAAI
,CAAC,QAAQ,CAAC,CAAC;SAC/B;KACF;IAED,uCAAO,GAAP,UAAQ,QAAkB;QACxB,IAAI,CAAC,QAAQ,
GAAG,QAAQ,CAAC;;QAGzB,IAAI,CAAC,OAAO,CAAC,IAAM,CAAC,aAAa,CAAC,YAAY,CAAC,EAAE,QA
AQ,CAAC,CAAC;;QAG3D,IAAI,CAAC,OAAO,GAAG,IAAM,CAAC;;QAGtB,IAAI,CAAC,SAAS,CAAC,OAA
O,CAAC,UAAC,QAAQ,IAAK,OAAA,QAAQ,CAAC,QAAQ,CAAC,GAAA,CAAC,CAAC;QACzD,IAAI,CAAC,
SAAS,CAAC,MAAM,GAAG,CAAC,CAAC;KAC3B;IACH,4BAAC;CAAA,IAAA;;;;;;;;AAUD;IAAA;;QAEU,aA
AQ,GAA0D,IAAI,CAAC;QAExE,iBAAY,GAAsB,IAAM,CAAC;QACzC,gBAAW,GAAqB,IAAM,CAAC;QACv
C,iBAAY,GAAqB,IAAM,CAAC;QACxC,gBAAW,GAAa,IAAM,CAAC;KA2BvC;;IAxBS,0CAAc,GAAtB,UAAu
B,WAA6B,EAAE,WAA6B;QACjF,IAAI,CAAC,YAAY,GAAG,WAAW,CAAC;QAChC,IAAI,CAAC,WAAW,G
AAG,WAAW,CAAC,QAAQ,CAAC;QACxC,IAAI,CAAC,WAAW,GAAG,WAAW,CAAC;QAC/B,IAAI,CAAC,
YAAY,GAAG,WAAW,CAAC,GAAG,CAAC,WAAW,CAAC,CAAC;QACjD,IAAI,CAAC,QAAQ,IAAI,IAAI,CA
AC,QAAQ,CAAC,IAAI,CAAC,CAAC;KACtC;;;;;;;;IASM,iCAAK,GAAZ,UAAa,EAAkD,IAAI,IAAI,CAAC,QA
AQ,GAAG,EAAE,CAAC,EAAE;;;;IAKjF,mCAAO,GAAd;QACE,IAAI,CAAC,WAAa,CAAC,GAAG,CAAC,WA
AW,CAAC,CAAC,QAAQ,EAAE,CAAC;QAC/C,IAAI,CAAC,YAAc,CAAC,OAAO,EAAE,CAAC;KAC/B;IACH
,wBAAC;CAAA;;AChsBD;;;;;;;AAQA,AASA,2EAA2E;;ACjB3E;;;;;;GAMG;;ACNH;;GAEG;;;;"}
Found in path(s):
* /opt/ws_local/PERMITS_SQL/1047774535_1591199783.98/0/angular-upgrade-9-0-7-srczip/fesm5/upgrade.js.map
No license file was found, but licenses were detected in source scan.
{"version":3,"sources":["packages/upgrade/upgrade.umd.js"],"names":["global","factory","exports","module","requi
re","define","amd","self","ng","upgrade","core","platformBrowserDynamic","this","VERSION","Version","extendS
tatics","d","b","Object","setPrototypeOf","__proto__","Array","p","hasOwnProperty","__extends","__","constructor
","prototype","create","__assign","assign","t","s","i","n","arguments","length","call","apply","__decorate","decorato
rs","target","key","desc","c","r","getOwnPropertyDescriptor","Reflect","decorate","defineProperty","__metadata","
metadataKey","metadataValue","metadata","__read","o","m","Symbol","iterator","e","ar","next","done","push","val
ue","error","noNg","Error","noNgElement","cleanData","angular","bootstrap","element","injector","version","undef
ined","resumeBootstrap","getTestability","window","_a","nodes","$COMPILE","$CONTROLLER","$INJECTOR"
,"$SCOPE","DOWNGRADED_MODULE_COUNT_KEY","INJECTOR_KEY","UPGRADE_APP_TYPE_KEY",
"REQUIRE_INJECTOR","PropertyBinding","prop","attr","parseBinding","bracketAttr","parenAttr","bracketParen
Attr","capitalAttr","charAt","toUpperCase","substr","onAttr","bindAttr","bindonAttr","DIRECTIVE_PREFIX_RE
GEXP","DIRECTIVE_SPECIAL_CHARS_REGEXP","onError","console","stack","log","controllerKey","name","
getTypeName","type","overriddenName","toString","split","getDowngradedModuleCount","$injector","has","get","
getUpgradeAppType","isFunction","validateInjectionKey","downgradedModule","injectionKey","attemptedAction"
,"upgradeAppType","downgradedModuleCount","Deferred","_this","promise","Promise","res","rej","resolve","rejec
t","strictEquals","val1","val2","_matches","INITIAL_VALUE","__UNINITIALIZED__","DowngradeComponentA
dapter","attrs","scope","ngModel","parentInjector","$compile","$parse","componentFactory","wrapCallback","impl
ementsOnChanges","inputChangeCount","inputChanges","componentScope","$new","compileContents","compiled

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this.bindonAttr = '\bindon\\n' + capitalAttr;}
}

return PropertyBinding();

/**
 * @license
 * Copyright Google Inc. All Rights Reserved.
 * Use of this source code is governed by an MIT-style license that can be
 * found in the LICENSE file at https://angular.io/license
 */

var DIRECTIVE_SPECIAL_CHARS_REGEXP = /[\-\_]+(.)/g;

function onError(e) {
    // TODO: (misko): We seem to not have a stack trace here!
    if (console.error) {
        console.error(e, e.stack);
    } else {
        // tslint:disable-next-line:no-console
        console.log(e, e.stack);
    }
    throw e;
}

function controllerKey(name) {
    return '$' + name + 'Controller';
}

function directiveNormalize(name) {
    return name.replace(DIRECTIVE_PREFIX_REGEXP, '')
            .replace(DIRECTIVE_SPECIAL_CHARS_REGEXP, function (_, letter) { return letter.toUpperCase(); });
}

function getTypeName(type) {
    // Return the name of the type or the first line of its stringified version.
    return type.overriddenName || type.name || type.toString().split('/').join('[0];
}

return Sinjector.has(DOWNGRADED_MODULE_COUNT_KEY) ?

Sinjector.get(DOWNGRADED_MODULE_COUNT_KEY); 0;
}

function getUpgradeAppType(Sinjector) {
    return Sinjector.has(UPGRADE_APP_TYPE_KEY) ?

Sinjector.get(UPGRADE_APP_TYPE_KEY) 0 /* None */; 1
}

function function validateInjectionKey(Sinjector, downgradeModuleCount, injectionKey, attemptedAction) {

var upgradeAppType = getUpgradeAppType(Sinjector);

var downgradedModuleCount = getDowngradedModuleCount(Sinjector);

// Check for common errors.

switch (upgradeAppType) {
    case 1 /* Dynamic */:
    case 2 /* Static */:
        if (downgradedModule) {
            throw new Error("Error while " + attemptedAction + ": 'downgradedModule'
        unexpectedspecified.

You should not specify a value for 'downgradedModule', unless
you are downgrading 'more than one Angular module (via 'downgradeModule(\W);\n}]

break;
    case 3 /* Lite */;

if (!(downgradedModule && (downgradedModuleCount

if (!$injector.has(injectionKey)) {
    throw new Error("Error while " + attemptedAction + ": 'downgradedModule' not

This application contains more than one downgraded Angular module, thus you
 need to '+

always specify 'downgradedModule' when downgrading components and

injectables.);

}]

if (!$injector.has(injectionKey)) {
    throw new Error("Error while " + attemptedAction + ": 'downgradedModule'

Did you forget to downgrade an Angular module or include it in the AngularJS'

application?\n}]

break;
default:
    throw new Error("Error while " + attemptedAction + ": Not a

valid '@angular/upgrade' application.

Did you forget to downgrade an Angular module or
include it in the AngularJS'

application?\n}]

function Deferred() {
    var_this = this;

    this.promise = new Promise(function (res, rej) {

_this.resolve = res;

_this.reject = rej;

});

return Deferred();
}

/**
 * @return Whether the passed-in component implements the subset of the
 *     'ControlValueAccessor'
 * interface needed for AngularJS' ng-model'\n
 * compatibility.\n
 */

function supportsNgModel(component) {
    return typeof component.writeValue === 'function' &&
        typeof component.registerOnChange === 'function';
}

function hookupNgModel(ngModel, component) {

    ngModel.$render = function () { component.writeValue(ngModel.$viewValue); };

    component.registerOnChange(ngModel.$setViewValue.bind(ngModel));

    if (typeof component.registerOnTouched === 'function') {
        ngModel.$on('ngModelChange', function (event, newVal, oldVal) {

            component.$watch('value', function (val) {

                if (val !== oldVal) {

                    this.$emit(event);

                } else {

                    this.$emit(event, false);

                }

            });

        });

    }

}
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prevValue, currValue); }()(input.prop); this_1.componentScope.$watch(expr, watchFn);

var this_1 = this;

for (var i = 0; i < inputs.length; i++) {
    _loop_1(i);
}

// Invoke `ngOnChanges()` and Change Detection (when necessary)
var detectChanges = function () { return _this.changeDetector.detectChanges(); }
var prototype = this.componentFactory.componentType.prototype;
this.implmentsOnChanges = !(prototype &
& prototype.ngOnChanges);
this.componentScope.$watch(function () { return _this.inputChangeCount; },
this.wrapCallback(function () { // Invoke `ngOnChanges()`
    if (this.implmentsOnChanges)
        var inputChanges = _this.inputChanges;
        _this.inputChanges = {};
        _this.component.ngOnChanges(inputChanges);
    _this.viewChangeDetector.markForCheck();
    // If opted out of propagating digests, invoke change
detection when inputs change.
    if (propagateDigest)
        var unwatch_2 = this.componentScope.$watch(function () { return _this.inputChanges; },
            this.wrapCallback(function () {
                // Invoke `ngOnChanges()`
                if (this.implmentsOnChanges)
                    var inputChanges = _this.inputChanges;
                    _this.inputChanges = {};
                    _this.component.ngOnChanges(inputChanges);
                _this.viewChangeDetector.markForCheck();
                // If not opted out of propagating digests, invoke change detection on every digest
                if (!propagateDigest)
                    detectChanges();
            }));
        // If not opted out of propagating digests, invoke change detection on every digest
        if (propagateDigest) {
            this.componentScope.$watch(this.wrapCallback(detectChanges));
        }
    // If necessary, attach the view so that it will be dirty-checked.
    // (Allow time for the initial input values to be set and `ngOnChanges()` to be called.)
    if (manuallyAttachView || !propagateDigest) {
        var appRef = _this.parentInjector.get(core.ApplicationRef);
        appRef.attachView(_this.componentRef.hostView);
    }
}

// If necessary, attach the view so that it will be dirty-checked.
// (Allow time for the initial input values to be set and `ngOnChanges()` to be called.)
if (manuallyAttachView || !propagateDigest) {
    var appRef = _this.parentInjector.get(core.ApplicationRef);
    appRef.attachView(_this.componentRef.hostView);
}

DowngradeComponentAdapter.prototype.setupOutputs = function () {
    var attrs = this.attrs;
    var outputs = this.componentFactory.outputs || [];
    for (var j = 0; j < outputs.length; j++) {
        var output = new PropertyBinding(outputs[j].propName, outputs[j].templateName);
        var bindonAttr = output.bindonAttr.substring(0, output.bindonAttr.length - 6);
        var bracketParenAttr = "\[(" + output.bracketParenAttr.substring(2, output.bracketParenAttr.length - 8) + ")\]";
        // order below is important - first update bindings then evaluate expressions
        if (attrs.hasOwnProperty(bindonAttr)) {
            this.subscribeToOutput(output, attrs[bindonAttr], true);
        }
        if (attrs.hasOwnProperty(bracketParenAttr)) {
            this.subscribeToOutput(output, attrs[bracketParenAttr], true);
        }
        if (attrs.hasOwnProperty(output.onAttr)) {
            this.subscribeToOutput(output, attrs[output.onAttr]);
        }
        if (attrs.hasOwnProperty(output.parenAttr)) {
            this.subscribeToOutput(output, attrs[output.parenAttr]);
        }
    }
}

DowngradeComponentAdapter.prototype.updateInput = function (prop, prevValue, currValue) {
    if (this.implmentsOnChanges) {
        this.inputChanges[prop] = new core.SimpleChange(prevValue, currValue, prevValue === currValue);
    }
    this.inputChangeCount++;
    this.component[prop]
```javascript
/**
 * Group a set of DOM nodes into `ngContent` groups, based on the given content selectors.
 * @param {Node[]} nodes The DOM nodes to group.
 * @param {Array< NGContentIndex >>} ngContentIndices The list of `ngContent` indices for each DOM node.
 * @returns {Node[]} The DOM nodes grouped by `ngContent`.
 */
function groupNodesBySelector(ngContentSelectors, nodes) {
    var projectableNodes = [];
    for (var i = 0; i < ngContentSelectors.length; ++i) {
        projectableNodes[i] = [];
    }
    for (var j = 0; j < nodes.length; ++j) {
        var node = nodes[j];
        var ngContentIndex = findMatchingNgContentIndex(node, ngContentSelectors);
        if (ngContentIndex != null) {
            projectableNodes[ngContentIndex].push(node);
        }
    }
    return projectableNodes;
}

/**
 * Finds the `ngContent` index for an element.
 * @param {Node} element The element to search.
 * @param {Array< NGContentIndex >>} ngContentSelectors The list of `ngContent` selectors.
 * @returns {Number} The `ngContent` index or `null` if none match.
 */
function findMatchingNgContentIndex(element, ngContentSelectors) {
    var ngContentIndices = [];
    var wildcardNgContentIndex = -1;
    for (var i = 0; i < ngContentSelectors.length; i++) {
        var selector = ngContentSelectors[i];
        if (selector === '*') {
            wildcardNgContentIndex = i;
        } else {
            if (matchesSelector(element, selector)) {
                ngContentIndices.push(i);
            }
        }
    }
    ngContentIndices.sort();
    if (wildcardNgContentIndex !== -1) {
        ngContentIndices.push(wildcardNgContentIndex);
    }
    return ngContentIndices.length ? ngContentIndices[0] : null;
}

/**
 * Determines if a selector matches an element.
 * @param {Node} element The element to test.
 * @param {String} selector The selector to match against.
 * @returns {Boolean} True if the selector matches, false otherwise.
 */
function matchesSelector(element, selector) {
    return element.nodeType === Node.ELEMENT_NODE ? _matches.call(element, selector) : false;
}

/**
 * A synchronous, promise-like object.
 * @template T
 * @constructor
 * @class
 */
var SyncPromise = /** @class */ (function () {
    function SyncPromise() {
        this.resolved = false;
        this.callbacks = [];
    }
    SyncPromise.prototype.resolve = function (value) {
        if (this.resolved) return;
        this.value = value;
        this.resolved = true;
        // Run the queued callbacks.
        this.callbacks.forEach(function (callback) { return callback(value); });
        this.callbacks.length = 0;
    }
    SyncPromise.prototype.then = function (callback) {
        if (this.resolved) callback(this.value);
        else this.callbacks.push(callback);
        return this;
    }
    return SyncPromise;
}());

/**
 * Creates a factory function for registering an AngularJS directive for "downgrading" an Angular component.
 * @param {String} component The name of the Angular component.
 * @returns {Function} The factory function.
 */
function downgradeComponent(component) {
    return function (selector, parentElement) {
        var downgradeAdapter = new DowngradeComponentAdapter(
            component, parentElement, componentFactory, ngContentSelectors);
        return downgradeAdapter;
    }();
}
```

---

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---

A helper function that allows an Angular component to be used from AngularJS.

---

Examples

* Let's assume that you have an Angular component called `ng2Heroes` that needs to be made available in AngularJS templates.

```javascript
var ng2Heroes = new AngularJSWrapper();
globalScope.ng2Heroes = ng2Heroes;
```

---

* We must create an AngularJS directive that will make this Angular component available inside AngularJS templates.

```javascript
angular.module('ng2-heroes', []).directive('heroes', function () {
    return {
        template: '<div>{{heroes}}</div>',
        scope: { heroes: '@' },
    };
});
```

---

* The `downgradeComponent()` function returns a factory function that we can use to define the AngularJS directive that wraps the Angular component.

```javascript
var heroesComponent = downgradeComponent('ng2Heroes', angular.element(document.body));
```

---

* This helper function returns a factory function to be used for registering an AngularJS wrapper directive for "downgrading" an Angular component.

```javascript
var downgradeWrap = downgradeComponent('ng2Heroes');
```

---

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* Part of the [upgradestatic](https://angular.io/guide/upgradestatic) library for hybrid upgrade apps that support AOT compilation

```javascript
var downgradeWrap = downgradeComponent('ng2Heroes');
```

---

* A helper function that allows an Angular component to be used from AngularJS.

```javascript
var ng2Heroes = new AngularJSWrapper();
globalScope.ng2Heroes = ng2Heroes;
```

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* We must create an AngularJS directive that will make this Angular component available inside AngularJS templates.

```javascript
angular.module('ng2-heroes', []).directive('heroes', function () {
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var heroesComponent = downgradeComponent('ng2Heroes', angular.element(document.body));
```

---

* This helper function returns a factory function to be used for registering an AngularJS wrapper directive for "downgrading" an Angular component.

```javascript
var downgradeWrap = downgradeComponent('ng2Heroes');
```
For more details and examples on downgrading Angular components to AngularJS components please visit the [Upgrade guide](https://docs.angularjs.org/api/ng/type/$rootScope.Scope#$digest). @param info contains information about the Component that is being downgraded.

- `component: Type<any>`: The type of the Component that will be downgraded.
- `downgradedModule?: string`: The name of the downgraded module (if any) that the component belongs to, as returned by a call to `downgradeModule()`. It is the module, whose corresponding Angular module will be bootstrapped, when the component needs to be instantiated.
- `<br/>

- `finalModuleInjector`: `NgModule`'s injector as `finalModuleInjector`.
- `finalParentInjector`: `parentInjector` as `finalParentInjector` and this downgraded `finalParentInjector`.
- `hasMultipleDowngradedModules`: Whether to perform `{@link ChangeDetectorRef#detectChanges} on the component on every [$digest](https://docs.angularjs.org/api/ng/type/$rootScope.Scope#$digest). If set to `false`, change detection will still be performed when any of the component's inputs changes.

- `bootstrap the downgraded
- `moduleInjector = lazyModuleRef.injector || lazyModuleRef.promise;

- `typeName(info.component) + \

- `isNgUpgradeLite = getUpgradeAppType($injector) === 3 /* Lite */;
- `var wrapCallback = !isNgUpgradeLite ? function (cb) { return cb; } : function (cb) { return function () { return \

- `isNgUpgradeLite && (getDowngradedModuleCount($injector) > 1);
- `link: function (scope, element, attrs, required) {
- `var moduleInjector = undefined;
- `var lazyModuleRef = Sinjector.get(lazyModuleRefKey);
- `moduleInjector = lazyModuleRef.injector || lazyModuleRef.promise;

- `Notes:
- `// - We need to ensure callbacks to Angular APIs (e.g. change detection) are run inside the Angular zone.
- `// - We need to attach the component view to the `ApplicationRef` for it to be

- `//: The name of the downgraded module (if any) that the component
- "downgradedModule?": true,
- `// required: [REQUIRE_INJECTOR, REQUIRE_NG_MODEL],

- `function (cb) { return cb; };
- `var ngModel = required[1];
- `if (!parentInjector || hasMultipleDowngradedModules) {
- `var lazyModuleRefKey = \\

- `downgradeComponent(info) {
- `directiveFactory = function ($compile, 

- `there are two injectors: `finalModuleInjector` and `finalParentInjector` (they might be the same instance, but that is irrelevant);` 

- `// - we need to handle certain things specially. For example:
- `// - We always need to attach the component view to the `ApplicationRef` for it to be

- `// - `parentInjector` is not an Angular injector, it is only for convenience; (and it might be
- `// - `finalParentInjector` is used for all other injection purposes.

- `// - if there is no parent component (thus no `parentInjector`), we bootstrap the
downgraded
- `// - if there is a parent component, but it may belong to a different

- `// - if there is a parent component, but it may belong to a different
- `// - declaring `NgModule`'s injector as `finalModuleInjector`.

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- `// - if there is a parent component, but it may belong to a different
- `// - declaring `NgModule`'s injector as `finalModuleInjector`.
the 'NgModule' is already bootstrapped, we just get its injector (we don't bootstrap again).

// Note 2: It is possible that (while there are multiple downgraded modules) this
// downgraded component and its parent component both belong to the same NgModule.
// In that case, we could have used the 'parentInjector' as both 'finalModuleInjector' and
'finalParentInjector', but (for simplicity) we are treating this case as if they belong to different
'NgModule's. That doesn't really affect anything, since 'parentInjector' has 'moduleInjector'
as ancestor and trying to resolve 'ComponentFactoryResolver' from either one will return
// the same instance.
// If there is a parent component, use its injector as parent

var finalParentInjector = parentInjector || moduleInjector;
// If this is a "top-level" Angular component or
the parent component may belong to a different 'NgModule', use the module injector for module-specific dependencies.
// If there is a parent component that belongs to the same 'NgModule', use its

var finalModuleInjector = moduleInjector || parentInjector;
var doDowngrade = function (injector, moduleInjector) {
// Retrieve 'ComponentFactoryResolver' from the injector tied to the 'NgModule'

// component belongs to.
var componentFactoryResolver = moduleInjector.get(core.ComponentFactoryResolver);

var componentFactory = componentFactoryResolver.resolveComponentFactory(info.component);
if (!componentFactory) {
    throw new Error("Expecting ComponentFactory for: " + getTypeName(info.component));
}

var injectorPromise = new ParentInjectorPromise(element);

var facade = new DowngradeComponentAdapter(element, attrs, scope, ngModel, injector, $injector, $compile, $parse,
componentFactory, wrapCallback);

var projectableNodes = facade.compileContents();

facade.createComponent(projectableNodes);

facade.setupInputs(isNgUpgradeLite, componentFactoryResolver.resolveComponentFactory(info.component));

// digest and initial input values will not be detected.
scope.$evalAsync(function () {
    });

var doDowngradeFn = isNgUpgradeLite ? doDowngrade : function (pInjector, mInjector) {
    if (!ngZone)
        throw new Error("Expecting ComponentFactory for: " + getTypeName(info.component));

    var injectors, ngZone = pInjector.get(core.NgZone);

    facade.setupOutputs();
    facade.registerCleanup();

    facade.createComponent(projectableNodes);
    facade.setupInputs(isNgUpgradeLite,
    componentFactoryResolver.resolveComponentFactory(info.component));

    // bracket-notion because of closure - see #14441
    directiveFactory['$inject'] = [$COMPILE, $INJECTOR,
    SPARSE];
    return directiveFactory
}

** * Synchronous promise-like object to wrap parent
injectors,
* to preserve the synchronous nature of AngularJS's $compile.
* \n var ParentInjectorPromise = /** @class */ (function (_super) {
    __extends(ParentInjectorPromise, _super);
    function ParentInjectorPromise(element) {
        var _this = _super.call(this) || this;

        _this.element = element;
        _this.injectorKey = controllerKey(INJECTOR_KEY);

        // Store the promise on the element.
        element.data(_this.injectorKey, _this);
        return _this;
    }

    /**
     * @description
     *
     * A helper function to allow an Angular
service to be accessible from AngularJS.

*Part of the [upgrade/static](api?query=upgrade%2Fstatic) library for hybrid upgrade apps that support AOT compilation*

This helper function returns a factory function that provides access to the Angular service identified by the `token` parameter.

```javascript
@usageNotes
### Examples
First ensure that the service to be downgraded is provided in an `@NgModule` that will be part of the upgrade application. For example, let's assume we have

```typescript
@HeroesService

* Inside an AngularJS component's controller we can get hold of the `HeroesService` module that provides it is instantiated. In order to be safe, you need to ensure that the `HeroesService` module is not used anywhere outside the part of the app where it is

guaranteed that their module has been instantiated. For example, it is _OK_ to use a downgraded service in an upgraded component that is only used from a downgraded Angular component provided by the same Angular module as the injectable, but it is _not OK_ to use it in an AngularJS component that may be used independently of Angular or use it in a downgraded Angular component from a different module.

```typescript
* @param token an `InjectionToken` that identifies a service provided from Angular.
* @param downgradedModule the name of the downgraded module (if any) that the injectable "belongs to",
* (This option is only necessary when using `downgradeModule()` to downgrade more than one Angular module.)

returns a [factory function](https://docs.angularjs.org/guide/di) that can be used to register the service on an AngularJS module. If (downgradedModule !== void 0) {
  downgradeInjectable(token, downgradedModule)
}
```

```typescript
var factory = function ($injector) {
  var injectorKey = "\" + INJECTOR_KEY +\" + J\n
  var attemptedAction = "instantiating injectable '" + injectableName + "'";

  validateInjectionKey($injector, downgradedModule, injectorKey, attemptedAction);
  var injector = $injector.get(injectorKey);
  return injector.get(token);
};
```

Classes

```typescript
UpgradeHelper = /** @class */ (function () {
  function UpgradeHelper(injector, name, elementRef, directive) {
    this.injector = injector;
    this.name = name;
    this.$injector = injector.get($INJECTOR);
    this.$compile = this.$injector.get($COMPILE);
    this.$controller = this.$injector.get($CONTROLLER);
    this.$element = elementRef.nativeElement;
    this.directive = directive || UpgradeHelper.getDirective(this.$injector, name);
  }
```

```typescript
UpgradeHelper.getDirective = function ($injector, name) {
  var directives = $injector.get(name + 'Directive');
  if (directives.length > 1) {
    throw new Error("Only support single directive definition for: \" + name +\" \n
```

```typescript
 UpgradeHelper.getTemplate = function (Sinjector, directive, fetchRemoteTemplate, $element) {
```

```typescript
 Classes

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```

```typescript
 var directive = directive || UpgradeHelper.getDirect}
function getOrCall(directive.template, $element) {
    var $templateCache_1 = $injector.get($TEMPLATE_CACHE);
    var template = $templateCache_1.get(url_1);
    if (template !== undefined) {
        return template;
    }
    else if (!fetchRemoteTemplate) {
        throw new Error('loading directive templates asynchronously is not supported');
    }
    return new Promise(function (resolve, reject) {
        var $httpBackend = $injector.get($HTTP_BACKEND);
        $httpBackend('GET', url_1, null, function (status, response) {
            if (status === 200) {
                resolve($templateCache_1.put(url_1, response));
            }
            else {
                reject("GET component template from '" + url_1 + "' returned '" + status + ": " + response + "'");
            }
        });
    });
}

UpgradeHelper.prototype.buildController = function (controllerType, $scope) {
    // TODO: Document that we do not pre-assign bindings on the controller instance.
    // Quoted properties below so that this code can be optimized with Closure Compiler.
    var locals = { '$scope': $scope, '$element': this.$element }; // var controller = this.$controller(controllerType, locals, null, this.directive.controllerAs);
    this.$element.data(controllerKey(this.directive.name), controller);
    return controller;
}

UpgradeHelper.prototype.compileTemplate = function (template) {
    if (template === undefined) {
        template = UpgradeHelper.getTemplate(this.$injector, this.directive, false, this.$element);
    }
    return this.compileHtml(template);
}

UpgradeHelper.prototype.onDestroy = function ($scope, controllerInstance) {
    if (controllerInstance && isFunction(controllerInstance.$onDestroy)) {
        controllerInstance.$onDestroy();
    }
    $scope.$destroy();
    // Clean the jQuery/jqLite data
    // `cleanData` will invoke the AngularJS `$destroy` DOM event
    // `cleanData` will invoke the AngularJS `$destroy` DOM event
    element.cleanData([this.element]);
    element.cleanData(this.element.querySelectorAll('*'));
}

UpgradeHelper.prototype.prepareTransclusion = function () {
    var _this = this;
    var transclude = this.directive.transclude;
    var contentChildNodes = this.extractChildNodes();
    var attachChildrenFn = function (scope, cloneAttachFn) {
        // Since AngularJS v1.5.8, `cloneAttachFn` will try to destroy the transclusion scope if
        // `$template` is empty. Since the transcluded content comes from Angular, not AngularJS,
        // there will be no transclusion scope here.
        // Provide a dummy
        // `scope.$destroy()` method to prevent `cloneAttachFn` from throwing.
        scope = scope || { $destroy: function () { return undefined; } };
        return cloneAttachFn($template, scope);
    };
    var $template = contentChildNodes;
    if (transclude) {
        var slots_1 = Object.create(null);
        var filledSlots_1 = Object.create(null);
        Object.keys(transclude).forEach(function (slotName) {
            var selector = transclude[slotName];
            var optional = selector.charAt(0) === '?';
            selector = optional ? selector.substring(1) : selector;
            slots_1[slotName] = null; // `null`: Defined but not yet filled.
            filledSlots_1[slotName] = optional; // Consider optional slots as filled.
        });
        $template = contentChildNodes;
        if (transclude) {
            var slots_1 = Object.create(null);
            var filledSlots_1 = Object.create(null);
            // Parse the element selectors:
            Object.keys(transclude).forEach(function (slotName) {
                var selector = transclude[slotName];
                var optional = selector.charAt(0) === '?';
                selector = optional ? selector.substring(1) : selector;
                slots_1[slotName] = null; // "null": Defined but not yet filled.
                filledSlots_1[slotName] = optional; // Consider optional slots as filled.
            });
            // Add the matching elements into their slot:
            contentChildNodes.forEach(function (node) {
                var slotName = slotMap_1[directiveNormalize(node.nodeName.toLowerCase())];
                if (slotName) {
                    filledSlots_1[slotName] = true;
                    slots_1[slotName] = slots_1[slotName] || [];
                    slots_1[slotName].push(node);
                }
                else {
                    $template.push(node);
                }
            });
        } // if (transclude)
    } // if (transclude)
};

if (directive.template) {
    return getOrCall(directive.template, $element);
} else if (directive.templateUrl) {
    var $templateCache_1 = $injector.get($TEMPLATE_CACHE);
    var url_1 = getOrCall(directive.templateUrl, $element);
    if (template !== undefined) {
        return template;
    }
    else if (!fetchRemoteTemplate) {
        throw new Error('loading directive templates asynchronously is not supported');
    }
    return new Promise(function (resolve, reject) {
        var $httpBackend = $injector.get($HTTP_BACKEND);
        $httpBackend('GET', url_1, null, function (status, response) {
            if (status === 200) {
                resolve($templateCache_1.put(url_1, response));
            }
            else {
                reject("GET component template from '" + url_1 + "' returned '" + status + ": " + response + "'");
            }
        });
    });
} else {
    throw new Error("Directive '" + directive.name + "' is not a component, it is missing template.");
}
function isMap(value) {
    return value && !Array.isArray(value) && typeof value === 'object';
}

function notSupported(name, feature) {
    throw new Error("Upgraded directive \\
    \"+name+\" contains unsupported feature: \\
    \"+feature+\"\\n    \n    */ ** @license */ Copyright Google Inc. All Rights Reserved\n    * Use of this source code is governed by an MIT-style license that can be \n    * found in the LICENSE file at https://angular.io/license\n    \n    var INITIAL_VALUE$1 = (!UNINITIALIZED_\n    // true\n    \n    var NOT_SUPPORTED = 'NOT_SUPPORTED';\n    \n    UpgradeNg1ComponentAdapterBuilder = /** @class */ (function () {\n        function UpgradeNg1ComponentAdapterBuilder(name) {\n            this.name = name;\n            this.inputs = [];\n            this.inputsRename = [];\n            this.outputs = [];\n            this.outputsRename = [];\n            this.propertyOutputs = [];\n            this.propertyMap = {};\n            this.directive = null;\n            var selector = name.replace(CAMEL_CASE, function (all, next) { return '-' + next.toLowerCase(); });\n            var self = this;\n            // Note: There is a bug in TS 2.4 that prevents us from\n            //    // TODO(tbosch): find or file a bug against TypeScript for this.\n            var btcIsObject = typeof this.directive.bindToController === 'object';\n            if (btcIsObject && Object.keys(this.directive.scope).length) {\n                throw new Error("Binding definitions on scope and controller\n                at the same time are not supported.\n                ");\n            }\n            var context = (btcIsObject) ? this.directive.bindToController : this.directive.scope;\n            if (typeof context == 'object') {\n                Object.keys(context).forEach(function (propName) {\n                    var definition = context[propName];\n                    var bindingType = definition.charAt(0);\n                    var bindingOptions = definition.charAt(1);\n                    var attrName = definition.substring(bindingOptions === '?' ? 2 : 1) || propName;\n                    switch (bindingType) {\n                        case '@': case '<':\n                            this.inputs.push('input_' + attrName);\n                            this.inputsRename.push('input_' + propName);\n                            this.propertyMap['input_' + propName] = propName;\n                            break;\n                        case '=':\n                            this.inputs.push('input_' + attrName);\n                            this.inputsRename.push('input_' + propName);\n                            this.propertyMap['input_' + propName] = propName;\n                            this.outputs.push('output_' + propName);\n                            this.outputsRename.push('output_' + propName + 'Change');\n                            this.checkProperties.push(propName);\n                            this.propertyOutputs.push('output_' + propName);\n                            break;\n                        case '&':\n                            this.outputs.push('output_' + propName);\n                            this.outputsRename.push('output_' + propName);\n                            this.propertyMap['output_' + propName] = propName;\n                            break;\n                        default:\n                            var json = JSON.stringify(context);\n                            throw new Error("Unexpected mapping \"\n                            \"+bindingType +\n                            \n                            \n                            \n                            \n                            */

    **/
exportedComponents[name];
exportedComponent.directive = UpgradeHelper.getDirective($injector, name);
exportedComponent.extractBindings();
return Promise
.resolve(UpgradeHelper.getTemplate($injector, exportedComponent.directive, true)).then(function (template) { return exportedComponent.template = template; });
}
return Promise.all(promises);
return UpgradeNg1ComponentAdapterBuilder;
}

var UpgradeNg1ComponentAdapter = /** @class */ (function () {
    function UpgradeNg1ComponentAdapter(helper, scope, template, inputs, outputs, propOuts, checkProperties, propertyMap) {
        this.helper = helper;
        this.template = template;
        this.inputs = inputs;
        this.outputs = outputs;
        this.propOuts = propOuts;
        this.checkProperties = checkProperties;
        this.propertyMap = propertyMap;
        this.controllerInstance = null;
        this.destinationObj = null;
        this.checkLastValues = [];
        this.element = helper.element;
        this.$element = helper.$element;
        this.componentScope = scope.$new(!!this.directive.scope);
        var controllerType = this.directive.controller;
        if (this.directive.bindToController && controllerType) {
            this.controllerInstance = this.helper.buildController(controllerType, this.componentScope);
            this.destinationObj = this.controllerInstance;
        } else {
            this.destinationObj = this.componentScope;
        }
        for (var i = 0; i < inputs.length; i++) {
            this[inputs[i]] = null;
        }
        for (var j = 0; j < outputs.length; j++) {
            var emitter = this[outputs[j]] = new core.EventEmitter();
            if (this.propOuts.indexOf(outputs[j]) === -1) {
                this.setComponentProperty(outputs[j], (function (emitter) { return function (value) { return emitter.emit(value); }; })(emitter));
            }
        }
        for (var k = 0; k < propOuts.length; k++) {
            this.checkLastValues.push(INITIAL_VALUE$1);
        }
    }

    UpgradeNg1ComponentAdapter.prototype.ngOnInit = function () {
        var attachChildNodes = this.helper.prepareTransclusion();
        var linkFn = this.helper.compileTemplate(this.template);
        var controllerType = this.directive.controller;
        var bindToController = this.directive.bindToController;
        if (controllerType && !bindToController) {
            this.controllerInstance = this.helper.buildController(controllerType, this.componentScope);
        } else {
            this.controllerInstance = this.componentScope;
        }
        if (isFunction(this.controllerInstance.$onInit)) {
            this.controllerInstance.$onInit();
        }
        var link = this.directive.link;
        var preLink = typeof link == 'object' && link.pre;
        var postLink = typeof link == 'object' ? link.post : link;
        var attrs = NOT_SUPPORTED;
        var transcludeFn = NOT_SUPPORTED;
        if (preLink) {
            preLink(this.componentScope, this.$element, attrs, requiredControllers, transcludeFn);
        }
        linkFn(this.componentScope, null, { parentBoundTranscludeFn: attachChildNodes });
        if (postLink) {
            postLink(this.componentScope, this.$element, attrs, requiredControllers, transcludeFn);
        }
    };
    UpgradeNg1ComponentAdapter.prototype.ngOnChanges = function (changes) {
        var _this = this;
        var ng1Changes = {};
        Object.keys(changes).forEach(function (name) {
            var change = changes[name];
            _this.setComponentProperty(name, change.currentValue);
            ng1Changes[_this.propertyMap[name]] = change;
        });
        if (isFunction(this.destinationObj.$onChanges)) {
            this.destinationObj.$onChanges(ng1Changes);
        }
    };
    UpgradeNg1ComponentAdapter.prototype.ngDoCheck = function () {
        var destinationObj = this.destinationObj;
        var lastValues = this.checkLastValues;
        var checkProperties = this.checkProperties;
        var propOuts = this.propOuts;
        checkProperties.forEach(function (propertyName, i) {
            var value = destinationObj[propertyName];
            if (!strictEquals(lastValues[i], value)) {
                var eventEmitter = _this[propOuts[i]];
                eventEmitter.emit(lastValues[i] = value);
            }
        });
    };
    return UpgradeNg1ComponentAdapter;
}();

var UpgradeNg1ComponentAdapter(helper, scope, template, inputs, outputs, propOuts, checkProperties, propertyMap) {
    this.helper = helper;
    this.template = template;
    this.inputs = inputs;
    this.outputs = outputs;
    this.propOuts = propOuts;
    this.checkProperties = checkProperties;
    this.propertyMap = propertyMap;
    this.controllerInstance = null;
    this.destinationObj = null;
    this.checkLastValues = [];
    this.element = helper.element;
    this.$element = helper.$element;
    this.componentScope = scope.$new(!!this.directive.scope);
    var controllerType = this.directive.controller;
    if (this.directive.bindToController && controllerType) {
        this.controllerInstance = this.helper.buildController(controllerType, this.componentScope);
        this.destinationObj = this.controllerInstance;
    } else {
        this.destinationObj = this.componentScope;
    }
    for (var i = 0; i < inputs.length; i++) {
        this[inputs[i]] = null;
    }
    for (var j = 0; j < outputs.length; j++) {
        var emitter = this[outputs[j]] = new core.EventEmitter();
        if (this.propOuts.indexOf(outputs[j]) === -1) {
            this.setComponentProperty(outputs[j], (function (emitter) { return function (value) { return emitter.emit(value); }; })(emitter));
        }
    }
    for (var k = 0; k < propOuts.length; k++) {
        this.checkLastValues.push(INITIAL_VALUE$1);
    }
    var attachChildNodes = this.helper.prepareTransclusion();
    var linkFn = this.helper.compileTemplate(this.template);
    var requiredControllers = this.helper.resolveAndBindRequiredControllers(this.controllerInstance);
    var controllerType = this.directive.bindToController;
    if (controllerType && !bindToController) {
        var bindToController = this.directive.bindToController;
        this.controllerInstance = this.helper.buildController(controllerType, this.componentScope);
        this.destinationObj = this.controllerInstance;
    } else {
        this.destinationObj = this.componentScope;
    }
    if (isFunction(this.destinationObj.$onChanges)) {
        this.destinationObj.$onChanges(ng1Changes);
    }
    var link = this.directive.link;
    var preLink = typeof link == 'object' && link.pre;
    var postLink = typeof link == 'object' ? link.post : link;
    var attrs = NOT_SUPPORTED;
    var transcludeFn = NOT_SUPPORTED;
    if (preLink) {
        preLink(this.componentScope, this.$element, attrs, requiredControllers, transcludeFn);
    }
    linkFn(this.componentScope, null, { parentBoundTranscludeFn: attachChildNodes });
    if (postLink) {
        postLink(this.componentScope, this.$element, attrs, requiredControllers, transcludeFn);
    }
};

// Hook: $onInit
if (this.controllerInstance && isFunction(this.controllerInstance.$onInit)) {
    this.controllerInstance.$onInit();
}

// Linking
var var link = this.directive.link;
var preLink = typeof link == 'object' && link.pre;
var postLink = typeof link == 'object' ? link.post : link;
var attrs = NOT_SUPPORTED;
var transcludeFn = NOT_SUPPORTED;
if (preLink) {
    preLink(this.componentScope, this.$element, attrs, requiredControllers, transcludeFn);
}
linkFn(this.componentScope, null, { parentBoundTranscludeFn: attachChildNodes });
if (postLink) {
    postLink(this.componentScope, this.$element, attrs, requiredControllers, transcludeFn);
}

// Hook: $postLink
if (this.controllerInstance && isFunction(this.controllerInstance.$postLink)) {
    this.controllerInstance.$postLink();
}

// Hook: $onChanges
var ng1Changes = {};
Object.keys(changes).forEach(function (name) {
    var change = changes[name];
    this.setComponentProperty(name, change.currentValue);
    ng1Changes[_this.propertyMap[name]] = change;
});
if (isFunction(this.destinationObj.$onChanges)) {
    this.destinationObj.$onChanges(ng1Changes);
}

// Hook: $doCheck
var destinationObj = this.destinationObj;
var lastValues = this.checkLastValues;
var checkProperties = this.checkProperties;
var propOuts = this.propOuts;
checkProperties.forEach(function (propertyName, i) {
    var value = destinationObj[propertyName];
    if (!strictEquals(lastValues[i], value)) {
        var eventEmitter = _this[propOuts[i]];
        eventEmitter.emit(lastValues[i] = value);
    }
});
if (this.controllerInstance &&
isFunction(this.controllerInstance.$doCheck)) {
        this.controllerInstance.$doCheck();
    }
}

UpgradeNg1ComponentAdapter.prototype.ngOnDestroy = function () {
    this.helper.onDestroy(this.componentScope, this.controllerInstance);
};

UpgradeNg1ComponentAdapter.prototype.setComponentProperty = function (name, value) {
    this.destinationObj[this.propertyMap[name]] = value;
}

return UpgradeNg1ComponentAdapter;
})();

/**
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 */

upgradeCount = 0;

/**
 * Use `UpgradeAdapter` to allow AngularJS and Angular to coexist in a single application.
 * The `UpgradeAdapter` allows:
 * 1. creation of Angular component from AngularJS component directive
 * (See [UpgradeAdapter#upgradeNg1Component()]).
 * 2. creation of AngularJS directive from Angular component.
 * (See [UpgradeAdapter#downgradeNg2Component()]).
 * 3. Bootstrapping of a hybrid Angular application which contains both of the frameworks coexisting in a single application.
 * When reasoning about how a hybrid application works it is useful to have a mental model which describes what is happening and explains what is happening at the lowest level.
 * There are two independent frameworks running in a single application, each framework treats the other as a black box. Each DOM element on the page is owned exactly by one framework. Whichever framework instantiated the element is the owner. Each framework only updates/interacts with its own DOM elements and ignores others.
 * AngularJS directives always execute inside AngularJS framework codebase regardless of where they are instantiated.
 * Angular components always execute inside Angular framework codebase regardless of where they are instantiated.
 * An AngularJS component can be upgraded to an Angular component. This creates a
 * Angular directive, which bootstraps the AngularJS component directive in that location.
 * An Angular component can be downgraded to an AngularJS component directive. This creates an AngularJS directive, which bootstraps the Angular component in that location.
 * Whenever an adapter component is instantiated the host element is owned by the framework doing the instantiation. The other framework then instantiates and owns the view for that component. This implies that component bindings will always follow the semantics of the instantiation framework. The syntax is always that of Angular syntax.
 * AngularJS is always bootstrapped first and owns the bottom most view.
 * The new application is running in Angular zone, and therefore it no longer needs calls to
 * `Sapply()`.### Example
 * const adapter = new UpgradeAdapter(forwardRef(() => MyNg2Module), myCompilerOptions);
 * const module = angular.module('myExample', []);
 * module.directive('ng2Comp', function() {
 *     return {
 *         scope: { title: '=' },
 *         template: 'ng2[<ng1-hello [title]="title"]>transclude</ng1-hello>(<ng-content></ng-content>)',
 *         directives: ["ng2-comp", "ng2-hello"]
 *     }
 * });
 * class MyNg2Module {
 *     constructor() {
 *         this.ng2AppModule = ng2AppModule;
 *     }
 * }
 * class Ng2Component {
 *     constructor() {
 *         this.ng2AppModule = ng2AppModule;
 *         this.ng2AppModule = ng2AppModule;
 *     }
 * }
 * @NgModule({
 *     declarations: [Ng2Component, adapter.upgradeNg1Component('ng1Hello')],
 *     imports: [BrowserModule]
 * })
 * class MyNg2Module {
 *     constructor() {
 *         document.body.innerHTML = '<ng2-comp name="World" project="ng2-comp">project</ng2-comp>';
 *     }
 *     bootstrap(document.body, [myExample]).ready(function() {
 *         expect(document.body.textContent).toBe('World!');</ng2-comp>
 *     });
 * }
 * @publicApi
 * @ngInject
 * @class
 * @function
 * UpgradeAdapter(ng2AppModule, compilerOptions)
 */

this.idPrefix = 'NG2_UPGRADE_' + upgradeCount++ + '_';

this.downgradedComponents = [];

An internal map of ng1 components which need to be upgraded to ng2.

* We can't upgrade until injector is instantiated and we can retrieve the component metadata.

* For this reason we keep a list of components to upgrade until ng1 injector is
`@usageNotes

### Mental Model

1. The component is instantiated by being listed in AngularJS template. This means that the host element is controlled by AngularJS, but the component's view will be controlled by AngularJS.
2. Even thought the component is instantiated in AngularJS, it will be using Angular syntax. This has to be done this way because we must follow Angular components do not declare how the attributes should be interpreted.
3. `ng-model` is controlled by AngularJS and communicates with the downgraded Angular component by way of the `ControlValueAccessor` interface from @angular/forms. Only components that implement this interface are eligible.

### Supported Features

- **Bindings:**
  - Attribute: `<comp name="World"` `>`
  - Interpolation: `<comp greeting="Hello {{name}}"` `>`
  - Expression: `<comp [name]="username"` `>`
  - Event: `<comp (close)="doSomething()"` `>`
  - `ng-model`:
    - Content projection: yes
    - `### Example`
      * *const adapter = new UpgradeAdapter(forwardRef(() => MyNg2Module));*
      * *const module = angular.module('myExample', []).ready(function() {*
      * *expect(document.body.textContent).toEqual("ng1 template: Hello world! - text";
  - Transclusion: yes

- **Interpolation:**
  - `<comp greeting="Hello {{name}}"` `>`
  - Expression: `<comp [name]=="username"` `>`

- **Supported Features:**
  - **ControlValueAccessor** interface from @angular/forms. Only components that implement this interface are eligible.
  - **Directive Definition Object** ([https://docs.angularjs.org/api/ng/service/SCompile](https://docs.angularjs.org/api/ng/service/SCompile):) are supported.
  - `controllerAs`: not supported because the host element is owned by Angular, which does not allow modifying DOM structure during compilation.
  - `controller`: supported. (NOTE: injection of `$attrs` and `$transclude` is not supported.)
  - `bindToController`: supported.
  - `link`: supported. (NOTE: only pre-link function is supported.)
  - `name`: supported.
  - `priority`: ignored
  - `replace`: not supported
  - `require`: supported
  - `restrict`: must be set to 'E'
  - `scope`: supported
  - `template`: supported
  - `templateUrl`: supported
  - `terminal`: ignored
  - `transclude`: supported

- **Example**
  - *const adapter = new UpgradeAdapter(forwardRef(() => MyNg2Module));*
  - *const module = angular.module('myExample', []).`
UpgradeAdapter.prototype.bootstrap = function (element$1, modules, config) {
    var _this = this;
    this.declareNg1Module(modules);
    var upgrade = new UpgradeAdapterRef();
    // Make sure resumeBootstrap() only exists if the current bootstrap is deferred
    var windowAngular = window /** TODO */
    ['angular'];
    windowAngular.resumeBootstrap = undefined;
    this.ngZone.run(function () {
        var originalResumeBootstrap_1 = windowAngular.resumeBootstrap;
        windowAngular.resumeBootstrap = function () {
            windowAngular.resumeBootstrap = originalResumeBootstrap_1;
            var r = windowAngular.resumeBootstrap.apply(this, arguments);
            return r;
        };
    });
    if (windowAngular.resumeBootstrap) {
        var _a = __read(_a, 1), ng1Injector = _a[0];
        element(element$1).data(controllerKey(INJECTOR_KEY),
        _this.moduleRef.injector);
        _this.moduleRef.injector.get(core.NgZone).run(function () {
            upgrade._bootstrapDone(_this.moduleRef, ng1Injector);
        });
    }
    var _b = __read(_b, 1), ng1BootstrapPromise = _b[0];
    var ng1Module = this.ng1Module;
    var _c = __read(_c, 1), ng2Injector = _c[0];
    element(element$1).data(controllerKey(INJECTOR_KEY),
    _this.moduleRef.injector.get(core.Injector));
    var moduleRef = _this.moduleRef;
    var ng1BootstrapPromise = ng1BootstrapPromise;
    var rootScopePrototype = rootScope.prototype;
    var rootScope = rootScopePrototype;
function (provide, ng1Injector) {
  provide.decorator(SROOT_SCOPE, { provide: 'Sdelegate',
                      function (rootScopeDelegate) {
                        // Capture the root apply so that we can delay first call to $apply until we
                        $apply // bootstrap Angular and then we replay and restore the $apply.
                        rootScopePrototype = rootScopeDelegate.constructor.prototype;
                        if (rootScopePrototype.hasOwnProperty('Sapply')) {
                          originalSapplyFn =
                          rootScopePrototype.Sapply = function (exp) { return delayApplyExps.push(exp); };
                          else { throw new Error('Failed to find $apply on $rootScope!'); }
                        }
                        ng1Module.run(['$injector', '$rootScope',
                          function (ng1Injector, rootScope) {
                            UpgradeNg1ComponentAdapterBuilder.resolve(_this.ng1ComponentsToBeUpgraded, ng1Injector).then(function () {
                              // Note: There is a bug in TS 2.4 that prevents us from
                              // inlining this into @NgModule
                              // TODO(tbosch): find or file a bug against TypeScript for this.
                          var ngModule = {
                            providers: [
                              { provide: '$injector', useFactory: function () { return ng1Injector; } },
                              { provide: '$compile', useFactory: function () { return ng1Injector.get('$compile'); } },
                              _this.upgradedProviders
                            ],
                            imports: [core.resolveForwardRef(_this.ng2AppModule)],
                            entryComponents: _this.downgradedComponents
                          }; // At this point we have ng1 injector and we have
                          prepared
                          // ng1 components to be upgraded, we now can bootstrap ng2.
                          var DynamicNgUpgradeModule = /** @class */ (function () {
                            function DynamicNgUpgradeModule() {
                            }
                            DynamicNgUpgradeModule.prototype.ngDoBootstrap = function () {
                            }
                            DynamicNgUpgradeModule = __decorate([core.NgModule(__assign({ jit: true },
                              ngModule))], DynamicNgUpgradeModule);
                            return DynamicNgUpgradeModule;
                          }());
                          platformRef
                          .bootstrapModule(DynamicNgUpgradeModule, [this.compilerOptions, {
                          ngZone: _this.ngZone }]);
                          _this.ngZone.run(function (ref) {
                            _this.moduleRef = ref;
                          });
                          rootScopePrototype.Sapply = originalSapplyFn; // restore original Sapply
                          while (delayApplyExps.length) {
                          rootScope.$apply(delayApplyExps.shift());
                          }
                        });
                        ng1Module.run(['$injector', '
                          function (rootScopeDelegate) {
                          // Cannot use arrow function below because we need the context
                          var newWhenStable =
                          function (callback) {
                          originalWhenStable.call(this, function () {
                          var ng2Testability = upgradeAdapter.moduleRef.injector.get(core.Testability);
                          if (ng2Testability.isStable()) {
                          callback.apply(this, arguments);
                          }
                        
                          return testabilityDelegate.whenStable(newWhenStable.bind(this, callback));
                        
                          ng1Module.run(['$injector', '$rootScope',
                          function (ng1Injector, rootScope) {
                          Upgr
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```

/**
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 * the LICENSE file at https://angular.io/license
 */

export type Ng1Token = string;

export type Ng1Expression = string | Function;

export interface IAnnotatedFunction extends Function {
  $inject?: string[];
}

export type Injectable = (Ng1Token | Function)[
] | IAnnotatedFunction;

export type SingleOrListOrMap<T> = T | T[] | {
[key: string]: T;
}

export interface IModule {
  name: string;
  requires: (string|Injectable)[
];
  config(fn: Injectable): IModule;
  directive(selector: string, factory: Injectable): IModule;
  component(selector: string, component: Injectable): IModule;
  controller(name: string, type: Injectable): IModule;
  factory(key: Ng1Token, factory: Injectable): IModule;
  value(key: Ng1Token, value: any): IModule;
  constant(token: Ng1Token, value: any): IModule;
  run(a: Injectable): IModule;
}

export interface ICompileService {
  (element: Element|NodeList|Node[]|string, transclude?: Function): ILinkFn;
}

export interface ILinkFn {
  (scope: IScope, cloneAttachFn?: ICloneAttachFunction, options?: ILinkFnOptions): IAugmentedJQuery;
  $$slots?: {
[key: string]: Injectable;
}
}

export interface ILinkFnOptions {
  parentBoundTranscludeFn?: Function;
  transcludeControllers?: {
[key: string]: Injectable;
}
}

export interface IRootScopeService {
  $new(isolate?: boolean): IScope;
  $id: string;
  $parent: IScope;
  $$childTail: IScope;
  $$childHead: IScope;
  $$nextSibling: IScope;
  [key: string]: Injectable;
}

export interface IScope extends IRootScopeService {}

export interface IDirective {
  compile?: IDirectiveCompileFn;
  controller?: IController;
  controllerAs?: string;
  bindToController?: boolean|
}[
[key: string]: Injectable;
]

export interface IDirectiveCompileFn {
  (templateElement: IAugmentedJQuery, templateAttributes: IAttributes, transclude: ITranscludeFunction): IDirectivePrePost;
}

export interface IDirectivePrePost {
  pre?: IDirectiveLinkFn;
  post?: IDirectiveLinkFn;
}

export interface IDirectiveLinkFn {
  (scope: IScope, instanceElement: IAugmentedJQuery, instanceAttributes: IAttributes, instanceTransclude: ITranscludeFunction): void;
}

export interface IComponent {
  bindings?: {
[key: string]: Injectable;
}
  controller?: string|Injectable;
  controllerAs?: string;
  require?: DirectiveRequireProperty;
  template?: string|Function;
  templateUrl?: string|Function;
  transclude?: DirectiveTranscludeProperty;
}

export interface IAttributes {
  $observe(attr: string, fn: (v: string) => void): void;
  [key: string]: Injectable;
}

export interface ITranscludeFunction {
  (scope: IScope, instanceElement: Injectable, instanceAttributes: Injectable, instanceTransclude: Injectable): void;
}

export interface IDirectivePrePost {
  (pre?: IDirectiveLinkFn, post?: IDirectiveLinkFn, $new(isolate?: boolean): IScope): void;
}

export interface IRootScopeService {
  $new(isolate?: boolean): IScope;
  $id: string;
  $parent: IScope;
  $$childTail: IScope;
  $$childHead: IScope;
  $$nextSibling: IScope;
  [key: string]: Injectable;
}
```

```
data?: (name: string, value?: any) => any;

//...
```typescript
import {Injector, Type} from '@angular/core';

import {IInjectorService, INgModelController} from './angular1';
import {DOWNGRADED_MODULE_COUNT_KEY, UPGRADE_APP_TYPE_KEY} from './constants';

const DIRECTIVE_PREFIX_REGEXP = /^\(?\S*:\S*\)/i;
const DIRECTIVE_SPECIAL_CHARS_REGEXP = /[\-_.]+(.)/g;

export function onError(e: any) {
  // TODO: (misko): We seem to not have a stack trace here!\n  if (console.error) {
    console.error(e, e.stack);
  } else {
    // tslint:disable-next-line:no-console
    console.log(e, e.stack);
  }
  throw e;
}

export function controllerKey(name: string): string {
  return '$' + name + 'Controller';
}

export function directiveNormalize(name: string): string {
  return name.replace(DIRECTIVE_PREFIX_REGEXP, '')
      .replace(DIRECTIVE_SPECIAL_CHARS_REGEXP, (_, letter) => letter.toUpperCase());
}

export function getTypeName(type: Type<any>): string {
  // Return the name of the type or the first line of its stringified version.
  return (type as any).overriddenName || type.name || type.toString().split('\n')[0];
}

export function getDowngradedModuleCount($injector: IInjectorService): number {
  return $injector.has(DOWNGRADED_MODULE_COUNT_KEY) ? $injector.get(DOWNGRADED_MODULE_COUNT_KEY) : 0;
}

export function getUpgradeAppType($injector: IInjectorService): UpgradeAppType {
  return $injector.has(UPGRADE_APP_TYPE_KEY) ? $injector.get(UPGRADE_APP_TYPE_KEY) : UpgradeAppType.None;
}

export function isFunction(value: any): value is Function {
  return typeof value === 'function';
}

export function validateInjectionKey($injector: IInjectorService, 
    module: string, $injectorService: string, $injectorServiceType: string, 
    attemptedAction: string): void {
  $injector.invokeFunction($injector.get(INJECTOR_KEY).get('validateInjectionKey'), [
      $injector, $injectorService, $injectorServiceType, attemptedAction]);
}
```

'downgradedModule' not specified. This application contains more than one downgraded Angular module, thus you need to always specify 'downgradedModule' when downgrading components and injectables.

' downgradeModule()').');
      }
      break;
    case UpgradeAppType.Lite:
      if (!downgradedModule && downgradedModuleCount >= 2) {
        throw new Error(`Error while ${attemptedAction}:
          'downgradedModule' not specified. This application contains more than one downgraded Angular module, thus you need to always specify 'downgradedModule' when downgrading components and injectables.

          ' downgradeModule()').');
      }

      if (!$injector.has(injectionKey)) {
        throw new Error(`Error while ${attemptedAction}: Unable to find the specified downgraded module. Did you forget to downgrade an Angular module or include it in the AngularJS application?`);
      }

      break;
    default:
      throw new Error(`Error while ${attemptedAction}: Not a valid '@angular/upgrade' application. Did you forget to downgrade an Angular module or include it in the AngularJS application?`);
    }
}

export class Deferred<R> {
  promise: Promise<R>;
  resolve!: (value?: R | PromiseLike<R>) => void;
  reject!: (error?: any) => void;

  constructor() {
    this.promise = new Promise((res, rej) => {
      this.resolve = res;
      this.reject = rej;
    });
  }
}

export interface LazyModuleRef {
  injector?: Injector;
  promise?: Promise<Injector>;
}

export

const enum UpgradeAppType {
  // App NOT using `@angular/upgrade`. (This should never happen in an `ngUpgrade` app.)
  None,
  // App using the deprecated `@angular/upgrade` APIs (a.k.a. dynamic `ngUpgrade`).
  Dynamic,
  // App using `@angular/upgrade/static` with `UpgradeModule`. `Lite`,
  Static,
  // App
  using @angular/upgrade/static` with `downgradeModule()` (a.k.a `ngUpgrade-lite`).
  Lite,
}

/**
 * @return Whether the passed-in component implements the subset of the `ControlValueAccessor` interface needed for AngularJS `ng-model` compatibility.
 * @function supportsNgModel(component: any) { return typeof component.writeValue !== 'undefined' && typeof component.registerOnChange !== 'undefined'; }
 * Glue the AngularJS `NgModelController` (if it exists) to the component (if it implements the needed subset of the `ControlValueAccessor` interface).
 * @function hookupNgModel(ngModel: INgModelController, component: any) { if (ngModel && supportsNgModel(component)) {
    ngModel.$render = () => component.writeValue(ngModel.$viewValue);
    if (typeof ngModel.$setViewValue === 'function') {
      component.registerOnChange(ngModel.$setViewValue.bind(ngModel));
    }
  }

  /**
   * Test two values for strict equality, accounting for the fact that `NaN !== NaN`.
   */
  export function strictEquals(val1: any, val2: any): boolean {
    return val1 === val2 || (val1 !== val1 && val2 !== val2);
  }

  import {ApplicationRef, ChangeDetectorRef,
         ComponentFactory, ComponentRef, EventEmitter,
         Injectable, Input, OnInit, OnChanges, SimpleChanges,
         StaticProvider, Testability, TestabilityRegistry, Type} from '@angular/core';

  import {IAttributes, IAugmentedJQuery, ICompileService, IInjectorService, INgModelController, IParseService, IScope} from './angular1';
  import {PropertyBinding} from './component_info';

  // TODO(issue/24571): remove $SCOPE from './consts';

  get $compile() { return $compile; }

  /**
   * @license
   * Copyright 2018 Google Inc. All Rights Reserved.
   *
   * Use of this source code is governed by an MIT-style license that can be found in the LICENSE file at https://angular.io/license
   */
  angular.module('ngUpgrade', []);
(clone: Node[]) => {
  compiledProjectableNodes.push(clone);
  this.element.append !(clone);
});

return compiledProjectableNodes;
}

createComponent(projectableNodes: Node[][]) {
  const
  childInjector = Injector.create {
    providers: providers, parent: this.parentInjector, name:
    'DowngradeComponentAdapter'};
  this.componentRef = childInjector.createComponent(this.componentFactory, projectableNodes, this.element[0]);
  this.viewChangeDetector = this.componentRef.injector.get(ChangeDetectorRef);
  this.changeDetector = this.componentRef.changeDetectorRef;
  this.component = this.componentRef.instance;

  // testability hook is commonly added during component bootstrap in
  // packages/core/src/application_ref.bootstrap()
  // in downgraded application, component creation will take place here as well as adding the
  // testability hook.
  const testability = this.componentRef.injector.get(Testability, null);
  if (testability) {
    testability = this.componentRef.injector.get(TestabilityRegistry).
      registerApplication(this.componentRef.location.nativeElement, testability);
  }

  hookupNgModel(this.ngModel, this.component);
}

setupInputs(manuallyAttachView: boolean, propagateDigest = true): void {
  const
  const inputs = this.componentFactory.inputs || [];
  for (let i = 0; i < inputs.length; i++) {
    const input = new PropertyBinding(inputs[i].propName, inputs[i].templateName);
    let expr: string|null = null;

    if (attrs.hasOwnProperty(input.attr)) {
      const
        observeFn = (prop => {
          let prevValue = INITIAL_VALUE;
          return (currValue: any) => {
            // Initially, both `$observe()` and `$watch()` will call this function.
            if (!strictEquals(prevValue, currValue)) {
              if (prevValue === INITIAL_VALUE) {
                prevValue = currValue;
              }
              this.updateInput(prop, prevValue, currValue);
              prevValue = currValue;
            }
          };
        })(input.prop);
      attrs.$observe(input.attr, observeFn);

      // Use `$watch()` in addition to `$observe()` in order to initialize the input in time
      // for `ngOnChanges()`. This is necessary if we are already in a `$digest`,
      // which means that `ngOnChanges()` (which is called by a watcher) will run before the `Somonitor()`
      // callback.
      let unwatch: Function|null = this.componentScope.$watch(null => {
          unwatch !();
        unwatch = null;
      observeFn(attrs[input.attr]);
    } else if (attrs.hasOwnProperty(input.bindAttr)) {
      expr = attrs[input.bindAttr];
    } else if (attrs.hasOwnProperty(input.bracketAttr)) {
      expr = attrs[input.bracketAttr];
    } else if (attrs.hasOwnProperty(input.bindonAttr)) {
      expr = attrs[input.bindonAttr];
    } else if (attrs.hasOwnProperty(input.bracketParenAttr)) {
      expr = attrs[input.bracketParenAttr];
    }
    if (expr != null) {
      const
        watchFn = (prop => (currValue: any, prevValue: any) =>
          this.updateInput(prop, prevValue, currValue))(input.prop);
      this.componentScope.$watch(expr, watchFn);
    }
  }

  // Invoke `ngOnChanges()` and Change Detection
  if (this.implementsOnChanges) {
    this.componentScope.$watch(() => this.inputChanges, this.wrapCallback(() => {
      // Invoke `ngOnChanges()`
      if (this.implementsOnChanges) {
        (this.component).ngOnChanges(this.inputChanges);
      }
      this.viewChangeDetector.markForCheck();
      if (this.implementsOnChanges) {
        this.componentScope.$watch(this.componentScope.$viewChangeDetector.markForCheck());
      }
    }));
  }

  if (manuallyAttachView || !propagateDigest) {
    let unwatch: Function|null = this.componentScope.$watch(() => {
        unwatch !();
        unwatch = null;
      const
        appRef = this.parentInjector.get<ApplicationRef>(ApplicationRef);
      appRef.attachView(this.componentRef.hostView);
    });
  }

  setupOutputs();
  const
    attrs = this.attrs;
    const outputs = this.componentFactory.outputs || [];
  for (let j = 0; j < outputs.length; j++) {

const output = new PropertyBinding(outputs[j].propName, outputs[j].templateName);
const bindonAttr = output.bindonAttr.substring(0, output.bindonAttr.length - 6);
const bracketParenAttr = $(output.bracketParenAttr.substring(2, output.bracketParenAttr.length - 8));

this.subscribeToOutput(output, attrs[bindonAttr], true); if (attrs.hasOwnProperty(bracketParenAttr)) {
  this.subscribeToOutput(output, attrs[bracketParenAttr], true); }

private subscribeToOutput(output: PropertyBinding, expr: string, isAssignment: boolean = false) {
  const getter = this.$parse(expr);
  const setter = getter.assign;
  if (isAssignment && !setter) {
    throw new Error(`Expression '${expr}' is not assignable!`);
  }
  const emitter = this.component[output.prop] as EventEmitter<any>;
  if (emitter) {
    emitter.subscribe({
      next: isAssignment ? (v: any) => setter(this.scope, v) :
                              (v: any) => getter(this.scope, {'$event': v})
    });
  } else {
    throw new Error(`Missing emitter '${output.prop}' on component`);
  }
}

registerCleanup() {
  const testabilityRegistry = this.componentRef.injector.get(TestabilityRegistry);
  const destroyComponentRef = this.wrapCallback(() => this.componentRef.destroy());
  let destroyed = false;

  this.element.on('$destroy', () => this.componentScope.$destroy());
  this.componentScope.$on('$destroy', () => {
    if (!destroyed) {
      destroyed = true;
      testabilityRegistry.unregisterApplication(this.componentRef.location.nativeElement);
      destroyComponentRef();
    }
  });
}

groupProjectableNodes() {
  let ngContentSelectors = this.componentFactory.ngContentSelectors;
  return groupNodesBySelector(ngContentSelectors, this.element.contents());
}

export function groupNodesBySelector(ngContentSelectors: string[], nodes: Node[]): Node[][] {
  const projectableNodes: Node[][] = [];
  let wildcardNgContentIndex: number = -1;

  for (let i = 0, ii = ngContentSelectors.length; i < ii; ++i) {
    projectableNodes[i] = [];
  }

  for (let j = 0, jj = nodes.length; j < jj; ++j) {
    const node = nodes[j];
    const ngContentIndex = findMatchingNgContentIndex(node, ngContentSelectors);
    if (ngContentIndex != null) {
      projectableNodes[ngContentIndex].push(node);
    }
  }

  return projectableNodes;
}

function findMatchingNgContentIndex(element: any, ngContentSelectors: string[]): number|null {
  const ngContentIndices: number[] = [];
  let wildcardNgContentIndex: number = -1;

  for (let i = 0; i < ngContentSelectors.length; i++) {
    const selector = ngContentSelectors[i];
    if (selector === '*') {
      wildcardNgContentIndex = i;
    } else {
      if (matchesSelector(element, selector)) {
        ngContentIndices.push(i);
      }
    }
  }

  ngContentIndices.sort();

  if (wildcardNgContentIndex !== -1) {
    return ngContentIndices[wildcardNgContentIndex];
  } else if (matchesSelector(element, selector)) {
    ngContentIndices.push(i);
  }
}

const wildcardNgContentIndex = findMatchingNgContentIndex(element, ngContentSelectors);
const aggrPromise = new SyncPromise<T[]>(value); let resolvedCount = 0; const results: T[] = []; const

    resolve = (idx: number, value: T) => {\n        results[idx] = value;\n        if (++resolvedCount === valuesOrPromises.length) aggrPromise.resolve(results);\n    };

    valuesOrPromises.forEach((p, idx) => {\n        if (isThenable(p)) \n            p.then(v => resolve(idx, v));\n        else {\n            resolve(idx, p);\n        }\n    });\n
    return aggrPromise;\n
    resolve(value: T): void {\n        if (this.resolved) \n            return;\n        \n        this.value = value;\n        this.resolved = true;\n        // Run the queued callbacks.\n        this.callbacks.forEach(callback => callback(value));\n        this.callbacks.length = 0;\n        \n        if (callback) \n            callback(this.value);\n        else {\n            \n        }\n    };

    then(callback: (value: T) => unknown): void {\n        if (this.resolved) {\n            callback(this.value !!);\n        } else {\n            this.callbacks.push(callback);\n        }\n    };

}
Angular zone.

// NOTE: This is not needed, when using `UpgradeModule`, because `$digest()` will be run
// inside the Angular zone (except if explicitly escaped, in which case we shouldn't\n// force it back in).

const isNgUpgradeLite = getUpgradeAppType($injector) === UpgradeAppType.Lite;
const wrapCallback: <T>(cb: () => T) => typeof cb =
        !isNgUpgradeLite ? cb => cb : cb => NgZone.isInAngularZone() ? cb() : ngZone.run(cb);

let ngZone: NgZone;

// When downgrading multiple modules, special handling is needed w.r.t injectors.
const hasMultipleDowngradedModules =
isNgUpgradeLite && (getDowngradedModuleCount($injector) > 1);

return {
  restrict: 'E',
  terminal: true,
  require: [REQUIRE_INJECTOR, REQUIRE_NG_MODEL],
  link: (scope: IScope, element: IAugmentedJQuery, attrs: IAttributes, required: any[]) => {
    // We might have to compile the contents asynchronously, because this might have been
    // triggered by `UpgradeNg1ComponentAdapterBuilder`, before the Angular templates have
    // been compiled.
    const ngModel: INgModelController = required[1];
    const parentInjector: Injector|Thenable<Injector>|undefined = required[0];
    let moduleInjector: Injector|Thenable<Injector>|undefined = undefined;
    let ranAsync = false;

    if (!parentInjector || hasMultipleDowngradedModules) {
      const downgradedModule = info.downgradedModule || '';
      const lazyModuleRefKey = `${LAZY_MODULE_REF}${downgradedModule}`;
      const validateInjectionKey = ($injector, downgradedModule, lazyModuleRefKey, attemptedAction):\n        const lazyModuleRef = $injector.get(lazyModuleRefKey) as LazyModuleRef;
      moduleInjector = lazyModuleRef.injector || lazyModuleRef.promise as Promise<Injector>;
      // There are two injectors: `finalModuleInjector` and `finalParentInjector` (they might be
      // the same instance, but that is irrelevant)
      // - `finalModuleInjector` is used to retrieve `ComponentFactoryResolver`, thus it must be
      //   on the same tree as the `NgModule` that declares this downgraded component.
      // - `finalParentInjector` is used for all other injection purposes.
      //   (Note that Angular knows to only traverse the component-tree part of that injector
      //   when looking for an injectable and then switch to the module injector.)
      // There are basically three cases:
      // - If there is no parent component (thus no
      //   `parentInjector`), we bootstrap the downgraded
      //   `NgModule` and use its injector as both
      //   `finalModuleInjector` and `finalParentInjector` (they might be
      //   the same instance).
      // - If there is a parent component and we are sure that it\n      //   belongs to the same `NgModule` as this downgraded component
      //   (e.g. because there is only
      //   one downgraded module, we use that `parentInjector` as both
      //   `finalModuleInjector` and `finalParentInjector`)
      // - If there is a parent component, but it may belong
      //   to a different `NgModule`, then we\n      //   use the `parentInjector` as `finalParentInjector` and this downgraded
      //   component\n      //   declaring `NgModule`'s injector as `finalModuleInjector`.

      // Note 1: If the
      //   `NgModule` is already bootstrapped, we just get its injector (we don't\n      //   bootstrap again).
      // Note 2: It is possible that (while there are multiple downgraded modules) this\n      //   component belongs to the same `NgModule`. In that case, we could have used the
      //   `parentInjector` as both\n      //   `finalModuleInjector` and `finalParentInjector`, but (for simplicity) we are\n      // treating this case as if they belong to different `NgModule`s. That doesn't\n      // really affect anything, since `parentInjector` has `moduleInjector` as ancestor\n      // and trying to resolve
      // `ComponentFactoryResolver` from either one will return\n      // the same instance.
      // If there is a parent component, use its injector as parent injector.\n      // If this is a `top-level` Angular component, use
      // the module injector.\n      const finalParentInjector = parentInjector || moduleInjector;
      // If this is a `top-level` Angular component or the parent component may belong to\n      // different `NgModule`, use the module injector for module-specific dependencies.
      // If there is a parent component that belongs to the same
      // `NgModule`, use its injector.\n      const finalModuleInjector = moduleInjector || parentInjector;
      doDowngrade = (injector: Injector, moduleInjector: Injector) => {
        // Retrieve `ComponentFactoryResolver` from the injector tied to the `NgModule` this
        // component belongs to.\n        const componentFactoryResolver =
        moduleInjector.get(ComponentFactoryResolver);
        const componentFactory: ComponentFactory<any> =

componentFactoryResolver.resolveComponentFactory(info.component) !:un  if (!(componentFactory) {
  throw new Error('Expecting ComponentFactory for: ' + getTypeName(info.component)) !:un  })
const injectorPromise = new ParentInjectorPromise(element) !:un  const facade = new
DowngradeComponentAdapter(element, attrs, scope, ngModel, injector, $injector, $compile, $parse, componentFactory, wrapCallback) !:un  const projectableNodes = facade.compileContents() !:un  facade.setupInputs(isNgUpgradeLite, info.propagateDigest) !:un  facade.setupOutputs() !:un  facade.registerCleanup() !:un
injectorPromise.resolve(facade.getInjector()) !:un  if (ranAsync) {
    // If this is run async, it is possible
    // that it is not run inside $scope // digest and initial input values will not be detected.
    scope.$evalAsync(() => { })
  }
}

const downgradeFn = !isNgUpgradeLite ? doDowngrade : (pInjector: Injector, mInjector: Injector) => {
  if (!ngZone) {
    ngZone = pInjector.get(NgZone) !:un
  }

  wrapCallback(() => doDowngrade(pInjector, mInjector)) !:un
}

// NOTE: Not using `ParentInjectorPromise.all()` (which is inherited from `SyncPromise`), because
// Closure Compiler (or some related tool) complains //  `TypeError: ...Src...downgrade_component_ParentInjectorPromise.all is not a function` // SyncPromise.all([finalParentInjector, finalModuleInjector]) !:un .then(([pInjector, mInjector]) =>
  doDowngradeFn(pInjector, mInjector) !:un
}

/**
 * Synchronous promise-like object to wrap parent injectors, to preserve the
 * synchronous nature of AngularJS's `compile`.
 */
class ParentInjectorPromise extends SyncPromise<Injector> {
  private injectorKey: string = controllerKey(INJECTOR_KEY) !:un

  constructor(private element: IAugmentedJQuery) {
    super();

    // Store the promise on the element.
    element.data !(this.injectorKey, this) !:un
  }

  resolve(injector: Injector): void {
    // Store the real injector on the element.
    this.element.data !(this.injectorKey, injector) !:un
    // Release the element to prevent memory leaks.
    this.element = null !:un
    // Release the promise.
    super.resolve(injector) !:un
  }
}

/**
 * @description
 *
 * A helper function to allow an Angular service to be accessible from AngularJS.
 *
 * *Part of the [upgrade/static](api?query=upgrade%2Fstatic) library for hybrid upgrade apps that support AOT compilation*
 *
 * This helper function returns a factory function that provides access to the Angular service identified by the `token` parameter.
 *
 * @param token an `InjectionToken` that identifies a service provided from Angular.
 * @param downgradedModule the name of the downgraded module (if any) that the injectable
 * "belongs to", as returned

 import {Injector} from '@angular/core';
 import {IInjectorService} from './angular1';
 import {$INJECTOR, INJECTOR_KEY} from './constants';
 import {getTypeName, isFunction, validateInjectionKey} from './util';

 /**
 * @description
 *
 * A helper function to allow an Angular service to be accessible from AngularJS.
 */

class ParentInjectorPromise extends SyncPromise<Injector> {
  private injectorKey: string = controllerKey(INJECTOR_KEY) !:un

  constructor(private element: IAugmentedJQuery) {
    super();

    // Store the promise on the element.
    element.data !(this.injectorKey, this) !:un
  }

  resolve(injector: Injector): void {
    // Store the real injector on the element.
    this.element.data !(this.injectorKey, injector) !:un
    // Release the element to prevent memory leaks.
    this.element = null !:un
    // Release the promise.
    super.resolve(injector) !:un
  }
}

/**
 * Synchronous promise-like object to wrap parent injectors, to preserve the
 * synchronous nature of AngularJS's `compile`.
 */
class ParentInjectorPromise extends SyncPromise<Injector> {
  private injectorKey: string = controllerKey(INJECTOR_KEY) !:un

  constructor(private element: IAugmentedJQuery) {
    super();

    // Store the promise on the element.
    element.data !(this.injectorKey, this) !:un
  }

  resolve(injector: Injector): void {
    // Store the real injector on the element.
    this.element.data !(this.injectorKey, injector) !:un
    // Release the element to prevent memory leaks.
    this.element = null !:un
    // Release the promise.
    super.resolve(injector) !:un
  }
}

/**
 * Synchronous promise-like object to wrap parent injectors, to preserve the
 * synchronous nature of AngularJS's `compile`.
 */
class ParentInjectorPromise extends SyncPromise<Injector> {
  private injectorKey: string = controllerKey(INJECTOR_KEY) !:un

  constructor(private element: IAugmentedJQuery) {
    super();

    // Store the promise on the element.
    element.data !(this.injectorKey, this) !:un
  }

  resolve(injector: Injector): void {
    // Store the real injector on the element.
    this.element.data !(this.injectorKey, injector) !:un
    // Release the element to prevent memory leaks.
    this.element = null !:un
    // Release the promise.
    super.resolve(injector) !:un
  }
}

by a call to `downgradeModule()`. It is the module, whose injector will not be used for instantiating the injectable.<br/>

```typescript
export function downgradeInjectable(token: any, downgradedModule: string = ''): Function {
  const injectorKey = `[INJECTOR_KEY]${downgradedModule}`;
  const injectorKeyName = isFunction(token) ? getTypeName(token) : String(token);
  const validateInjectionKey = (Injector, downgradedModule, injectorKey, attemptedAction) =>
    Injector.get.get(token, injectorKey, attemptedAction);

  const injector: Injector = Injector.get(injectorKey);
  return injector.get(token);
}
```

```typescript
/**
 * @license
 * Copyright Google Inc. All Rights Reserved.
 *
 * Use of this source code is governed by an MIT-style license that can be
 * found in the LICENSE file at https://angular.io/license
 */

/**
 * @module
 * @description
 *
 * Entry point for all public APIs of the common package.
 */

import {Version} from '@angular/core';

/**
 *
 * @publicApi
 */
export const VERSION = new Version('9.0.7');
```

```typescript
export function setTempInjectorRef(injector: IInjectorService) {
  tempInjectorRef = injector;
}

export function injectorFactory() {
  if (!tempInjectorRef) {
    throw new Error('Trying to get the AngularJS injector before it being set.');
  }

  const injector: IInjectorService = tempInjectorRef;
  tempInjectorRef = null;  // clear the value to prevent memory leaks
  return injector;
}
```

```typescript
/**
 * @license
 * Copyright Google Inc. All Rights Reserved.
 *
 * Use of this source code is governed by an MIT-style license that can be
 * found in the LICENSE file at https://angular.io/license
 */

import {Injector, NgModuleFactory, NgModuleRef, StaticProvider} from '@angular/core';
import {platformBrowser} from '@angular/platform-browser';

import {IInjectorService, IProvideService, module_ as angularModule} from '../../src/common/src/angular1';
import {$INJECTOR, $PROVIDE, DOWNGRADED_MODULE_COUNT_KEY, INJECTOR_KEY, LAZY_MODULE_REF, UPGRADE_APP_TYPE_KEY, UPGRADE_MODULE_NAME} from
A helper function for creating an AngularJS module that can bootstrap an Angular module (possibly lazily) when a \( @\text{link downgradeComponent downgraded component} \) needs to be \( @\text{link downgradeModule() downgraded module} \). It allows loading/bootstrapping the Angular part of a hybrid application lazily and not having to pay the cost up-front. For example, you can have an AngularJS application that uses Angular for specific routes and only instantiate the Angular modules if/when the user visits one of these routes.

The Angular module will be bootstrapped only once (when requested for the first time) and the same module will be used from that point onwards.

Apart from the 'UpgradeModule', you can use the rest of the 'upgrade/static' helpers as usual to build a hybrid application. Note that the Angular pieces (e.g. downgraded services) will not be available until the downgraded module has been bootstrapped, i.e. by instantiating a downgraded \( @\text{link downgradeModule()} \) component.

You cannot use 'downgradeModule()' and 'UpgradeModule' in the same hybrid application. Instead, you can use one or the other, depending on your specific needs. For more details on how to use 'downgradeModule()' see [Upgrading for Performance](guide/upgrade-performance).

In contrast to 'UpgradeModule', 'downgradeModule()' does not automatically run \( @\text{link $digest()} \) when changes are detected in the Angular part of the application. This means that applications using 'UpgradeModule' will run change detection more frequently in order to ensure that both frameworks are properly notified about possible changes. This will inevitably result in more change detection runs than necessary, especially in change-detection-heavy applications, but leaves it up to the developer to manually trigger a change detection run in AngularJS using \( @\text{link scope.$apply(...)} \) or \( @\text{link $rootScope.$digest()} \) when changes are detected in the Angular part of the application. In this case, each downgraded module will be bootstrapped when an associated downgraded component or injectable needs to be instantiated. Things to keep in mind, when downgrading multiple modules:

- Each downgraded component/injectable needs to be explicitly associated with a downgraded module. See 'downgradeComponent()' and 'downgradeInjectable()' for more details.
- If you want some injectables to be shared among all downgraded modules, you can provide them as\( @\text{link StaticProvider} \)s, when creating the 'PlatformRef' (e.g. via 'platformBrowser' or \( @\text{link \$injector} \)).
'platformBrowserDynamic').

- When using `{@link PlatformRef#bootstrapModule `bootstrapModule()` } or
  `{@link PlatformRef#bootstrapModuleFactory `bootstrapModuleFactory()` } to bootstrap the
  downgraded modules, each one is considered a "root" module. As a consequence, a new instance will be
  created for every injectable provided in "root" (via
  `{@link Injectable#providedIn `providedIn`}).

- If this is not your intention, you can have a shared module (that will act as act as the "root" module) and create
  all downgraded modules using that module's injector.

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  all downgraded modules using that module's injector.
// user-defined `compile` if there is no 'link'. In other cases, we will just ignore `compile`.\n if (directive.compile && !directive.link) notSupported(name, 'compile');\n if (directive.replace) notSupported(name, 'replace');\n if (directive.terminal) notSupported(name, 'terminal');\n return directive;\n }\n\nstatic getTemplate(Sinjector: ISinjectorService, directive: IDirective): string|Promise<string> {
  if (directive.template !== undefined) {
    return getOrCall<string>(directive.template, $element);
  } else if (directive.templateUrl) {
    const $templateCache = $injector.get(STEMPLATE_CACHE) as ITemplateCacheService;\n    const url = getOrCall<string>(directive.templateUrl, $element);\n    const template = $templateCache.get(url);\n    if (template !== undefined) {\n      return template;
    } else if (!fetchRemoteTemplate) {\n      throw new Error('loading directiv template asynchronously is not supported');\n    } else {\n      return new Promise((resolve, reject) => {\n        const $httpBackend = $injector.get($HTTP_BACKEND) as IHttpBackendService;\n        $httpBackend('GET', url, null, (status: number, response: string) => {
          if (status === 200) {
            resolve($templateCache.put(url, response));
          } else {
            reject(`GET component template from '${url}' returned '${status}: ${response}'`);
          }
        });
      });
    } else {
      throw new Error(`Directive '${directive.name}' is not a component, it is missing template.`);
    }
  }

  buildController(controllerType: IController, $scope: IScope) {
    // TODO: Document that we do not pre-assign bindings on the controller instance.\n    // Quoted properties below so that this code can be optimized with Closure Compiler.\n    // const locals = {\n    //   $scope: $scope, \n    //   $element: this.$element\n    //   };\n    const locals = {\n      $scope: $scope,\n      $element: this.$element\n    };\n    const controller = this.$controller(controllerType, locals, null,\n      this.directive.controllerAs);\n    return controller;\n  }

  compileTemplate(template?: string): ILinkFn {\n    if (template === undefined) {
      template = UpgradeHelper.getTemplate(this.$injector, this.directive, false, this.$element) as string;
    }

    return this.compileHtml(template);
  }

  onDestroy($scope: IScope, controllerInstance?: any) {
    if (controllerInstance && isFunction(controllerInstance.$onDestroy)) {
      controllerInstance.$onDestroy();
    }
    $scope.$destroy();

    // Clean the jQuery/jqLite data on the component+child elements.\n    // Equivalent to how jQuery/jqLite invoke \`cleanData\` on an Element (this.element)\n    angularElement.cleanData([this.element]);\n    angularElement.cleanData(this.element.querySelectorAll('*'));
  }

  prepareTransclusion(): ILinkFn|undefined {\n    const transclude = this.directive.transclude;\n    const contentChildNodes = this.extractChildNodes();\n    const $template = contentChildNodes;\n
    if (transclude) {
      const slots = Object.create(null);
      const filledSlots = Object.create(null);

      // Parse the element selectors.
      Object.keys(transclude).forEach(slotName => {
        const selector = transclude[slotName];\n        const optional = selector.charAt(0) === '?';\n        selector = optional ? selector.substring(1) : selector;

        slots[slotName] = null;            // `null`: Defined but not yet filled.
        filledSlots[slotName] = false;  // Consider optional slots as filled.

        const node = this.$element[0];\n        const slots = node ? node.querySelectorAll('.' + selector) : null;\n        if (slots) {
          for (let slot of slots) {\n            filledSlots[slot.name] = true;\n            this.$controller(slot.name, {\n              $element: slot\n            })\n          }
        }
      });\n    }

    const slots = Object.keys(contentChildNodes).map(slotName => {\n      return contentChildNodes[slotName];\n    });\n
    return $template => {\n      const template = $template;\n      const slotMap = Object.create(null);\n      const filledSlots = Object.create(null);\n
      // Check for required slots that were not filled.
      Object.keys(filledSlots).forEach(slotName => {\n        if (filledSlots[slotName]) {\n          throw new Error(`Directive '${directive.name}' is not a component, it is missing template.`);
        }
      });\n    };\n  }
new Error('Required transclusion slot $\{\text{slotName}\}$ on directive: $\{\text{this.name}\}$: \n | \n | \n Object.keys(slots).filter(slotName => slots[slotName] !== undefined).forEach(slotName => { \n const nodes = slots[slotName]; \n slots[slotName] = (scope: IScope, cloneAttach: ICloneAttachFunction) => { \n return cloneAttach(nodes, scope); \n | \n | \n | \n attachChildrenFn.$$slots = slots; \n | AngularJS v1.6+ ignores empty or whitespace-only transcluded text nodes. But Angular\n | removes all text content after the first interpolation and updates it later, after evaluating the expressions. This would result in AngularJS failing to recognize text \n | nodes that start with an interpolation as transcluded content and use the fallback\n | content instead.\n | To avoid this issue, we add a \n | [zero-width non-joiner character](https://en.wikipedia.org/wiki/Zero-width_non-joiner) \n | to empty text nodes (which can only be a result of Angular removing their initial content).\n | NOTE: Transcluded text content that starts with whitespace followed by an interpolation\n | will still fail to be detected by AngularJS v1.6+\n | AngularJS templates for filters, \n | directives, \n | components, \n | and \n | services\n | $\{\text{this.name}\}$: \n | \n | \n resolveAndBindRequiredControllers(controllerInstance: IControllerInstance|null) { \n const requiredControllers = this.getDirectiveRequire(); \n const requiredControllersMap = requiredControllers as {[key: string]: IControllerInstance}; \n Object.keys(requiredControllersMap).forEach(key => { \n controllerInstance[key] = requiredControllersMap[key]; \n return requiredControllers; \n private compileHtml(html: string): ILinkFn { \n this.element.innerHTML = html; \n return this.$compile(this.element.childNodes); \n private extractChildNodes(): Node[] { \n const childNodes: Node[] = []; \n let childNode: Node|null; \n while (childNode = this.element.firstChild) { \n this.element.removeChild(childNode); \n childNodes.push(childNode); \n return childNodes; \n } \n private getDirectiveRequire(): DirectiveRequireProperty { \n this.element.nodeType !== Node.TEXT_NODE &\n const nodeValue = this.$text(1); \n return nodeValue; \n return requiredControllers; \n private compileHtml(html: string): ILinkFn { \n this.element.innerHTML = html; \n return this.$compile(this.element.childNodes); \n private extractChildNodes(): Node[] { \n const childNodes: Node[] = []; \n let childNode: Node|null; \n while (childNode = this.element.firstChild) { \n this.element.removeChild(childNode); \n childNodes.push(childNode); \n return childNodes; \n } \n private getDirectiveRequire(): DirectiveRequireProperty { \n this.element.nodeType !== Node.TEXT_NODE &\n const nodeValue = this.$text(1); 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ILinkFn, IScope, ITranscludeFunction} from './../src/common/src/angular1\'\niimport {$SCOPE} from './../src/common/src/constants\'\niimport {IBindingDestination, IControllerInstance, UpgradeHelper} from './../src/common/src/upgrade_helper\'\niimport {isFunction} from './../src/common/src/util\'\n
const NOT_SUPPORTED: any = NOT_SUPPORTED;\nconst INITIAL_VALUE = {
  __UNINITIALIZED__: true
};\nn
class Bindings {
  twoWayBoundProperties: string[] = [
    this.initializeOutputs();\n
/**
 * @description
 *
 * A helper class that allows an AngularJS component to be used from
 * Angular.\n * 
 * *Part of the [upgrade/static](api?query=upgrade\%2Fstatic) library for hybrid upgrade apps that
 * support AOT compilation.*
 *
 * This class should be used as a base class for creating Angular directives\n * that wrap AngularJS components that need to be \"upgraded\".\n * @usageNotes
 * ### Examples\n * Let's assume that you have an AngularJS component called \'ng1Hero\' that needs\n * to be made available in Angular templates.\n * 
 * In this example you can see that we must derive from the \'UpgradeComponent\' base class but also provide an \{@link Directive \`@Directive\'\} decorator.
 * 
 * This is\n * because the AOT compiler requires that this information is statically available at\n * compile time.\n * 
 * Note that we must do the following:\n * 
 * specify the directive's selector ('ng1-hero')\n * specify all inputs and
 * outputs that the AngularJS component expects\n * derive from \'UpgradeComponent\'\n * call the base class from
 * the constructor, passing\n * 
 * the AngularJS name of the component ('ng1Hero')\n * the \'ElementRef\' and
 * 'Injector' for the component wrapper\n * @public\n * 
 * Upgraded Component implements OnInit, OnChanges, DoCheck, OnDestroy\n */
export class UpgradeComponent implements OnInit, OnChanges, DoCheck, OnDestroy {
  private helper: UpgradeHelper;

  private $injector: IInjectorService;

  private element: Element;
  private $element: IAugmentedJQuery;
  private $componentScope: IScope;

  private directive: IDirective;
  private bindings: Bindings;

  // We will be instantiating the controller in the
  // first 'ngOnInit' hook, when the\n  // 'SimpleChanges' and \back\' later.\n  // We will be instantiating the controller in the
  // first 'ngOnInit' hook, when the\n  // first 'ngOnChanges' will have been already triggered. We store the\n  // SimpleChanges and \back\' later.\n  // 
  // We ask for the AngularJS scope from the Angular
  // injector, since\n  // we will put the new component scope onto the new injector for each component\n  // We ask for the AngularJS scope from the Angular
  // injector, since\n  // 
  // QUESTION 1: Should we create an isolated scope if the scope is only\n  // QUESTION 2: Should we make the scope accessible through \'ElementRef\'.scope()?\n  // QUESTION 2: Should we make the scope accessible through \'ElementRef\'.scope()?\n  // const\n  // const\n


this.bindOutputs();

const requiredControllers =
this.helper.resolveAndBindRequiredControllers(this.controllerInstance);

if (this.pendingChanges) {
  this.forwardChanges(this.pendingChanges);
  this.pendingChanges = null;
}

if (this.controllerInstance && isFunction(this.controllerInstance.$onInit)) {
  this.controllerInstance.$onInit();
}

if (this.controllerInstance && isFunction(this.controllerInstance.$doCheck)) {
  this.controllerInstance.$doCheck();
}

if (!this.bindingDestination) {
  this.pendingChanges = changes;
} else {
  this.forwardChanges(changes);
}

ngDoCheck() |

const twoWayBoundProperties = this.bindings.twoWayBoundProperties;
const twoWayBoundLastValues = this.bindings.twoWayBoundLastValues;
const propertyToOutputMap = this.bindings.propertyToOutputMap;
const twoWayBoundPropertiesForEach = (propName, index) => {
  const newValue = this.bindingDestination[propName];
  const oldValue = twoWayBoundLastValues[index];
  if (!looseIdentical(newValue, oldValue)) {
    const outputName = this.bindings.propertyToOutputMap[propName];
    const eventEmitter = (this as any)[outputName];
    eventEmitter.emit(newValue);
    twoWayBoundLastValues[index] = newValue;
  }
}

ngDoCheck() |

if (isFunction(this.unregisterDoCheckWatcher)) {
  this.unregisterDoCheckWatcher();
}

this.html.onDestroy(this.$componentScope, this.controllerInstance);

private initializeBindings(directive: IDirective) {
  const btcIsObject = typeof directive.bindToController === 'object';
  if (btcIsObject && Object.keys(directive.scope).length) {
    throw new Error(`Binding definitions on scope and controller at the same time is not supported.`);
  }

  const context = btcIsObject ? directive.bindToController : directive.scope;
  const bindings = new Bindings();

  if (typeof context == 'object') {
    Object.keys(context).forEach(propName => {
      const definition = context[propName];
      const bindingType = definition.charAt(0);

      switch (bindingType) {
        case '@':
        case '<':
          // We don't need to do anything special. They will be defined as inputs on the
          // upgraded component facade and the change propagation will be handled by
          // the engine.
          break;
        case '=':
          bindings.twoWayBoundProperties.push(propName);
          bindings.expressionBoundProperties.push(propName);
          break;
        case '&':
          bindings.expressionBoundProperties.push(propName);
          break;
        default:
          let json = JSON.stringify(context);
          throw new Error(`Unexpected mapping '${bindingType}' in '${json}' in '${this.name}' directive.`);
      }
    });
  }

  return bindings;
}

private initializeOutputs() {
  this.bindings.expressionBoundProperties.forEach(propName => {
    const outputName = this.bindings.propertyToOutputMap[propName];
    (this as any)[outputName] = new EventEmitter();
  });
}

private bindOutputs() {
  this.bindings.expressionBoundProperties.forEach(propName => {
    const outputName = this.bindings.propertyToOutputMap[propName];
    this.bindingDestination[propName] = (value: any) => (this as any)[outputName].emit(value);
  });
}

private ngOnDestroy() {
  if (isFunction(this.unregisterDoCheckWatcher)) {
    this.unregisterDoCheckWatcher();
  }

  this.helper.onDestroy(this.$componentScope, this.controllerInstance);
}

private initializeBindings(directive: IDirective) {
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  if (btcIsObject && Object.keys(directive.scope).length) {
    throw new Error(`Binding definitions on scope and controller at the same time is not supported.`);
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    Object.keys(context).forEach(propName => {
      const definition = context[propName];
      const bindingType = definition.charAt(0);

      switch (bindingType) {
        case '@':
        case '<':
          // We don't need to do anything special. They will be defined as inputs on the
          // upgraded component facade and the change propagation will be handled by
          // the engine.
          break;
        case '=':
          break;
        case '&':
          break;
        default:
          let json = JSON.stringify(context);
          throw new Error(`Unexpected mapping '${bindingType}' in '${json}' in '${this.name}' directive.`);
      }
    });
  }

  return bindings;
}

private initializeOutputs() {
  this.bindings.expressionBoundProperties.forEach(propName => {
    const outputName = this.bindings.propertyToOutputMap[propName];
    (this as any)[outputName] = new EventEmitter();
  });
}

private bindOutputs() {
  this.bindings.expressionBoundProperties.forEach(propName => {
    const outputName = this.bindings.propertyToOutputMap[propName];
    this.bindingDestination[propName] = (value: any) => this.controllerInstance.emitValue(value);
  });
}

private ngOnDestroy() {
  if (isFunction(this.unregisterDoCheckWatcher)) {
    this.unregisterDoCheckWatcher();
  }

  this.helper.onDestroy(this.$componentScope, this.controllerInstance);
}
```javascript
Object.keys(changes).forEach(propName => this.bindingDestination[propName] = changes[propName].currentValue);
if (isFunction(this.bindingDestination.$onChanges)) {
    this.bindingDestination.$onChanges(changes);
}
```

```javascript
import {Injector, NgModule, NgZone, Testability, isDevMode} from '@angular/core';

import {IInjectorService, IIntervalService, IProvideService, ITestabilityService, bootstrap, element as angularElement, module_ as angularModule} from '../../src/common/src/angular1';
import {$$TESTABILITY, $DELEGATE, $INJECTOR, $INTERVAL, $PROVIDE, INJECTOR_KEY, LAZY_MODULE_REF, UPGRADE_APP_TYPE_KEY, UPGRADE_MODULE_NAME} from '../../src/common/src/constants';
import {LazyModuleRef, UpgradeAppType, controllerKey} from '../../src/common/src/util';
import {UpgradeModule, setTempInjectorRef} from './angular1_providers';
import {NgAdapterInjector} from './util';

/**
 * @description
 * An `NgModule`, which you import to provide AngularJS core services, and has an instance method used to bootstrap the hybrid upgrade application.
 * Part of the [upgrade/static](api?query=upgrade/static) library for hybrid upgrade apps that support AOT compilation
 * to be used together inside a hybrid upgrade application, which supports AOT compilation.
 * Specifically, the classes and functions in the `upgrade/static` module allow the following:
 * 1. Creation of an Angular directive that wraps and exposes an AngularJS component so that it can be used in an Angular template. See `UpgradeComponent`.
 * 2. Creation of an AngularJS directive that wraps and exposes an Angular component so that it can be used in an AngularJS template. See `downgradeComponent`.
 * 3. Creation of an Angular root injector provider that wraps and exposes an AngularJS service so that it can be injected into an Angular context. See [AngularJS service](api?query=AngularJS_service) below.
 * 4. Creation of an AngularJS service that wraps and exposes an Angular injectable so that it can be injected into an AngularJS context. See [AngularJS injectable](api?query=AngularJS_injectable) below.
 * 5. An AngularJS component can be "upgraded" to an Angular component. This is achieved by defining an Angular directive, which bootstraps the AngularJS component at its location in the DOM. See `UpgradeComponent`.
 * 6. An Angular component can be "downgraded" to an AngularJS component. This is achieved by defining an AngularJS directive, which bootstraps the Angular component at its location in the DOM. See `downgradeComponent`.
 * 7. Whenever an "upgraded"/"downgraded" component is instantiated the host element is owned by the framework doing the instantiation. The other framework then instantiates and owns the view for that component.
 * 8. Angular is bootstrapped first; AngularJS is bootstrapped second. AngularJS always owns the root component of the application.
 * 9. The new application is running in an Angular zone, and therefore it no longer needs calls to `$apply()`.

### The `UpgradeModule` class

This class is an `NgModule`, which you import to provide AngularJS core services.
services, * and has an instance method used to bootstrap the hybrid upgrade application. *ln * * Core AngularJS services*ln * Importing this ‘NgModule’ will add providers for the core*ln * [AngularJS services](https://docs.angularjs.org/api/ng/service) to the root injector.*ln * * * Bootstrap*ln * The runtime instance of this class contains a [@link UpgradeModule#bootstrap `bootstrap()`] * method, which you use to bootstrap the top level AngularJS module onto an element in the*ln * DOM for the hybrid upgrade app.*ln * * * It also contains properties to access the [@link UpgradeModule#injector root injector], the*ln * * * Bootstrap ‘NgZone’ and the*ln * [AngularJS $injector](https://docs.angularjs.org/api:auto/service/$injector).*ln * * * Examples*ln * * Import the ‘UpgradeModule’ into your top level [*@link NgModule Angular ‘NgModule’*] *ln * * * [example upgrade/static/ts/full/module.ts region=’ng2-module’] *ln * * * Then inject ‘UpgradeModule’ into your Angular ‘NgModule’ and use it to bootstrap the top level*ln * [AngularJS module](https://docs.angularjs.org/api/ng/type/angular.Module) in the*ln * ‘ngDoBootstrap()’ method.*ln * * * There is no specific API for upgrading an AngularJS service. Instead you should just follow the*ln * * * following recipe:*ln * * * Let’s say you have an AngularJS service:*ln * * * [example upgrade/static/ts/full/module.ts region=’ng1-text-formatter-service’] *ln * * * Then you should define an Angular provider to be included in your * ‘NgModule’ `providers` * property:*ln * * * [example upgrade/static/ts/full/module.ts region=’upgrade-ng1-service’] *ln * * * Bootstrap an AngularJS application from this NgModule*ln * * * [example upgrade/static/ts/full/module.ts region=’bootstrap-ng2’] *ln * * * @a upgrading-an-angular-1-service * * * * Core AngularJS services
 *   Importing this `NgModule` will add providers for the core
 *   [AngularJS services](https://docs.angularjs.org/api/ng/service) to the root injector.
 *
 *   * Core AngularJS services
 *   Importing this `NgModule` will add providers for the core
 *   [AngularJS services](https://docs.angularjs.org/api/ng/service) to the root injector.
 *
 *   * Bootstrap
 *   The runtime

```typescript
/**
 * The Angular Injector **/
  public injector: Injector;

  constructor(
      /** The root `Injector` for the upgrade
 *   application. */
      injector: Injector,
      /** The bootstrap zone for the upgrade application */
      public
ngZone: NgZone) {
    this.injector = new NgAdapterInjector(injector);
  }

  /**
   * Bootstrap an AngularJS
   *   application from this NgModule
   * @param element the element on which to bootstrap the AngularJS
   *   application
   * @param [modules] the AngularJS modules to bootstrap for this application
   * @param [config] optional extra AngularJS bootstrap configuration
   * @return the new AngularJS app
   */
  bootstrap(
      element: Element, modules: string[] = [],
      config?: any /*angular.IAngularBootstrapConfig*/) {
    const INIT_MODULE_NAME =
      UpgradedModule._initModuleName + 
    
    const angularModule =
      angularModule(INIT_MODULE_NAME, [])
    .constant(UPGRADE_APP_TYPE_KEY, UpgradeAppType.Static)
    .factory(INJECTOR_KEY, (injector) => injector)
    .value(INJECTOR_KEY, injector).factory(LAZY_MODULE_REF, (injector) => injector)
    .config($TESTABILITY, (testabilityDelegate: ITestabilityService) =>
      const originalWhenStable: Function = testabilityDelegate.whenStable;
      const ng2Testability: Testability = injector.get(Testability);
      if (ng2Testability.isStable()) {
        callback();
      } else {
        const newWhenStable = ng2Testability.whenStable;
        newWhenStable.call(testabilityDelegate, callback);
      }
    .factory($INTERVAL, (intervalDelegate: IIntervalService) =>
      const originalWhenStable: Function = intervalDelegate.whenStable;
      const newWhenStable = intervalDelegate.whenStable;
      newWhenStable.call(callback);
    }
  }

  @provide.decorator($TESTABILITY, (SDELEGATE, (testabilityDelegate: ITestabilityService) =>
    const originalWhenStable: Function = testabilityDelegate.whenStable;
    originalWhenStable.call(callback());
  }

  @provide.decorator($INTERVAL, (intervalDelegate: IIntervalService) =>
    const originalWhenStable: Function = intervalDelegate.whenStable;
    originalWhenStable.call(callback());
  }

  @provide.decorator($TESTABILITY, $INTERVAL, (SDELEGATE, (testabilityDelegate: ITestabilityService) =>
    const originalWhenStable: Function = testabilityDelegate.whenStable;
    originalWhenStable.call(callback());
  }
```

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the behavior from AngularJS

let wrappedInterval = (fn: Function, delay: number, count?: number, invokeApply?: boolean, pass: any[]) => {
  this.ngZone.runOutsideAngular(() => {
    return intervalDelegate((...args: any[]) => {
      return wrappedInterval as any]['cancel'] = intervalDelegate.cancel;
    }(...args));
  })

);}

let directive = class {
  static ngMutate(i: angular.IScope);


```javascript
var extendStatics = function(d, b) {
    extendStatics = Object.setPrototypeOf ||
        ({ __proto__: [] } instanceof Array && function (d, b) { d.__proto__ = b; }) ||
        function (d, b) { for (var p in b) if (b.hasOwnProperty(p)) d[p] = b[p]; };
    return extendStatics(d, b);
};

export function __extends(d, b) {
    extendStatics(d, b);
    function __() { this.constructor = d; }
    d.prototype = b === null ? Object.create(b) : (__.prototype = b.prototype, new __());
}

export var __assign = function () {
    __assign = Object.assign || function __assign(t) {
        for (var s, i = 1, n = arguments.length; i < n; i++) {
            s = arguments[i];
            for (var p in s) if (Object.prototype.hasOwnProperty.call(s, p)) t[p] = s[p];
        }
        return t;
    }
    return __assign.apply(this, arguments);
}

export function __rest(s, e) {
    var t
```
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---

export type Ng1Token = string;

export type Ng1Expression = string | Function;

export interface IAnnotatedFunction extends Function {
  // Older versions of `@types/angular` typings extend the global `Function` interface with
  // `$inject?: string[]`, which is not compatible with `$inject?: ReadonlyArray<string>` (used in
  // latest versions).
  $inject?: Function extends{$inject?: string[]}? Ng1Token[] : ReadonlyArray<Ng1Token>;
}

export type IInjectable = (Ng1Token | Function)[] | IAnnotatedFunction;

export type SingleOrListOrMap<T> = T | T[] | { [key: string]: T };
cleanData: (nodes: Node[] | NodeList) => void

injector: (modules: Array<string|Injectable>, strictDi?: boolean) => InjectorService,
version: {major: number},
resumeBootstrap: () => void,
getTestability: (e: Element) => ITestabilityService

try {
  if (window.hasOwnProperty('angular')) {
    angular = (<any>window).angular;
  }
} catch {
  // ignore in CJS mode.
}

/**
 * @deprecated Use `setAngularJSGlobal` instead.
 *
 * @publicApi
 */
export function setAngularLib(ng: any): void {
  setAngularJSGlobal(ng);
}

/**
 * @deprecated Use `getAngularJSGlobal` instead.
 *
 * @publicApi
 */
export function getAngularLib(): any {
  return getAngularJSGlobal();
}

/**
 * Resets the AngularJS global.
 *
 * Used when AngularJS is loaded lazily, and not available on `window`.
 *
 * @publicApi
 */
export function setAngularJSGlobal(ng: any): void {
  angular = ng;
}

/**
 * Returns the current AngularJS global.
 *
 * @publicApi
 */
export function getAngularJSGlobal(): any {
  return angular;
}

export const bootstrap: typeof angular.bootstrap = (e, modules, config?) =>
    angular.bootstrap(e, modules, config);

// Do not declare as `module` to avoid webpack bug
// (see https://github.com/angular/angular/issues/30050).
export const module_: typeof angular.module = (prefix, dependencies?) => angular.module(prefix, dependencies);

export const element: typeof angular.element = (e => angular.element(e)) as typeof angular.element;
element.cleanData = nodes =>
    angular.element.cleanData(nodes);

export const injector: typeof angular.injector =
    (modules: Array<string|IInjectable>, strictDi?: boolean) => angular.injector(modules, strictDi);

export const resumeBootstrap: typeof angular.resumeBootstrap = () => angular.resumeBootstrap();

export const getTestability: typeof angular.getTestability = e => angular.getTestability(e);

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 *
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 * found in the LICENSE file at https://angular.io/license
 */

export const $COMPILE = '$compile';
export const $CONTROLLER = '$controller';
export const $DELEGATE = '$delegate';
export const $EXCEPTION_HANDLER = '$exceptionHandler';
export const $HTTP_BACKEND = '$httpBackend';
export const $INJECTOR = '$injector';
export const $INTERVAL = '$interval';
export const $PARSE = '$parse';
export const $PROVIDE = '$provide';
export const $ROOT_SCOPE = '$rootScope';
export const $SCOPE = '$scope';
export const $TEMPLATE_CACHE = '$templateCache';
export const $TEMPLATE_REQUEST = '$templateRequest';

export const $$TESTABILITY = '$$testability';

export const COMPILER_KEY = '$$angularCompiler';
export const DOWNGRADED_MODULE_COUNT_KEY = '$$angularDowngradedModuleCount';
export const GROUP_PROJECTABLE_NODES_KEY = '$$angularGroupProjectableNodes';
export const INJECTOR_KEY = '$$angularInjector';
export const LAZY_MODULE_REF = '$$angularLazyModuleRef';
export const NG_ZONE_KEY = '$$angularNgZone';
export const REQUIRE_INJECTOR = '?^^' + INJECTOR_KEY;
export const REQUIRE_NG_MODEL = '?ngModel';
export const REQUIRE_UPGRADE_APP_TYPE_KEY = '$$UpgradeAppType';
export const REQUIRE_UPGRADE_MODULE_NAME = '$$UpgradeModule';

export const UPGRADE_MODULE_NAME = '$$UpgradeModule';

export function $injectorFactory() {
  return $injector;
}

@NgModule({providers: [{provide: $INJECTOR, useFactory: $injectorFactory}])
export class AngularTestingModule {
  constructor(i: Injector) {
    injector = i;
  }
}

/**
 * A helper function to use when unit testing Angular services that depend upon
 * upgraded AngularJS services.
 *
 * This function returns an `NgModule` decorated class that is configured to
 * wire up the Angular application and AngularJS injectors without the need to actually bootstrap a hybrid application.
 *
 * This makes it simpler and faster to unit test services.
 *
 * Use the returned class as an `import` when
 * configuring the `TestBed`.
 */
export function $injectorFactory() {
  return $injector;
}

@NgModule({providers: [{provide: $INJECTOR, useFactory: $injectorFactory}])
export class AngularTestingModule {
  constructor(i: Injector) {
    injector = i;
  }
}

/**
 * A helper function to use when unit testing Angular services that depend upon
 * upgraded AngularJS services.
 *
 * This function returns an `NgModule` decorated class that is configured to
 * wire up the Angular application and AngularJS injectors without the need to actually bootstrap a hybrid application.
 *
 * This makes it simpler and faster to unit test services.
 *
 * Use the returned class as an `import` when
 * configuring the `TestBed`.
 */
export function $injectorFactory() {
  return $injector;
}

@NgModule({providers: [{provide: $INJECTOR, useFactory: $injectorFactory}])
export class AngularTestingModule {
  constructor(i: Injector) {
    injector = i;
  }
}
AngularJS part

* `* <code-example path="upgrade/static/ts/full/module.spec.ts" region="angular-setup">"</code-example>

* Once this is done we can get hold of services via the Angular `Injector` as normal.
* Services that are (or have dependencies on) an upgraded AngularJS service, will be instantiated as needed by the AngularJS `$injector`.
* In the following code snippet, `HeroesService` is an Angular service that depends upon an AngularJS service, `titleCase`.

* <code-example path="upgrade/static/ts/full/module.spec.ts" region="angular-spec"></code-example>

* Once this is done we can get hold of services via the Angular `Injector` as normal.
* Services that are (or have dependencies on) an upgraded Angular service, will be instantiated as needed by the AngularJS `$injector`.

* <code-example path="upgrade/static/ts/full/module.spec.ts" region="angular-testing"></code-example>

* The resulting configuration does not wire up AngularJS digests to Zone hooks. It is the responsibility of the test writer to call `rootScope.$apply`, as necessary, to trigger AngularJS handlers of async events from Angular.
* The helper sets up global variables to hold the shared Angular and AngularJS injectors.

* Do not use `createAngularTestingModule` in the same spec as `createAngularJSTestingModule`.

* Here is the example application and its unit tests that use `createAngularTestingModule` and `createAngularJSTestingModule`.

```typescript
code-tabs>
  code-pane header="module.spec.ts" path="upgrade/static/ts/full/module.spec.ts"></code-pane>
  code-pane header="module.ts" path="upgrade/static/ts/full/module.ts"></code-pane>
</code-tabs>
```

* @param angularJSModules a collection of the names of AngularJS modules to include in the configuration.
* @param strictDi whether the AngularJS injector should have `strictDI` enabled.

* Only call this helper once per spec.

* Do not use `createAngularTestingModule` in the same spec as `createAngularJSTestingModule`.

* Use the returned AngularJS module in a call to `angular.mocks.module` to include this module in the unit test injector.

* In the following code snippet, we are configuring the `$injector` with two modules:
  * The AngularJS `ng1AppModule`, which is the AngularJS part of our hybrid application and the
  * `Ng2AppModule`, which is the Angular part.

* <code-example path="upgrade/static/ts/full/module.spec.ts" region="angular-setup"></code-example>

* Once this is done we can get hold of services via the AngularJS `$injector` as normal.
* Services that are (or have dependencies on) a downgraded Angular service, will be instantiated as needed by the Angular root `Injector`.

* In the following code snippet, `heroesService` is a downgraded Angular service that we are accessing from AngularJS.

* This makes it simpler and faster to unit test services.

* Use the returned AngularJS module in a call to

```typescript
[angular.mocks.module](https://docs.angularjs.org/api/ngMock/function/angular.mock.module) to

* include this module in the unit test injector.
```

* In the following code snippet, we are configuring the `Sinjector` with two modules:
  * The AngularJS `ng1AppModule`, which is the AngularJS part of our hybrid application and the
  * `Ng2AppModule`, which is the Angular part.

* <code-example path="upgrade/static/ts/full/module.spec.ts" region="angular-js-setup"></code-example>

* This helper is for testing services not components.

* For Component testing you must still bootstrap a hybrid app. See `UpgradeModule` or `downgradeModule` for more information.

* The resulting configuration does not wire up AngularJS digests to Zone hooks. It is the responsibility of the test writer to call `rootScope.$apply`, as necessary, to trigger AngularJS handlers of async events from Angular.

* Only call this helper once per spec.

* Do not use `createAngularTestingModule` in the same spec as
'createAngularTestingModule'.

Here is the example application and its unit tests that use `createAngularTestingModule` and `createAngularJSTestingModule`.

<code-tabs>
  <code-pane header="module.spec.ts" path="upgrade/static/ts/full/module.spec.ts"></code-pane>
  <code-pane header="module.ts" path="upgrade/static/ts/full/module.ts"></code-pane>
</code-tabs>

@param angularModules a collection of Angular modules to include in the configuration.

@publicApi
export function createAngularJSTestingModule(angularModules: any[]): string {
  return ng.module_('$angularJSTestingModule', []).constant(UPGRADE_APP_TYPE_KEY,
UpgradeAppType.Static).factory(INJECTOR_KEY, $injector => {
  TestBed.configureTestingModule({
    imports: angularModules,
    providers: [{provide: $INJECTOR, useClass: $injector}]
  });
  return TestBed.inject(INJECTOR);});

/**
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 */

export {createAngularTestingModule, createAngularJSTestingModule} from './src/create_angular_testing_module';

/**
 * Generated bundle index. Do not edit.
 */

export * from './index';
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Found in path(s):
* /opt/ws_local/PERMITS_SQL/1047774535_1591199783.98/0/angular-upgrade-9-0-7-src-zip/bundles/upgrade-static-testing.umd.js.map

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

/**
 * @license Angular v9.0.7
 * (c) 2010-2020 Google LLC. https://angular.io/
 * License: MIT
 */

/**
 * @license
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 * Use of this source code is governed by an MIT-style license that can be found in the LICENSE file at https://angular.io/license
 */
interface IControllerService {
  (controllerConstructor: IController, locals?: any, later?: any, ident?: any): any;
  (controllerName: string, locals?: any): any;
  search: any;
}

interface IControllerService {
  (controllerConstructor: IController, locals?: any, later?: any, ident?: any): any;
  (controllerName: string, locals?: any): any;
}

export interface IInjectorService {
  get(key: string): any;
  has(key: string): boolean;
}

export interface IIntervalService {
  (func: Function, delay: number, count?: number, invokeApply?: boolean, ...args: any[]): Promise<any>;
  cancel(promise: Promise<any>): void;
}

export interface ITestabilityService {
  findBindings(element: Element, expression: string, opt_exactMatch?: boolean): Element[];
  findModels(element: Element, expression: string, opt_exactMatch?: boolean): Element[];
  getLocation(): string;
  setLocation(url: string): void;
  whenStable(callback: Function): void;
}

export interface INgModelController {
  $render(): void;
  $isEmpty(value: any): boolean;
  $setValidity(validationErrorKey: string, isValid: boolean): void;
  $setPristine(): void;
  $setDirty(): void;
  $setUntouched(): void;
  $setTouched(): void;
  $rollbackViewValue(): void;
  $validate(): void;
  $commitViewValue(): void;
  $setViewValue(value: any, trigger: string): void;
}

function noNg(): never {
  throw new Error('AngularJS v1.x is not loaded!');
}

const noNgElement: typeof angular.element = (() => noNg()) as any;
noNgElement.cleanData = noNg;

let angular: {
  bootstrap: (e: Element, modules: string | IInjectable[], config?: IAngularBootstrapConfig) => IInjectorService,
  module: (prefix: string, dependencies?: string[]) => IModule,
  element: (e: string | Element | Document | IAugmentedJQuery): IAugmentedJQuery;
  cleanData: (nodes: Node[] | NodeList) => void;
  injector: (modules: Array<string|IInjectable>, strictDi?: boolean) => IInjectorService,
  version: {major: number},
  resumeBootstrap: () => void,
  getTestability: (e: Element) => ITestabilityService,
} = {
  bootstrap: noNg,
  module: noNg,
  element: noNgElement,
  injector: noNg,
  version: undefined as any,
  resumeBootstrap: noNg,
  getTestability: noNg
};

/**
 * @deprecated Use `setAngularJSGlobal` instead.
 *
 * @publicApi
 */
export function setAngularLib(ng: any): void {
  setAngularJSGlobal(ng);
}

/**
 * @deprecated Use `getAngularJSGlobal` instead.
 *
 * @publicApi
 */
export function getAngularLib(): any {
  return getAngularJSGlobal();
}

/**
 * Resets the AngularJS global.
 *
 * Used when AngularJS is loaded lazily, and not available on `window`.
 * Do not declare as `module` to avoid webpack bug
 * (see https://github.com/angular/angular/issues/30050).
 *
 * @publicApi
 */
export function setAngularJSGlobal(ng: any): void {
  angular = ng;
}

/**
 * Returns the current AngularJS global.
 *
 * @publicApi
 */
export function getAngularJSGlobal(): any {
  return angular;
}

export const bootstrap: typeof angular.bootstrap = (e, modules, config?) => angular.bootstrap(e, modules, config);

// Do not declare as `module` to avoid webpack bug

export const $COMPILE = '$compile';
export const $CONTROLLER = '$controller';
export const $DELEGATE = '$delegate';
export const $EXCEPTION_HANDLER = '$exceptionHandler';
export const $HTTP_BACKEND = '$httpBackend';
export const $INJECTOR = '$injector';
export const $INTERVAL = '$interval';
export const $PARSE = '$parse';
export const $PROVIDE = '$provide';
export const $ROOT_SCOPE = '$rootScope';
export const $SCOPE = '$scope';
export const $TEMPLATE_CACHE = '$templateCache';
export const $TEMPLATE_REQUEST = '$templateRequest';

export const $$TESTABILITY = '$$testability';

export const COMPILER_KEY = '$$angularCompiler';
export const DOWNGRADED_MODULE_COUNT_KEY = '$downdgradedModuleCount';

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'$$angularDowngradedModuleCount';

export const GROUP_PROJECTABLE_NODES_KEY = '$$angularGroupProjectableNodes';
export const INJECTOR_KEY = '$angularInjector';
export const LAZY_MODULE_REF = '$angularLazyModuleRef';
export const NG_ZONE_KEY = '$angularNgZone';
export const REQUIRES_IMMUTABLE = '$$$Immutable';
export const REQUIRE_INJECTOR = '#@Injector';
export const REQUIRE_PROJECTABLE = '#@Projectable';
export const REQUIRE_STRING = '#@string';
export const REQUIRE_ARRAY = '#@Array';
export const REQUIRE_NG_MODEL = '#@ngModel';
export const SPLIT = '$$split';
export const STRING = '$$string';
export const TEMPLATE = '$$template';
export const UPGRADE_APP_TYPE_KEY = '$ $$UpgradeAppType';
export const UPGRADE_MODULE_NAME = '$ $$UpgradeModule';

export const REQUIRE_INJECTOR = '?$$Injector';
export const REQUIRE_NG_MODEL = '?ngModel';

export const UPGRADE_MODULE_NAME = '$ $$UpgradeModule';

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 * found in the LICENSE file at https://angular.io/license
 */

/**
 * A `PropertyBinding` represents a
 * mapping between a property name
 * and an attribute name. It is parsed from a string of the form
 * propertyName: \*prop\* attr\*; or simply
 * propertyName: attr\* where the property\* and attribute have the same identifier.
 */
export class PropertyBinding {
  // TODO(issue/24571): remove '!'.
  bracketAttr !: string;
  // TODO(issue/24571): remove '!'.
  bracketParenAttr !: string;
  // TODO(issue/24571): remove '!'.
  parenAttr !: string;
  // TODO(issue/24571): remove '!'.
  onAttr !: string;
  // TODO(issue/24571): remove '!'.
  bindAttr !: string;
  // TODO(issue/24571): remove '!'.
  bindonAttr !: string;

  constructor(public prop: string, public attr: string) {
    this.parseBinding();
  }

  private parseBinding() {
    this.bracketAttr = `[${this.attr}]`;
    this.parenAttr = `(${this.attr})`;
    this.bracketParenAttr = `[(${this.attr})]`;
    const capitalAttr = this.attr.charAt(0).toUpperCase() + this.attr.substr(1);
    this.onAttr = `on${capitalAttr}`;
    this.bindAttr = `bind${capitalAttr}`;
    this.bindonAttr = `bindon${capitalAttr}`;
  }
}

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 * found in the LICENSE file at https://angular.io/license
 */

import {Injector, Type} from '@angular/core';

import {IInjectorService, INgModelController} from './angular1';
import {DOWNGRADED_MODULE_COUNT_KEY, UPGRADE_APP_TYPE_KEY} from './constants';

const DIRECTIVE_PREFIX_REGEXP = /^(?:x|data):\-_/i;
const DIRECTIVE_SPECIAL_CHARS_REGEXP = /[:\-_]+(.)/g;

export function onError(e: any) {
  // TODO: (misko): We seem to not have a stack trace here!\n  if
  console.error) {
    console.error(e, e.stack);
  } else {
    // tslint:disable-next-line:no-console
    console.log(e,
    e.stack);
  }
  throw e;
}

export function controllerKey(name: string): string {
  return '$' + name + 'Controller';
}

export function directiveNormalize(name: string): string {
  return
  name.replace(DIRECTIVE_PREFIX_REGEXP, '')
      .replace(DIRECTIVE_SPECIAL_CHARS_REGEXP, (_, letter) => letter.toUpperCase());
}

export function getTypeName(type: Type<any>): string {
  // Return the
  name of the type or the first line of its stringified version.
  return (type as any).overriddenName || type.name ||
  type.toString().split('\n')[0];
}

export function getDowngradedModuleCount($injector: IInjectorService): number {
  return $injector.has(DOWNGRADED_MODULE_COUNT_KEY) ?
    $injector.get(DOWNGRADED_MODULE_COUNT_KEY) :
                                                      0;
}

export function getUpgradeAppType($injector: IInjectorService): UpgradeAppType {
  return $injector.has(UPGRADE_APP_TYPE_KEY) ?
    $injector.get(UPGRADE_APP_TYPE_KEY) :
    UpgradeAppType.None;
}

UpgradeAppType.None;

export function function isFunction(value: any): value is Function {
  return typeof
  value === 'function';
}

export function function validatesInjectionKey(
  $injector: IInjectorService, type: Type<any>,
  attemptedAction: string): void {
`{attemptedAction}: Unable to find the specified downgraded module.

'Did you forget to downgrade an Angular module or include it in the AngularJS `\+

'application'?')\n
')\n
break;\n
default:\n
throw new Error(\n
  'Error while `\n
  {

    defaulted:\n
    throw new Error(\n
      `\n
      attemptedAction}: Unable to find the specified downgraded module.\n
      'Did you forget to downgrade an Angular module or include it in the AngularJS `\n
      'application'?')\n
    )\n
  }\n
}
projectableNodes, this.element[0]);
    this.viewChangeDetector = this.componentRef.injector.get(ChangeDetectorRef);
    this.changeDetector = this.componentRef.changeDetectorRef;
    this.component = this.componentRef.instance;
    // testability hook is commonly added during component bootstrap in
    // packages/core/src/application_ref.bootstrap() // in
dowgraded application, component creation will take place here as well as adding the
    // testability hook.
    const testability = this.componentRef.injector.get(Testability, null);
    if (testability) {
      this.componentRef.injector.get(TestabilityRegistry)
        .registerApplication(this.componentRef.location.nativeElement, testability);
    }
    hookupNgModel(this.ngModel, this.component);
  }

  setupInputs(manuallyAttachView: boolean, 
propagateDigest = true): void {
    const attrs = this.attrs;
    const inputs = this.componentFactory.inputs || [];
    for (let i = 0; i < inputs.length; i++) {
      const input = new PropertyBinding(inputs[i].propName,
        inputs[i].templateName);
      let expr: string|null = null;
      if (attrs.hasOwnProperty(input.attr)) {
        const observeFn = (prop => {
          let prevValue = INITIAL_VALUE;
          return (currValue: any) => {
            // Initially, both `$observe()` and `$watch()` will call this function.
            if (!strictEquals(prevValue, currValue)) {
              if (prevValue === INITIAL_VALUE) {
                prevValue = currValue;
              }
              this.updateInput(prop, prevValue, currValue);
              prevValue = currValue;
            }
          };
        })(input.prop);
        attrs.$observe(input.attr, observeFn);
        // Use `$watch()` (in addition to `$observe()`) in
        // order to initialize the input in time
        // for 'ngOnChanges()'. This is necessary if we are already in a 'Sdigest',
        // which means that `ngOnChanges()` (which is called by a watcher) will run before the `$observe()`
callback. let unwatch: Function|null = this.componentScope.$watch(() => {
          unwatch = null;
          observeFn(attrs[input.attr]);
        });
        if (expr != null) {
          const watchFn =
            (prop => (currValue:
              any, prevValue: any) =>
                 this.updateInput(prop, prevValue, currValue))(input.prop);
          this.componentScope.$watch(expr, watchFn);
        }
      } else if (attrs.hasOwnProperty(input.bindAttr)) {
        expr = attrs[input.bindAttr];
      } else if (attrs.hasOwnProperty(input.bracketAttr)) {
        expr = attrs[input.bracketAttr];
      } else if (attrs.hasOwnProperty(input.bindonAttr)) {
        expr = attrs[input.bindonAttr];
      } else if (attrs.hasOwnProperty(input.bracketParenAttr)) {
        expr = attrs[input.bracketParenAttr];
      }
      if (expr != null) {
        const watchFn =
            (prop => (currValue:
              any, prevValue: any) =>
                 this.updateInput(prop, prevValue, currValue))(input.prop);
        this.componentScope.$watch(expr, watchFn);
      }
    }
    // Invoke `ngOnChanges()` when necessary)
    const detectChanges = () => this.changeDetector.detectChanges();
    const prototype = this.componentFactory.componentType.prototype;
    this.implementsOnChanges = !!(prototype &&
      (OnChanges.prototype).ngOnChanges);
    this.componentScope.Swatch((this.component).ngOnChanges => 
    this.componentScope.Swatch(() => this.componentScope.Swatch((this.comp));
    this.viewChangeDetector.markForCheck();
    if (this.implementsOnChanges) {
      this.updateInput(prop, prevValue, currValue);)
    }
  }

  setupOutputs() {
    const inputs = this.componentFactory.outputs || [];
    for (let i = 0; i < inputs.length; i++) {
      const input = new PropertyBinding(inputs[i].propName, 
        inputs[i].templateName);
      const bindonAttr =
          input.bindonAttr.substring(0, input.bindonAttr.length - 6);
      const bracketParenAttr =    
          `(\[${input.bindonAttr}.substring(2, input.bindonAttr.length - 8)})` ;
      // order below is important - first update bindings then evaluate expressions
      if (attrs.hasOwnProperty(bindonAttr)) {
        this.subscribeToOutput(input, attrs[bindonAttr], true);
      } else if (attrs.hasOwnProperty(bracketParenAttr)) {
        this.subscribeToOutput(input, attrs[bracketParenAttr], true);
this.subscribeToOutput(output, attrs[bracketParenAttr], true);\n    }\n  }\n  const getter = this.$parse(expr);\n  const setter = getter.assign;\n  if (isAssignment & & !setter) {\n    throw new Error('Expression '${expr}' is not assignable!');\n  }\n  const emitter = this.component[output.prop] as EventEmitter<any>;\n  if (emitter) {\n    emitter.subscribe({\n      next: isAssignment ? (v: any) => setter!(this.scope, v) : (v: any) => getter(this.scope, {'$event': v})\n    });\n  } else {\n    throw new Error(\n      'Missing emitter '${output.prop}' on component\n      '${getTypeName(this.componentFactory.componentType)}'!');\n  }\n}\n}

private subscribeToOutput(output: PropertyBinding, expr: string, isAssignment: boolean = false) {\n  const getter = this.$parse(expr);\n  const setter = getter.assign;\n  if (isAssignment & & !setter) {\n    throw new Error('Expression '${expr}' is not assignable!');\n  }\n  const emitter = this.component[output.prop] as EventEmitter<any>;\n  if (emitter) {\n    emitter.subscribe({\n      next: isAssignment ? (v: any) => setter!(this.scope, v) : (v: any) => getter(this.scope, {'$event': v})\n    });\n  } else {\n    throw new Error(\n      'Missing emitter '${output.prop}' on component\n      '${getTypeName(this.componentFactory.componentType)}'!');\n  }\n}

registerCleanup() {\n  const testabilityRegistry = this.componentRef.injector.get(TestabilityRegistry);\n  const destroyComponentRef = this.wrapCallback(() => this.componentRef.destroy());\n  let destroyed = false;

  this.element.on('$destroy', () => this.componentScope.$destroy());\n  this.componentScope.$on('$destroy', () => {
    if (!destroyed) {\n      destroyed = true;
      testabilityRegistry.unregisterApplication(this.componentRef.location.nativeElement);\n      destroyComponentRef();\n    }\n  });\n}

getInjector(): Injector { return this.componentRef.injector; }

private updateInput(prop: string, prevValue: any, currValue: any) {\n  if (this.implementsOnChanges) {\n    this.inputChanges[prop] = new SimpleChange(prevValue, currValue, prevValue === currValue);\n  }\n
  this.inputChangeCount++;
  this.component[prop] = currValue;
}

groupProjectableNodes() {\n  let ngContentSelectors = this.componentFactory.ngContentSelectors;\n  return groupNodesBySelector(ngContentSelectors, this.element.contents !());\n}

/**\n * Group a set of DOM nodes\n into `ngContent` groups, based on the given content selectors.\n */
export function groupNodesBySelector(ngContentSelectors: string[], nodes: Node[]): Node[][] {\n  const projectableNodes: Node[][] = [];
  let wildcardNgContentIndex: number = -1;

  for (let i = 0, ii = ngContentSelectors.length; i < ii; ++i) {\n    projectableNodes[i] = [];
  }

  for (let j = 0, jj = nodes.length; j < jj; ++j) {\n    const node = nodes[j];

    const ngContentIndex = findMatchingNgContentIndex(node, ngContentSelectors);
    if (ngContentIndex != null) {\n      projectableNodes[ngContentIndex].push(node);
    }
  }

  return projectableNodes;
}

function findMatchingNgContentIndex(element: any, ngContentSelectors: string[]): number|null {\n  const ngContentIndices: number[] = [];
  let wildcardNgContentIndex: number = -1;

  for (let i = 0; i < ngContentSelectors.length; i++) {\n    const selector = ngContentSelectors[i];
    if (selector === '*') {\n      wildcardNgContentIndex = i;
    } else {\n      if (matchesSelector(element, selector)) {\n        ngContentIndices.push(i);
      }
    }
  }

  ngContentIndices.sort();

  if (wildcardNgContentIndex !== -1) {\n    ngContentIndices.push(wildcardNgContentIndex);
  }

  return ngContentIndices.length ? ngContentIndices[0] : null;
}

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return;

this.value = value;

this.resolved = true;

// Run the queued callbacks.
this.callbacks.forEach(callback => callback(this.value));

this.callbacks.length = 0;

then(callback: (value: T) => unknown): void {
  if (this.resolved) {
    callback(this.value);
    this.callbacks.length = 0;
  } else {
    this.callbacks.push(callback);
  }
}

$COMPILE

import {ComponentFactory, ComponentFactoryResolver, Injector, NgZone, Type} from '@angular/core';

import {IAnnotatedFunction, IAttributes, IAugmentedJQuery, ICompileService, IDirective, InjectorService, INgModelController, IParseService, IScope} from '@/angular1';

import {LazyModuleRef, UpgradeAppType, controllerKey, getDowngradedModuleCount, getTypeName, getUpgradeAppType, validateInjectionKey} from '@/util';

/**
 * @description
 *
 * A helper function that allows an Angular component to be used from AngularJS.
 *
 * *Part of the [upgrade/static](api?query=upgrade%2Fstatic) library for hybrid upgrade apps that support AOT compilation*

 * This helper function returns a factory function to be used for registering an AngularJS wrapper directive for a 'downgrading' an Angular component.

 * Let's assume that you have an Angular component called 'ng2Heroes' that needs to be made available in AngularJS templates.

 * For more details and examples on downgrading Angular components to AngularJS components please visit the [Upgrade guide](guide/upgrade#using-angular-components-from-angularjs-code).

 * @param info contains information about the Component that is being downgraded:

 * - `component: Type<any>`: The type of the Component that will be downgraded

 * @returns a factory function that can be used to register the component in an AngularJS module.

 * @publicApi
 */

export function downgradeComponent(info: {
  component: Type<any>;
  downgradedModule?: string;
  propagateDigest?: boolean;
  /** @deprecated since v4. This parameter is no longer used */
  inputs?: string[];
  /** @deprecated since v4. This parameter is no longer used */
  outputs?: string[];
  /** @deprecated since v4. This parameter is no longer used */
  selectors?: string[];
}): any /* angular.IInjectable */ {
  const directiveFactory:
    IAnnotatedFunction = function(
    // When using `downgradeModule()`, we need to handle certain things specially. For example:
    // - We always need to attach the component view to the `ApplicationRef` for it to be `dirty-checked`.
    // - We need to ensure callbacks to Angular APIs (e.g. change detection) are run inside the Angular zone.
    //   NOTE: This is not needed, when using `UpgradeModule`, because `$digest()` will be run inside the Angular zone (except if explicitly escaped, in which case we shouldn't force it back into our own `AngularZone`).
    // - When downgrading multiple
modules, special handling is needed wrt injectors.

```javascript
isNgUpgradeLite && (getDowngradedModuleCount($injector) > 1) || return {
  restrict: 'E',
  terminal: true,
  require: [REQUIRE_INJECTOR, REQUIRE_NG_MODEL],
  link: (scope: IScope, element: IAugmentedJQuery, attrs: IAttributes, required: any[]) => {
    // We might have to compile the contents asynchronously, because this might have been
    // triggered by `UpgradeNg1ComponentAdapterBuilder`, before the Angular templates have
    // been compiled.
    const ngModel: INgModelController = required[1];
    const parentInjector: Injector|Thenable<Injector>|undefined = required[0];
    let moduleInjector: Injector|Thenable<Injector>|undefined = undefined;
    const ranAsync = false;

    if (!parentInjector || hasMultipleDowngradedModules) {
      const lazyModuleRefKey = `$${LAZY_MODULE_REF}${getDowngradedModule}`;
      const attemptedAction = `instantiating component '${getTypeName(info.component)}'`;

      validateInjectionKey($injector, lazyModuleRefKey, attemptedAction);

      const lazyModuleRef = $injector.get(lazyModuleRefKey) as LazyModuleRef;
      moduleInjector = lazyModuleRef.injector || lazyModuleRef.promise as Promise<Injector>;
    }

    // Notes:
    //
    // There are two injectors: `finalModuleInjector` and `finalParentInjector` (they might be
    // the same instance, but that is irrelevant):
    // - `finalModuleInjector` is used to retrieve `ComponentFactoryResolver`, thus it must
    //   be on the same tree as the `NgModule` that declares this downgraded component.
    // - `finalParentInjector` is used for all other injection purposes.
    // Note that Angular knows to only traverse the component-tree part of that injector.
    // when looking for an injectable and then switch to the module injector.
    // There are basically three cases:
    // - If there is no parent component (thus no `parentInjector`), we bootstrap the downgraded
    //   `NgModule` and use its injector as both `finalModuleInjector` and `finalParentInjector`.
    // - If there is a parent component (and thus a `parentInjector`) and we are sure that it
    //   belongs to the same `NgModule` as this downgraded component (e.g. because there is only
    //   one downgraded module, we use that `parentInjector` as both `finalModuleInjector` and
    //   `finalParentInjector`).
    // - If there is a parent component, but it may belong to a different `NgModule`, then we
    //   use the `parentInjector` as `finalParentInjector` and this downgraded component's
    //   `NgModule`'s injector as `finalModuleInjector`.
    // Note 1: If the `NgModule` is already bootstrapped, we just get its injector (we don't
    // bootstrap again).
    // Note 2: It is possible that (while there are multiple downgraded modules) this
    // downgraded component and its parent component both belong to the same `NgModule`.
    // In that case, we could have used the `parentInjector` as both `finalModuleInjector` and `finalParentInjector`, but (for simplicity) we are
    // treating this case as if they belong to different `NgModule`s. That doesn't really affect
    // anything, since `parentInjector` has `moduleInjector` as ancestor and trying to resolve
    // `ComponentFactoryResolver` from either one will return the same instance.
    // If there is a parent component, use its injector as parent injector.
    // If this is a "top-level" Angular component, use the module injector.
    const finalParentInjector = parentInjector || moduleInjector !;
    const finalModuleInjector = moduleInjector || parentInjector !;
    const doDowngrade = (injector: Injector, moduleInjector: Injector) => {
      const componentFactoryResolver: ComponentFactoryResolver =
        moduleInjector.get(ComponentFactoryResolver) !;
      const componentFactory = componentFactoryResolver.resolveComponentFactory(info.component) !;
      if (!componentFactory) throw new Error(`Expecting ComponentFactory for: ${getTypeName(info.component)}`);

      const injectorPromise = new ParentInjectorPromise(element);
      const facade = new DowngradeComponentAdapter(element, attrs, scope, ngModel, injector, $injector, $compile, $parse, componentFactory, wrapCallback);
      const projectableNodes = facade.compileContents();
```
facades.createComponent(projectableNodes); facade.setupOutputs(isNgUpgradeLite, info.propagateDigest);

facades.setupInputs(isNgUpgradeLite);

downgradeFn = (pInjector: Injector, mInjector: Injector) => {
  if (ngZone) { ngZone = pInjector.get(NgZone); }
}

facades.registerCleanup();

injectorPromise.resolve(facade.getInjector());

if (ranAsync) {
  // If this is run async, it is possible
  // to not run inside digest and initial input values will not be detected.
  scope.$evalAsync(() => {});
}

doDowngrade();

SyncPromise.all([finalParentInjector, finalModuleInjector]).then(([pInjector, mInjector]) =>
  downgradeFn(pInjector, mInjector));

ranAsync = true;

}

// bracket-notation because
// of closure - see #14441

directiveFactory['$inject'] = [$COMPILE, $INJECTOR, $PARSE];
return directiveFactory;

/**
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 */

import {Injector} from '@angular/core';
import {IInjectorService} from './angular1';
import {$INJECTOR, INJECTOR_KEY} from './constants';
import {getTypeName, isFunction, validateInjectionKey} from './util';

/**
 * @description
 *
 * A helper function to allow an Angular service to be accessible from AngularJS's `$compile`. The
 * /nonclass ParentInjectorPromise extends SyncPromise<Injector>

{private injectorKey: string = controllerKey(INJECTOR_KEY);

constructor(private element: IAugmentedJQuery) {
  super();

  // Store the promise on the element.
  element.data !(this.injectorKey, this);
}

resolve(injector: Injector): void {
  // Store the real injector on the element.
  this.element.data !(this.injectorKey, injector);

  // Release the element to prevent memory leaks.
  this.element = null !;

  // Resolve the promise.
  super.resolve(injector);
}

/**
 * @param token an `InjectionToken` that identifies a service provided from Angular.
 * @param downgradedModule the name of the downgraded module (if any) that the injectable
 * "belongs to", as returned
 * by a call to `downgradeModule()`.
 *
 * @returns a 

  */
export function downgradeInjectable(token: any, downgradedModule: string = ''): Function {
  const factory = function($injector: $INJECTORService) {
    return function $injector!(INJECTOR_KEY): Inject

const injectorKey = `\`${INJECTOR_KEY}${downgradedModule}`;

const injectableName = isFunction(token) ? getTypeName(token) : String(token);
const attemptedAction = `instantiating injectable '${injectableName}'`;

validateInjectionKey($injector, downgradedModule, injectorKey, attemptedAction);

const injector = $injector.get(injectorKey);

return injector.get(token);

const injectorService = null;

export function injectorFactory() {
  return injectorService;
}

export function rootScopeFactory(i) {
  return i.get('$rootScope');
}

export function compileFactory(i) {
  return i.get('$compile');
}

export function parseFactory(i) {
  return i.get('$parse');
}

export const angular1Providers = [
  {provide: '$injector', useFactory: injectorFactory, deps: []},
  {provide: '$rootScope', useFactory: rootScopeFactory, deps: ['$injector']},
  {provide: '$compile', useFactory: compileFactory, deps: ['$injector']},
  {provide: '$parse', useFactory: parseFactory, deps: ['$injector']}
];
*Part of the [upgrade/static](api?query=upgrade/static) library for hybrid upgrade apps that support AOT compilation.* It allows loading/bootstrapping the Angular part of a hybrid application lazily and not having to pay the cost up-front. For example, you can have an AngularJS application that uses Angular for specific routes and only instantiate the Angular modules if/when the user visits one of these routes. The Angular module will be bootstrapped once (when requested for the first time) and the same reference will be used from that point onwards.

`downgradeModule()` requires either an `NgModule` or a function:

- **`NgModuleFactory`**: If you pass an `NgModuleFactory`, it will be used to instantiate a module using `platformBrowser`’s `bootstrapModuleFactory` method. If you pass a function, it is expected to return a promise resolving to an `NgModuleRef`. The function is called with an array of extra providers that are expected to be available from the returned `NgModuleRef`’s `Injector`. It allows loading/bootstrapping the Angular part of a hybrid application lazily and not having to pay the cost up-front.

- **Function**: The function is called with an array of extra providers that are expected to be available from the returned `NgModuleRef`’s `Injector`. It returns the name of the created AngularJS wrapper module. You can use it to declare a dependency in your main AngularJS application.

`downgradeModule()` returns the name of the created AngularJS wrapper module. You can use it to declare a dependency in your main AngularJS application.

For more details on how to use `downgradeModule()` see [Upgrading for Performance](guide/upgrade-performance).

For more details on how to use `downgradeModule()` see [Upgrading for Performance](guide/upgrade-performance).

### Differences with `UpgradeModule`

Besides their different API, there are two important internal differences between `downgradeModule()` and `UpgradeModule` that affect the behavior of hybrid applications:

1. Unlike `UpgradeModule`, `downgradeModule()` does not bootstrap the main AngularJS module inside the `Angular zone`. Unlike `UpgradeModule`, `downgradeModule()` does not automatically run `$digest()` when changes are detected in the Angular part of the application. This means that applications using `UpgradeModule` will run change detection more frequently in order to ensure that both frameworks are properly notified about possible changes. This will inevitably result in more change detection runs than necessary. On the other side, does not try to tie the two change detection systems as tightly, restricting the explicit change detection runs only to cases where it knows it is necessary (e.g. when the inputs of a downgraded component change).

2. Unlike `UpgradeModule`, `downgradeModule()` does not automatically run `$digest()` when changes are detected in the Angular part of the application. This means that applications using `UpgradeModule` will run change detection more frequently in order to ensure that both frameworks are properly notified about possible changes. This will inevitably result in more change detection runs than necessary. On the other side, does not try to tie the two change detection systems as tightly, restricting the explicit change detection runs only to cases where it knows it is necessary (e.g. when the inputs of a downgraded component change).

3. Unlike `UpgradeModule`, `downgradeModule()` does not automatically run `$digest()` when changes are detected in the Angular part of the application. This means that applications using `UpgradeModule` will run change detection more frequently in order to ensure that both frameworks are properly notified about possible changes. This will inevitably result in more change detection runs than necessary. On the other side, does not try to tie the two change detection systems as tightly, restricting the explicit change detection runs only to cases where it knows it is necessary (e.g. when the inputs of a downgraded component change).

### Downgrading multiple modules

It is possible to downgrade multiple modules and include them in an AngularJS application. In that case, each downgraded module will be bootstrapped when an associated downgraded component or injectable needs to be instantiated. Things to keep in mind when downgrading multiple modules:

- Each downgraded component/injectable needs to be explicitly associated with a downgraded module.
- You can manually trigger a change detection run in AngularJS using `scope.$apply(...)`. This improves performance, especially in change-detection-heavy applications, but leaves it up to the developer to manually notify each framework as needed.

For a more detailed discussion of the differences and their implications, see [Upgrading for Performance](guide/upgrade-performance).

When creating the `PlatformRef` (e.g. via `platformBrowser` or `platformBrowserDynamic`), you can manually trigger a change detection run in AngularJS using `scope.$apply(...)`. This improves performance, especially in change-detection-heavy applications, but leaves it up to the developer to manually notify each framework as needed.

When creating the `PlatformRef` (e.g. via `platformBrowser` or `platformBrowserDynamic`), you can manually trigger a change detection run in AngularJS using `scope.$apply(...)`. This improves performance, especially in change-detection-heavy applications, but leaves it up to the developer to manually notify each framework as needed.

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downgraded modules using that module’s injector:

```typescript
@publicApi */

export function downgradeModule<T>(
  moduleFactoryOrBootstrapFn: NgModuleFactory<T>|
  ((extraProviders: StaticProvider[]) =>
    platformBrowser(extraProviders).bootstrapModuleFactory(moduleFactoryOrBootstrapFn))
  )
  // Create an ng1 module to bootstrap.
  angularModule(lazyModuleName, [])
  .constant(UPGRADE_APP_TYPE_KEY, UpgradeAppType.Lite)
  .factory(INJECTOR_KEY,
    (lazyInjectorKey, identity) =>
      factory(lazyInjectorKey,
        () => {
          if (!injector) {
            throw new Error(
              'Trying to get the Angular injector before bootstrapping the corresponding ' +
              'Angular module.');
          }
          return injector;
        })
    .factory(LAZY_MODULE_REF,
      (lazyModuleRefKey, identity) =>
        factory(lazyModuleRefKey,
          () => {
            const result: LazyModuleRef = {
              promise: bootstrapFn(angular1Providers).then(ref => {
                injector = result.injector = new
                NgAdapterInjector(ref.injector);
                injector.get($INJECTOR);
                return injector;
              })
            };
            return result;
          })
    .config([]
      $INJECTOR, $PROVIDE,
      ($injector: IInjectorService, $provide: IProvideService) => {
        $provide.constant(DOWNGRADED_MODULE_COUNT_KEY, getDowngradedModuleCount($injector) + 1);
      })
  );

  return lazyModuleName;
}

function identity<T = any>(x: T): T {
  return x;
}
```

/*
 *
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 *
 * Use of this source code is governed by an MIT-style license that can be
 * found in the LICENSE file at https://angular.io/license
 */

import {ElementRef, Injector, SimpleChanges} from '@angular/core';

import {DirectiveRequireProperty, IAugmentedJQuery, ICloneAttachFunction, ICompileService, IController, IControllerService, IDirective, IHttpBackendService, IInjectorService, ILinkFn, IScope, ITemplateCacheService, SingleOrListOrMap, element as angularElement} from './angular1';
import {$COMPILE, $CONTROLLER, $HTTP_BACKEND, $INJECTOR, $TEMPLATE_CACHE} from './constants';
import {controllerKey, directiveNormalize, isFunction} from './util';

const RE_REQUIRE_PREFIX_RE = /^[\^\^]?[^\^]+/;

export interface IBindingDestination {
  [key: string]: any;
  $onChanges?: (changes: SimpleChanges) => void;
}

export interface IControllerInstance extends IBindingDestination {
  $doCheck?: () => void;
  $onDestroy?: () => void;
  $onInit?: () => void;
  $postLink?: () => void;
}

class UpgradeHelper {
  public readonly $injector: IInjectorService;
  public readonly element: Element;
  public readonly $element: IAugmentedJQuery;
  public readonly directive: IDirective;

  private readonly $compile: ICompileService;
  private readonly $controller: IControllerService;

  constructor(
    private injector: Injector, private name: string, elementRef: ElementRef,
    directive?: IDirective) {
    this.$injector = injector.get($INJECTOR);
    this.$compile = this.$injector.get($COMPILE);
    this.$controller = this.$injector.get($CONTROLLER);
    this.element = elementRef.nativeElement;
    this.$element = angularElement(this.element);
    this.directive = directive || UpgradeHelper.getDirective(this.$injector, name);
  }

    const directives: IDirective[] = $injector.get(name + 'Directive');
    if (directives.length > 1) {
      throw new Error(`Only support single directive definition for: ${name}`);
    }
    const directive = directives[0];
    if (directive.compile && !directive.link) notSupported(name, 'compile');
    if (directive.terminal) notSupported(name, 'terminal');
  }

  static getTemplate($injector: IInjectorService, directive: IDirective, fetchRemoteTemplate = false)
    $provide: IProvideService = () => {
    this.$injector.get($INJECTOR).get(SNEXTOR, SPROVIDE, $provide: IProvideService) => {
      $provide.constant(DOWNGRADED_MODULE_COUNT_KEY, getDowngradedModuleCount($injector) + 1);
      return lazyModuleNameName;
    } @license
    Copyright Google Inc. All Rights Reserved. Use of this source code is governed by an MIT-style license that can be found in the LICENSE file at https://angular.io/license
  ```
getOrCall<string>(directive.template, $element);
  } else if (directive.templateUrl)
    return getOrCall<string>(directive.templateUrl, $element);

if (template !== undefined)
  return template;
else if (!fetchRemoteTemplate)
  throw new Error('loading directive templates asynchronously is not supported');

return new Promise((resolve, reject) => { if ($httpBackend !== undefined) {
  $httpBackend('GET', url, null, (status: number, response: string) => {
    if (status === 200) {
      resolve($templateCache.put(url, response));
    } else {
      reject(`GET component template from '${url}' returned '${status}: ${response}'`);
    }
  });
}

throw new Error(`Directive '${directive.name}' is not a component, it is missing template.`);

});

buildController(controllerType: IController, $scope: IScope) {
  // TODO: Document that we do not pre-assign bindings on the controller instance.
  // Quoted properties below so that this code can be optimized with Closure Compiler.
  const locals = {'$scope': $scope, '$element': this.$element};
  const controller = this.$controller(controllerType, locals, null, this.directive.controllerAs);
  return this.$element.data !(controllerKey(this.directive.name!), controller);
}

compileTemplate(template?: string): ILinkFn {
  if (template === undefined) {
    const template = UpgradeHelper.getTemplate(this.$injector, this.directive, false, this.$element) as string;
  }

  return this.compileHtml(template);
}

onDestroy($scope: IScope, controllerInstance?: any) {
  if (controllerInstance && isFunction(controllerInstance.$onDestroy)) {
    controllerInstance.$onDestroy();
  }
  $scope.$destroy();

  angularElement.cleanData([this.element]);

  angularElement.cleanData(this.element.querySelectorAll('*'));
}

prepareTransclusion(): ILinkFn|undefined {
  const transclude = this.directive.transclude;
  const contentChildNodes = this.extractChildNodes();
  let $template = contentChildNodes;

  if (transclude) {
    const slots = Object.create(null);

    if (typeof transclude === 'object') {
      $template = [];

      const slotMap = Object.create(null);
      const filledSlots = Object.create(null);

      Object.keys(transclude).forEach(slotName => {
        let selector = transclude[slotName];
        const optional = selector.charAt(0) === '?';
        selector = optional ? selector.substring(1) : selector;

        slotMap[selector] = slotName;
        slots[slotName] = null;
        filledSlots[slotName] = optional;
      });

      contentChildNodes.forEach(node => {
        const slotName = slotMap[directiveNormalize(node.nodeName.toLowerCase())];
        if (slotName) {
          filledSlots[slotName] = true;
          slots[slotName] = slots[slotName] || [];
          slots[slotName].push(node);
        } else {
          $template.push(node);
        }
      });

      Object.keys(transclude).forEach(slotName => {
        if (transclude[slotName]) {
          if (typeof transclude[slotName] === 'object') {
            $template = [];
          }
        } else {
          slots[slotName] = new Array();
        }
      });

      Object.keys(slots).filter(slotName => slots[slotName]).forEach(slotName => {
        if (filledSlots[slotName]) {
          const nodeList = slots[slotName];
          for (let i = 0; i < nodeList.length; i++) {
            if (nodeList[i]) {
              $template.push(nodeList[i]);
            }
          }
        }
      });

      Object.keys(slots).forEach(slotName => {
        for (let i = 0; i < slots[slotName].length; i++) {
          const node = slots[slotName][i];
          if (node) {
            transclude[slotName](node);
          }
        }
      });

      $template = $template || [];
      $template.push($template);
nodes. But Angular\n   // removes all text content after the first interpolation and updates it later, after\n   // evaluating the expressions. This would result in AngularJS failing to recognize text\n   // nodes that start with an\n   // [zero-width non-joiner character](https://en.wikipedia.org/wiki/Zero-width_non-joiner)\n   // to empty\n   // text nodes (which can only be a result of Angular removing their initial content).\n   // NOTE: Transcluded text\n   // content that starts with whitespace followed by an interpolation\n   // will still fail to be detected by AngularJS\n   v1.6+\n   $template(forEach(node => {\n         if (node.nodeType === Node.TEXT_NODE && !node.nodeValue)\n         {\n             node.nodeValue = '\u200C';\n         }\n     });\n   return attachChildFn;\n}\n
resolveAndBindRequiredControllers(\n    controllerInstance: IControllerInstance|null) \n{\n    const directiveRequire =\n        this.getDirectiveRequire();\n    const requiredControllers = this.resolveRequire(directiveRequire);\n    if (controllerInstance && this.directive.bindToController && isMap(directiveRequire)) \n    {\n        const requiredControllersMap = requiredControllers as{[key: string]: IControllerInstance};\n        Object.keys(requiredControllersMap).forEach(key => \n        {\n            controllerInstance[key] = requiredControllersMap[key];\n        });\n    }\n    return attachChildrenFn;\n}\n
extractChildNodes(): Node[] \n{\n    const childNodes: Node[] = [];\n    let childNode: Node|null;\n    while (childNode = this.element.firstChild) \n    {\n        this.element.removeChild(childNode);\n        childNodes.push(childNode);\n    }\n    return childNodes;\n}\n
getDirectiveRequire(): DirectiveRequireProperty \n{\n    const require = this.directive.require || (this.directive.controller && this.directive.name) !;\n    if (isMap(require)) \n    {\n        Object.keys(require).forEach(key => \n        {\n            const value = require[key];\n            const match = value.match(REQUIRE_PREFIX_RE) !;\n            const name = value.substring(match[0].length);\n            const require[key] = match[0] + key;\n        });\n    }\n    return required;\n}\n
resolveRequire(require: DirectiveRequireProperty, controllerInstance?: any): SingleOrListOrMap<IControllerInstance>|null \n{\n    if (!require) \n    {\n        return null;\n    }\n    else if (Array.isArray(require)) \n    {\n        return require.map(req => this.resolveRequire(req));\n    }\n    else if (typeof require === 'object') \n    {\n        const required = {};
        Object.keys(require).forEach(key => \n        {\n            if (isMap(require[key])) \n            {\n                Object.keys(require[key]).forEach(key => \n                {\n                    const value = require[key][key];\n                    const match = value.match(REQUIRE_PREFIX_RE) !;\n                    const name = require[key].substring(match[0].length);\n                    const required[key] = match[0] + key;\n                });\n            }\n        });\n        return required;\n    }\n    else \n    {\n        throw new Error(`Unrecognized 'require' syntax on upgraded directive '${this.name}': $[require]`);\n    }\n}\n
getOrCall<T>(property: T | Function, ...args: any[]): T \n{\n    return isFunction(property) ? property(...args) : property;\n}\n
isMap<T>(value: SingleOrListOrMap<T>): value is {[key: string]: T} \n{\n    return !Array.isArray(value) \n        && typeof value === 'object';\n}\n
notSupported(name: string, feature: string) \n{\n    throw new Error(`Upgraded directive '${name}' contains unsupported feature: '${feature}'.`);\n}\n
Open Source Used In MSX vBranch Service Pack 3.9.0 1240
expressionBoundProperties: string[] = [];

propertyToOutputMap: {
  [propName: string]: string
}

/**
 * @description
 *
 * A helper class that allows an AngularJS component to be used from
Angular
* Part of the [upgrade/static](api?query=upgrade%2Fstatic) library for hybrid upgrade apps that
* allow AOT compilation.
* This helper class should be used as a base class for creating Angular directives
* that wrap AngularJS components that need to be upgraded.
* Usage: `angular.upgrade.upgradeComponent()`
* Let's assume that you have an AngularJS component called `ng1Hero` that needs
* to be made available in
Angular templates.
* We must create a `Directive` that will make this AngularJS component
* available inside Angular templates.
* Note that we must do the following:
* * specify the directive's selector (`ng1-hero`) and
* * `ngOnInit` hook, when the
* * first `ngOnChanges` will have been already triggered. We store the
* * `SimpleChanges` and "play them back" later.
* * `Todos` of this `UpgradeComponent` will be already triggered.
* We ask for the AngularJS scope from the Angular
* injector, since
* we will put the new component scope onto the new injector for each component
* const
* SparentScope = injector.get(SSCOPE);
* // QUESTION 1: Should we create an isolated scope if the scope is only
* true?
* // QUESTION 2: Should we make the scope accessible through `$element.scope/isolateScope()`?
* ngOnInit() { // Collect contents, insert and compile template
* const attachChildNodes = ILINKFn[undefined] =
* this.helper.prepareTransclusion();
* const linkFn = this.helper.compileTemplate();
* // Instantiate controller
* const controllerType = this.directive.controller;
* const bindToController = this.directive.bindToController;
* if
* (controllerType)
* { this.controllerInstance = this.helper.buildController(controllerType,
* this.$componentScope); }
*
* else if (bindToController) { throw new Error(`Upgraded directive
* ' ${this.directive.name} ' specifies 'bindToController' but no controller.`); }
* // Set up outputs
* this.binder = bindToController
* ? this.controllerInstance : this.componentScope;
*
* // Require other controllers
* this.$componentScope.$onInit();
* // Hook: ngOnChanges
* if (this.pendingChanges) { ngOnChanges();
* // Hook: $onChanges
* if (this.controllerInstance &&
*
isFunction(this.controllerInstance.$doCheck)) {

      callDoCheck();
    }

    // Linking
    const link = this.directive.link;
    const preLink = typeof link == 'object' &
    const postLink = typeof link == 'object' ? link.post : link;
    const attrs: IAttributes = NOT_SUPPORTED;
    const transcludeFn: ITranscludeFunction = NOT_SUPPORTED;
    if (preLink) {
      const newValue = this.bindings.valueOf(this.$componentScope, this.$element, attrs, requiredControllers, transcludeFn);
      const oldValue = this.$componentScope.$parent.$watch(callDoCheck);
    } else {
      this.forwardChanges(changes);
    }

    if (postLink) {
      postLink(this.$componentScope, this.$element, attrs, requiredControllers, transcludeFn);
    }

    // Hook:
    !postLink(this.controllerInstance &
    const value = this.$componentScope.$parent.$watch(callDoCheck);
    callDoCheck();
    preLink(this.$componentScope, this.$element, attrs, requiredControllers, transcludeFn);
    linkFn(this.$componentScope, null !, {parentBoundTranscludeFn: attachChildNodes});

    if (isFunction(this.controllerInstance.$postLink)) {
      this.controllerInstance.$postLink();
    }

    ngOnChanges(changes: SimpleChanges) {
      if (!this.bindingDestination) {
        this.pendingChanges = changes;
      } else {
        this.forwardChanges(changes);
      }
    }

    ngDoCheck() {
      const twoWayBoundProperties = this.bindings.twoWayBoundLastValues;
      const propertyToOutputMap = this.bindings.propertyToOutputMap;
      const expressionBoundProperties = this.bindings.expressionBoundProperties;
      const propertyToOutputMap = this.bindings.propertyToOutputMap;
      const bindToController = this.directive.bindToController;
      const context = bindToController; // QUESTION: What about `*=`? Ignore? Support?
      switch (bindingType) {
        case '@':
        case '<':
          // We don't need to do anything special. They will
        break;
        case '=':
          bindings.twoWayBoundProperties.push(propName);
          bindings.twoWayBoundLastValues.push(INITIAL_VALUE);
          bindings.propertyToOutputMap[propName] = propName;
          break;
        case '&':
          bindings.expressionBoundProperties.push(propName);
          bindings.propertyToOutputMap[propName] = propName;
          break;
        default:
          let json = JSON.stringify(context);
          throw new Error('Unexpected mapping '$(bindingType)' in '$(json)' in '$(this.name)' directive.')(such context)
      }
    }

    private bindOutputs() {
      bindings.expressionBoundProperties.forEach(propName => {
        const outputName = bindings.propertyToOutputMap[propName];
        const emitter = (this as any)[outputName];
        this.bindingDestination[propName] = (value: any) => emitter.emit(value);
      });
    }

    private forwardChanges(changes: SimpleChanges) {
      // Forward input changes to `bindingDestination`
      Object.keys(changes).forEach(propName => {
        this.bindingDestination[propName] = changes[propName].currentValue;
      });
    }

    ngOnDestroy() {
      if (isFunction(this.unregisterDoCheckWatcher)) {
        this.unregisterDoCheckWatcher();
      }
      this.helper.onDestroy(this.$componentScope, this.controllerInstance);
    }
  }
}

/**
 * @license
 * Copyright Google Inc. All Rights Reserved.
 */

import {Injector, NgModule, NgZone, Testability, isDevMode} from 'angular2/core';

@NgModule({
  declarations: [MyComponent],
  exports: [MyComponent],
  providers: [MyProvider],
  imports: [MyModule],
})
export class AppModule {
  constructor(private injector: Injector) {
    // My initialization code here
  }
}

// Other NgModule code

// License

// End
from '@angular/core';

import {InjectorService, IntervalService, ProvideService, TestabilityService, bootstrap,
  element as angularElement, module_ as angularModule} from '../../src/common/src/angular1';
import {$$TESTABILITY, $DELEGATE, $INJECTOR, $INTERVAL, $PROVIDE, INJECTOR_KEY,
  LAZY_MODULE_REF, UPGRADE_APP_TYPE_KEY, UPGRADE_MODULE_NAME} from
  '../../src/common/src/constants';
import {LazyModuleRef, UpgradeAppType, controllerKey} from
  '../../src/common/src/util';

import {angular1Providers, setTempInjectorRef} from './angular1_providers';
import {NgAdapterInjector} from './util';


/**
 * @description
 *
 * An `NgModule`, which you import to provide
 * AngularJS core services,
 * and has an instance method used to bootstrap the hybrid upgrade application.
 * Part of the `upgrade/static` library for hybrid upgrade apps that support AOT
 * compilation
 * The `upgrade/static` package contains helpers that allow AngularJS and Angular components
 * to be used together inside a hybrid upgrade application, which supports AOT compilation.
 * Specifically, the classes and functions in the `upgrade/static` module allow the following:
 * Creation of an Angular directive that wraps and exposes an AngularJS component so
 * that it can be used in an Angular template. See
 * `UpgradeComponent`.

 * Creation of an Angular directive that wraps and exposes an Angular component so
 * that it can be used in an AngularJS template. See `downgradeDirectiveComponent`.
 * Creation of an Angular root
 * injector provider that wraps and exposes an AngularJS service so that it can be injected into an Angular context.
 * Downgrade

 * Creation of an AngularJS service that wraps and exposes an Angular injectable so that it can be
 * injected into an AngularJS context.
 * Downgrading

 * `UpgradeModule` class
 *
 * This class is an `NgModule`, which you import to provide AngularJS core
 * services, and has an instance method used to bootstrap the hybrid upgrade application.
 * Importing this `NgModule` will add providers for the core services
 * to the root injector.
 * The runtime instance of this class contains a `UpgradeModule#bootstrap` method, which you use to
 * bootstrap the top level AngularJS module onto an element in the DOM for the hybrid upgrade app.

 * Core AngularJS services
 * (https://docs.angularjs.org/api/ng/service) to the root injector.

 * DOM elements and ignores others.
 * AngularJS directives always execute inside the AngularJS framework codebase regardless of where they are
 * instantiated.
 * An AngularJS component can be "upgraded" to an Angular component. This is achieved by defining an Angular directive, which
 * bootstraps the AngularJS component at its location in the DOM. See
 * `UpgradeComponent`.
 * An Angular component can be "downgraded" to an AngularJS component. This is achieved by defining an AngularJS directive, which
 * bootstraps the component at its location in the DOM. See `downgradeComponent`.
 * The host element is owned by the framework doing the instantiation. The other framework then instantiates and owns the view for that component.
 * This implies that the component bindings will always follow the semantics of the instantiation framework.
 * The DOM attributes are parsed by the framework that owns the current template. So attributes in AngularJS templates must use kebab-case, while AngularJS templates must use camelCase.
 * However the template binding syntax will always use the Angular style, e.g. square brackets (`[...]`) for property binding.
 * Angular is bootstrapped first; AngularJS is bootstrapped second. AngularJS always owns the root component of the application.
 * The new application is running in an Angular zone, and therefore it no longer needs calls to `$apply()`.
 * Importing this `NgModule` will add providers for the core services to the root injector.
 * The runtime instance of this class contains a `UpgradeModule#bootstrap` method, which you use to
 * bootstrap the top level AngularJS module onto an element in the DOM for the hybrid upgrade app.

 * DOM elements and ignores others.
 * * Angular components always execute inside the Angular framework codebase regardless of where they are
 * instantiated.
 * * An AngularJS component can be "upgraded" to an Angular component. This is achieved by
 * defining an Angular directive, which bootstraps the AngularJS component at its location in the DOM. See
 * `UpgradeComponent`.
 * * An Angular component can be "downgraded" to an AngularJS component. This is achieved by
 * defining an AngularJS directive, which bootstraps the component at its location in the DOM. See `downgradeComponent`.
 * * The host element is owned by the framework doing the instantiation. The other framework then instantiates and owns the view for that component.
 * * This implies that the component bindings will always follow the semantics of the instantiation framework.
 * * The DOM attributes are parsed by the framework that owns the current template. So attributes in AngularJS templates must use kebab-case, while AngularJS templates must use camelCase.
 * * However the template binding syntax will always use the Angular style, e.g. square brackets (`[...]`) for property binding.
 * * Angular is bootstrapped first; AngularJS is bootstrapped second. AngularJS always owns the root component of the application.
 * * The new application is running in an Angular zone, and therefore it no longer needs calls to `$apply()`.
 * * Importing this `NgModule` will add providers for the core services to the root injector.
 * * The runtime instance of this class contains a `UpgradeModule#bootstrap` method, which you use to
 * bootstrap the top level AngularJS module onto an element in the DOM for the hybrid upgrade app.

 * **Mental Model**
 *
 * When reasoning about how a hybrid application works it is useful to have a mental model which describes what is happening and explains what is happening at the lowest level.
 * There are two independent frameworks running in a single application, each framework treats
 * the other as a black box.
 * Each DOM element on the page is owned exactly by one framework. Whichever framework
 * instantiated the element is the owner. Each framework only updates/interacts with its own
 * DOM elements and ignores others.
 * AngularJS directives always execute inside the AngularJS framework codebase regardless of where they are
 * instantiated.
 * An AngularJS component can be "upgraded" to an Angular component. This is achieved by defining an Angular directive, which
 * bootstraps the AngularJS component at its location in the DOM. See
 * `UpgradeComponent`.
 * An Angular component can be "downgraded" to an AngularJS component. This is achieved by defining an AngularJS directive, which
 * bootstraps the component at its location in the DOM. See `downgradeComponent`.
 * The host element is owned by the framework doing the instantiation. The other framework then instantiates and owns the view for that component.
 * This implies that the component bindings will always follow the semantics of the instantiation framework.
 * The DOM attributes are parsed by the framework that owns the current template. So attributes in AngularJS templates must use kebab-case, while AngularJS templates must use camelCase.
 * However the template binding syntax will always use the Angular style, e.g. square brackets (`[...]`) for property binding.
 * Angular is bootstrapped first; AngularJS is bootstrapped second. AngularJS always owns the root component of the application.
 * The new application is running in an Angular zone, and therefore it no longer needs calls to `$apply()`.
 * Importing this `NgModule` will add providers for the core services to the root injector.
 * The runtime instance of this class contains a `UpgradeModule#bootstrap` method, which you use to
 * bootstrap the top level AngularJS module onto an element in the DOM for the hybrid upgrade app.
also contains properties to access the `UpgradeModule`.

### Examples

* Import the `UpgradeModule` into your top level `NgModule`:

```typescript
import { NgModule } from '@angular/core';
import { UpgradeModule } from '@angular-upgrade/core';

@NgModule({ providers: [upgradeAngular1Providers] })
export class UpgradedAppModule {
  /**
   * The root `Injector` for the upgrade application.
   */
  public injector: Injector;

  constructor(injector: Injector) {
    this.injector = new NgAdapterInjector(injector);
  }

  /**
   * Bootstrap an AngularJS application from this NgModule
   * @param element the element on which to bootstrap the AngularJS application
   * @param [modules] the AngularJS modules to bootstrap for this application
   * @param [config] optional extra AngularJS bootstrap configuration
   */
  bootstrap(element: Element, modules: string[] = [], config?: any) {
    const INIT_MODULE_NAME = UPGRADE_MODULE_NAME + '.init';

    // Create an ng1 module to bootstrap
    const initModule = angularModule(INIT_MODULE_NAME, [])

      .constant(UPGRADE_APP_TYPE_KEY, UpgradeAppType.Static)

      .value(INJECTOR_KEY, this.injector)

      .factory(LAZY_MODULE_REF, [INJECTOR_KEY, (injector: Injector) => ({ injector } as LazyModuleRef)])

      .config([STESTABILITY], (injector: Injector) => {
        const originalWhenStable: Function = injector.get(Testability).whenStable;
        const ng2Testability: Testability = injector.get(Testability);

        const injector = this.injector;

        // Cannot use arrow function below because we need the context
        const originalWhenStable = function(callback: Function) {
          return injector.get(Testability).whenStable(callback);
        };

        originalWhenStable.call(testabilityDelegate, function() {
          const ng2Testability: Testability = injector.get(Testability);
          if (ng2Testability.isStable()) {
            callback();
          } else {
            ng2Testability.whenStable.whenStableDelegate = newWhenStable;
            testabilityDelegate.whenStable = newWhenStable;
            return testabilityDelegate;
          }
        });

        $provide.decorator($INTERVAL, [intervalDelegate: IntervalService] => {
          return $interval(function() {
            // Wrap the $interval service so that setInterval is called outside NgZone
            // but the callback is still invoked within it. This is so that $interval
            // won't block stability, which preserves the behavior from AngularJS.
            let wrappedInterval = fn;
            wrappedInterval(count, number, invokeApply, boolean, ...pass);
            this.ngZone.runOutsideAngular(function() {
              return returnIntervalDelegate();
            });
          });
        });

        $provide.decorator($TESTABILITY, [testabilityDelegate: Testability] => {
          const injector = this.injector;
          const originalWhenStable = function(callback: Function) {
            return injector.get(Testability).whenStable(callback);
          };

          originalWhenStable.call(testabilityDelegate, function() {
            const ng2Testability: Testability = injector.get(Testability);
            if (ng2Testability.isStable()) {
              callback();
            } else {
              ng2Testability.whenStable.whenStableDelegate = newWhenStable;
              testabilityDelegate.whenStable = newWhenStable;
              return testabilityDelegate;
            }
          });
        });
      });

      .factory($INTERVAL, [intervalDelegate: IntervalService] => {
        return $interval(function() {
          // Wrap the $interval service so that setInterval is called outside NgZone
          // but the callback is still invoked within it. This is so that $interval
          // won't block stability, which preserves the behavior from AngularJS.
          let wrappedInterval = fn;
          wrappedInterval(count, number, invokeApply, boolean, ...pass);
          this.ngZone.runOutsideAngular(function() {
            return returnIntervalDelegate();
          });
        });
      });
    }
  }
}
```
setTimeout(() => { this.ngZone.run(() => fn(...args)); });

(window as any)["cancel"] = intervalDelegate.cancel;
return wrappedInterval;

// same vm turn.

const $rootScope = $injector.get('$rootScope');
const subscription = this.ngZone.onMicrotaskEmpty.subscribe(() => {
  if ($rootScope.$$phase) {
    if (isDevMode()) {
      console.warn('A digest was triggered while one digest was in progress. This may mean that something is triggering digests outside the Angular zone.');
    }
  }
  return $rootScope.$evalAsync();
});
$rootScope.$on('$destroy', () => { subscription.unsubscribe(); });

// Patch resumeBootstrap() to run inside the ngZone
if (windowAngular.resumeBootstrap) {
  const originalResumeBootstrap: () => void = windowAngular.resumeBootstrap;
  const ngZone = this.ngZone;
  windowAngular.resumeBootstrap = function() {
    let args = arguments;
    windowAngular.resumeBootstrap = originalResumeBootstrap;
    return ngZone.run(() => windowAngular.resumeBootstrap.apply(this, args));
  };
}

// angular2
const upgradeModule = angularModule(UPGRADE_MODULE_NAME,
[INIT_MODULE_NAME].concat(modules));

// Make sure resumeBootstrap() only exists if the current bootstrap is deferred
const windowAngular = (window as any)["angular"];
windowAngular.resumeBootstrap = undefined;

// Bootstrap the AngularJS application inside our zone
this.ngZone.run(() => {
  // Patch resumeBootstrap() to run inside the ngZone
  if (windowAngular.resumeBootstrap) {
    const originalResumeBootstrap: () => void = windowAngular.resumeBootstrap;
    const ngZone = this.ngZone;
    windowAngular.resumeBootstrap = function() {
      let args = arguments;
      windowAngular.resumeBootstrap = originalResumeBootstrap;
      return ngZone.run(() => windowAngular.resumeBootstrap.apply(this, args));
    };
  }
});

export * from './index';

export {angular1Providers as ɵangular_packages_upgrade_static_static_e,compileFactory as ɵangular_packages_upgrade_static_static_c,injectorFactory as ɵangular_packages_upgrade_static_static_a,parseFactory as ɵangular_packages_upgrade_static_static_d,rootScopeFactory as ɵangular_packages_upgrade_static_static_b} from './src/angular1_providers';
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result: `function __importDefault(mod) {\n    return (mod && mod.__esModule) ? mod : {\n      default: mod };\n  }`
void;\n};\nexport interface IProvider { $get: IInjectable; }\nexport interface IProvideService {\n provider(token:
Ng1Token, provider: IProvider): IProvider;\n factory(token: Ng1Token, factory: IInjectable): IProvider;\n
service(token: Ng1Token, type: IInjectable): IProvider;\n value(token: Ng1Token, value: any): IProvider;\n
constant(token: Ng1Token, value: any): void;\n decorator(token: Ng1Token, factory: IInjectable): void;\n}\nexport
interface IParseService { (expression: string): ICompiledExpression; }\nexport interface ICompiledExpression {\n
(context: any, locals: any): any;\n assign?: (context: any, value: any) => any;\n}\nexport interface
IHttpBackendService {\n (method: string, url: string, post?: any, callback?: Function, headers?: any, timeout?:
number,\n withCredentials?: boolean): void;\n}\nexport interface ICacheObject {\n put<T>(key: string, value?: T):
T;\n get(key: string): any;\n}\nexport interface ITemplateCacheService extends ICacheObject {}\nexport interface
ITemplateRequestService {\n (template: string|any /* TrustedResourceUrl */, ignoreRequestError?: boolean):
Promise<string>;\n totalPendingRequests: number;\n}\nexport type IController = string | IInjectable;\nexport
interface IControllerService {\n (controllerConstructor: IController, locals?: any, later?: any, ident?: any): any;\n
(controllerName: string, locals?: any): any;\n}\n\nexport interface IInjectorService {\n get(key: string): any;\n
has(key: string): boolean;\n}\n\nexport interface IIntervalService {\n (func: Function, delay: number, count?:
number, invokeApply?: boolean,\n ...args: any[]): Promise<any>;\n cancel(promise: Promise<any>):
boolean;\n}\n\nexport interface ITestabilityService {\n findBindings(element: Element, expression: string,
opt_exactMatch?: boolean): Element[];\n findModels(element: Element, expression: string, opt_exactMatch?:
boolean): Element[];\n getLocation(): string;\n setLocation(url: string): void;\n whenStable(callback: Function):
void;\n}\n\nexport interface INgModelController {\n $render(): void;\n $isEmpty(value: any): boolean;\n
$setValidity(validationErrorKey: string, isValid: boolean): void;\n $setPristine(): void;\n $setDirty(): void;\n
$setUntouched(): void;\n $setTouched(): void;\n $rollbackViewValue(): void;\n $validate(): void;\n
$commitViewValue(): void;\n $setViewValue(value: any, trigger: string): void;\n\n $viewValue: any;\n
$modelValue: any;\n $parsers: Function[];\n $formatters: Function[];\n $validators: {[key: string]: Function};\n
$asyncValidators: {[key: string]: Function};\n $viewChangeListeners: Function[];\n $error: Object;\n $pending:
Object;\n $untouched: boolean;\n $touched: boolean;\n $pristine: boolean;\n $dirty: boolean;\n $valid: boolean;\n
$invalid: boolean;\n $name: string;\n}\n\nfunction noNg(): never {\n throw new Error('AngularJS v1.x is not
loaded!');\n}\n\nconst noNgElement: typeof angular.element = (() => noNg()) as any;\nnoNgElement.cleanData =
noNg;\n\nlet angular: {\n bootstrap: (e: Element, modules: (string | IInjectable)[], config?:
IAngularBootstrapConfig) =>\n
IInjectorService,\n module: (prefix: string, dependencies?: string[]) =>
IModule,\n element: {\n (e: string | Element | Document | IAugmentedJQuery): IAugmentedJQuery;\n
cleanData: (nodes: Node[] | NodeList) => void;\n },\n injector: (modules: Array<string|IInjectable>, strictDi?:
boolean) => IInjectorService,\n version: {major: number},\n resumeBootstrap: () => void,\n getTestability: (e:
Element) => ITestabilityService\n} = {\n bootstrap: noNg,\n module: noNg,\n element: noNgElement,\n injector:
noNg,\n version: undefined as any,\n resumeBootstrap: noNg,\n getTestability: noNg\n};\n\ntry {\n if
(window.hasOwnProperty('angular')) {\n angular = (<any>window).angular;\n }\n} catch {\n // ignore in CJS
mode.\n}\n\n/**\n * @deprecated Use `setAngularJSGlobal` instead.\n *\n * @publicApi\n */\nexport function
setAngularLib(ng: any): void {\n setAngularJSGlobal(ng);\n}\n\n/**\n * @deprecated Use `getAngularJSGlobal`
instead.\n *\n * @publicApi\n */\nexport function getAngularLib(): any {\n return
getAngularJSGlobal();\n}\n\n/**\n * Resets the AngularJS global.\n *\n * Used when AngularJS is loaded lazily,
and not available on `window`.\n *\n * @publicApi\n */\nexport function setAngularJSGlobal(ng: any): void {\n
angular = ng;\n}\n\n/**\n * Returns the current AngularJS global.\n *\n * @publicApi\n */\nexport function
getAngularJSGlobal(): any {\n return angular;\n}\n\nexport const bootstrap: typeof angular.bootstrap = (e, modules,
config?) =>\n angular.bootstrap(e, modules, config);\n\n// Do not declare as `module` to avoid webpack bug\n//
(see https://github.com/angular/angular/issues/30050).\nexport const module_: typeof angular.module = (prefix,
dependencies?) =>\n angular.module(prefix, dependencies);\n\nexport const element: typeof angular.element = (e
=> angular.element(e)) as typeof angular.element;\nelement.cleanData = nodes =>
angular.element.cleanData(nodes);\n\nexport const injector: typeof angular.injector =\n (modules:
Array<string|IInjectable>, strictDi?: boolean) => angular.injector(modules, strictDi);\n\nexport const

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const downgradeModule: string, injunctionKey: string,
    attemptedAction: string): void {
  const upgradeAppType = getCurrentUpgradeAppType($injector);
  const downgradeModuleCount = getDowngradedModuleCount($injector);

  // Check for common errors.
  switch (upgradeAppType) {
    case UpgradeAppType.Static:
      if (downgradeModule) {
        throw new Error(`You should not specify a value for 'downgradeModule' unless you are downgrading more than one Angular module (via ` +
          `\@downgradeModule\').`);
      }
      break;
    case UpgradeAppType.Lite:
      if (downgradeModule &&
          (downgradeModuleCount >= 2)) {
        throw new Error(`You should not specify 'downgradeModule' unexpectedly specified. 'You should not specify a value for 'downgradeModule' unless you are downgrading more than one Angular module (via ` +
          `\@downgradeModule\').`);
      }
      break;
    default:
      throw new Error(`You should not specify a value for 'downgradeModule' unless you are downgrading more than one Angular module (via ` +
          `\@downgradeModule\').`);
  }
}

export class Deferred<R> {
  promise: Promise<R>;

  resolve!: (value?: R | PromiseLike<R>) => void;

  reject!: (error?: any) => void;

  constructor() {
    this.promise = new Promise((res, rej) => {
      this.resolve = res;
      this.reject = rej;
    });
  }
}

export interface LazyModuleRef {
  injector?: Injector;
  promise?: Promise<Injector>;
}

/**
 * @license
 * Copyright 2010-2018 Google Inc. All Rights Reserved.
 *
 * Use of this source code is governed by an MIT-style license that can be
 * found in the LICENSE file at https://angular.io/license
 */

import {ApplicationRef, ChangeDetectorRef,
    ComponentFactory, ComponentRef, EventEmitter,
    Injector, OnChanges, SimpleChange, SimpleChanges,
    StaticProvider, Testability, TestabilityRegistry, Type} from '@angular/core';

import {IAttributes, IAugmentedJQuery, ICompileService, IInjectorService, INgModelController, IParseService, IScope} from './angular1';
import {PropertyBinding} from './component_info';
import {$SCOPE} from './constants';
import {getTypeName, hookupNgModel, strictEquals} from './util';

const INITIAL_VALUE = {
    __UNINITIALIZED__: true
};

export class DowngradeComponentAdapter {
  private implementsOnChanges = false;
  private inputChangeCount: number = 0;
  private inputChanges: SimpleChanges = {};

  private componentScope: IScope;
  private componentRef!: ComponentRef<any>;
  private component: any;
  private changeDetector!: ChangeDetectorRef;

  constructor(
    private element: IAugmentedJQuery, private attrs: IAttributes, private scope: IScope,
    private ngModel:

INgModelController, private parentInjector: Injector,
private $injector: IInjectorService, private $compile:
ICompileService,
private $parse: IParseService, private componentFactory: ComponentFactory<any>,
private wrapCallback: <T>(cb: () => T) => () => T) {
  this.componentScope = scope.$new();
}

compileContents(): Node[][] {
  const compiledProjectableNodes = this.$compile(nodes);
  return compiledProjectableNodes;
}

createComponent(projectableNodes: Node[][]) {
  const childInjector = this.$injector.get(INgModelController);
  this.componentRef =
      this.componentFactory.create(childInjector,
          projectableNodes, this.element[0]);
  this.viewChangeDetector =
      this.componentRef.injector.get(ChangeDetectorRef);
}

setupInputs(manuallyAttachView: boolean,
propagateDigest = true): void {
  const attrs = this.attrs;
  const inputs = this.componentFactory.inputs || [];
  for (let i = 0; i < inputs.length; i++) {
    const input = new PropertyBinding(inputs[i].propName,
        inputs[i].templateName);
    let expr: string|null = null;
    if (attrs.hasOwnProperty(input.attr)) {
      const observeFn = (prop => {
        let prevValue = INITIAL_VALUE;
        return (currValue: any) => {
          // Initially, both `$observe()` and `$watch()` will call this function.
          if (!strictEquals(prevValue, currValue)) {
            if (prevValue === INITIAL_VALUE) {
              prevValue = currValue;
            }
            this.updateInput(prop, prevValue, currValue);
            prevValue = currValue;
          }
        };
      })(input.prop);
      attrs.$observe(input.attr, observeFn);
      // Use `$watch()` (in addition to `$observe()`) in order to initialize the input in time
      // for `ngOnChanges()`. This is necessary if we are already in a `$digest`,
      // which means that `ngOnChanges()` (which is called by a watcher) will run before the `:`
      // callback. let unwatch: Function|null = this.componentScope.$watch(expr, (currValue: any) => {
        unwatch = null;
        unwatch = null;
        observeFn(attrs[input.attr]);
      }),
      if (attrs.hasOwnProperty(input.bindAttr)) {
        expr = attrs[input.bindAttr];
      } else if (attrs.hasOwnProperty(input.bracketAttr)) {
        expr = attrs[input.bracketAttr];
      } else if (attrs.hasOwnProperty(input.bindonAttr)) {
        expr = attrs[input.bindonAttr];
      } else if (attrs.hasOwnProperty(input.bracketParenAttr)) {
        expr = attrs[input.bracketParenAttr];
      }
      if (expr != null) {
        const watchFn =
            (prop => (currValue: any, prevValue: any) =>
                 this.updateInput(prop, prevValue, currValue))(input.prop);
      } else {
        this.updateInput(prop, prevValue, currValue);
      }

    // Invoke `ngOnChanges()` and Change Detection (when necessary)
    if (this.implmentsOnChanges) {
      this.componentScope.$watch(() => this.inputChanges, this.componentFactory.componentType.prototype.onChanges);
    }
  }

  // If necessary, attach the view so that
  this.viewChangeDetector.markForCheck();
}

// If opted out of propagating digests, invoke change detection when inputs change.
if (!propagateDigest) {
  this.componentScope.$watch(this.componentScope.$viewChanges, this.changeDetector.detectChanges);
} else {
  // If not opted out of propagating digests, invoke change detection on every digest
  if (propagateDigest) {
    this.componentScope.$viewChanges.$viewChangeDetector.detectChanges();
  }
}
it will be dirty-checked. // (Allow time for the initial input values to be set and `ngOnChanges()` to be called.)

if (manuallyAttachView || !propagateDigest) {
  let unwatch: Function|null = this.componentScope.$watch(() => {
    unwatch !();
    unwatch = null;
  });
  const appRef = this.parentInjector.get<ApplicationRef>(ApplicationRef);
  appRef.attachView(this.componentRef.hostView);
  setupOutputs();
  const attrs = this.attrs;
  const outputs = this.componentFactory.outputs || [];
  for (let j = 0; j < outputs.length; j++) {
    const output = new PropertyBinding(outputs[j].propName, outputs[j].templateName);
    const bindonAttr = output.bindonAttr.substring(0, output.bindonAttr.length - 6);
    const bracketParenAttr = `\[(${output.bracketParenAttr.substring(2, output.bracketParenAttr.length - 8)})\];`
    // order below is important - first update bindings then evaluate expressions
    if (attrs.hasOwnProperty(bindonAttr)) {
      this.subscribeToOutput(output, attrs[bindonAttr], true);
    }
    if (attrs.hasOwnProperty(bracketParenAttr)) {
      this.subscribeToOutput(output, attrs[bracketParenAttr], true);
    }
    if (attrs.hasOwnProperty(output.onAttr)) {
      this.subscribeToOutput(output, attrs[output.onAttr]);
    }
    if (attrs.hasOwnProperty(output.parenAttr)) {
      this.subscribeToOutput(output, attrs[output.parenAttr]);
    }
  }
}

private subscribeToOutput(output: PropertyBinding, expr: string, isAssignment: boolean = false) {
  const getter = this.$parse(expr);
  const setter = getter.assign;
  if (isAssignment && !setter) {
    throw new Error(`Expression '${expr}' is not assignable!`);
  }
  const emitter = this.component[output.prop] as EventEmitter<any>;
  if (emitter) {
    emitter.subscribe({
      next: isAssignment ? (v: any) => setter!(this.scope, v) :
                            (v: any) => getter(this.scope, {'$event': v})
    });
  } else {
    throw new Error(`Missing emitter '${output.prop}' on component `);
  }
}

registerCleanup() {
  const testabilityRegistry = this.componentRef.injector.get(TestabilityRegistry);
  const destroyComponentRef = this.wrapCallback(() => this.componentRef.destroy());
  let destroyed = false;

  this.element.on('$destroy', () => this.componentScope.$destroy());
  this.componentScope.$on('$destroy', () => {
    if (!destroyed) {
      destroyed = true;
      testabilityRegistry.unregisterApplication(this.componentRef.location.nativeElement);
      destroyComponentRef();
    }
  });
}

getInjector(): Injector { return this.componentRef.injector; }

private updateInput(prop: string, prevValue: any, currValue: any) {
  if (this.implementsOnChanges) {
    this.inputChanges[prop] = new SimpleChange(prevValue, currValue, prevValue === currValue);
  }
  this.inputChangeCount++;
  this.component[prop] = currValue;
}

ngContentSelectors: string[], nodes: Node[]): Node[][] |

private updateInput(prop: string, prevValue: any, currValue: any) {
  if (this.implementsOnChanges) {
    this.inputChanges[prop] = new SimpleChange(prevValue, currValue, prevValue === currValue);
  }
  this.inputChangeCount++;
  this.component[prop] = currValue;
}

return groupNodesBySelector(ngContentSelectors, this.element.contents());
}

ngContentSelectors: string[], nodes: Node[]): Node[][] |

private updateInput(prop: string, prevValue: any, currValue: any) {
  if (this.implementsOnChanges) {
    this.inputChanges[prop] = new SimpleChange(prevValue, currValue, prevValue === currValue);
  }
  this.inputChangeCount++;
  this.component[prop] = currValue;
}

return groupNodesBySelector(ngContentSelectors, this.element.contents());
}

private updateInput(prop: string, prevValue: any, currValue: any) {
  if (this.implementsOnChanges) {
    this.inputChanges[prop] = new SimpleChange(prevValue, currValue, prevValue === currValue);
  }
  this.inputChangeCount++;
  this.component[prop] = currValue;
}

return groupNodesBySelector(ngContentSelectors, this.element.contents());
}

private updateInput(prop: string, prevValue: any, currValue: any) {
  if (this.implementsOnChanges) {
    this.inputChanges[prop] = new SimpleChange(prevValue, currValue, prevValue === currValue);
  }
  this.inputChangeCount++;
  this.component[prop] = currValue;
}

return groupNodesBySelector(ngContentSelectors, this.element.contents());
}

private updateInput(prop: string, prevValue: any, currValue: any) {
  if (this.implementsOnChanges) {
    this.inputChanges[prop] = new SimpleChange(prevValue, currValue, prevValue === currValue);
  }
  this.inputChangeCount++;
  this.component[prop] = currValue;
}

return groupNodesBySelector(ngContentSelectors, this.element.contents());
}
import {isFunction} from './util';

export interface Thenable<T> { then(callback: (value: T) => any): any; }

export function isThenable<T>(obj: unknown): obj is Thenable<T> {
  return !!obj && isFunction((obj as any).then);
}

/**
 * Synchronous, promise-like object.
 */
export class SyncPromise<T> {
  protected value: T|undefined;
  private resolved = false;
  private callbacks: ((value: T) => unknown)[] = [];

  static all<T>(valuesOrPromises: (T|Thenable<T>)[]): SyncPromise<T[]> {
    const aggrPromise = new SyncPromise<T[]>();
    let resolvedCount = 0;
    const results: T[] = [];
    const resolve = (idx: number, value: T) => {
      results[idx] = value;
      if (++resolvedCount === valuesOrPromises.length) aggrPromise.resolve(results);
    };

    valuesOrPromises.forEach((p, idx) => {
      if (isThenable(p)) {
        p.then(v => resolve(idx, v));
      } else {
        resolve(idx, p);
      }
    });

    return aggrPromise;
  }

  resolve(value: T): void {
    if (this.resolved) return;
    this.value = value;
    this.resolved = true;
    this.callbacks.forEach(callback => callback(value));
    this.callbacks.length = 0;
  }

  then(callback: (value: T) => unknown): void {
    if (this.resolved) {
      callback(this.value !);
    } else {
      this.callbacks.push(callback);
    }
  }
}
since v4. This parameter is no longer used */\n outputs?: string[];\n /** @deprecated since v4. This parameter is no
longer used */\n selectors?: string[];\n}): any /* angular.IInjectable */ {\n const directiveFactory:
IAnnotatedFunction = function(\n
$compile: ICompileService, $injector: IInjectorService, $parse:
IParseService): IDirective {\n // When using `downgradeModule()`, we need to handle certain things specially. For
example:\n // - We always need to attach the component view to the `ApplicationRef` for it to be\n // dirtychecked.\n // - We need to ensure callbacks to Angular APIs (e.g. change detection) are run inside the\n //
Angular zone.\n // NOTE: This is not needed, when using `UpgradeModule`, because `$digest()` will be run\n
//
inside the Angular zone (except if explicitly escaped, in which case we shouldn't\n //
force it back
in).\n const isNgUpgradeLite = getUpgradeAppType($injector) === UpgradeAppType.Lite;\n const
wrapCallback: <T>(cb: () => T) => typeof cb =\n
!isNgUpgradeLite ? cb => cb : cb => () =>
NgZone.isInAngularZone() ? cb() : ngZone.run(cb);\n let ngZone: NgZone;\n\n // When downgrading multiple
modules, special handling is needed wrt injectors.\n const hasMultipleDowngradedModules =\n
isNgUpgradeLite && (getDowngradedModuleCount($injector) > 1);\n\n return {\n
restrict: 'E',\n
terminal:
true,\n require: [REQUIRE_INJECTOR, REQUIRE_NG_MODEL],\n
link: (scope: IScope, element:
IAugmentedJQuery, attrs: IAttributes, required: any[]) => {\n
// We might have to compile the contents
asynchronously, because this might have been\n
// triggered by `UpgradeNg1ComponentAdapterBuilder`,
before the Angular templates have\n
// been compiled.\n\n
const ngModel: INgModelController =
required[1];\n
const parentInjector: Injector|Thenable<Injector>|undefined = required[0];\n
let
moduleInjector: Injector|Thenable<Injector>|undefined = undefined;\n
let ranAsync = false;\n\n
if
(!parentInjector || hasMultipleDowngradedModules) {\n
const downgradedModule = info.downgradedModule
|| '';\n
const lazyModuleRefKey = `${LAZY_MODULE_REF}${downgradedModule}`;\n
const
attemptedAction = `instantiating component '${getTypeName(info.component)}'`;\n\n
validateInjectionKey($injector, downgradedModule, lazyModuleRefKey, attemptedAction);\n\n
const
lazyModuleRef = $injector.get(lazyModuleRefKey) as LazyModuleRef;\n
moduleInjector =
lazyModuleRef.injector || lazyModuleRef.promise as Promise<Injector>;\n
}\n\n
// Notes:\n
//\n
//
There are two injectors: `finalModuleInjector` and `finalParentInjector` (they might be\n
// the same instance,
but that is irrelevant):\n
// - `finalModuleInjector` is used to retrieve `ComponentFactoryResolver`, thus it must
be\n
// on the same tree as the `NgModule` that declares this downgraded component.\n
// `finalParentInjector` is used for all other injection purposes.\n
// (Note that Angular knows to only traverse the
component-tree part of that injector,\n
// when looking for an injectable and then switch to the module
injector.)\n
//\n
// There are basically three cases:\n
// - If there is no parent component (thus no
`parentInjector`), we bootstrap the downgraded\n
// `NgModule` and use its injector as both
`finalModuleInjector` and\n
// `finalParentInjector`.\n
// - If there is a parent component (and thus a
`parentInjector`) and we are sure that it\n
// belongs to the same `NgModule` as this downgraded component
(e.g. because there is only\n
// one downgraded module, we use that `parentInjector` as both
`finalModuleInjector` and\n
// `finalParentInjector`.\n
// - If there is a parent component, but it may belong
to a different `NgModule`, then we\n
// use the `parentInjector` as `finalParentInjector` and this downgraded
component's\n
// declaring `NgModule`'s injector as `finalModuleInjector`.\n
// Note 1: If the
`NgModule` is already bootstrapped, we just get its injector (we don't\n
//
bootstrap again).\n
// Note
2: It is possible that (while there are multiple downgraded modules) this\n
//
downgraded component and
its parent component both belong to the same NgModule.\n
//
In that case, we could have used the
`parentInjector` as both\n
//
`finalModuleInjector` and `finalParentInjector`, but (for simplicity) we are\n
//
treating this case as if they belong to different `NgModule`s. That doesn't\n
//
really affect
anything, since `parentInjector` has `moduleInjector` as ancestor\n
//
and trying to resolve
`ComponentFactoryResolver` from either one will return\n
//
the same instance.\n\n
// If there is a
parent component, use its injector as parent injector.\n
// If this is a \"top-level\" Angular component, use the
module injector.\n
const finalParentInjector = parentInjector || moduleInjector !;\n\n
// If this is a \"toplevel\" Angular component or the parent component may belong to a\n
// different `NgModule`, use the module

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injector for module-specific dependencies.

    // If there is a parent component that belongs to the same
    `NgModule`, use its injector.  `const finalModuleInjector = moduleInjector || parentInjector`;

    doDowngrade = (injector: Injector, moduleInjector: Injector) => {
      // Retrieve `ComponentFactoryResolver` from the injector tied to the `NgModule`
      `this`\n    // component belongs to.`\n    const componentFactoryResolver: ComponentFactoryResolver =
    moduleInjector.get(ComponentFactoryResolver);  \n    const componentFactory: ComponentFactory<any> =
    componentFactoryResolver.resolveComponentFactory(inf.component) !;  \n
    const injectorPromise = new ParentInjectorPromise(element);  \n    const facade = new
    DowngradeComponentAdapter(element, attrs, scope, ngModel, injector, $injector, $compile, $parse,  \n    componentFactory, wrapCallback);  \n
    facade.createComponent(projectableNodes);  \n    facade.setupOutputs();  \n    facade.registerCleanup();  \n
    injectorPromise.resolve(facade.getInjector());  \n
    if (ranAsync) {
      // If this is run async, it is possible
      // that it is not run inside another
      // digest and initial input values will not be detected.
      scope.$evalAsync(() => {});  \n    }

    const downgradeFn =
    !isNgUpgradeLite ? doDowngrade : (pInjector: Injector, mInjector: Injector) => {
      if (!ngZone) {
        ngZone = pInjector.get(NgZone);  \n      }

      wrapCallback(() => doDowngrade(pInjector, mInjector))();  \n    };

    // NOTE:
    // Not
    // using `ParentInjectorPromise.all()` (which is inherited from `SyncPromise`), because
    // `TypeError: ...$src$downgrade_component_ParentInjectorPromise.all is not a
    // function`  \n    SyncPromise.all([finalParentInjector, finalModuleInjector])
    .then(([pInjector, mInjector]) =>
      downgradeFn(pInjector, mInjector));  \n    }

    return
    directiveFactory['$inject'];  \n    $compile, Sparse,\n    componentFactory, wrapCallback);  \n
    facade.createComponent(projectableNodes);  \n    facade.setupInputs(isNgUpgradeLite, info.propagateDigest);

    };

    // bracket-notation because
    of closure - see #14441
    directiveFactory['$inject'] = [$COMPILE, $INJECTOR, $PARSE];  \n
    return
    directiveFactory;  \n    $injectorKey, mInjector]();  \n
    resolve(injector: Injector): void {
      // Store the real injector on the element.
      this.element.data(\n      (this.injectorKey, injector);  \n
    // Release the element to prevent memory leaks.
    this.element = null !;  \n
    // Resolve the promise.
    super.resolve(injector);  \n
    // Use of this source code is governed by an MIT-style license that can be found in the
    LICENSE file at https://angular.io/license

    import {Injector} from '@angular/core';  \n    import {IInjectorService} from './angular1';  \n    import {$INJECTOR, INJECTOR_KEY} from './constants';  \n    import
    {getTypeName, isFunction, validateInjectionKey} from './util';

    /**
     * @description
     *
     * A helper function to
     * allow an Angular service to be accessible from AngularJS.
     *
     * *Part of the
     * [upgrade/static](api?query=upgrade%2Fstatic)
     * library for hybrid upgrade apps that support AOT compilation*
     *
     * ### Examples
     *
     * First ensure that the service to be downgraded is
     * provided in an `NgModule` that will be part of the upgrade application. For example, let's assume we have an
     * defined `HeroesService`:\n
     * and that we have included this in our upgrade app `NgModule`:\n
     * Now we can register the `downgradedInjectable` factory function for the service:\n
     * on an AngularJS module:\n
     * Inside an AngularJS component's controller we can get hold of the\n     * service via the name we gave when downgrading:\n
     * When using `downgradeModule()`, downgraded injectables will not
     * be available until the Angular\n     * module that provides them is instantiated. In order to be safe, you need to ensure
     * that the\n     * downgraded injectables are not used anywhere \_outside\_ the part of the app where it is
     * guaranteed
that their module has been instantiated. For example, it is _OK_ to use a downgraded service in an upgraded component that is only used from a downgraded Angular component provided by the same Angular module as the injectable, but it is _not OK_ to use it in an AngularJS component that may be used independently of Angular or use it in a downgraded Angular component from a different module.

* For example, it is _OK_ to use a downgraded service in an upgraded component that is only used from a downgraded Angular component provided by the same Angular module as the injectable, but it is _not OK_ to use it in an AngularJS component that may be used independently of Angular or use it in a downgraded Angular component from a different module.

```javascript
export function downgradeInjectable(token: any, downgradedModule: string = ''): Function {
  const injectorKey = `$INJECTOR_KEY$${downgradedModule}`;
  const injectableName = isFunction(token) ? getTypeName(token) : String(token);

  validateInjectionKey($injector, downgradedModule, injectorKey, attemptedAction);

  const injector: Injector = $injector.get(injectorKey);
  return injector.get(token);
}
```

```typescript
interface IBindingDestination {
  [key: string]: any;
  $onChanges?: (changes: SimpleChanges) => void;
}

interface IControllerInstance extends IBindingDestination {
  $doCheck?: () => void;
  $onDestroy?: () => void;
  $onInit?: () => void;
  $postLink?: () => void;
}
```

```typescript
class UpgradeHelper {
  constructorInjector: IInjectorService;
  constructorElement: Element;
  constructor$element: IAugmentedJQuery;

  constructor($injector: Injector, name: string, elementRef: ElementRef, directive?: IDirective) {
    this.$injector = $injector.get($INJECTOR);
    this.$compile = this.$injector.get($COMPILE);
    this.$controller = this.$injector.get($CONTROLLER);

    this.element = elementRef.nativeElement;
    this.$element = angularElement(this.element);
    this.directive = directive || UpgradeHelper.getDirective(this.$injector, name);
  }

    const directives: IDirective[] = $injector.get(name + 'Directive');
    if (directives.length > 1) {
      throw new Error('Only support single directive definition for: ');
    }

    const directive = directives[0];

    if (directive.compile && !directive.link) notSupported(name, 'compile');
    if (directive.replace) notSupported(name, 'replace');
    if (directive.terminal) notSupported(name, 'terminal');

    return directive;
  }

  static getTemplate($injector: IInjectorService, directive: IDirective, fetchRemoteTemplate = false, $element?: IAugmentedJQuery): string|Promise<string> { return getOrCall<string>(directive.template, $element); }
```javascript
$httpBackend('GET', url, null, (status: number, response: string) => {
  if (status === 200) {
    resolve($templateCache.put(url, response));
  } else {
    reject('GET component template from "' + url + '" returned ' + status + ': ' + response);
  }
});

if (directive.name) {
  if (template === undefined) {
    template = UpgradeHelper.getComponentHTML(directive.name, this.directive, null);  // Forwards to AngularJS.
  }  // Checks if there is a component to execute.

  const locals = {'$scope': $scope, '$element': this.$element};
  const controller = this.$controller(controllerType, locals, null, this.directive.controllerAs);
  this.$element.data('controller', controller);
  this.$element.data('controllerInstance', controller);

  return controller;
}
```

```javascript
angularElement.cleanData([this.element]);
angularElement.cleanData(this.element.querySelectorAll('*'));
```

```javascript
let $template = contentChildNodes;

if (transclude) {
  const slots = Object.create(null);

  if (typeof transclude === 'object') {
    $template = [];
  }

  const slotMap = Object.create(null);
  const filledSlots = Object.create(null);

  // Parse the element selectors.
  Object.keys(transclude).forEach(slotName => {
    let selector = transclude[slotName];
    const optional = selector.charAt(0) === '?';
    selector = optional ? selector.substring(1) : selector;

    slotMap[selector] = slotName;
    slots[slotName] = null; // `null`: Defined but not yet filled.
    filledSlots[slotName] = optional; // Consider optional slots as filled.
  });

  // Add the matching elements into their slot.
  contentChildNodes.forEach(node => {
    const slotName = slotMap[directiveNormalize(node.nodeName.toLowerCase())];
    if (slotName) {
      filledSlots[slotName] = true;
      slots[slotName] = slots[slotName] || [];
      slots[slotName].push(node);
    } else {
      $template.push(node);
    }
  });

  // Check for required slots that were not filled.
  Object.keys(slots).forEach(slotName => {
    if (filledSlots[slotName]) {
      throw new Error(`Required transclusion slot '${slotName}' on directive: '${this.name}'`);
    }
  });

  Object.keys(slots).filter(slotName => slots[slotName].slice(0, 1) === []).forEach(slotName => {
    slots[slotName] = (scope: IScope, cloneAttach: ICloneAttachFunction) => {
      return cloneAttach(!scope, cloneAttachFn);  // Forwards to AngularJS.
    };
  });
```

```javascript
```
```
file a bug against TypeScript for this.

```typescript
const directive = {selector: selector, inputs: this.inputsRename, outputs: this.outputsRename};

@Directive({jit: true, true, directive})
class MyClass extends UpgradeNg1ComponentAdapter implements OnInit, OnChanges, DoCheck, OnDestroy {
  constructor(@Inject($SCOPE) scope: IScope, injector: Injector, elementRef: ElementRef) {
    super(new UpgradeHelper(injector, name, elementRef, self.directive || undefined), scope, self.template, self.inputs, self.outputs, self.checkProperties, self.propertyMap) as any;
  }

  this.type = MyClass;
  }

  extractBindings() {
    const btcIsObject = typeof this.directive !.bindToController === 'object';
    if (btcIsObject && Object.keys(this.directive !.scope)).length {
      throw new Error('Binding definitions on scope and controller at the same time are not supported.');
    }

    const context = (btcIsObject) ? this.directive !.bindToController : this.directive !.scope;
    if (typeof context == 'object') {
      Object.keys(context).forEach(propName => {
        const definition = context[propName];
        const bindingType = definition.charAt(0);
        const bindingOptions = definition.charAt(1);
        const attrName = definition.substring(bindingOptions === '?' ? 2 : 1) || propName; // QUESTION: What about `=`? Ignore?

        switch (bindingType) {
          case '@':
          case '<':
            this.inputs.push(inputName);
            this.inputsRename.push(inputNameRename);
            this.propertyMap[inputName] = propName;
            break;

          case '=':
            this.inputs.push(inputName);
            this.inputsRename.push(inputNameRename);
            this.propertyMap[inputName] = propName;

            this.outputs.push(outputName);
            this.outputsRename.push(outputNameRenameChange);
            this.propertyMap[outputName] = propName;
            this.checkProperties.push(propName);
            this.propertyOutputs.push(outputName);
            break;

          case '&':
            this.outputs.push(outputName);
            this.outputsRename.push(outputNameRename);
            this.propertyMap[outputName] = propName;
            break;
          default:
            let json = JSON.stringify(context);
            throw new Error(`Unexpected mapping '${bindingType}' in '${json}' in '${this.name}' directive.`);
        }
      });
    }
  }

  /**
   * Upgrade ng1 components into Angular.
   */
  static resolve(
      exportedComponents: {[name: string]: UpgradeNg1ComponentAdapterBuilder},
      $injector: IInjectorService): Promise<string[]> {
    const promises = Object.keys(exportedComponents).map(name => {
      const exportedComponent = exportedComponents[name];
      exportedComponent.directive = UpgradeHelper.getDirective($injector, name);
      exportedComponent.extractBindings();

      return Promise.resolve(UpgradeHelper.getTemplate($injector, exportedComponent.directive, true)).then(template => exportedComponent.template = template);
    });

    return Promise.all(promises);
  }
}

class UpgradeNg1ComponentAdapter implements OnInit, OnChanges, DoCheck {
  private controllerInstance: IControllerInstance|null = null;
  destinationObj: IBindingDestination|null = null;
  checkLastValues: any[] = [];
  directive: IDirective;
  element: Element;
  $element: any = null;
  componentScope: IScope;

  constructor(
      private helper: UpgradeHelper, scope: IScope, private template: string,
      private inputs: string[], private outputs: string[], private propOuts: string[],
      private checkProperties: string[], private propertyMap: {[key: string]: string}) {
    this.directive = helper.directive;
    this.element = helper.element;
    this.$element = helper.$element;
    this.componentScope = scope.$new(!!this.directive.scope);
    this.private controllerInstance: UpgradeHelper, scope: IScope, private template: string,
    private inputs: string[], private outputs: string[], private propOuts: string[],
    private checkProperties: string[], private propertyMap: {[key: string]: string}) {
    this.directive = helper.directive;
    this.element = helper.element;
    this.$element = helper.$element;
    this.componentScope = scope.$new(!!this.directive.scope);
    this.private controllerInstance: UpgradeHelper, scope: IScope, private template: string,
    private inputs: string[], private outputs: string[], private propOuts: string[],
    private checkProperties: string[], private propertyMap: {[key: string]: string}) {
    this.directive = helper.directive;
    this.element = helper.element;
    this.$element = helper.$element;
    this.componentScope = scope.$new(!!this.directive.scope);
    this.private controllerInstance: UpgradeHelper, scope: IScope, private template: string,
    private inputs: string[], private outputs: string[], private propOuts: string[],
    private checkProperties: string[], private propertyMap: {[key: string]: string}) {
    this.directive = helper.directive;
    this.element = helper.element;
    this.$element = helper.$element;
    this.componentScope = scope.$new(!!this.directive.scope);
    this.private controllerInstance: UpgradeHelper, scope: IScope, private template: string,
    private inputs: string[], private outputs: string[], private propOuts: string[],
    private checkProperties: string[], private propertyMap: {[key: string]: string}) {
    this.directive = helper.directive;
    this.element = helper.element;
    this.$element = helper.$element;
    this.componentScope = scope.$new(!!this.directive.scope);
    this.private controllerInstance: UpgradeHelper, scope: IScope, private template: string,
    private inputs: string[], private outputs: string[], private propOuts: string[],
    private checkProperties: string[], private propertyMap: {[key: string]: string}) {
    this.directive = helper.directive;
    this.element = helper.element;
    this.$element = helper.$element;
    this.componentScope = scope.$new(!!this.directive.scope);
    this.private controllerInstance: UpgradeHelper, scope: IScope, private template: string,
    private inputs: string[], private outputs: string[], private propOuts: string[],
    private checkProperties: string[], private propertyMap: {[key: string]: string}) {
    this.directive = helper.directive;
    this.element = helper.element;
    this.$element = helper.$element;
    this.componentScope = scope.$new(!!this.directive.scope);
    this.private controllerInstance: UpgradeHelper, scope: IScope, private template: string,
    private inputs: string[], private outputs: string[], private propOuts: string[],
    private checkProperties: string[], private propertyMap: {[key: string]: string}) {
    this.directive = helper.directive;
    this.element = helper.element;
    this.$element = helper.$element;
    this.componentScope = scope.$new(!!this.directive.scope);
    this.private controllerInstance: UpgradeHelper, scope: IScope, private template: string,
    private inputs: string[], private outputs: string[], private propOuts: string[],
    private checkProperties: string[], private propertyMap: {[key: string]: string}) {
    this.directive = helper.directive;
    this.element = helper.element;
    this.$element = helper.$element;
    this.componentScope = scope.$new(!!this.directive.scope);
    this.private controllerInstance: UpgradeHelper, scope: IScope, private template: string,
    private inputs: string[], private outputs: string[], private propOuts: string[],
    private checkProperties: string[], private propertyMap: {[key: string]: string}) {
    this.directive = helper.directive;
    this.element = helper.element;
    this.$element = helper.$element;
    this.componentScope = scope.$new(!!this.directive.scope);
    this.private controllerInstance: UpgradeHelper, scope: IScope, private template: string,
    private inputs: string[], private outputs: string[], private propOuts: string[],
    private checkProperties: string[], private propertyMap: {[key: string]: string}) {
    this.directive = helper.directive;
    this.element = helper.element;
    this.$element = helper.$element;
    this.componentScope = scope.$new(!!this.directive.scope);
    this.private controllerInstance: UpgradeHelper, scope: IScope, private template: string,
    private inputs: string[], private outputs: string[], private propOuts: string[],
    private checkProperties: string[], private propertyMap: {[key: string]: string}) {
    this.directive = helper.directive;
    this.element = helper.element;
    this.$element = helper.$element;
    this.componentScope = scope.$new(!!this.directive.scope);
    this.private controllerInstance: UpgradeHelper, scope: IScope, private template: string,
    private inputs: string[], private outputs: string[], private propOuts: string[],
    private checkProperties: string[], private propertyMap: {[key: string]: string}) {
    this.directive = helper.directive;
    this.element = helper.element;
    this.$element = helper.$element;
    this.componentScope = scope.$new(!!this.directive.scope);
    this.private controllerInstance: UpgradeHelper, scope: IScope, private template: string,
    private inputs: string[], private outputs: string[], private propOuts: string[],
    private checkProperties: string[], private propertyMap: {[key: string]: string}) {
    this.directive = helper.directive;
    this.element = helper.element;
    this.$element = helper.$element;
    this.componentScope = scope.$new(!!this.directive.scope);
    this.private controllerInstance: UpgradeHelper, scope: IScope, private template: string,
    private inputs: string[], private outputs: string[], private propOuts: string[],
    private checkProperties: string[], private propertyMap: {[key: string]: string}) {
    this.directive = helper.directive;
    this.element = helper.element;
    this.$element = helper.$element;
    this.componentScope = scope.$new(!!this.directive.scope);
    this.private controllerInstance: UpgradeHelper, scope: IScope, private template: string,
    private inputs: string[], private outputs: string[], private propOuts: string[],
    private checkProperties: string[], private propertyMap: {[key: string]: string}) {
    this.directive = helper.directive;
    this.element = helper.element;
    this.$element = helper.$element;
    this.componentScope = scope.$new(!!this.directive.scope);
    this.private controllerInstance: UpgradeHelper, scope: IScope, private template: string,
    private inputs: string[], private outputs: string[], private propOuts: string[],
    private checkProperties: string[], private propertyMap: {[key: string]: string}) {
    this.directive = helper.directive;
    this.element = helper.element;
    this.$element = helper.$element;
    this.componentScope = scope.$new(!!this.directive.scope);
    this.private controllerInstance: UpgradeHelper, scope: IScope, private template: string,
    private inputs: string[], private outputs: string[], private propOuts: string[],
    private checkProperties: string[], private propertyMap: {[key: string]: string}) {
    this.directive = helper.directive;
    this.element = helper.element;
    this.$element = helper.$element;
    this.componentScope = scope.$new(!!this.directive.scope);
    this.private controllerInstance: UpgradeHelper, scope: IScope, private template: string,
    private inputs: string[], private outputs: string[], private propOuts: string[],
    private checkProperties: string[], private propertyMap: {[key: string]: string}) {
    this.directive = helperdirective.
  }
```

linkFn = this.helper.compileTemplate(this.template);

    // Instantiate controller (if not already done so)
    const controllerType = this.directive.controller;
    const bindToController = this.directive.bindToController;
    if (controllerType & bindToController) {
      this.controllerInstance = this.builder.buildController(controllerType, this.componentScope);
    }

    // Linking
    const link = this.directive.link;
    const preLink = typeof link == 'object' & bindToController ? link.pre : link;
    const postLink = typeof link == 'object' ? link.post : link;
    const const attrs: IAttributes = NOT_SUPPORTED;
    const transcludeFn: ITranscludeFunction = NOT_SUPPORTED;

    if (preLink) {
      preLink(this.componentScope, this.$element, attrs, requiredControllers, transcludeFn);
    }

    linkFn(this.componentScope, null !, {parentBoundTranscludeFn: attachChildNodes});

    if (postLink) {
      postLink(this.componentScope, this.$element, attrs, requiredControllers, transcludeFn);
    }

    // Hook: $postLink
    if (this.controllerInstance && isFunction(this.controllerInstance.$postLink)) {
      this.controllerInstance.$postLink();
    }

  }

  ngOnChanges(changes: SimpleChanges) {
    const ng1Changes: any = {};
    Object.keys(changes).forEach(name => {
      const change: SimpleChange = changes[name];
      this.setComponentProperty(name, change.currentValue);
      ng1Changes[this.propertyMap[name]] = change;
    });

    if (isFunction(this.destinationObj.$onChanges)) {
      this.destinationObj.$onChanges!(ng1Changes);
    }

  }

  ngDoCheck() {
    const destinationObj = this.destinationObj;
    const lastValues = this.checkLastValues;
    const checkProperties = this.checkProperties;
    const propOuts = this.propOuts;
    checkProperties.forEach((propName, i) => {
      const value = destinationObj[propName];
      const last = lastValues[i];
      if (!strictEquals(last, value)) {
        const eventEmitter: EventEmitter<any> = (this as any)[propOuts[i]];
        eventEmitter.emit(lastValues[i] = value);
      }
    });

    if (this.controllerInstance && isFunction(this.controllerInstance.$doCheck)) {
      this.controllerInstance.$doCheck();
    }

  }

  ng OnDestroy() { this.helper.onDestroy(this.componentScope, this.controllerInstance); }

  setComponentProperty(name: string, value: any) {
    this.destinationObj[this.propertyMap[name]] = value;
  }

/**
 * @license
 * Copyright Google Inc. All Rights Reserved.
 *
 * Use of this source code is governed by an MIT-style license that can be found in the LICENSE file at https://angular.io/license
*/

import {Compiler, CompilerOptions, Injector, NgModule, NgModuleRef, NgZone, StaticProvider, Testability, Type, isDevMode, resolveForwardRef} from '@angular/core';
import {platformBrowserDynamic} from '@angular/platform-browser-dynamic';

import {IAngularBootstrapConfig, IAugmentedJQuery, IInjectorService, IModule, IProvideService, IRootScopeService, ITestabilityService, bootstrap, element as angularElement, module_ as angularModule} from '../../common/src/angular1';
import {$$TESTABILITY, $COMPILE, $INJECTOR, $ROOT_SCOPE, COMPILER_KEY, INJECTOR_KEY, LAZY_MODULE_REF, NG_ZONE_KEY, UPGRADE_APP_TYPE_KEY} from '../../common/src/constants';
import {Deferred, LazyModuleRef, UpgradeAppType, controllerKey, onError} from '../../common/src/util';

import {UpgradeNg1ComponentAdapterBuilder} from './upgrade_ng1_adapter';

let upgradeCount: number = 0;

/**
 * Use `UpgradeAdapter` to allow AngularJS and Angular to coexist in a single application.
 *
 * The `UpgradeAdapter` allows:
 * 1. creation of Angular component from AngularJS component directive
 *    (See [UpgradeAdapter#upgradeNg1Component()])
 * 2. creation of AngularJS directive from Angular component.
 *    (See [UpgradeAdapter#downgradeNg2Component()])
 * 3. Bootstrapping of a hybrid Angular application which contains both of the frameworks
 *    coexisting in a single application.
 */

var * & * * * * * * *

when reasoning about how a hybrid application works it is useful to have a mental model which describes what is happening and explains what is happening at the lowest level. There are two independent frameworks running in a single application, each framework treats the other as a black box. Each DOM element on the page is owned exactly by one framework. Whichever framework instantiated the element is the owner. Each framework only updates/interacts with its own DOM elements and ignores others.
AngularJS directives always execute inside AngularJS framework codebase regardless of
where they are instantiated. Angular components always execute inside Angular framework codebase regardless of
where they are instantiated. An AngularJS component can be upgraded to an Angular component. This creates
an Angular directive, which bootstraps the AngularJS component directive in that location. An Angular component
can be downgraded to an AngularJS component directive. This creates an AngularJS directive, which bootstraps the Angular component in that location. Whenever an adapter component is instantiated the host element is owned by the framework doing the instantiation. The other framework then instantiates and owns the view for that component. This implies that component bindings will always follow the semantics of the instantiation framework. The syntax is always that of Angular syntax. AngularJS is always bootstrapped first and owns the bottom most view. The new application is running in Angular zone, and therefore it no longer needs calls to
AngularJS directives always execute inside AngularJS framework codebase regardless of
where they are instantiated.

* 4. Angular components always execute inside Angular framework codebase regardless of
where they are instantiated.

* 5. An AngularJS component can be upgraded to an Angular component. This creates

* an Angular component directive, which bootstraps the Angular component in that location. Whenever an adapter component is instantiated the host element is owned by the framework doing the instantiation. The other framework then instantiates and owns the view for that component. This implies that component bindings will always follow the semantics of the instantiation framework. The syntax is always that of Angular syntax. AngularJS is always bootstrapped first and owns the bottom most view.

* 9. The new application is running in Angular zone, and therefore it no longer needs calls to
AngularJS directives always execute inside AngularJS framework codebase regardless of
where they are instantiated.

* 4. Angular components always execute inside Angular framework codebase regardless of
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* 9. The new application is running in Angular zone, and therefore it no longer needs calls to
adapter.downgradeNg2Component(Greeter);

```
adapter.downgradeNg2Component(Greeter);

```
@param modules any AngularJS modules that the upgrade module should depend upon. * @returns an `UpgradeAdapterRef`, which lets you register a `ready()` callback to run assertions once the Angular components are ready to test through AngularJS. * @registerForNg1Tests(modules?: string[]):
UpgradeAdapterRef { in const windowNgMock = (window as any)['angular'].mock; in if (!windowNgMock || !windowNgMock.module) { throw new Error('Failed to find \angular.mock.module\'); } in this.declareNg1Module(modules); in windowNgMock.module(this.ng1Module.name); in const upgrade = new UpgradeAdapterRef(); in this.ng2BootstrapDeferred.promise.then((ng1Injector) => {
   upgrade._bootstrapDone(this.moduleRef, ng1Injector); }, onError);
   return upgrade;
}

/**
 * Bootstrap a hybrid AngularJS / Angular application.
 * *
 * This `bootstrap` method is a direct replacement (takes same arguments) for AngularJS
 * ['bootstrap'] ([https://docs.angularjs.org/api/ng/function/angular.bootstrap](https://docs.angularjs.org/api/ng/function/angular.bootstrap)) method. Unlike AngularJS,
 * this bootstrap is asynchronous.
 * *
 * Example
 * ```
 * const adapter = new UpgradeAdapter(MyNg2Module);
 * const module = angular.module('myExample', []);
 * const ng1 = adapter.downgradeNg2Component(Ng1);
 * module.directive('ng1', function() {
 *   return {
 *     scope: { title: '=' },
 *     template: 'ng1[Hello
 *       {{title}}!](<span ng-transclude></span>)'
 *   };
 * });
 * *
 * @NgModule({
 *   declarations: [Ng2, adapter.upgradeNg1Component('ng1')],
 *   imports: [BrowserModule]
 * })
 * class MyNg2Module {}
 * document.body.innerHTML = '<ng2 name="World">project</ng2>';
 * adapter.bootstrap(document.body, ['myExample']).ready(function() {
 *   expect(document.body.textContent).toEqual('ng2[ng1[Hello World!](transclude)](project)');
 * });
 * ```
 */
bootstrap(element: Element, modules?: any[][], config?: IAngularBootstrapConfig): UpgradeAdapterRef {
  const upgrade = new UpgradeAdapterRef();

  // Make sure resumeBootstrap() only exists if the current bootstrap is deferred
  const windowAngular = (window as any /** TODO #???? */)['angular'];
  windowAngular.resumeBootstrap = undefined;

  windowAngular.run(() => { bootstrap(element, [this.ng1Module.name], config !); });
  const ng1BootstrapPromise = new Promise((resolve) => {
    if (windowAngular.resumeBootstrap) {
      const originalResumeBootstrap: () => void = windowAngular.resumeBootstrap;
      windowAngular.resumeBootstrap = function() {
        windowAngular.resumeBootstrap = originalResumeBootstrap;
        const r = windowAngular.resumeBootstrap.apply(this, arguments);
        resolve(r);
      };
    } else {
      resolve();
    }
  });
  Promise.all([this.ng2BootstrapDeferred.promise, ng1BootstrapPromise]).then(([ng1Injector]) => {
    angularElement(element).data !(controllerKey(INJECTOR_KEY), this.moduleRef !.injector);
    this.moduleRef !.injector.get<NgZone>(NgZone).run(() => { (<any>upgrade)._bootstrapDone(this.moduleRef, ng1Injector); }, onError);
    return upgrade;
  });

  /**
   * Allows AngularJS service to be accessible from Angular.
   *
   * Example
   *
   * ```
   * class Example {
   * }
   *
   * const adapter = new UpgradeAdapter(MyNg2Module);
   * const module = angular.module('myExample', []);
   *
   * module.factory('example', adapter.downgradeNg2Provider(Example));
   *
   * adapter.bootstrap(document.body, ['myExample']).ready(function() {
   *   const example: Example = this.ng2Injector.get(Example);
   * });
   * ```
   */
  upgradeNg1Provider(name: string, options?: {asToken: any}) {
    const token = options && options.asToken || name;
    this.upgradedProviders.push({
      provide: token,
      useFactory: this.$injector.get.bind(this.$injector),
      deps: [this.$INJECTOR]
    });
    // this.$injector.$injector._get(injector, [this.$INJECTOR], [name]);
    this.$injector.$injector._get(injector, [this.$INJECTOR], [name]);
  }

  /**
   * Allows Angular service to be accessible from AngularJS.
   *
   * ```
   * class Example {
   * }
   *
   * const adapter = new UpgradeAdapter(MyNg2Module);
   * const module = angular.module('myExample', []);
   *
   * module.factory('example', adapter.downgradeNg1Provider(Example));
   *
   * adapter.bootstrap(document.body, ['myExample']).ready(function() {
   *   const example: Example = this.ng1Injector.get(Example);
   * });
   * ```
   */
const example: Example = ref.-ng1Injector.get('example');

// Note: There is a bug in TS 2.4 that prevents us from
// inlining this into @NgModule
// TODO(tbosch): find or file a bug against TypeScript for this.

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(delayApplyExps.length) {
  this.$applyExps = delayApplyExps;
  return this.ng2BootstrapDeferred.resolve(this.ng1Injector), onError
};

this.ng2BootstrapDeferred.reject(e);

this.ngZone.onMicrotaskEmpty.subscribe({
  next: () => {
    if (this.rootScope.$$phase) {
      if (isDevMode()) {
        console.warn(
          'A digest was triggered while one was already in progress. This may mean that something is triggering digests outside the Angular zone.'
        );
      }

      return this.rootScope.$evalAsync(() => {});
    }

    return this.rootScope.$digest();
  }
});

this.ng2BootstrapDeferred.reject(e);

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ACF,CAAC,CAAC;YAEH,OA2O,SAAS,CAAC;SACIB,QACH,qBAAC;IAAD,CAAC,IAAA,IAED;;;;IAIA;QAK E;++BAAoB,OAAB,OA2O,GAAP,OA2O,CAABk;YAFrC,CAAS,GAoC,EAEE,CAAC;+YAI,D,OA2O ,CAAC,IAAM,CAAC,aA2a,CAAC,YAAY,CAAC,EAEE,IAAI,CAAC,CAAC;SACnD;QACH,0CAAI,GAAI,UA AK,QAAP,C;YACX,C,IAAI,CAAC,QAAP,EAAE;gBACJ,B,QAAP,CAAC,IAAI,CAAC,QAAP,CAAC,CAAC CaCzuB;iBAAMg;BACLI,IAAI,CAAC,SAAS,CAAC,IAAI,CAAC,QAAP,CAAC,CAAC;aAC/B;SACF;QAED,u1 CAAO,GAAP,UAAP,QAAP:B,YAUXB,IAAI,CAAC,QAAP,GAAQ,QAAP,CAAC;;;YAGzB,IAAI,CAAC,OA2O ,CAAC,IAAM,CAAC,aA2a,CAAC,YAAY,CAAC,EAEE,QAAP,CAAC,CAAC;:YAG3D,IAAI,CAAC,OA2O,GA AG,IAAI,CAAC,;YAGB,IAAI,CAAC,SAAS,CAAC,OA2O,CAAC,UAAC,QAAP,IAAI,OA2O,QAAP,QAAP,CAAC ,QAAP,CAAC,GAAS,CAAC,CAAC,YACZ,D,IAAI,CAAC,SAAS,CAAC,MAAM,GAAG,CAAC,CAAC,CAAC;SAC3B ;QACH,4BAAC;IAAD,CAAC,IAAA;IAACD;;;;;AAOA;QAAA;;;YAEE,EAAP,GAoO,IAAI,CAAC,YAEUE,iBA Ay,GAAS,B,IAAM,CAAC,YACZ,C,gBAAW,GAAPQ,B,IAAM,CAAC,YACV,IBAAY,GAAQ,B,IAAM,CAAC,YAC xG,gBAAW,GAaA,IAAM,CAAC;SA2BvC;QAXBS,0CAAC,GAAtB,UAAb,B,WAAb,EAAE,WAAb,B,YACF,IA AI,CAAC,YAAY,GAAG,WAAW,CAAC,YYCH,C,IAAI,CAAC,WAAM,GAAG,WAAM,CAAC,QAAP,CAAC,Y ACX,C,IAAI,CAAC,WAAM,GAAG,WAAM,CAAC,YAC/B,IAAI,CAAC,YAAY,GAAG,WAAW,CAAC,GAAG, CAAC,WAAM,CAAC,CAAC,YACJ,D,IAAI,CAAC,QAAP,IAAI,IAAI,CAAC,QAAP,CAAC,IAAI,CAAC,CAAC ;SACB;;;;;QASM;iCAAAK,GAAZ,UA2A,EAAPk,IAAI,IAAI,CAAC,QAAP,GAAQ,GAAG,EAEE,CAAC,EAEE;;;QA KjF,mCAAO,GAAd;YACE,IAALCAAC,WAaa,CAAC,GAAG,CAAC,WAAM,CAAC,CAAC,QAAP,EAEE,CA AC,YACX,C,IAAI,CAAC,YAAc,CAAC,OA2O,EAEE,CAAC;SAC/B;QACh,WAAM;IAAD,CAAC;;lChsBD;;;; QAQA,IASA,2EA2E;;;;;OAMG;;;lCNH;OAEQ;----------:"}

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1047774535_1591199783.98/0/angular-upgrade-9-0-7-src-zip/bundles/upgrade.umd.js.map

1.131 hystrix-core 1.5.18

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1.136 typetools 0.5.0

1.137 libunistring 0.9.10 1
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1.142 deep-diff 0.3.8

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1.143 bootstrap 4.3.1

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1.144 python-defaults 2.7.13 2

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This package was put together by Klee Dienes <klee@debian.org> from 
sources from ftp.python.org:/pub/python, based on the Debianization by 
the previous maintainers Bernd S. Brentrup <bsb@uni-muenster.de> and 
Bruce Perens.

Current maintainer is Matthias Klose <doko@debian.org> until the final 
2.3 version is released.

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A. HISTORY OF THE SOFTWARE

Python was created in the early 1990s by Guido van Rossum at Stichting 
Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands 
as a successor of a language called ABC. Guido remains Python's 
principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for 
National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) 
in Reston, Virginia where he released several versions of the 
software.

In May 2000, Guido and the Python core development team moved to 
BeOpen.com to form the BeOpen PythonLabs team. In October of the same 
year, the PythonLabs team moved to Digital Creations (now Zope 
Corporation, see http://www.zope.com). In 2001, the Python Software 
Foundation (PSF, see http://www.python.org/psf/) was formed, a 
non-profit organization created specifically to own Python-related 
Intellectual Property. Zope Corporation is a sponsoring member of 
the PSF.

All Python releases are Open Source (see http://www.opensource.org for 
the Open Source Definition). Historically, most, but not all, Python 
releases have also been GPL-compatible; the table below summarizes
the various releases.

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1.148 spring-boot-autoconfigure 2.2.4
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jar/org/springframework/boot/autoconfigure/cache/CouchbaseConfigurerAdapterConfiguration.java
* /opt/ws_local/PERMITS_SQL/1023699190_1588775090.54/0/spring-boot-autoconfigure-2-2-4-release-sources-
jar/org/springframework/boot/autoconfigure/security/reactive/ReactiveUserDetailsServiceAutoConfiguration.java
* /opt/ws_local/PERMITS_SQL/1023699190_1588775090.54/0/spring-boot-autoconfigure-2-2-4-release-sources-
jar/org/springframework/boot/autoconfigure/template/TemplateAvailabilityProvider.java
* /opt/ws_local/PERMITS_SQL/1023699190_1588775090.54/0/spring-boot-autoconfigure-2-2-4-release-sources-
jar/org/springframework/boot/autoconfigure/http/HttpProperties.java
* /opt/ws_local/PERMITS_SQL/1023699190_1588775090.54/0/spring-boot-autoconfigure-2-2-4-release-sources-
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jar/org/springframework/boot/autoconfigure/jms/package-info.java
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1.163 json-lib 2.4

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1.164 asap 2.0.6

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1.165 dash 0.5.10.2 5

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Eclipse

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The following artifacts are EPL and ASL2.
* org.eclipse.jetty.orbitjavax.security.auth.message

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* org.eclipse.jetty.orbitjavax.mail.glassfish

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* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

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Oracle OpenJDK

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* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.
http://openjdk.java.net/legal/gplv2+ce.html

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OW2

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org.ow2.asm:asm-commons
org.ow2.asm:asm

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Apache

The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

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MortBay

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org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
Mortbay

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https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

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1.171 paramiko 2.0.0-1

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1.173 thrift 0.10.0

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compiler/cpp/src/generate/t_erl_generator.cc
compiler/cpp/src/generate/t_hs_generator.cc
compiler/cpp/src/generate/t_java_generator.cc
compiler/cpp/src/generate/t_ocaml_generator.cc
compiler/cpp/src/generate/t_perl_generator.cc
compiler/cpp/src/generate/t_php_generator.cc
compiler/cpp/src/generate/t_py_generator.cc
compiler/cpp/src/generate/t_rb_generator.cc
compiler/cpp/src/generate/t_st_generator.cc
compiler/cpp/src/generate/t_xsd_generator.cc
compiler/cpp/src/main.cc
compiler/cpp/src/parse/t_field.h
compiler/cpp/src/parse/t_program.h
compiler/cpp/src/platform.h
compiler/cpp/src/thriftl.ll
compiler/cpp/src/thrifty.yy
lib/csharp/src/Protocol/TBinaryProtocol.cs
lib/csharp/src/Protocol/TFIELD.cs
lib/csharp/src/Protocol/TList.cs
lib/csharp/src/Protocol/TMap.cs
lib/csharp/src/Protocol/TMessage.cs
lib/csharp/src/Protocol/TMessageType.cs
lib/csharp/src/Protocol/TProtocol.cs
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L. Peter Deutsch
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1.189 split-js 1.6.0
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1.190 hostname 3.21
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1.192 netty-handler 4.1.32

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1.194 activation 1.2.1

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1.196 evp_bytestokey 1.0.3

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* /opt/ws_local/PERMITS_SQL/1033430349_1590039577.09/0/spring-security-web-5-1-4-release-sources-1-
  jar/org/springframework/security/web/server/authentication/logout/ServerLogoutSuccessHandler.java
* /opt/ws_local/PERMITS_SQL/1033430349_1590039577.09/0/spring-security-web-5-1-4-release-sources-1-
  jar/org/springframework/security/web/server/authentication/ServerAuthenticationFailureHandler.java
* /opt/ws_local/PERMITS_SQL/1033430349_1590039577.09/0/spring-security-web-5-1-4-release-sources-1-
  jar/org/springframework/security/web/server/HttpHeadersWriter.java
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  jar/org/springframework/security/web/firewall/StrictHttpFirewall.java
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  jar/org/springframework/security/web/jaasapi/JaasApiIntegrationFilter.java
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1.207 base64-arraybuffer 0.1.5

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1.208 process 0.11.10

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Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.6 of 6 September 2010

#!perl

=head1 NAME

copyright.t

=head1 DESCRIPTION

Tests that the latest copyright years in the top-level README file and the C<perl -v> output match each other.

If the test fails, update at least one of README and perl.c so that they match
Optionally you can pass the C<--now> option to check they are at the current
year. This isn't checked by default, so that it doesn't fail for people
working on older releases. It should be run before making a new release.

=cut

use strict;
use Config;
BEGIN { require './test.pl' }

if ( $Config{usecrosscompile} ) {
    skip_all( "Not all files are available during cross-compilation" );
}

my ($opt) = @ARGV;

my $readme_year = readme_year();
my $v_year = v_year();

# Check that both copyright dates are up-to-date, but only if requested, so
# that tests still pass for people intentionally working on older versions:
if ($opt eq '--now')
{
    my $current_year = (gmtime)[5] + 1900;
    is $v_year, $current_year, 'perl -v copyright includes current year';
    is $readme_year, $current_year, 'README copyright includes current year';
}

# Otherwise simply check that the two copyright dates match each other:
else
{
    is $readme_year, $v_year, 'README and perl -v copyright dates match';
}

done_testing;

sub readme_year
# returns the latest copyright year from the top-level README file
{

    open my $readme, '<', '../README' or die "Opening README failed: $!";

    # The copyright message is the first paragraph:
    local $/ = ";
    my $copyright_msg = <$readme>;
my ($year) = $copyright_msg =~ /\d{4,}\b/s
    or die "Year not found in README copyright message '$copyright_msg'";

$year;
}

sub v_year
# returns the latest copyright year shown in perl -v
{
    my $output = runperl switches => ['-v'];
    my ($year) = $output =~ /copyright 1987.*\b\d{4,}\b/i
        or die "Copyright statement not found in perl -v output '$output'";

$year;
}
---
abstract: 'Build and install Perl modules'
author:
    - 'Ken Williams <kwilliams@cpan.org>'
    - "Development questions, bug reports, and patches should be sent to the Module-Build mailing list at <module-build@perl.org>.'
build_requires:
    File::Temp: 0.15
    Test::Harness: 3.16
    Test::More: 0.49
generated_by: 'Module::Build version 0.3608'
license: gpl
meta-spec:
    url: http://module-build.sourceforge.net/META-spec-v1.4.html
    version: 1.4
name: Module-Build
resources:
    MailingList: mailto:module-build@perl.org
    license: http://dev.perl.org/licenses/
    repository: http://github.com/dagolden/module-build/
    version: 3

1.213 spring-test 5.2.3
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* /opt/ws_local/PERMITS_SQL/1033212718_1591432933.35/0/spring-test-5-2-3-release-sources-jar/org/springframework/test/context/support/GenericGroovyXmlContextLoader.java
* /opt/ws_local/PERMITS_SQL/1033212718_1591432933.35/0/spring-test-5-2-3-release-sources-jar/org/springframework/mock/web/MockJspWriter.java
* /opt/ws_local/PERMITS_SQL/1033212718_1591432933.35/0/spring-test-5-2-3-release-sources-jar/org/springframework/mock/web/MockFilterChain.java
* /opt/ws_local/PERMITS_SQL/1033212718_1591432933.35/0/spring-test-5-2-3-release-sources-jar/org/springframework/test/web/setup/ConfigurableMockMvcBuilder.java
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* /opt/ws_local/PERMITS_SQL/1033212718_1591432933.35/0/spring-test-5-2-3-release-sources-jar/org/springframework/test/web/client/DefaultRequestExpectation.java
* /opt/ws_local/PERMITS_SQL/1033212718_1591432933.35/0/spring-test-5-2-3-release-sources-jar/org/springframework/test/web/setup/ConfigurableMockMvcBuilder.java
* /opt/ws_local/PERMITS_SQL/1033212718_1591432933.35/0/spring-test-5-2-3-release-sources-jar/org/springframework/test/context/junit4/statements/RunAfterTestExecutionCallbacks.java
* /opt/ws_local/PERMITS_SQL/1033212718_1591432933.35/0/spring-test-5-2-3-release-sources-jar/org/springframework/test/web/servlet/SmartRequestBuilder.java
* /opt/ws_local/PERMITS_SQL/1033212718_1591432933.35/0/spring-test-5-2-3-release-sources-jar/org/springframework/test/web/servlet/servlet/MockPart.java
* /opt/ws_local/PERMITS_SQL/1033212718_1591432933.35/0/spring-test-5-2-3-release-sources-jar/org/springframework/test/jdbc/JdbcTestUtils.java
* /opt/ws_local/PERMITS_SQL/1033212718_1591432933.35/0/spring-test-5-2-3-release-sources-jar/org/springframework/mock/web/server/MockServerWebExchange.java
* /opt/ws_local/PERMITS_SQL/1033212718_1591432933.35/0/spring-test-5-2-3-release-sources-jar/org/springframework/test/web/setup/MockMvcBuilders.java
* /opt/ws_local/PERMITS_SQL/1033212718_1591432933.35/0/spring-test-5-2-3-release-sources-jar/org/springframework/test/web/setup/SmartRequestBuilder.java
* /opt/ws_local/PERMITS_SQL/1033212718_1591432933.35/0/spring-test-5-2-3-release-sources-jar/org/springframework/mock/web/MockPart.java
* /opt/ws_local/PERMITS_SQL/1033212718_1591432933.35/0/spring-test-5-2-3-release-sources-jar/org/springframework/test/context/junit4/statements/SpringFailOnTimeout.java
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jar/org/springframework/mock/web/MockFilterConfig.java
* /opt/ws_local/PERMITS_SQL/1033212718_1591432933.35/0/spring-test-5-2-3-release-sources-
jar/org/springframework/test/context/support/DefaultActiveProfilesResolver.java
* /opt/ws_local/PERMITS_SQL/1033212718_1591432933.35/0/spring-test-5-2-3-release-sources-
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* /opt/ws_local/PERMITS_SQL/1033212718_1591432933.35/0/spring-test-5-2-3-release-sources-
jar/org/springframework/mock/web/DelegatingServletInputStream.java
* /opt/ws_local/PERMITS_SQL/1033212718_1591432933.35/0/spring-test-5-2-3-release-sources-
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* /opt/ws_local/PERMITS_SQL/1033212718_1591432933.35/0/spring-test-5-2-3-release-sources-
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jar/org/springframework/test/web/servlet/TestDispatcherServlet.java
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jar/org/springframework/mock/web/MockBodyContent.java
* /opt/ws_local/PERMITS_SQL/1033212718_1591432933.35/0/spring-test-5-2-3-release-sources-
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* /opt/ws_local/PERMITS_SQL/1033212718_1591432933.35/0/spring-test-5-2-3-release-sources-jar/org/springframework/test/context/junit4/statements/ProfileValueChecker.java
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* /opt/ws_local/PERMITS_SQL/1033212718_1591432933.35/0/spring-test-5-2-3-release-sources-jar/org/springframework/test/web/servlet/setup/StandaloneMockMvcBuilder.java
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[This is the first released version of the library GPL. It is numbered 2 because it goes with version 2 of the ordinary GPL.]

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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

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* /opt/ws_local/PERMITS_SQL/1026520552_1591432966.64/0/spring-instrument-5-2-3-release-sources-jar/org/springframework/instrument/InstrumentationSavingAgent.java

1.225 p11-kit 0.23.15 2

1.225.1 Available under license:

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1.226 j2objc-annotations 1.1

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From strings/apr_fnmatch.c, include/apr_fnmatch.h, misc/unix/getopt.c, file_io/unix/mktemp.c, strings/apr_strings.c:

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From network_io/unix/inet_ntop.c, network_io/unix/inet_pton.c:

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From strings/apr_strnatcmp.c, include/apr_strings.h:

strnatcmp.c -- Perform 'natural order' comparisons of strings in C.
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From strings/apr_snprintf.c:

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* file name: UBiDiProps.java
* encoding: US-ASCII
* tab size: 8 (not used)
* indentation:4
*
* created on: 2005jan16
* created by: Markus W. Scherer
*
* Low-level Unicode bidi/shaping properties access.
* Java port of ubidi_props.h/c.

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--------------------------------------------------------
<code>Replaceable</code> is an interface representing a string of characters that supports the replacement of a range of itself with a new string of characters. It is used by APIs that change a piece of text while retaining metadata. Metadata is data other than the Unicode characters returned by <code>charAt()</code>. One example of metadata is style attributes; another is an edit history, marking each character with an author and revision number.

An implicit aspect of the <code>Replaceable</code> API is that during a replace operation, new characters take on the metadata of the old characters. For example, if the string "the <b>bold</b> font" has range (4, 8) replaced with "strong", then it becomes "the <b>strong</b> font".

<code>Replaceable</code> specifies ranges using a start offset and a limit offset. The range of characters thus specified includes the characters at offset start..limit-1. That is, the start offset is inclusive, and the limit offset is exclusive.

<code>Replaceable</code> also includes API to access characters in the string: <code>length()</code>, <code>charAt()</code>, <code>length()</code>.
For a subclass to support metadata, typical behavior of `replace()` is the following:

- Set the metadata of the new text to the metadata of the first character replaced.
- If no characters are replaced, use the metadata of the previous character.
- If there is no previous character (i.e., `start == 0`), use the following character.
- If there is no following character (i.e., the replaceable was empty), use default metadata.
- If the code point U+FFFF is seen, it should be interpreted as a special marker having no metadata.

If this is not the behavior, the subclass should document any differences.

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@author Alan Liu
@stable ICU 2.0

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

`ReplaceableString` is an adapter class that implements the `Replaceable` API around an ordinary `StringBuffer`.

Note: This class does not support attributes and is not intended for general use. Most clients will need to implement `Replaceable` in their text representation class.

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@see Replaceable
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*/

package java.security;

import java.io.Serializable;

/**
public abstract class Permission implements Guard, Serializable {
    public Permission(String name) {}

    public final String getName() { return null; }

    public void checkGuard(Object obj) throws SecurityException {}

    public PermissionCollection newPermissionCollection() {
        return new AllPermissionCollection();
    }

    public abstract String getActions();

    public abstract boolean implies(Permission permission);
}

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1.230 core-module 1.2.3

1.231 commons-codec 1.13

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A. HISTORY OF THE SOFTWARE

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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see http://www.zope.com). In 2001, the Python Software Foundation (PSF, see http://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

All Python releases are Open Source (see http://www.opensource.org for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes
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* org.eclipse.jetty.orbit:org.eclipse.jdt.core

The following artifacts are EPL and ASL2.
* org.eclipse.jetty.orbit:javax.security.auth.message

The following artifacts are EPL and CDDL 1.0.
* org.eclipse.jetty.orbit:javax.mail.glassfish
Oracle

The following artifacts are CDDL + GPLv2 with classpath exception. https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions. http://openjdk.java.net/legal/gplv2+ce.html

OW2

The following artifacts are licensed by the OW2 Foundation according to the terms of http://asm.ow2.org/license.html

org.ow2.asm:asm-commons
org.ow2.asm:asm

Apache

The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

MortBay
The following artifacts are ASL2 licensed. Based on selected classes from following Apache Tomcat jars, all ASL2 licensed.

org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

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Mortbay

The following artifacts are CDDL + GPLv2 with classpath exception.

https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

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Jackson is a high-performance, Free/Open Source JSON processing library. It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has been in development since 2007. It is currently developed by a community of developers, as well as supported commercially by FasterXML.com.

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1.254 asm-util 5.0.3

1.255 xorg 7.7+19

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Source Package: xorg
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1.256 lsb 9.20161125

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* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/subjects/PublishSubject.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/exceptions/OnErrorFailedException.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/functions/Func1.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/operators/CompletableOnSubscribeMergeDelayErrorArray.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/operators/OperatorIgnoreElements.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/operators/CompletableOnSubscribeMergeDelayErrorIterable.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/operators/BufferUntilSubscriber.java

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jar/rx/internal/operators/OperatorSkipWhile.java
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* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/operators/OperatorSubscribeOn.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/operators/OperatorTimestamp.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/exceptions/MissingBackpressureException.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/operators/OperatorReplay.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/subscriptions/CompositeSubscription.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/operators/OperatorZipIterable.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/functions/Func5.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/operators/OnSubscribeUsing.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/operators/OnSubscribeSingle.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/util/SubscriptionList.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/operators/OnBackpressureBuffer.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/operators/OnBackpressureBuffer.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/subjects/TestSubject.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/operators/OnErrorResumeNextViaFunction.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/exceptions/OnErrorResponse.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/schedulers/NewThreadScheduler.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/util/SynchronousObservable.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/functions/Action3.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/operators/OnSubscribeRedo.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/subjects/SerializedSubject.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/Completable.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/schedulers/TrampolineScheduler.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/operators/OnSubscribeGroupJoin.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/CompletableOnSubscribeTimeout.java
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This package "rx.internal.operators" is for internal implementation details and can change at any time.

It is excluded from the public Javadocs (http://netflix.github.io/RxJava/javadoc/) and should not be relied upon by any code.

In short, changes to public signatures of these classes will not be accounted for in the versioning of RxJava.

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* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/CompletableSubscriber.java
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jar/rx/internal/util/SuppressAnimalSniffer.java
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jar/rx/internal/util/ExceptionsUtils.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-
jar/rx/internal/operators/OnSubscribeReduceSeed.java
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* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-
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* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/operators/OnSubscribeRefCount.java
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* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/operators/OperatorDistinct.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/operators/OperatorDebounceWithSelector.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/operators/OperatorDebounceWithTime.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/operators/OnSubscribeDelaySubscriptionWithSelector.java
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* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/util/PlatformDependent.java
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* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/operators/OperatorBufferWithStartEndObservable.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/operators/OperatorDoAfterTerminate.java
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This package contains code that relies on sun.misc.Unsafe. Before using it you MUST assert UnsafeAccess.isUnsafeAvailable() == true

Much of the code in this package comes from or is inspired by the JCTools project:
https://github.com/JCTools/JCTools

RxJava has a "zero dependency" policy for the core library, so if we do add it as a dependency, it won't be an
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of promoting the sharing and reuse of software generally.

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@ifinfo
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@end enumerate

@end iftex
@end ifinfo
@end page
@end heading

END OF TERMS AND CONDITIONS

@end ifinfo
@end page
@end heading

Appendix: How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the `copyright` line and a pointer to where the full notice is found.

@smallexample
@var{one line to give the program's name and a brief idea of what it does.}
Copyright (C) @var{yyyy}  @var{name of author}
This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.
This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.
You should have received a copy of the GNU General Public License along with this program; if not, write to the Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301, USA.
@end smallexample
Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

@smallexample
Gnomovision version 69, Copyright (C) @var{year} @var{name of author}
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it under certain conditions; type `show c' for details.
@end smallexample

The hypothetical commands @samp{show w} and @samp{show c} should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than @samp{show w} and @samp{show c}; they could even be mouse-clicks or menu items---whatever suits your program.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a ``copyright disclaimer'' for the program, if necessary. Here is a sample; alter the names:

@example
Yoyodyne, Inc., hereby disclaims all copyright interest in the program `Gnomovision' (which makes passes at compilers) written by James Hacker.

@var{signature of Ty Coon}, 1 April 1989
Ty Coon, President of Vice
@end example

This General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Lesser General Public License instead of this License.

@c The GNU Lesser General Public License.
@center Version 2.1, February 1999

@c This file is intended to be included within another document,
c hence no sectioning command or @node.

display
Copyright @copyright{} 1991, 1999 Free Software Foundation, Inc.
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301, USA

Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.
[This is the first released version of the Lesser GPL. It also counts as the successor of the GNU Library Public License, version 2, hence the version number 2.1.]
@end display

@subheading Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public Licenses are intended to guarantee your freedom to share and change free software---to make sure the software is free for all its users.

This license, the Lesser General Public License, applies to some specially designated software---typically libraries---of the Free Software Foundation and other authors who decide to use it. You can use it too, but we suggest you first think carefully about whether this license or the ordinary General Public License is the better strategy to use in any particular case, based on the explanations below.

When we speak of free software, we are referring to freedom of use, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish); that you receive source code or can get it if you want it; that you can change the software and use pieces of it in new free programs; and that you are informed that you can do these things.

To protect your rights, we need to make restrictions that forbid distributors to deny you these rights or to ask you to surrender these rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library or if you modify it.

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link other code with the library, you must provide complete object files to the recipients, so that they can relink them with the library after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original
author's reputation will not be affected by problems that might be introduced by others.

Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the \texttt{Lesser} General Public License because it does \texttt{Less} to protect the user's freedom than the ordinary General Public License. It also provides other free software developers \texttt{Less} of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

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

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.
Although the Lesser General Public License is less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

@subheading TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

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@item
This License Agreement applies to any software library or other program which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Lesser General Public License (also called "this License"). Each licensee is addressed as "you".

A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

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

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

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You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

1. The modified work must itself be a software library.
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3. You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.
4. If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

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

These requirements apply to the modified work as a whole. If
identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

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.

@item
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.

@item
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:

@enumerate a
@item 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.)

@item 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.

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

@item If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

@item Verify that the user has already received a copy of these materials or that you have already sent this user a copy.
@end enumerate

For an executable, the required form of the `work that uses the Library` must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on
which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

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@enumerate
@item
Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

@item
Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.
@end enumerate

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of all derivatives of our free software and of promoting the sharing
and reuse of software generally.

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@end enumerate

@end subheading END OF TERMS AND CONDITIONS

@page

@end subheading How to Apply These Terms to Your New Libraries

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To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

@include example

\begin{verbatim}
\texttt{\var{one line to give the library's name and an idea of what it does.}}

Copyright (C) \var{year} \var{name of author}

This library is free software; you can redistribute it and/or modify it under the terms of the GNU Lesser General Public License as published by the Free Software Foundation; either version 2.1 of the License, or (at your option) any later version.

This library is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU Lesser General Public License for more details.

You should have received a copy of the GNU Lesser General Public License along with this library; if not, write to the Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301, USA.
\end{verbatim}

Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a ``copyright disclaimer'' for the library, if necessary. Here is a sample; alter the names:

@include example
Yoyodyne, Inc., hereby disclaims all copyright interest in the library `Frob' (a library for tweaking knobs) written by James Random Hacker.

@var{signature of Ty Coon}, 1 April 1990
Ty Coon, President of Vice
@end smallexample

That's all there is to it!
This subpackage is under the GPL, see file COPYING in the toplevel directory.
The libasprintf package is under the LGPL, see file COPYING.LIB.

1.264 jetty-plus 9.4.26.v20200117
1.264.1 Available under license :

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  and

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------
Eclipse

The following artifacts are EPL.
* org.eclipse.jetty.orbit:org.eclipse.jdt.core

The following artifacts are EPL and ASL2.
* org.eclipse.jetty.orbit:javax.security.auth.message

The following artifacts are EPL and CDDL 1.0.
* org.eclipse.jetty.orbit:javax.mail.glassfish
-----
Oracle

The following artifacts are CDDL + GPLv2 with classpath exception.
https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

-----
Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.
http://openjdk.java.net/legal/gplv2+ce.html

-----
OW2

The following artifacts are licensed by the OW2 Foundation according to the terms of http://asm.ow2.org/license.html

org.ow2.asm:asm-commons
org.ow2.asm:asm

-----
Apache

The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

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MortBay
The following artifacts are ASL2 licensed. Based on selected classes from following Apache Tomcat jars, all ASL2 licensed.

org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util
org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

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Mortbay

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https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

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1.278 rx-netty-contexts 0.4.9

1.279 base-files 9.9+deb9u11

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```
```
cmd/krb5/kproplog/kproplog.c
```
```
cmd/krb5/slave/kpropd_rpc.c
```
```
lib/gss_mechs/mech_krb5/et/kdb5_err.c
```
```
lib/gss_mechs/mech_spnego/mech/gssapiP_spnego.h
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```
lib/gss_mechs/mech_spnego/mech/spnego_mech.c
```
```
lib/krb5/kadm5/kadm_host_srv_names.c
```
```
lib/krb5/kdb/kdb_convert.c
```
```
lib/krb5/kdb/kdb_hdr.h
```
```
lib/krb5/kdb/kdb_log.c
```
```
lib/krb5/kdb/kdb_log.h
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<link rel="stylesheet" href="_static/kerb.css" type="text/css" />
<script type="text/javascript">
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  VERSION:     '1.17',
  COLLAPSE_INDEX: false,
  FILE_SUFFIX: '.html',
  HAS_SOURCE:  true,
  SOURCELINK_SUFFIX: '.txt'
};
</script>
<script type="text/javascript" src="_static/jquery.js"></script>
<script type="text/javascript" src="_static/underscore.js"></script>
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<link rel="author" title="About these documents" href="about.html" />
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lib/gssapi/mechglue/g_accept_sec_context.c
lib/gssapi/mechglue/g_acquire_cred.c
lib/gssapi/mechglue/g_canon_name.c
lib/gssapi/mechglue/g_compare_name.c
lib/gssapi/mechglue/g_context_time.c
```
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```plaintext
include/iprop_hdr.h
kadmin/server/ipropd_svc.c
lib/kdb/iprop.x
lib/kdb/kdb_convert.c
lib/kdb/kdb_log.c
lib/kdb/error_tables/kdb5_err.et
kprop/kpropd_rpc.c
kprop/kproplog.c
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The implementations of GSSAPI mechglue in GSSAPI-SPNEGO in `src/lib/gssapi`, including the following files:

.. parsed-literal::

   lib/gssapi/generic/gssapi_err_generic.et
   lib/gssapi/mechglue/g_accept_sec_context.c
   lib/gssapi/mechglue/g_acquire_cred.c
   lib/gssapi/mechglue/g_canon_name.c
   lib/gssapi/mechglue/g_compare_name.c
   lib/gssapi/mechglue/g_context_time.c
   lib/gssapi/mechglue/g_delete_sec_context.c
   lib/gssapi/mechglue/g_dsp_name.c
   lib/gssapi/mechglue/g_dsp_status.c
   lib/gssapi/mechglue/g_dup_name.c
   lib/gssapi/mechglue/g_exp_sec_context.c
   lib/gssapi/mechglue/g_export_name.c
   lib/gssapi/mechglue/g_glue.c
   lib/gssapi/mechglue/g_imp_name.c
   lib/gssapi/mechglue/g_imp_sec_context.c
   lib/gssapi/mechglue/g_init_sec_context.c
   lib/gssapi/mechglue/g_initialize.c
   lib/gssapi/mechglue/g_inquire_context.c
   lib/gssapi/mechglue/g_inquire_cred.c
   lib/gssapi/mechglue/g_inquire_names.c
   lib/gssapi/mechglue/g_process_context.c
   lib/gssapi/mechglue/g_rel_buffer.c
   lib/gssapi/mechglue/g_rel_cred.c
   lib/gssapi/mechglue/g_rel_name.c
   lib/gssapi/mechglue/g_rel_oid_set.c
   lib/gssapi/mechglue/g_seal.c
   lib/gssapi/mechglue/g_sign.c
   lib/gssapi/mechglue/g_store_cred.c
   lib/gssapi/mechglue/g_unseal.c
   lib/gssapi/mechglue/g_userok.c
and the initial implementation of incremental propagation, including
the following new or changed files:

.. parsed-literal::

    include/iprop_hdr.h
    kadmin/server/ipropd_svc.c
    lib/kdb/iprop.x
    lib/kdb/kdb_convert.c
    lib/kdb/kdb_log.c
    lib/kdb/kdb_log.h
    lib/krb5/error_tables/kdb5_err.et
    kprop/kpropd_rpc.c
    kprop/kproplog.c

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  VERSION:     '1.17',
  COLLAPSE_INDEX: false,
  FILE_SUFFIX: '.html',
  HAS_SOURCE:  true,
  SOURCELINK_SUFFIX: '.txt'
};
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lib/gssapi/generic/gssapi_err_generic.et
lib/gssapi/mechglue/g_accept_sec_context.c
lib/gssapi/mechglue/g_acquire_cred.c
lib/gssapi/mechglue/g_canon_name.c
lib/gssapi/mechglue/g_compare_name.c
lib/gssapi/mechglue/g_context_time.c
lib/gssapi/mechglue/g_delete_sec_context.c
lib/gssapi/mechglue/g_dsp_name.c
lib/gssapi/mechglue/g_dsp_status.c
lib/gssapi/mechglue/g_dup_name.c
lib/gssapi/mechglue/g_exp_sec_context.c
and the initial implementation of incremental propagation, including
the following new or changed files:

include/iprop_hdr.h
kadmin/server/ipropd_svc.c
lib/kdb/iprop.x
lib/kdb/kdb_convert.c
lib/kdb/kdb_log.c
lib/kdb/kdb_log.h
lib/krb5/error_tables/kdb5_err.et
kprop/kpropd_rpc.c
kprop/kproplog.c

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```python
import os
import sys
import re

def warn(fname, ln, msg):
    print('%s: %d: %s' % (fname, ln + 1, msg))

def indicates_license(line):
    return 'Copyright' in line or 'COPYRIGHT' in line or 'License' in line

# Check a comment for boilerplate violations. Return true if the comment
# is a license statement.
def check_comment(comment, fname, ln, code_seen, nonlicense_seen):
    text_seen = False
    is_license = False
    for line in comment:
        if not is_license and indicates_license(line):
            is_license = True
        if text_seen:
            warn(fname, ln, 'License begins after first line of comment')
        elif code_seen:
            warn(fname, ln, 'License after code')
        elif nonlicense_seen:
            warn(fname, ln, 'License after non-license comments')
        break
    # DB2 licenses start with '/**' and we don't want to change them.
    if line != '' and line != '-'
        text_seen = True
    return is_license

def check_file(lines, fname):
    # Skip emacs mode line if present.
    ln = 0
    if '-*- mode: c;' in lines[ln]:
        ln += 1
    # Check filename comment if present.
    m = re.match(r'^\*\* ([^ ]*)( - .*)? \*/', lines[ln])
    if m:
        if m.group(1) != fname:
            warn(fname, ln, 'Wrong filename in comment')
        ln += 1
```

# or implied warranty.
# Scan for license statements.
in_comment = False
code_seen = False
nonlicense_seen = False
for line in lines:
    # Strip out whitespace and comments contained within a line.
    if not in_comment:
        line = re.sub(r'/\*.*?\*/', '', line)
        line = line.strip()

    if not in_comment and '/*' in line:
        (line, sep, comment_part) = line.partition('/*')
        comment = [comment_part.strip()]
        comment_starts_at = ln
        in_comment = True
    elif in_comment and '*/' not in line:
        comment.append(line.lstrip('*').lstrip())
    elif in_comment:
        (comment_part, sep, line) = line.partition('*/')
        comment.append(comment_part.strip())
    is_license = check_comment(comment, fname, comment_starts_at,
                               code_seen, nonlicense_seen)
    nonlicense_seen = nonlicense_seen or not is_license
    in_comment = False
    elif line.strip() != '':
        code_seen = True

for fname in sys.argv[1]:
    if fname.startswith('./'):
        f = open(fname)
        lines = f.readlines()
        f.close()
    check_file(lines, fname)

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```
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This program comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
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1.284 rxjs 6.5.5

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1.285 angular-forms 9.0.7

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Angular
=======
The sources for this package are in the main [Angular](https://github.com/angular/angular) repo. Please file issues and pull requests against that repo.

Usage information and reference details can be found in [Angular documentation](https://angular.io/docs).

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import {InjectionToken} from '@angular/core';

/**
 * @description
 * Defines an interface that acts as a bridge between the Angular forms API and an native element in the DOM.
 * It implements this interface to create a custom form control directive that integrates with Angular forms.
 * @see DefaultValueAccessor
 * @publicApi
 */

export interface ControlValueAccessor {
  /**
   * @description
   * Writes a new value to the element.
   * This method is called by the forms API to write to the view when programmatic changes from model to view are requested.
   * @usageNotes
   * The following example writes a value to the native DOM element.
   * When implementing the `registerOnChange` method in your own value accessor, save the given function so your class calls it at the appropriate time.
   * @param obj
   * The new value for the element
   */
  writeValue(obj: any): void;

  /**
   * @description
   * Registers a callback function that is called when the control's value changes in the UI.
   * When implementing the `registerOnTouched` method in your own value accessor, save the given function so your class calls it when the control should be considered blurred or touched.
   * @param fn
   * The callback function to register
   */
  registerOnChange(fn: any): void;

  /**
   * @description
   * Registers a callback function is called by the forms API on initialization to update the form model on blur.
   * When implementing the `registerOnTouched` method in your own value accessor, save the given function so your class calls it when the control should be considered blurred or touched.
   * @param fn
   * The callback function to register
   */
  registerOnTouched(fn: any): void;

  /**
   * @description
   * Function that is called by the forms API when the control status changes to or from 'DISABLED'.
   * Depending on the status, it enables or disables the appropriate DOM element.
   * @usageNotes
   * The following is an example of writing the disabled property to a native DOM element:
   * @param isDisabled
   * The disabled status to set on the element
   */
  setDisabledState?(isDisabled: boolean): void;
}

/**
 * Used to provide a `ControlValueAccessor` for form controls.
 * See `DefaultValueAccessor` for how to implement one.
 * @publicApi
 */
export const NG_VALUE_ACCESSOR = new InjectionToken<ControlValueAccessor>('NgValueAccessor');
```typescript
/**
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 */

import {ɵgetDOM as getDOM} from '@angular/common';
import {Directive, ElementRef, Inject, InjectionToken, Optional, Renderer2, forwardRef} from '@angular/core';
import {ControlValueAccessor, NG_VALUE_ACCESSOR} from './control_value_accessor';

export const DEFAULT_VALUE_ACCESSOR: any = {
  provide: NG_VALUE_ACCESSOR,
  useExisting: forwardRef(() => DefaultValueAccessor),
  multi: true
};

/**
 * @description
 * We must check whether the agent is Android because composition events
 * behave differently between iOS and Android. We use the userAgent
 * property on the input element to
 * determine whether the agent is Android.
 */
function _isAndroid(): boolean {
  const userAgent = getDOM() ? getDOM().getUserAgent() : '';
  return /android (\d+)/.test(userAgent.toLowerCase());
}

/**
 * @description
 * The default `ControlValueAccessor` for writing a value and listening to changes on input
 * elements. The accessor is used by the `FormControlDirective`, `FormControlName`, and
 * `NgModel` directives.
 *
 * @usageNotes
 *
 * ### Using the default value accessor
 *
 * The following example shows how to use an input element that activates the default value accessor
 * (in this case, a text field):
 *
 * ```ts
 * const firstNameControl = new FormControl();
 * ```
 *
 * ```
 * <input type="text" [formControl]="firstNameControl">
 * ```
 *
 * @ngModule ReactiveFormsModule
 * @ngModule FormFormsModule
 * @publicApi
 */
@Directive({
  selector:
  '[formControl],[control],[formControlName],textarea,[formControl],input[type=checkbox],textarea,select,textarea[formControlName],input[type=checkbox][formControlName],input[type=text][formControlName],input[type=password][formControlName],[ngModel],input:not([type=checkbox])[ngModel],textarea[ngModel],input[formControlName],input[type=text][formControlName],input[type=password][formControlName],[ngDefaultControl],
  host: {
    '(change)': 'onChange($event.target.value), (blur)': 'onTouched()',
  },
  providers:
  [DEFAULT_VALUE_ACCESSOR],
})
export class DefaultValueAccessor implements
ControlValueAccessor {
  /**
   * @description
   * The registered callback function called when a change event occurs on the input element.
   */
  onChange = (_: any) => {};

  /**
   * @description
   * The registered callback function called when a blur event occurs on the input element.
   */
  onTouched = () => {};

  /**
   * Whether the user is creating a composition string (IME events).
   */
  private _composing = false;

  /**
   * The current text value.
   */
  _textValue = ''; 

  constructor(private _renderer: Renderer2, private _elementRef: ElementRef, @Optional())
}
```

Open Source Used In MSX vBranch Service Pack 3.9.0 2780
*param value The callback function
  registerOnTouched(fn: () => void): void { this.onTouched = fn; }
  registerOnChange(fn: (_: any) => void): void {
    this.onChange = fn; }
  normalizeValue(value: any): any {
    return this.control ? this.control.normalizedValue(value): value
  }

  writeValue(value: any): void {
    const normalizedValue = value == null ? '' : value;
    this._renderer.setProperty(this._elementRef.nativeElement, 'value', normalizedValue);
  }

  writeValue(): any {
    return this.control ? this.control.value : null;
  }

  get disabled(): boolean|null { return this.control ? this.control.disabled : null; }
  setDisabledState(isDisabled: boolean): void {
    this._renderer.setProperty(this._elementRef.nativeElement, 'disabled', isDisabled);
  }

  registerOnTouched(fn: () => void): void { this.onTouched = fn; }
  registerOnChange(fn: (_: any) => void): void {
    this.onChange = fn; }

```typescript
/**
 * @description
 * The parent form for the control.
 *
 * extend. It binds a `FormControl`
 * object to a DOM element.
 *
 * @publicApi
 */
export abstract class Error('unimplemented');

/**
 * @description
 * A base class that all control `FormControl`-based directives
 * that implement `NgControl`.
 *
 * `AsyncValidatorFn`, `Validator`, `ValidatorFn`}
 * from './validators';

function unimplemented(): any {
  throw new './control_container';
import {ControlValueAccessor} from './control_value_accessor';
import {AsyncValidator,
*/

import {AbstractControlDirective} from './abstract_control_directive';
import {ControlContainer} from
```

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```
* @internal
   */
  _parent: ControlContainer|null = null;

  /**
   * @description
   * The name for the control
   */
  name: string|number|null = null;

  /**
   * @description
   * The value accessor for the control
   */
  valueAccessor: ControlValueAccessor|null = null;

  /**
   * @description
   * The uncomposed array of synchronous validators for the control
   */
  _rawValidators:
    Array<Validator|ValidatorFn> = [];

  /**
   * @description
   * The uncomposed array of async validators for the control
   */
  _rawAsyncValidators: Array<AsyncValidator|AsyncValidatorFn> = [];

  /**
   * @description
   * The registered synchronous validator function for the control
   */
  get validator(): ValidatorFn|null { return <ValidatorFn>unimplemented(); }

  /**
   * @description
   * The registered async validator function for the control
   */
  get asyncValidator(): AsyncValidatorFn|null { return <AsyncValidatorFn>unimplemented(); }

  /**
   * @description
   * The callback method to update the model from the view when requested
   */
  abstract viewToModelUpdate(newValue: any): void;
}

import {Directive, Self} from '@angular/core';
import {AbstractControlDirective} from './abstract_control_directive';
import {ControlContainer} from './control_container';
import {NgControl} from './ng_control';

export class AbstractControlStatus {
  private _cd: AbstractControlDirective;

  constructor(cd: AbstractControlDirective) {
    this._cd = cd;
  }

  get ngClassUntouched(): boolean { return this._cd.control ? this._cd.control.untouched : false; }
  get ngClassTouched(): boolean { return this._cd.control ? this._cd.control.touched : false; }
  get ngClassPristine(): boolean { return this._cd.control ? this._cd.control.pristine : false; }
  get ngClassDirty(): boolean { return this._cd.control ? this._cd.control.dirty : false; }
  get ngClassValid(): boolean { return this._cd.control ? this._cd.control.valid : false; }
  get ngClassInvalid(): boolean { return this._cd.control ? this._cd.control.invalid : false; }
  get ngClassPending(): boolean { return this._cd.control ? this._cd.control.pending : false; }
}

export const ngControlStatusHost = {
  '[class.ng-untouched]': 'ngClassUntouched',
  '[class.ng-touched]': 'ngClassTouched',
  '[class.ng-pristine]': 'ngClassPristine',
  '[class.ng-dirty]': 'ngClassDirty',
  '[class.ng-valid]': 'ngClassValid',
  '[class.ng-invalid]': 'ngClassInvalid',
  '[class.ng-pending]': 'ngClassPending',
};

/**
 * @description
 * Directive automatically applied to Angular form controls that sets CSS classes
 * based on control status.
 * 
 * @see `NgControlStatus`
 *
 * @ngModule ReactiveFormsModule
 * @ngModule FormsModule
 * @publicApi
 */
@Directive({selector: '[formControlName], [ngModel], [formControl]', host: ngControlStatusHost})
export class NgControlStatus extends AbstractControlStatus {
  constructor(@Self() cd: NgControl) {
    super(cd);
    this._cd = cd;
  }

  get ngClassUntouched(): boolean { return this._cd.control ? this._cd.control.untouched : false; }
  get ngClassTouched(): boolean { return this._cd.control ? this._cd.control.touched : false; }
  get ngClassPristine(): boolean { return this._cd.control ? this._cd.control.pristine : false; }
  get ngClassDirty(): boolean { return this._cd.control ? this._cd.control.dirty : false; }
  get ngClassValid(): boolean { return this._cd.control ? this._cd.control.valid : false; }
  get ngClassInvalid(): boolean { return this._cd.control ? this._cd.control.invalid : false; }
  get ngClassPending(): boolean { return this._cd.control ? this._cd.control.pending : false; }
}

export class ReactiveFormsModule extends AbstractControlStatus {
  constructor(@Self() cd: ControlContainer) {
    super(cd);
    this._cd = cd;
  }

  get ngClassUntouched(): boolean { return this._cd.control ? this._cd.control.untouched : false; }
  get ngClassTouched(): boolean { return this._cd.control ? this._cd.control.touched : false; }
  get ngClassPristine(): boolean { return this._cd.control ? this._cd.control.pristine : false; }
  get ngClassDirty(): boolean { return this._cd.control ? this._cd.control.dirty : false; }
  get ngClassValid(): boolean { return this._cd.control ? this._cd.control.valid : false; }
  get ngClassInvalid(): boolean { return this._cd.control ? this._cd.control.invalid : false; }
  get ngClassPending(): boolean { return this._cd.control ? this._cd.control.pending : false; }
}

export class NgModel ReactiveFormsModule extends AbstractControlStatus {
  constructor(@Self() cd: ControlContainer) {
    super(cd);
    this._cd = cd;
  }

  get ngClassUntouched(): boolean { return this._cd.control ? this._cd.control.untouched : false; }
  get ngClassTouched(): boolean { return this._cd.control ? this._cd.control.touched : false; }
  get ngClassPristine(): boolean { return this._cd.control ? this._cd.control.pristine : false; }
  get ngClassDirty(): boolean { return this._cd.control ? this._cd.control.dirty : false; }
  get ngClassValid(): boolean { return this._cd.control ? this._cd.control.valid : false; }
  get ngClassInvalid(): boolean { return this._cd.control ? this._cd.control.invalid : false; }
  get ngClassPending(): boolean { return this._cd.control ? this._cd.control.pending : false; }
}

export class NgForm ReactiveFormsModule extends AbstractControlStatus {
  constructor(@Self() cd: ControlContainer) {
    super(cd);
    this._cd = cd;
  }

  get ngClassUntouched(): boolean { return this._cd.control ? this._cd.control.untouched : false; }
  get ngClassTouched(): boolean { return this._cd.control ? this._cd.control.touched : false; }
  get ngClassPristine(): boolean { return this._cd.control ? this._cd.control.pristine : false; }
  get ngClassDirty(): boolean { return this._cd.control ? this._cd.control.dirty : false; }
  get ngClassValid(): boolean { return this._cd.control ? this._cd.control.valid : false; }
  get ngClassInvalid(): boolean { return this._cd.control ? this._cd.control.invalid : false; }
  get ngClassPending(): boolean { return this._cd.control ? this._cd.control.pending : false; }
}
@usageNotes

Providing a custom validator is a way to add validation specific to your application. For example, you could create a custom validator function that checks if a value is a valid e-mail address. This function would be added to the collection of validators that Angular uses to validate form controls.

```typescript
@Directive({
  selector: `[customValidator]`,
  providers: [{provide: NG_VALIDATORS, useExisting: CustomValidatorDirective, multi: true}]
})
class CustomValidatorDirective implements Validator {
  validate(control: AbstractControl): ValidationErrors | null {
    return { 'custom': true };
  }
}
```

The `@Directive` decorator is used to define a directive that adds a custom validator function to the collection of validators. The `@Directive` decorator takes an object as its argument, which contains metadata about the directive, such as its selector and providers.

The `@Injectable` decorator is used to define a service that provides a set of built-in validators that can be used by form controls. A validator is a function that processes a `FormControl` or collection of controls and returns an error map or null. A null map means that validation has passed, while an error map contains one or more properties that indicate validation errors.

```typescript
export class Validators {
  static min(min: number): ValidatorFn {
    return (control: AbstractControl): ValidationErrors | null => {
      if (isEmptyInputValue(control.value) || isEmptyInputValue(min)) {
        return null;  // don't validate empty values to allow optional controls
      }
      const value = parseFloat(control.value);
      return !isNaN(value) && value < min ? {'min': {'min': min, 'actual': control.value}} : null;
    }
  }
}
```

The `Validators.min` function is a validator function that requires the control's value to be greater than or equal to the provided number. It returns a validation error if the condition is not met, otherwise null.

The validation process is handled by Angular's form validation system, which automatically updates the form controls and displays any validation errors to the user.
isNotEmptyInputValue(max))} {\n  return null;  // don't validate empty values to allow optional controls\n} \nconst value = parseFloat(control.value);\n  // Controls with NaN values after parsing should be treated as not\n  // maximum, per the HTML forms spec: https://www.w3.org/TR/html5/forms.html#attr-input-max\nreturn isNaN(value) && value > max ? { 'max': { 'max': max, 'actual': control.value } } : null;\n} \n\n### Validate that the field is non-empty

```typescript
const control = new FormControl('', Validators.required);
\nconsole.log(control.errors);  // {required: true}
\n### Validate that the field matches a valid email pattern

```typescript
const control = new FormControl('bad@', Validators.email);
\nconsole.log(control.errors);  // {email: true}
\n### Validate that the field value is true

```typescript
const control = new FormControl(true, Validators.requiredTrue);
\nconsole.log(control.errors);  // {required: true}
\n### Validate that the field has a non-empty value

```typescript
const control = new FormControl('', Validators.required);
\nconsole.log(control.errors);  // {required: true}
\n### Validate that the field has a maximum of 5 characters

```typescript
const control = new FormControl('', Validators.maxLength(5));
\nconsole.log(control.errors);  // {maxlength: {requiredLength: 5, actualLength: 5}}
\n### Validate that the field has a minimum of 3 characters

```typescript
const control = new FormControl('', Validators.minLength(3));
\nconsole.log(control.errors);  // {minlength: {requiredLength: 3, actualLength: 3}}
\n### Validate that the field has a maximum length of 5 characters

```typescript
const control = new FormControl('', Validators.maxLength(5));
\nconsole.log(control.errors);  // {maxlength: {requiredLength: 5, actualLength: 5}}
\n### Validate that the field has a maximum of 5 characters

```typescript
const control = new FormControl('', Validators.maxLength(5));
\nconsole.log(control.errors);  // {maxlength: {requiredLength: 5, actualLength: 5}}
\n### Validate that the field has a minimum length of 3 characters

```typescript
const control = new FormControl('', Validators.minLength(3));
\nconsole.log(control.errors);  // {minlength: {requiredLength: 3, actualLength: 3}}
\n```
returns an error map with the `pattern` property if the validation check fails, otherwise `null`.

```typescript
export function pattern(pattern: string|RegExp): ValidatorFn {
  if (!pattern) return Validators.nullValidator;
  let regex:
```
Object.keys(res).length === 0 ? null : res

*/un *

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*/
```typescript
this._accessors.push([this, accessor]);

/**
 * @description
 * Removes a control from the internal registry. For internal use only.
 */
remove(accessor: RadioControlValueAccessor) {
  for (let i = this._accessors.length - 1; i >= 0; --i) {
    if (this._accessors[i][1] === accessor) {
      this._accessors.splice(i, 1);
      return;
    }
  }
}

/**
 * @description
 * Selects a radio button. For internal use only.
 */
select(accessor: RadioControlValueAccessor) {
  for (let i = this._accessors.length - 1; i >= 0; --i) {
    if (this._accessors[i][1] === accessor) {
      this._accessors[i][1].fireUncheck(accessor.value);
      return;
    }
  }
}

/**
 * @description
 * @ngModule ReactiveFormsModule
 * @ngModule Forms
 * @publicApi
 * @internal
 */
@Directive({
  selector: ['input[formControlName]', 'input[formControl], input[ngModel]'],
  host: {'(change)': 'onChange()', '(blur)': 'onTouched()'},
  providers: [RADIO_VALUE_ACCESSOR]
})
export class RadioControlValueAccessor implements ControlValueAccessor, OnDestroy, OnInit {
  /** *
   * @description
   * The registered callback function called when a change event occurs on the input element.
   */
  onChange = () => {};

  /**
   * @description
   * The registered callback function called when a blur event occurs on the input element.
   */
  onTouched = () => {};

  /**
   * @description
   * Tracks the name of the radio input element.
   */
  @Input() name = 'radio';

  /**
   * @description
   * Tracks the value of the radio input element
   */
  @Input() value = null;

  constructor(
      private _renderer: Renderer2, private _elementRef: ElementRef,
      private _registry: RadioControlRegistry, private _injector: Injector) {
    this._checkName();
    this._registry.add(this._control, this);
  }

  /**
   * Lifecycle method called when the control is initialized. For internal use only.
   */
  ngOnInit(): void {
    this._control = this._injector.get(NgControl);
    this._checkName();
    this._registry.add(this._control, this);
  }

  /**
   * Lifecycle method called before the directive's instance is destroyed. For internal use only.
   */
  ngOnDestroy(): void { this._registry.remove(this); }

  /**
   * Sets the "checked" property on the radio input element.
   *
   * @param value
   */
  writeValue(value: any): void {
    this._state = value === this.value;
    this._renderer.setProperty(this._elementRef.nativeElement, 'checked', this._state);
  }

  /**
   * Registers a function called when the control value changes.
   *
   * @param fn The callback function
   */
  registerOnChange(fn: (_: any) => {}): void {
    this._fn = fn;
    this.onChange = () => {
      fn(this.value);
      this._registry.select(this);
    };
  }

  /**
   * Sets the "disabled" property on the input element.
   *
   * @param fn The callback function
   */
  registerOnTouched(fn: () => {}): void {
    this._fn = fn;
    this.onTouched = () => {
      fn();
    };
  }

  /**
   * Sets the "disabled" property on the radio input element.
   *
   * @param fn The callback function
   */
  setDisabledState(isDisabled: boolean): void {
    this._renderer.setProperty(this._elementRef.nativeElement, 'disabled', isDisabled);
  }

  private _checkName(): void {
    if (this.name && this.formControlName && this.name !== this.formControlName) {
      throw new Error(`
        If you define both a name and a formControlName attribute on your radio button, their values
```
```
must match. Ex: `<input type="radio" formControlName="food">` & ```name="food"&gt;\n \n \n <input style="radio" formControlName="food" name="food">\n \n \n 
 ```

```typescript
`);}

```typescript
",

```typescript
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 * style license that can be found in the LICENSE file at https://angular.io/license
 */

import {Directive, ElementRef, Renderer2, StaticProvider, forwardRef} from '@angular/core';

import {ControlValueAccessor, NG_VALUE_ACCESSOR} from './control_value_accessor';

export const RANGE_VALUE_ACCESSOR: StaticProvider = {
  provide: NG_VALUE_ACCESSOR,
  useExisting: forwardRef(() =>
    RangeValueAccessor),
  multi: true
};

/**
 * @description
 * The `ControlValueAccessor` for writing a
 * range value and listening to range input changes.
 * The value accessor is used by the `FormControlDirective`,
 * `FormControlName`, and `NgModel`.* directives.
 * @usageNotes
 * The following example shows how to use a range input with a reactive form.
 * *
 * ```
 * ageControl = new FormControl('40');
 * ```
 *
 * ```
 * <input type="range">
 * ```
 *
 * @ngModule ReactiveFormsModule
 * @ngModule FormsModule
 */
@Directive({
  selector: '[type=range][formControlName],[type=range][formControl],
  host: {
    (change)': `onChange(Sevent.target.value)
    (input)': `onChange(Sevent.target.value)
    (blur)': `onTouched()"
    providers: [RANGE_VALUE_ACCESSOR]}
})
export class RangeValueAccessor
  implements ControlValueAccessor {

  /**
   * The registered callback function called when a change or input event occurs on the input.
   * @param value The checked value
   */
  onChange = (_: any) => {};

  /**
   * Sets the `value` property on the input.
   */
  writeValue(value: any): void {
    this._renderer.setProperty(this._elementRef.nativeElement, 'value', value);
  }

  /**
   * Registers a function called when the control value changes.
   * @param fn The callback function
   */
  registerOnChange(fn: (_: number|null) => void): void {
    this.onChange = (value) => { fn(value == '' ? null : parseFloat(value)); }
  }

  /**
   * Registers a function called when the control is touched.
   * @param fn The callback function
   */
  registerOnTouched(fn: () => void) {
    this.onTouched = fn;
  }

  /**
   * Sets the `disabled` property on the range input.
   */
  setDisabledState(isDisabled: boolean): void {
    this._renderer.setProperty(this._elementRef.nativeElement, 'disabled', isDisabled);
  }

  constructor(private _renderer: Renderer2, private _elementRef: ElementRef) {
  }

  static controlParentException(): void {
    throw new Error(`formControlName must be used with a parent
    control reference in a reactive form`);
  }
}

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 */

export const FormErrorExamples = {
  formControlName: `
    <div [formGroup]="myGroup">
       <input formControlName="firstName">
    </div>

    In your class:

    this.myGroup = new FormGroup({
       firstName: new FormControl()
    });`,

  formGroupName: `
    <div [formGroup]="myGroup">
       <div formGroupName="person">
          <input formControlName="firstName">
       </div>
    </div>

    In your class:

    this.myGroup = new FormGroup({
       person: new FormControl()
    });`,

  formArrayName: `
    <div
         formArrayName="cities">
      <div *ngFor="let city of cityArray.controls; index as i">
        <input [(formControlName)]="i">
      </div>
    </div>

    In your class:

    this.cityArray = new FormArray([new FormControl('SF')]);
    this.myGroup = new FormGroup({
       cities: this.cityArray
    });`,

  ngModelGroup: `
    <form>
       <div ngModelGroup="person">
          <input [(ngModel)]="person.name" name="firstName">
       </div>
    </form>

    In your class:

    this.person = new Person();
    this.myGroup = new FormGroup({
       firstName: new FormControl()
    });`,

  ngModelWithFormGroup: `
    <div
         ngModelGroup="person">
      <input [(ngModel)]="showMoreControls" [ngModelOptions]="{standalone: true}">
      <input [(ngModel)]="myGroup.firstName">
      <input [(ngModel)]="myGroup.age">
    </div>

    In your class:

    this.person = new Person();
    this.myGroup = new FormGroup({
       firstName: new FormControl()
    });`,

  `;export class ReactiveErrors {
  static controlParentException(): void {
    throw new Error(`formControlName must be used with a parent
    control reference in a reactive form`);
  }
}

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formGroup directive. You'll want to add a formGroup

directive and pass it an existing FormGroup instance (you can create one in your class).

Example:

```typescript
${Examples.formControlName}`);
```

\n
static

ngModelGroupException(): void {
  \n  throw new Error('formControlName cannot be used with an

ngModelGroup parent. It is only compatible with parents

that also have a "form" prefix: formGroupName, formArrayName, or formGroup.

Option 1: Update the parent to be formGroupName (reactive form

strategy)

\n
Option 2: Use ngModel instead of formControlName

(template-driven strategy)

\n
static missingFormException(): void {
  \n  throw new Error('formGroup expects a FormGroup instance. Please pass one in.

Example:

```typescript
${Examples.formControlName}`);
```

\n
static groupParentException(): void {
  \n  throw new Error('formGroupName must be used with a parent formGroup directive. You'll want to add a formGroup

directive and pass it an existing FormGroup instance (you can create one in your class).

Example:

```typescript
${Examples.formGroupName}`);
```

\n
static arrayParentException(): void {
  \n  throw new Error('formArrayName must be used with a parent formGroup directive. You'll want to add a formGroup

directive and pass it an existing FormGroup instance (you can create one in your class).

Example:

```typescript
${Examples.formArrayName}`);
```

\n
static disabledAttrWarning(): void {
  
  It looks like you're using the disabled attribute with a reactive form directive. If you set disabled to true

when you set up this control in your component class, the disabled attribute will actually be set in the DOM for

you. We recommend using this approach to avoid 'changed after checked' errors.

Example: form = new FormGroup({

  first: new FormControl({value: 'Nancy', disabled: true}, Validators.required),

  last: new FormControl('Drew', Validators.required)
});
```

\n
static ngModelWarning(directiveName: string): void {
  console.warn(`

  It looks like you're using ngModel on the same form field as $\{directiveName$\}. 

  Example: 

```typescript
form = new FormGroup({

  first: new FormControl({value: 'Nancy', disabled: true}, Validators.required),

  last: new FormControl('Drew', Validators.required)
});
```

Example: form = new FormGroup({

  first: new FormControl({value: 'Nancy', disabled: true}, Validators.required),

  last: new FormControl('Drew', Validators.required)
});
```

\n
**

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```typescript
[formControl]="selectedCountriesControl" />

*     <option *ngFor="let country of countries" [ngValue]="country"> *         {{country.name}} *     </option>
* </select>

compareFn(c1: Country, c2: Country): boolean {
    return c1 && c2 ? c1.id === c2.id : c1 === c2;
}

```

**Note:** We listen to the 'change' event because 'input' events aren't fired on selects in Firefox and IE:

https://bugzilla.mozilla.org/show_bug.cgi?id=1024350


@publicApi *\n* @Directive({
  selector: 'select:not([multiple])[formControlName], select:not([multiple])[formControl], select:not([multiple])[ngModel],
  host: {'(change)': 'onChange($event.target.value)', '(blur)': 'onTouched()'},
  providers: [SELECT_VALUE_ACCESSOR]})
export class SelectControlValueAccessor implements

ControlValueAccessor {
  value: any;
  /** @internal */ *\n  _optionMap: Map<string, string> = new Map();
  /** @internal */ *\n  _idCounter: number = 0;
  /** @internal */ *\n  _compareWith: (o1: any, o2: any) => boolean = looseIdentical;

  /**
   * @description
   * The registered callback function called when a change event occurs on the input element.
   * *\n   * @param newValue
   * @param oldValue
   */
  onChange = (_: any) => {};

  /**
   * @description
   * The registered callback function called when a blur event occurs on the input element.
   * *\n   * @param newValue
   * @param oldValue
   */
  onTouched = () => {};

  /**
   * @description
   * Tracks the option comparison algorithm for tracking identities when checking for changes.
   * *\n   * @param option
   * @param oldValue
   */
  registerOnChange(fn: (value: any) => any): void {
    this.onChange = (valueString: string) => {
      this.value = this._getOptionValue(valueString);
      fn(this.value);
    };
  }

  /**
   * @description
   * Registers a function called when the control is touched.
   * *\n   * @param fn
   */
  registerOnTouched(fn: () => any): void {
    this.onTouched = fn;
  }

  /**
   * Sets the disabled property on the select input element.
   * *\n   * @param isDisabled
   */
  setDisabledState(isDisabled: boolean): void {
    this._renderer.setProperty(this._elementRef.nativeElement, 'disabled', isDisabled);
  }

  /** @internal */
  _registerOption(): string { return (this._idCounter++).toString();
}

  /** @internal */
  _getOptionId(value: any): string|null {
    for (const id of Array.from(this._optionMap.keys())) {
      if (this._compareWith(this._optionMap.get(id), value)) return id;
    }
    return null;
  }

  /** @internal */ *\n  _getOptionValue(valueString: string): any {
    const id = _extractId(valueString);
    return this._optionMap.has(id) ? this._optionMap.get(id) : valueString;
  }

*\n*\n```
@internal */\n _setElementValue(value: string): void {\n this._renderer.setProperty(this._element.nativeElement,
'value', value);\n }\n\n /**\n * @description\n * Lifecycle method called before the directive's instance is
destroyed. For internal use only.\n */\n ngOnDestroy(): void {\n if (this._select) {\n
this._select._optionMap.delete(this.id);\n
this._select.writeValue(this._select.value);\n }\n }\n}\n","/**\n *
@license\n * Copyright Google Inc. All Rights Reserved.\n *\n * Use of this source code is governed by an MITstyle license that can be\n * found in the LICENSE file at https://angular.io/license\n */\n\nimport {Directive,
ElementRef, Host, Input, OnDestroy, Optional, Renderer2, StaticProvider, forwardRef, ÉµlooseIdentical as
looseIdentical} from '@angular/core';\n\nimport {ControlValueAccessor, NG_VALUE_ACCESSOR} from
'./control_value_accessor';\n\nexport const SELECT_MULTIPLE_VALUE_ACCESSOR: StaticProvider = {\n
provide: NG_VALUE_ACCESSOR,\n useExisting: forwardRef(() => SelectMultipleControlValueAccessor),\n
multi: true\n};\n\nfunction _buildValueString(id: string, value: any): string {\n if (id == null) return `${value}`;\n if
(typeof value === 'string') value = `'${value}'`;\n if (value && typeof value === 'object') value = 'Object';\n return
`${id}: ${value}`.slice(0, 50);\n}\n\nfunction _extractId(valueString: string): string {\n return
valueString.split(':')[0];\n}\n\n/** Mock interface for HTML Options */\ninterface HTMLOption {\n value:
string;\n selected: boolean;\n}\n\n/** Mock interface for HTMLCollection */\nabstract class HTMLCollection {\n
// TODO(issue/24571): remove '!'.\n length !: number;\n abstract item(_: number): HTMLOption;\n}\n\n/**\n *
@description\n * The `ControlValueAccessor` for writing multi-select control values and listening to multi-select
control\n * changes. The value accessor is used by the `FormControlDirective`, `FormControlName`, and
`NgModel`\n * directives.\n * \n * @see `SelectControlValueAccessor`\n *\n * @usageNotes\n * \n * ### Using a
multi-select control\n * \n * The follow example shows you how to use a multi-select control with a reactive form.\n
* \n * ```ts\n * const countryControl = new FormControl();\n * ```\n *\n * ```\n * <select multiple
name=\"countries\" [formControl]=\"countryControl\">\n * <option *ngFor=\"let country of countries\"
[ngValue]=\"country\">\n * {{ country.name }}\n * </option>\n * </select>\n * ```\n * \n * ### Customizing
option selection\n * \n * To customize the default option comparison algorithm, `<select>` supports `compareWith`
input.\n * See the `SelectControlValueAccessor` for usage.\n *\n * @ngModule ReactiveFormsModule\n *
@ngModule FormsModule\n * @publicApi\n */\n@Directive({\n selector:\n
'select[multiple][formControlName],select[multiple][formControl],select[multiple][ngModel]',\n host: {'(change)':
'onChange($event.target)', '(blur)': 'onTouched()'},\n providers:
[SELECT_MULTIPLE_VALUE_ACCESSOR]\n})\nexport class SelectMultipleControlValueAccessor implements
ControlValueAccessor {\n /**\n * @description\n * The current value\n */\n value: any;\n\n /** @internal */\n
_optionMap: Map<string, ÉµNgSelectMultipleOption> = new Map<string, ÉµNgSelectMultipleOption>();\n /**
@internal */\n _idCounter: number = 0;\n\n /**\n * @description\n * The registered callback function called
when a change event occurs on the input element.\n */\n onChange = (_: any) => {};\n\n /**\n * @description\n
* The registered callback function called when a blur event occurs on the input element.\n */\n onTouched = () =>
{};\n\n /**\n * @description\n * Tracks the option comparison algorithm for tracking identities when\n *
checking for changes.\n */\n @Input()\n set compareWith(fn: (o1: any, o2: any) => boolean) {\n if (typeof fn
!== 'function') {\n
throw new Error(`compareWith must be a function, but received ${JSON.stringify(fn)}`);\n
}\n this._compareWith = fn;\n }\n\n private _compareWith: (o1: any, o2: any) => boolean = looseIdentical;\n\n
constructor(private _renderer: Renderer2, private _elementRef: ElementRef) {}\n\n /**\n * @description\n * Sets
the \"value\" property on one or of more\n * of the select's options.\n *\n * @param value The value\n */\n
writeValue(value: any): void {\n this.value = value;\n let optionSelectedStateSetter: (opt:
ÉµNgSelectMultipleOption, o: any) => void;\n if (Array.isArray(value)) {\n
// convert values to ids\n
const
ids = value.map((v) => this._getOptionId(v));\n
optionSelectedStateSetter = (opt, o) => {
opt._setSelected(ids.indexOf(o.toString()) > -1); };\n } else {\n
optionSelectedStateSetter = (opt, o) => {
opt._setSelected(false); };\n }\n this._optionMap.forEach(optionSelectedStateSetter);\n }\n\n /**\n *
@description\n * Registers a function called when the control value changes\n * and writes an array of the
selected options.\n *\n * @param fn The callback function\n */\n registerOnChange(fn: (value: any) => any):
void {\n this.onChange = (_: any) => {\n
const selected: Array<any> = [];\n
if

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(_hasOwnProperty('selectedOptions')) {
  const options: HTMLCollection = _selectedOptions;
  for (let i = 0; i < options.length; i++) {
    const opt: any = options.item(i);
    const val: any = this._getOptionValue(opt.value);
    selected.push(val);
  }
}

this.value = selected;
fn(selected);
}

/**
 * @description
 * Registers a function called when the control is touched.
 *
 * @param fn The callback function
 * @param registerOnTouched(fn: () => any): void { this.onTouched = fn;
 */

`)
import { ReactiveErrors } from './reactive_errors';
import { SelectControlValueAccessor } from './select_control_value_accessor';
import { SelectMultipleControlValueAccessor } from './select_multiple_control_value_accessor';
import { AsyncValidator, AsyncValidatorFn, Validator, ValidatorFn } from './validators';

export function controlPath(name: string | null, parent: ControlContainer): string[] {
  return [...parent.path !, name !];
}

export function setUpControl(control: FormControl, dir: NgControl): void {
  if (!control) _throwError(dir, 'Cannot find control with');
  if (!dir.valueAccessor) _throwError(dir, 'No value accessor for form control with');

  control.validator = Validators.compose([control.validator !, dir.validator]);
  control.asyncValidator = Validators.composeAsync([control.asyncValidator !, dir.asyncValidator]);
}

function _noControlError(dir: NgControl) {
  return _throwError(dir, 'There is no FormControl instance attached to form control element with');
}

function _throwError(dir: AbstractControlDirective, message: string): void {
  let messageEnd: string;
  if (dir.path !.length > 1) {
    messageEnd = `path: '${dir.path!.join(' -> ')}'`;
  } else if (dir.path ![0]) {
    messageEnd = `name: '${dir.path}'`;
  } else {
    messageEnd = 'unspecified name attribute';
  }
  throw new Error(`${message} ${messageEnd}`);
}

export function composeValidators(validators: Array<Validator|ValidatorFn>): ValidatorFn|null {
  return validators != null ? Validators.compose(validators.map(normalizeValidator)) : null;
}

export function composeAsyncValidators(validators: Array<AsyncValidator|AsyncValidatorFn>): AsyncValidatorFn|null {
  return validators != null ? Validators.composeAsync(validators.map(normalizeAsyncValidator)) : null;
}

export function setUpFormContainer(
    control: FormGroup | FormArray, dir: AbstractFormGroupDirective | FormArrayName) {
  if (control == null) _throwError(dir, 'Cannot find control with');
  control.validator = Validators.compose([control.validator, dir.validator]);
  control.asyncValidator = Validators.composeAsync([control.asyncValidator, dir.asyncValidator]);
}

function setUpControl(control: FormControl, dir: NgControl): void {
  if (control._pendingDirty) control.markAsDirty();
  control.setValue(control._pendingValue, {emitModelToViewChange: false});
  dir.valueAccessor !.writeValue(control.value);
}

function setUpBlurPipeline(control: FormControl, dir: NgControl): void {
  if (control.updateOn == 'blur' && control._pendingChange) updateControl(control, dir);
  if (control.updateOn == 'submit') control.markAsTouched();
}

function updateControl(control: FormControl, dir: NgControl): void {
  if (control._pendingDirty) control.markAsTouched();
  control.setValue(control._pendingValue,
    {emitModelToViewChange: false});
}

function setUpModelChangePipeline(control: FormControl, dir: NgControl): void {
  control.registerOnChange((newValue: any) => {
    dir.valueAccessor !.writeValue(newValue);
    dir.viewToModelUpdate(newValue);
  });
}

function setUpViewChangePipeline(control: FormControl, dir: NgControl): void {
  dir.valueAccessor !.registerOnChange((newValue: any) => {
    control._pendingValue = newValue;
    control._pendingChange = true;
    control._pendingDirty = true;
    if (control.updateOn === 'change') updateControl(control, dir);
  });
}

function setUpBlurPipeline(control: FormControl, dir: NgControl): void {
  dir.valueAccessor !.registerOnTouched(() => {
    control._pendingTouched = true;
    if (control.updateOn == 'blur' && control._pendingChange) updateControl(control, dir);
    if (control.updateOn == 'submit') control.markAsTouched();
  });
}

function updateControl(control: FormControl, dir: NgControl): void {
  if (control._pendingDirty) control.markAsDirty();
  control.setValue(control._pendingValue,
    {emitModelToViewChange: false});
  dir.valueAccessor !.writeValue(control.value);
  dir.viewToModelUpdate(control._pendingValue);
}

function setUpModelChangePipeline(control: FormControl, dir: NgControl): void {
  control.registerOnChange((newValue: any, emitModelEvent: boolean) => {
    dir.valueAccessor !.writeValue(newValue);
    dir.viewToModelUpdate(newValue);
  });
}
null\n
export function isPropertyUpdated(changes: {[key: string]: any}, viewModel: any): boolean {
  const change = changes[model];
  if (change.isFirstChange()) return true;
  return !looseIdentical(viewModel, change.currentValue);
}

const BUILTIN_ACCESSORS = [CheckboxControlValueAccessor, RangeValueAccessor, NumberValueAccessor, SelectControlValueAccessor, SelectMultipleControlValueAccessor, RadioControlValueAccessor, Unexport function isBuiltInAccessor(valueAccessor: ControlValueAccessor): boolean {
  if (!valueAccessor.constructor ===DefaultValueAccess, viewModel: any): boolean {
  return BUILTIN_ACCESSORS.some(a => valueAccessor.constructor === a);
}

const BUILTIN_ACCESSORS = [CheckboxControlValueAccessor, RangeValueAccessor, NumberValueAccessor, SelectControlValueAccessor, SelectMultipleControlValueAccessor, RadioControlValueAccessor, Unexport function syncPendingControls(form: FormGroup, directives: NgControl[]): void {
  form._syncPendingControls();
  directives.forEach(dir => {
    const control = dir.control as FormControl;
    if (control.updateOn === 'submit' && control._pendingChange)
      dir.viewToModelUpdate(control._pendingValue);
    control._pendingChange = false;
  });
}

// TODO: vsavkin remove it once
https://github.com/angular/angular/issues/3011 is implemented

export function selectValueAccessor(dir: NgControl, valueAccessors: ControlValueAccessor[]): ControlValueAccessor|null {
  if (!valueAccessors) return null;
  let defaultAccessor = undefined;
  let builtinAccessor = undefined;
  let customAccessor = undefined;
  valueAccessors.forEach((v: ControlValueAccessor) => {
    if (v.constructor === DefaultValueAccessor) {
      defaultAccessor = v;
    } else if (isBuiltInAccessor(v)) {
      if (builtinAccessor)
        _throwError(dir, 'More than one built-in value accessor matches form control with');
      builtinAccessor = v;
    } else {
      if (customAccessor)
        _throwError(dir, 'More than one custom value accessor matches form control with');
      customAccessor = v;
    }
  });
  if (customAccessor) return customAccessor;
  if (builtinAccessor) return builtinAccessor;
  if (defaultAccessor) return defaultAccessor;

  _throwError(dir, 'No valid value accessor for form control with');
  return null;
}

export function removeDir<T>(list: T[], el: T): void {
  const index = list.indexOf(el);
  if (index > -1) list.splice(index, 1);
}

// TODO(kara): remove after deprecation period
export function _ngModelWarning(name: string, type: {_ngModelWarningSentOnce: boolean}, instance: {_ngModelWarningSent: boolean}, warningConfig: string | null) {
  if (!isDevMode() || warningConfig === 'never') return;

  if (((warningConfig === null || warningConfig === 'once') && !type._ngModelWarningSentOnce) ||
      (warningConfig === 'always' && !instance._ngModelWarningSent)) {
    ReactiveErrors.ngModelWarning(name);
    type._ngModelWarningSentOnce = true;
    instance._ngModelWarningSent = true;
  }
}

function _find(control: AbstractControl, path: Array<string|number>| string, delimiter: string) {
  if (path == null) return null;
  if (!Array.isArray(path)) {
    path = path.split(delimiter);
  }
  if (Array.isArray(path) && path.length === 0)
    return null;

  const controlToFind = control;
  path.forEach((name: string | number) => {
    if (controlToFind instanceof FormGroup) {
      controlToFind = controlToFind.controls.hasOwnProperty(name as string) ?
          controlToFind.controls[name] : null;
    } else if (controlToFind instanceof AbstractControl) {
      controlToFind = controlToFind.viewToModelUpdate(controlToFind.value);
      controlToFind = controlToFind.value;
    } else if (controlToFind instanceof ControlValueAccessor) {
      controlToFind = controlToFind.viewToModelUpdate(controlToFind.value);
    } else {
      return null;
    }
  });
  return controlToFind;
}
export type FormHooks = 'change' | 'blur' | 'submit';

/**
 * Interface for options provided to an `AbstractControl`.
 *
 * @publicApi
 */
export interface AbstractControlOptions {
  /**
   * @description
   * The list of validators applied to a control.
   */
  validators?: ValidatorFn | ValidatorFn[] | null;
  /**
   * @description
   * The list of async validators applied to control.
   */
  asyncValidators?: AsyncValidatorFn | AsyncValidatorFn[] | null;
  /**
   * @description
   * The event name for control to update upon.
   */
  updateOn?: 'change' | 'blur' | 'submit';
}

/**
 * This is the base class for `FormControl`, `FormGroup`, and `FormArray`.
 *
 * It provides some of the shared behavior that all controls and groups of controls
 * have, like running validators, calculating status, and resetting state. It also defines
 * the properties that are shared between all sub-classes, like `value`, `valid`, and `dirty`.
 * It shouldn't be instantiated directly.
 *
 * @see 
 * @see 
 * @see 
 *
 * @publicApi
 */
export abstract class AbstractControl {
  /** @internal */
  // TODO(issue/24571): remove '!'.
  _pendingDirty!: boolean;

  /** @internal */
  // TODO(issue/24571): remove '!'.
  _pendingTouched!: boolean;

  /** @internal */
  _onCollectionChange = () => {};

  /** @internal */
  // TODO(issue/24571): remove '!'.
  _updateOn!: FormHooks;

  // TODO(issue/24571): remove '!'.
  private _parent!: FormGroup | FormArray;
  private _asyncValidationSubscription: any;

  /**
   * The current value of the control.
   *
   * * For a `FormControl`, the current value.
   * * For an enabled `FormGroup`, the values of enabled controls as an object
   *   with a key-value pair for each member of the group.
   * * For a disabled `FormGroup`, the values of all controls as an object
   *   with a key-value pair for each member of the group.
   * * For a `FormArray`, the values of enabled controls as an array.
   *
   */
  public readonly value: any;

  /**
   * Initialize the AbstractControl instance.
   *
   * @param validator The function that determines the synchronous validity of this control.
   * @param asyncValidator The function that determines the asynchronous validity of this control.
   */
  constructor(public validator: ValidatorFn | null, public asyncValidator: AsyncValidatorFn | null) {
    this._parent = null;
    this._pendingDirty = false;
    this._pendingTouched = false;
    this._updateOn = 'change';
    this.value = null;
  }

  /**
   * The parent control.
   */
  get parent(): FormGroup | FormArray {
    return this._parent;
  }

  /**
   * The validation status of the control.
   * There are four possible values: `valid`, `invalid`, `pendingDirty`, and `pendingTouched`.
   * `valid` indicates that the control has passed all validation checks.
   * `invalid` indicates that the control has failed at least one validation check.
   * `pendingDirty` indicates that a mutation has occurred on the control.
   * `pendingTouched` indicates that the control has been accessed.
   *
   * This control has failed at least one validation check.
   * This control is in the midst of conducting a validation check.
   * This control is not valid and has not been touched.
   * This control is valid and has not been touched.
   * This control is invalid and has been touched.
   */
  public readonly status: string = 'valid';

  /**
   * A control is `valid` when its `status` is `VALID`.
   * A control is `invalid` when its `status` is `INVALID`.
   * A control is `pendingDirty` when its `status` is `PENDING`.
   * A control is `pendingTouched` when its `status` is `PENDING`.
   * A control is `disabled` when its `status` is `DISABLED`.
   */
  public readonly valid: boolean = true;

  /**
   * The parent control.
   */
  get parent(): FormGroup | FormArray {
    return this._parent;
  }

  /**
   * The validation status of the control.
   * There are four possible values: `valid`, `invalid`, `pendingDirty`, and `pendingTouched`.
   * `valid` indicates that the control has passed all validation checks.
   * `invalid` indicates that the control has failed at least one validation check.
   * `pendingDirty` indicates that a mutation has occurred on the control.
   * `pendingTouched` indicates that the control has been accessed.
   *
   * This control has failed at least one validation check.
   * This control is in the midst of conducting a validation check.
   * This control is not valid and has not been touched.
   * This control is valid and has not been touched.
   * This control is invalid and has been touched.
   */
  public readonly status: string = 'valid';

  /**
   * A control is `valid` when its `status` is `VALID`.
   * A control is `invalid` when its `status` is `INVALID`.
   * A control is `pendingDirty` when its `status` is `PENDING`.
   * A control is `pendingTouched` when its `status` is `PENDING`.
   * A control is `disabled` when its `status` is `DISABLED`.
   */
  public readonly valid: boolean = true;
```typescript
this.status === INVALID; })
* @returns True if the control is `disabled` when its `status` is `DISABLED`. *
* @returns True if the control has any status other than `DISABLED`. *
* false otherwise. *
* A control is `disabled` when its `status` is `DISABLED`. *
* Disabled controls are exempt from validation checks and are not included in the aggregate value of their ancestor controls. *
* A control is `pending` when its `status` is `PENDING`. *
* `DISABLED`. *
* false.*
* A control is `enabled` as long as its `status` is not `DISABLED`. *
* returns True if the control is disabled, false otherwise. *
* A control is marked `touched` once the user has triggered a `blur` event on it. *
* A control is marked `touched` once the user has triggered a `blur` event on it. *
* A control is `dirty` if the user has not yet changed the value in the UI; compare `dirty`.
```
```
  /**
   * Marks the control as `untouched`.
   *
   * If the control has any children, also marks all children as `untouched` and recalculates the `touched` status of all parent controls.
   * @see `markAsTouched()`
   * @see `markAsDirty()`
   * @see `markAsPristine()`
   *
   * @param opts Configuration options that determine how the control propagates changes and emits events after marking is applied.
   * * `onlySelf`: When true, mark only this control. When false or not supplied, marks all direct ancestors. Default is false.
   */
  markAsUntouched(opts: {onlySelf?: boolean} = {}): void {
    (this as {touched: boolean}).touched = false;
    this._pendingTouched = false;
    this._forEachChild((control: AbstractControl) => control.markAsUntouched({onlySelf: true}));
    if (this._parent && !opts.onlySelf) {
      this._parent.markAsUntouched({onlySelf: true}, opts);
    }
    this._updateTouched(opts);
    this._pendingTouched = false;
  }

  /**
   * Marks the control as `dirty`. A control becomes dirty when its value is changed through the UI; compare `markAsTouched`.
   *
   * @see `markAsTouched()`
   * @see `markAsUntouched()`
   * @see `markAsPristine()`
   *
   * @param opts Configuration options that determine how the control emits events after marking is applied.
   * * `onlySelf`: When true, mark only this control. When false or not supplied, marks all direct ancestors. Default is false.
   */
  markAsDirty(opts: {onlySelf?: boolean} = {}): void {
    (this as {pristine: boolean}).pristine = false;
    this._pendingDirty = false;
    this._forEachChild((control: AbstractControl) => control.markAsDirty({onlySelf: true}));
    if (this._parent && !opts.onlySelf) {
      this._parent.markAsDirty({onlySelf: true}, opts);
    }
    this._updateDirty();
    this._pendingDirty = false;
  }

  /**
   * Marks the control as `pristine`.
   *
   * If the control has any children, marks all children as `pristine`, and recalculates the `pristine` status of all parent controls.
   *
   * @see `markAsTouched()`
   * @see `markAsUntouched()`
   * @see `markAsDirty()`
   *
   * @param opts Configuration options that determine how the control emits events after marking is applied.
   * * `onlySelf`: When true, mark only this control. When false or not supplied, marks all direct ancestors. Default is false.
   */
  markAsPristine(opts: {onlySelf?: boolean} = {}): void {
    (this as {pristine: boolean}).pristine = true;
    this._pendingPristine = false;
    this._forEachChild((control: AbstractControl) => control.markAsPristine({onlySelf: true}));
    if (this._parent && !opts.onlySelf) {
      this._parent.markAsPristine({onlySelf: true}, opts);
    }
    this._updatePristine();
    this._pendingPristine = false;
  }
```
this._updateAncestors({...opts, skipPristineCheck});
this._onDisabledChange.forEach((changeFn) =>
  changeFn(true));

/**
 * Enables the control. This means the control is included in validation checks and*
 * the aggregate value of its parent. Its status recalculates based on its value and*
 * its validators.*
 * By default, if the control has children, all children are enabled.*
 * @see {link AbstractControl.status}*
 * @param opts Configure options that control how the control propagates changes and*
 * emits events when marked as untouched* *onlySelf*: When true, mark only this control. When false or not supplied,* *marks* all direct ancestors. Default is false.* *emitEvent*: When true or not supplied (the default), both the*
 *statusChanges* and *valueChanges* observables emit events with the latest status and value when the*
 *control is enabled* When false, no events are emitted.*
 *enable(opts: {onlySelf?: boolean, emitEvent?: boolean} = {}): void {* *sets the parent of the control*: *setsParent(parent: FormGroup|FormArray): void { * *sets the value of the control. Abstract method (implemented in sub-classes).* *abstract* setValue(value: any, options?: Object): void;
 * *abstract* patchValue(value: any, options?: Object): void;
 * *abstract* reset(value?: any, options?: Object): void;
 * *abstract* updateValueAndValidity(opts: {onlySelf?: boolean, emitEvent?: boolean} = {}): void {* *
 *sets errors on a form control when running validations manually, rather than automatically.* *Calling `setErrors` also updates the validity of the parent control.* *Manually set the errors for a control*
FormControl('someLogin');
   * login.setErrors({
   *   notUnique: true
   * });
   *
   * expect(login.valid).toEqual(false);
   * expect(login.errors).toEqual({
   *   notUnique: true
   * });
   *
   *
   * expect(login.valid).toEqual(true);
   * expect(login.errors).toEqual({
   *   notUnique: true
   * });
   *
   *
   * login.setValue('someOtherLogin');
   *
   * expect(login.valid).toEqual(true);
   * ```
   */
  setErrors(errors:
ValidationErrors|null, opts: {emitEvent?: boolean} = {}): void {
    (this as{errors: ValidationErrors | null}).errors = errors;
    this._updateControlsErrors(opts.emitEvent !== false);
  } /*
  * Retrieves a nested control
  * For example, to get a `name` control nested within a `person` sub-group:
  * `this.form.get('person.name');`
  * `-OR`
  * `this.form.get(['person', 'name']);`
  *
  * `get(path: Array<string|number>|string): AbstractControl
  * |resolved data for the control with the given path.
  * `setErrors` The code of the error to check
  * `param path A list of control names that designates how to move from the current control
  * to the control that should be queried for errors.
  * `param path A list of control names that designates how to move from the current control
  * to the control that should be queried for errors.
  * `FormGroup({
  *   address: new FormGroup({
  *     street: new FormControl() })
  *   }));
  * `The path to the 'street' control from the root form would be 'address' -> 'street'.
  * It can be provided to this method in one of two formats:
  * `Array<string|number>|string>: any
  * `get(path: string|number): AbstractControl
  * `any ['address', 'street'][* 1]. A period-delimited list of control names in one string, e.g. `address.street`
  * `params @description*
  * `Returns error data for that particular error. If the control or error is not present,
  * `return control &
  * ```
  * `FormGroup( {`false): void {
  *   return (this as{[statuses: string | number]}).status = this._calculateStatus();
  *   if (emitEvent) {
  *     (this.valueChanges as EventEmitter<any>).emit(this.value);
  *   }
  *   if (this._parent && !opts.onlySelf) {
  *     this._parent._updatePristine(opts);...
this._parent._updatePristine(opts);\n\n/** @internal */\n_updateTouched(opts: {onlySelf?: boolean} = {}): void {\n  (this as {touched: boolean}).touched = this._anyControlsTouched();\n  if (this._parent & &\n    !opts.onlySelf) {\n    this._parent._updateTouched(opts);\n  }\n}\n/** @internal */\n_onDisabledChange: Function[] = [];\n/** @internal */\n_is_Boxed_Value(formState: any): boolean {\n  return typeof formState === 'object' & & formState !== null & &\n    Object.keys(formState).length === 2 & & 'value' in formState & &\n    'disabled' in formState;\n}\n/** @internal */\n_registerOnCollectionChange(fn: () => void): void {\n  if (this.onCollectionChange === fn) \n    this._onCollectionChange = fn;\n}\n/** @internal */\n_setUpdateStrategy(opts?: ValidatorFn|ValidatorFn[]|AbstractControlOptions|null): void {\n  if (isOptionsObj(opts) & & (opts as\n    AbstractControlOptions).updateOn != null) {\n    this._updateOn = (opts as AbstractControlOptions).updateOn;\n  }\n}\n/**
 * Check to see if parent has been marked artificially dirty.\n * @see \`AbstractControl\`\n * @param {boolean} onlySelf\n * @param {any} formState\n * @param {ValidatorFn|ValidatorFn[]} asyncValidators\n * @memberof FormControl\n */\n_privateMarkParentDirty = (onlySelf?: boolean): boolean {\n  const parentDirty = this._parent && this._parent.dirty;\n  return !onlySelf & & parentDirty & &\n    !this._parent._anyControlsDirty();\n}\n/**
 * Tracks the value and validation status of an individual form control.\n */\nthis._onCollectionChange = fn;\n/** @internal */\n_setUpdateStrategy(opts?: ValidatorFn|ValidatorFn[]|AbstractControlOptions|null): void {\n  if (isOptionsObj(opts) & & (opts as\n    AbstractControlOptions).updateOn != null) {\n    this._updateOn = (opts as AbstractControlOptions).updateOn;\n  }\n}\n/**
 * Creates a new `FormControl` instance.\n *
 * @param formState Initializes the control with an initial value,
 * or an object
 * that defines the initial value and disabled state of the control.\n *
 * @param validatorOrOpts A synchronous validator function, or an array of
 * synchronous validators.\n * @param {ValidatorFn} asyncValidator\n */\nconstructor(formState: any = null, validatorOrOpts?:\n\nValidatorFn|ValidatorFn[]|AbstractControlOptions|null,\nasyncValidator?:\n\nAsyncValidatorFn|AsyncValidatorFn[]|null) {\n  super(formState, coerceToValidator(validatorOrOpts),\n  coerceToAsyncValidator(asyncValidator, validatorOrOpts));\n  this._applyFormState(formState);\n  this._setUpdateStrategy(validatorOrOpts);\n}
this._initObservables();

**Sets a new value for the form control.**

*param value* The new value for the control.

*param options* Configuration options that determine how the control propagates changes.

*emits events when the value changes.*

*The configuration options are passed to the [@link AbstractControl#updateValueAndValidity updateValueAndValidity](#updateValueAndValidity) method.*

* `onlySelf`: When true, each change only affects this control, and not its parent. Default is *false.*

* `emitEvent`: When true or not supplied (the default), both the `statusChanges` and `valueChanges` observables emit events with the latest status and value when the value control is updated. *When false, no events are emitted.*

* `emitModelToViewChange`: When true or not supplied (the default), each change triggers an `onChange` event to update the view.

* `emitViewToModelChange`: When true or not supplied (the default), the control provides an `onChange` event to update the model.

**Sets a new value for the form control.**

*param value* The new value for the control.

*param options* Configuration options that determine how the control propagates changes and emits events with the latest status and value when the value control is updated.

* `onlySelf`: When true, each change only affects this control, and not its parent. Default is *false.*

* `emitEvent`: When true or not supplied (the default), both the `statusChanges` and `valueChanges` observables emit events with the latest status and value when the value control is reset. *When false, no events are emitted.*

* `reset(formState: any = null, options: {onlySelf?: boolean, emitEvent?: boolean} = {}): void*}

  *Resets the form control, marking it ‘pristine’ and ‘untouched’, and setting the value to null.*

  *param formState* Resets the control with an initial value, or an object that defines the initial value and disabled state.

  *param options* Configuration options that determine how the control propagates changes and emits events after the value changes.

  * `onlySelf`: When true, each change only affects this control, and not its parent. Default is *false.*

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  *param options* Configuration options that determine how the control propagates changes and emits events after the value changes.

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used to define forms in Angular,* along with 'FormControl' and 'FormArray'.

When instantiating a 'FormGroup', pass in a collection of child controls as the first
argument. The key for each child registers the name for the control.

### Create a form group with 2 controls

```ts
const form = new FormGroup({
  first: new FormControl('Nancy', Validators.minLength(2)),
  last: new FormControl('Drew'),
});
```

### Create a form group with a group-level validator

You include group-level validators as the second arg, or group-level async validators as the third arg. These come in handy when you want to perform validation that considers the value of more than one child control.

```ts
const form = new FormGroup({
  password: new FormControl('', Validators.minLength(2)),
  passwordConfirm: new FormControl('', Validators.minLength(2)),
}, passwordMatchValidator);
```

```ts
function passwordMatchValidator(g: FormGroup) {
  return g.get('password').value === g.get('passwordConfirm').value
    ? null : {'mismatch': true};
}
```

Like 'FormControl' instances, you choose to pass in validators and async validators as part of an options object.

### Set the updateOn property for all controls in a form group

The options object is used to set a default value for each child control's `updateOn` property. If you set `updateOn` to 'blur' at the group level, all child controls default to 'blur', unless the child has explicitly specified a different 'updateOn' value.

```ts
const c = new FormGroup({
  one: new FormControl()
}, { updateOn: 'blur' });
```
Sets the value of the `FormGroup`. It accepts an object that matches the structure of the group, with control names as keys.

```typescript
contains(controlName: string): boolean {
  return this.controls.hasOwnProperty(controlName) && this.controls[controlName].enabled;
}
```


```typescript
setValue(value: {[key: string]: any}, options: {onlySelf?: boolean, emitEvent?: boolean} = {}): void {
  Object.keys(value).forEach(name => {
    if (this.controls[name]) {
      this.controls[name].patchValue(value[name], {onlySelf: true, emitEvent: options.emitEvent});
    }
  });
  this.updateValueAndValidity(options);
}
```

### Reset the form group values
```typescript
const form = new FormGroup({
  first: new FormControl('first name'),
  last: new FormControl('last name')
});
```
console.log(form.value); // [first: 'name', last: 'last name']

### Set of an options object.

```

*const arr = new FormArray([new FormControl('Nancy'), new FormControl('Drew')]);
```

Array-level validators

You include array-level validators and async validators. These come in handy when you want to perform validation that considers the value of more than one child control.

```

* ```
```

### Create a form array.

```

* ```
```

Create a form array.

```

* ```
```
the `updateOn` property for all controls in a form array

```ts
new FormArray([...new FormControl(...), ...]);
```

The `options` object is used to set a default value for each control's `updateOn` property. If you set `updateOn` to `"blur"` at the form level, all child controls default to `"blur"`, unless the child has explicitly specified a different `updateOn` value.

```ts
new FormArray([...new FormControl(...), ...], {updateOn: 'blur'});
```

### Adding or removing controls from a form array

To change the controls in the array, use the `push`, `insert`, `removeAt` or `clear` methods in `FormArray`. These methods ensure the controls are properly tracked in the form's hierarchy. Do not modify the array of `AbstractControl`'s used to instantiate the `FormArray` directly, as that result in strange and unexpected behavior such as broken change detection.

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```ts
new FormArray([...new FormControl(...), ...], {updateOn: 'blur'});
```
=> {this._throwIfControlMissing(index); this.value.(index).setValue(newValue, {onlySelf: true, emitEvent: options.emitEvent}); } );
    this.updateValueAndValidity(options); }
  /**
   * Patches the value of the `FormArray`. It accepts an array that
   * matches the structure of the control, and does its best to match the values to
   * the correct controls in the group.
   * It accepts both super-sets and sub-sets of the array without
   * throwing an error.
   * @param value Array of latest values for the controls
   * @param options Configure options that determine how the control propagates changes and emits events after the value changes
   * `onlySelf`: When true, each change only affects this control, and not its parent. Default is false.
   * `emitEvent`: When true or not supplied (the default), both the `statusChanges` and `valueChanges` observables emit events with the latest status and value when the control value is updated.
   * When false, no events are emitted.
   * The configuration options are passed to the `AbstractControl#updateValueAndValidity` method.
   */
  patchValue(value: any[], options: {onlySelf?: boolean, emitEvent?: boolean} = {}): void {
    value.forEach((newValue: any, index: number) => {
      if (this.at(index)) {
        this.at(index).patchValue(newValue, {onlySelf: true, emitEvent: options.emitEvent});
      }
    });
    this.updateValueAndValidity(options);
  }

  /**
   * Resets the `FormArray` and all descendants are marked `pristine` and `untouched`, and the value of all descendants to null or null maps.
   * You reset to a specific form state by passing in an array of states that matches the structure of the control. The state is a standalone value or a form state object with both a value and a disabled status.
   * @param value Array of values for the controls
   * @param options Configure options that determine how the control propagates changes and emits events after the value changes
   * `onlySelf`: When true, each change only affects this control, and not its parent. Default is false.
   * `emitEvent`: When true or not supplied (the default), both the `statusChanges` and `valueChanges` observables emit events with the latest status and value when the control is reset.
   * When false, no events are emitted.
   * The configuration options are passed to the `AbstractControl#updateValueAndValidity` method.
   */
  reset(value: any = [], options: {onlySelf?: boolean, emitEvent?: boolean} = {}): void {
    this._forEachChild((control: AbstractControl, index: number) => {
      control.reset(value[index], {onlySelf: true, emitEvent: options.emitEvent});
    });
    this._updatePristine(options);
    this._updateTouched(options);
    this.updateValueAndValidity(options);
  }

  /**
   * The aggregate value of the array, including any disabled controls.
   * Reports all values regardless of disabled status.
   * For enabled controls only, the `value` property is the best way to get the value of the array.
   * @returns any[]
   */
  getRawValue(): any[] {
    return this.controls.map((control: AbstractControl) => {
      return this.controls.map(control: AbstractControl => { return control.instanceof FormControl ? control.value : (<any>control).getRawValue(); });
    });
  }

  /**
   * Remove all controls in the `FormArray`.
   * @usageNotes
   * ### Remove all elements from a FormArray
   *
   * ```
   * const arr = new FormArray([new FormControl(), new FormControl()]);
   * arr.removeAt(0);
   * ```
   * It's a simpler and more efficient alternative to removing all elements one by one:
   */
  remove(index: number): void {
    this.controls.splice(index, 1);
    this.updateValueAndValidity();
  }

  /** @internal */
  _syncPendingControls(): boolean {
    let subtreeUpdated = this.controls.reduce((updated: boolean, child: AbstractControl) => {
      return updated && child._onCollectionChange();
    }, false);
    this.controls.forEach(control => control._onCollectionChange());
    return subtreeUpdated;
  }

  /**
   * Open Source Used In MSX vBranch Service Pack 3.9.0 2807
   */
child._syncPendingControls() ? true : updated;
    if (subtreeUpdated) return subtreeUpdated;
  }

  /** @internal */
  _throwIfControlMissing(index: number): void {
    if (!this.controls.length) {
      throw new Error(`There are no form controls registered with this array yet. If you're using ngModel, you may want to check next tick (e.g. use setTimeout).`);
    }
    if (!this.at(index)) {
      throw new Error(`Cannot find form control at index ${index}.`);
    }
  }

  /** @internal */
  _forEachChild(cb: Function): void {
    this.controls.forEach((control: AbstractControl, index: number) => { cb(control, index); });
  }

  /** @internal */
  _updateValue(): void {
    (this as{value: any}).value =
        this.controls.filter((control) => control.enabled || this.disabled)
            .map((control) => control.value);
  }

  /** @internal */
  _anyControls(condition: Function): boolean {
    return this.controls.some((control: AbstractControl) => condition(control));
  }

  /** @internal */
  _setUpControls(): void {
    this._forEachChild((control: AbstractControl) => this._registerControl(control));
  }

  /** @internal */
  _checkAllValuesPresent(value: any): void {
    this._forEachChild((control: AbstractControl, i: number) => {
      if (value[i] === undefined) {
        throw new Error(`Must supply a value for form control at index: ${i}.`);
      }
    });
  }

  /** @internal */
  _allControlsDisabled(): boolean {
    for (const control of this.controls) {
      if (control.enabled) return false;
    }
    return this.controls.length > 0 || this.disabled;
  }

  private _registerControl(control: AbstractControl) {
    control.setParent(this);
    control._registerOnCollectionChange(this._onCollectionChange);
  }
}
'ReactiveFormsModule' are imported into the application. If you want to explicitly enable native DOM validation UI with Angular forms, you can add the `@ngNativeValidate` attribute to the `<form>` element:
```html
<form ngNativeValidate>
  ...
</form>
```

@Directive({
  selector: 'form:not([ngNoForm]):not([formGroup]),ng-form,[ngForm]',
})

providers: [formDirectiveProvider],
host: {'(submit)':'onSubmit(Seven)', '(reset)':'onReset()'},
outputs:
[ngSubmit],
exportAs:'ngForm'}

export class NgForm extends ControlContainer implements Form,

AfterViewInit {
  /**
   * @description
   * Returns whether the form submission has been triggered.
   */
  public readonly submitted: boolean = false;

  /**
   * The 'FormGroup' instance created for this form.
   */
  form: FormGroup;

  /**
   * The internal 'FormGroup' instance.
   */
  get control(): FormGroup { return this.form; }

  /**
   * Method that sets up the control directive in this group, re-calculates its value
   * and validity, and adds the instance to the internal list of directives.
   * @param dir The 'NgModel' directive instance.
   */
  updateModel(dir: NgControl, value:

```html
<FormGroup container={this._findContainer(dir.path)} dir as={control: FormControl}.control={
  setUpControl(dir.control, dir);
  dir.control.updateValueAndValidity({emitEvent: false});
  this._directives.push(dir);
}
```
any): void {
  resolvedPromise.then(() => {
    const ctrl = <FormControl>this.form.get(dir.path !);
    ctrl.setValue(value);
  });

  /**
   * @description
   * Method called when the `Submit` event is triggered on the form.
   * Triggers the 'ngSubmit' emitter to emit the 'Submit' event as its payload.
   * @param {boolean} submitted The new value
   * @description
   * A boolean indicating whether the form is submitted.
   * @param {boolean} submitted The new value
   * Method called when the 'Reset' event is triggered on the form.
   * @param {boolean} submitted The new value
   * Method called when the 'Reset' event is triggered on the form.
   * @param {boolean} submitted The new value
   */
  setValue(value: { [key: string]: any }): void {
    this.control.setValue(value);
  }

  /**
   * @description
   * Method called when the 'reset' event is triggered on the form.
   * @param {Event} $event The 'reset' event object
   * @description
   * An object representing the 'reset' event.
   */
  onReset(): void {
    this.resetForm();
  }

  /**
   * @description
   * Method called when the 'submit' event is triggered on the form.
   * @param {Event} $event The 'submit' event object
   * @description
   * An object representing the 'submit' event.
   */
  onSubmit($event: Event): boolean {
    this.formDirective.addFormGroup(this);
    this.formDirective.getFormGroup(this).
  }

  private _checkParentType(): void {
    if (this.name) {
      throw new Error(`
      ngModel cannot be used to register form controls with a parent formGroupName or formArrayName
      Example:

      ${Examples.ngModelWithFormGroup}`);
    }
  }
}
Option 1: Use formControlName instead of ngModel (reactive strategy):

Example 1: <input [(ngModel)]="person.firstName" name="first"/>
Example 2: <input [(ngModel)]="person.firstName" name="first" ngModelOptions="{standalone: true}"/>

Option 2: Use formGroupName instead of ngModelGroup (template-driven strategy):

Example 1: <input 
[(ngModel)]="person.firstName" name="first">
Example 2: <input 
[(ngModel)]="person.firstName" [ngModelOptions]="{standalone: true}"/>

If ngModel is used within a form tag, either the name attribute must be set or the form control must be defined as 'standalone' in ngModelOptions.

Example 1: <input [(ngModel)]="person.firstName" name="first">
Example 2: <input [(ngModel)]="person.firstName" ngModelOptions="{standalone: true}"/>

If ngModelGroup cannot be used with a parent formGroup directive, Option 1: Use formGroupName instead of ngModelGroup (reactive strategy):

Example 1: <input [(ngModel)]="person.firstName" name="first">
Example 2: <input [(ngModel)]="person.firstName" [ngModelOptions]="{standalone: true}"/>

Example 2: Use a regular form tag instead of the formGroup directive (template-driven strategy):

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Example 1: <input [(ngModel)]="person.firstName" name="first">
Example 2: <input [(ngModel)]="person.firstName" [ngModelOptions]="{standalone: true}"/>

If ngModel is used within a form tag, either the name attribute must be set or the form control must be defined as 'standalone' in ngModelOptions.
`ngModel` forces an additional change detection run when its inputs change:\n* E.g.:\n* `<div>
  * <input [(ngModel)]="myValue" #myModel="ngModel">
  * \n  * The `ngModel` instance tracks the value, user interaction, and validation status of the control and keeps the view synced with the model. If used within a parent form, the directive also registers itself with the form as a child. This directive is used by itself or as part of a larger form. Use the `ngModel` selector to activate it. It accepts a domain model as an optional `Input`. If you have a one-way binding to `ngModel` with `[[]]` syntax, changing the value of the domain model in the component's class sets the value in the view. If you have a two-way binding with `[(]]` syntax, the value in the UI always syncs back to the domain model in your class. To inspect the properties of the associated `FormControl` (like validity state), you export the directive into a local template variable using `ngModel` as the key (ex: `{{myVar=\'ngModel\'\'}}`). Then you access the control using the directive's `control` property, but most properties used (like `valid` and `dirty`) fall through to the control anyway for direct access. See a full list of properties directly available in `AbstractControlDirective`.

Using ngModel on a standalone control:

```html
<ngModel>[
  * `\` syntax, changing the value of the domain model in the component's class sets the value in the view. If you have a two-way binding with `[([])]` syntax, the value in the UI always syncs back to the domain model in your class.

Notes:
* this is just one extra run no matter how many `ngModel` have been changed.
* normally, this would result in expressions before the `input` that use the exported directive to have and old value as they have been dirty checked before. As this is a very common case for `ngModel`, we added this second change detection run.

`ngModel` can export itself on the element and then be used in the template. Normally, this is a general problem when using `exportAs` for directives:

```
Promise.resolve(null).\n@description * @description
```

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```html
<\[\]
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* normally, this would result in expressions before the `input` that use the exported directive to have and old value as they have been dirty checked before. As this is a very common case for `ngModel`, we added this second change detection run.

`ngModel` can export itself on the element and then be used in the template. Normally, this is a general problem when using `exportAs` for directives:

```
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This is a very common case for `ngModel`, we added this second change detection run. If you have a one-way binding to `ngModel` with `[[]]` syntax, changing the value of the domain model in the component's class sets the value in the view. If you have a two-way binding with `[([])]` syntax, the value in the UI always syncs back to the domain model in your class.

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`ngModel` can export itself on the element and then be used in the template. Normally, this is a general problem when using `exportAs` for directives: *

```html
<\[\]
```
* Internal reference to the view model value.
  
  `**viewModel: any;`  

  `*/ *`  

  `@description
  * Tracks the name bound to the directive. The parent form
  * uses this name as a key to retrieve this control’s value.
  `*/`  

  `// TODO(issue/24571): remove !. @Input(name !: string;`  

  `/** *`  

  `@description
  * Tracks whether the control is disabled.
  `*/`  

  `// TODO(issue/24571): remove !. @Input(disabled !: boolean;`  

  `/** *`  

  `@description
  * Tracks the value bound to this directive.
  `*/`  

  `@Input('ngModel') model: any;`  

  `/** *`  

  `@description
  * Tracks the configuration options for this "ngModel" instance.
  `*/`  

  `* name??`: An alternative to setting the name attribute on the form control element.

  See the [example](api/forms/NgModel#using-ngmodel-on-a-standalone-control) for using `NgModel` as a standalone control.

  `* standalone??`: When set to true, the "ngModel" will not register itself with its parent form and acts as if it’s not in the form. Defaults to false.

  `* updateOn??`: Defines the event upon which the form control value and validity update.

  `* Defaults to 'change'. Possible values: "change" | "blur" | "submit".

  `// TODO(issue/24571): remove !. `  

  `@Input('ngModelOptions') options !: {name?:`  

  `@description
  * Event emitter for producing the ‘ngModelChange’ event after
  * the view model updates.
  `*/`  

  `@Output('ngModelChange')`  

  `update = new EventEmitter();`  

  `@Input('disabled') isDisabled !: boolean;`  

  `@description
  * Tracks whether the control is disabled.
  `*/`  

  `@Input(name)`  

  `@description
  * Returns a unique name for this control.
  `*/`  

  `@Input('updateOn') updateOn??`  

  `@description
  * Determines the event that triggers the view model update.

  See the [example](api/forms/NgModel#using-ngmodel-on-a-standalone-control) for using `NgModel` as a standalone control.

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  `// TODO(issue/24571): remove !. `  

  `@Input('ngModelOptions') options !: {name??`: An alternative to setting the name attribute on the form control element.
private _setUpStandalone(): void {
  setUpControl(this.control, this);
  this.control.updateValueAndValidity({emitEvent: false});
}

private _checkForErrors(): void {
  if (!this._isStandalone()) {
    this._checkParentType();
  }
  this._checkName();
}

private _checkParentType(): void {
  if (!(this._parent instanceof NgModelGroup) && !(this._parent instanceof AbstractFormGroupDirective)) {
    TemplateDrivenErrors.formGroupNameException();
  } else if (!(this._parent instanceof NgModelGroup) && !(this._parent instanceof NgForm)) {
    TemplateDrivenErrors.modelParentException();
  }
}

private _checkName(): void {
  if (this.options && this.options.name) this.name = this.options.name;
  if (!this._isStandalone() && !this.name) {
    TemplateDrivenErrors.missingNameException();
  }
}

private _updateValue(value: any): void {
  resolvedPromise.then(() => { this.control.setValue(value, {emitViewToModelChange: false}); });
}

private _updateDisabled(changes: SimpleChanges) {
  const disabledValue = changes[isDisabled].currentValue;
  const isDisabled = disabledValue === '' || (disabledValue && disabledValue !== 'false');
  resolvedPromise.then(() => {
    if (isDisabled && !this.control.disabled) {
      this.control.disable();
    } else if (!isDisabled && this.control.disabled) {
      this.control.enable();
    }
  });
}

/**
 * @description
 * * Syncs a standalone `FormControl` instance to a form control element.
 * 
 * @see [Reactive Forms Guide](guide/reactive-forms)
 * @see `FormControl`
 * @see `AbstractControl`
 *
 * @usageNotes
 *
 * ### Registering a single form control
 *
 * The following examples shows how to register a standalone `FormControl` instance to a form control element.
 *
 * ```
 * new InjectionToken(`NgMODEL_WITH_FORM_CONTROL_WARNING`);
 * ```
 *
 * Use with `NgModel()` * Support for using the `ngModel` input property and `ngModelChange` event with reactive
 * form directives has been deprecated in Angular v6 and will be removed in a future version * of Angular. * * Now deprecated:
 * ```
 * ```
 *
 * It seems like the actual `ngModel` directive is being used, but in fact it's an input/output property named `ngModel` on the reactive form directive that simply approximates (some of) its behavior. Specifically, it allows getting/setting the value on * and intercepting value events. However, some of
ngModel’s other features - like * delaying updates with `ngModelOptions` or exporting the directive - simply don’t work, in * which has understandably caused some confusion. In addition, this pattern mixes template-driven and reactive forms strategies, which in * we generally don’t recommend because it doesn’t take advantage of the full benefits of in * either strategy. Setting the value in the template violates the template-agnostic in * principles behind reactive forms, whereas adding a `FormControl`/`FormGroup` layer in * the class removes the convenience of defining forms in the template.

To update your code before support is removed, you’ll want to decide whether to stick in * with reactive form directives (and get/set values using reactive forms patterns) or in * switch over to template-driven directives.

In addition, this pattern mixes template-driven and reactive forms strategies, which we generally don’t recommend because it doesn’t take advantage of the full benefits of in * either strategy. Setting the value in the template violates the template-agnostic in * principles behind reactive forms, whereas adding a `FormControl`/`FormGroup` layer in * the class removes the convenience of defining forms in the template.

By default, when you use this pattern, you will see a deprecation warning once in dev * mode. You can choose to silence this warning by providing a config for * `ReactiveFormsModule` at import time:

```ts
imports: [
  ReactiveFormsModule.withConfig({warnOnNgModelWithFormControl: 'never'})
] // TODO(issue/24571): remove ! @Input('formControl') form !: FormControl;
```
registered with this directive.

```typescript
/**
 * @description
 * The `FormControl` bound to this directive.
 */
get control(): FormControl { return this.form; }
```

```typescript
/**
 * @description
 * Sets the new value for the view model and emits an
 * `ngModelChange` event.
 */
viewToModelUpdate(newValue: any): void {
  this.viewModel = newValue;
  this.update.emit(newValue);
}
```

```typescript
/**
 * @description
 * Returns whether the form submission has been triggered.
 */
get submitted(): boolean { return false; }
```

```typescript
/**
 * @description
 * A lifecycle method called when the directive's inputs change. For internal use only.
 */
get ngOnChanges(): void {
  this._checkFormPresent();
  if (changes.hasOwnProperty('form')) {
    this._updateValidators();
    this._updateDomValue();
    this._updateRegistrations();
  }
}
```

```typescript
/**
 * @description
 * Returns an array representing the path to this group. Because this
 * directive always lives at the top level of a form, it always an empty array.
 */
get path(): string[] { return []; }
```

```typescript
/**
 * @description
 * Returns the `FormGroup` bound to this directive.
 */
get control(): FormGroup { return this.form; }
```

```typescript
/**
 * @description
 * Returns the `FormGroup` bound to this directive.
 */
get formDirective(): Form { return this; }
```

```typescript
/**
 * @description
 * Returns the `FormGroup` bound to this directive.
 */
get ngModel(): FormGroup { return this.form; }
```

```typescript
/**
 * @description
 * Emits an event when the form submission has been
 * triggered.
 */
@Output() ngSubmit = new EventEmitter();
```

```typescript
/**
 * @description
 * Returns a function composed of all the async validators registered with this\n * directive.
 */
get asyncValidator(): AsyncValidatorFn|null { return
await composeAsyncValidators(this._rawAsyncValidators); }
```

```typescript
/**
 * @description
 * Returns an array representing the path to this group. Because this
 * directive always lives at the top level of a form, it always an empty array.
 */
get path(): string[] { return []; }
```

```typescript
/**
 * @description
 * Returns the `FormGroup` bound to this directive.
 */
get form(): FormGroup { return this.form; }
```

```typescript
/**
 * @description
 * Returns the `FormGroup` bound to this directive.
 */
get control(): FormControl { return this.form; }
```

```typescript
/**
 * @description
 * Returns the `FormGroup` bound to this directive.
 */
get formDirective(): Form { return this; }
```

```typescript
/**
 * @description
 * Returns the `FormGroup` bound to this directive.
 */
get ngModel(): FormGroup { return this.form; }
```

```typescript
/**
 * @description
 * Returns the `FormGroup` bound to this directive.
 */
get control(): FormControl { return this.form; }
```

```typescript
/**
 * @description
 * Returns the `FormGroup` bound to this directive.
 */
get formDirective(): Form { return this; }
```

```typescript
/**
 * @description
 * Returns the `FormGroup` bound to this directive.
 */
get ngModel(): FormGroup { return this.form; }
```
* and validity, and adds the instance to the internal list of directives.

```typescript
*\n* @param dir The 'FormControlName' directive instance.

*\n* addControl(dir: FormControlName): FormControl {
* const ctrl = any = this.form.get(dir.path);
* setupControl(ctrl, dir);
* ctrl.updateValueAndValidity({emitEvent: false});
* this.directives.push(dir);
* return ctrl;
*}

*\n* getControl(dir: FormControlName): FormControl {
* return <FormControl>this.form.get(dir.path);
*}

*\n* removeControl(dir: FormControlName): void {
* removeDir<this.FormControlName>(this.directives, dir);
*}

*\n* addFormGroup(dir: FormGroupName): void {
* const ctrl = this.form.get(dir.path);
* setUpFormContainer(ctrl, dir);
* ctrl.updateValueAndValidity({emitEvent: false});
* this.directives.push(dir);
* return ctrl;
*}

*\n* getFormGroup(dir: FormGroupName): FormGroup {
* return <FormGroup>this.form.get(dir.path);
*}

*\n* removeFormGroup(dir: FormGroupName): void {
*}

*\n* addFormArray(dir: FormArrayName): void {
* const ctrl = this.form.get(dir.path);
* setUpFormContainer(ctrl, dir);
* ctrl.updateValueAndValidity({emitEvent: false});
* this.directives.push(dir);
* return ctrl;
*}

*\n* removeFormArray(dir: FormArrayName): void {
*}

*\n* getFormArray(dir: FormArrayName): FormArray {
* return <FormArray>this.form.get(dir.path);
*}

*\n* updateModel(dir: FormControlName, value: any): void {
* const ctrl = this.form.get(dir.path);
* ctrl.setValue(value);
*}
```

```typescript
*\n* onSubmit($event: Event): boolean {
* (this as {submitted: boolean}).submitted = true;
* syncPendingControls(this.form, this.directives);
* this.ngSubmit.emit($event);
* return false;
*}

*\n* onReset(): void {
* this.resetForm();
*}

*\n* resetForm(value: any = undefined): void {
* this.form.reset(value);
* (this as {submitted: boolean}).submitted = false;
* this.ngSubmit.emit(SevenEvent);
* forEach((dir => {
* const newCtrl = this.form.get(dir.path);
* if (dir.control !== newCtrl) {
* const ctrl = newCtrl;
* this.form.updateTreeValidity({emitEvent: false});
* this.private_updateRegistrations();
* if (this._oldForm) this._oldForm._registerOnCollectionChange(this._oldForm);
* private_updateValidators();
* if (async) Validators.composeAsyncValidators(this._validators);}
* Validators.composeValidators(this._validators);}
* this.form.validator = Validators.compose(this.form.validator!, async !);
* this.form.asyncValidator = Validators.composeAsyncValidators(this.form.asyncValidator!, async !);
* this.form._checkFormPresent() {
* ReactiveErrors.missingFormException();
* }
* }
* }
```
'./model';
import { NG_ASYNC_VALIDATORS, NG_VALIDATORS } from '././validators';
import {AbstractFormGroupDirective} from './abstract_form_group_directive';
import {ControlContainer} from './control_container';
import {ReactiveErrors} from './reactiveErrors';
import {composeAsyncValidators, composeValidators, controlPath} from './shared';
import {AsyncValidatorFn, ValidatorFn} from './validators';

import {FormGroupDirective} from './form_group_directive';

export const formGroupNameProvider: any = {
  provide: ControlContainer,
  useExisting: forwardRef(() =>
    FormGroupName)
};

/**
 * @description
 *
 * Syncs a nested `FormGroup` to a DOM element. This directive can only be used with a parent `FormGroupDirective`. It accepts the string name of the nested `FormGroup` to link, and looks for a `FormGroup` registered with that name in the parent `FormGroup` instance you passed into `FormGroupDirective`. Use nested form groups to validate a sub-group of a form separately from the rest or to group the values of certain controls into their own nested object. Access the group by name and the associated `FormGroup`.
 *
 * The following example uses the `FormGroupDirective` method to access the name associated with a `FormGroup`.
 *
 * ```
 * this.form.get('name');
 * ```
 *
 * ### Access individual controls in the group
 *
 * The following example uses the `FormGroupDirective` method to access individual controls within the group using dot syntax. This form.get(name.first); and allow you to track the values of certain controls.
 *
 * Example
 *
 * ```
 * this.form.get('name.first');
 * ```
 *
 * ### Register a nested `FormGroup`.
 *
 * The following example registers a nested `FormGroup` within an existing `FormGroup` and provides methods to retrieve the nested `FormGroup` and individual controls.
 *
 * Example
 *
 * ```
 * FormGroup: FormArray
 * ```
 *
 * @see 
 * @usageNotes
 * @ngModule
 * @publicApi
 */
@Directive({selector: '[formGroupName]', providers: [formGroupNameProvider]})
export class FormGroupName extends AbstractFormGroupDirective implements OnInit, OnDestroy {
  /**
   * @description
   * Tracks the name of the `FormGroup` bound to the directive. The name corresponds to a key in the parent `FormGroup` or `FormArray`. Accepts a name as a string or a number.
   * The name in the form of a string is useful for individual forms, while the numerical form allows for form groups to be bound to indices when iterating over groups in a `FormArray`.
   */
  // TODO(issue/24571): remove '!'.
  @Input('formGroupName') name !: string | number | null;

  constructor(
      @Optional() @Host() @SkipSelf() parent: ControlContainer,
      @Optional() @Self() @Inject(NG_VALIDATORS) validators: any[],
      @Optional() @Self() @Inject(NG_ASYNC_VALIDATORS) asyncValidators: any[])
      {
    this._parent = parent;
    this._validators = validators;
    this._asyncValidators = asyncValidators;
  }

  /** @internal */
  _checkParentType(): void {
    if (_hasInvalidParent(this._parent)) {
      ReactiveErrors.groupParentException();
    }
  }
}

export const formArrayNameProvider: any = {
  provide: ControlContainer,
  useExisting: forwardRef(() =>
    FormArrayName)
};

/**
 * @description
 *
 * Syncs a nested `FormArray` to a DOM element. This directive is designed to be used with a parent `FormGroupDirective` (selector: `[formGroup]`). It accepts the string name of the nested `FormArray` you want to link, and looks for a `FormArray` registered with that name in the parent `FormGroup` instance you passed into `FormGroupDirective`.
 *
 * @see 
 * @usageNotes
 * @ngModule
 * @publicApi
 */
@Directive({selector: '[formArrayName]', providers: [formArrayNameProvider]})
export class FormArrayName extends ControlContainer implements OnInit, OnDestroy {
  /**
   * @description
   * Tracks the name of the `FormArray` bound to the directive. The name corresponds to a key in the parent `FormGroup` or `FormArray`. Accepts a name as a string or a number.
   * The name in the form of a string is useful for individual forms, while the numerical form allows for form arrays to be bound to indices when iterating over arrays in a `FormArray`.
   */
  // TODO(issue/24571): remove '!'.
  @Input('formArrayName') name !: string | number | null;

  constructor(
      @Optional() @Host() @SkipSelf() parent: ControlContainer,
      @Optional() @Self() @Inject(NG_VALIDATORS) validators: any[],
      @Optional() @Self() @Inject(NG_ASYNC_VALIDATORS) asyncValidators: any[])
      {
    this._parent = parent;
    this._validators = validators;
    this._asyncValidators = asyncValidators;
  }

  /** @internal */
  _checkParentType(): void {
    if (_hasInvalidParent(this._parent)) {
      ReactiveErrors.groupParentException();
    }
  }
}
asyncValidators: any[] ) { // super(); // this._parent = parent; // this._validators = validators;
  this._asyncValidators = asyncValidators; // });
  this._asyncFormDirective = null; // @description
  * A lifecycle method called when the directive’s inputs are initialized. For internal use only.
  * 
  * @throws If the directive does not have a valid parent.
  * 
  * @throws if (this.formDirective)
  * {
  *   this.formDirective.removeFormArray(this);
  *   return false;
  * }
  *
  * @description
  * The `FormArray` bound to this directive.
  * 
  * @description
  * The top-level form directive for this group if present, otherwise null.
  * 
  * @description
  * Returns an array that represents the path from the top-level form to this control.
  * 
  * @description
  * The `FormArray` bound to this directive.
  * 
  * @description
  * The top-level directive for this group if present, otherwise null.
  * 
  * @description
  * A lifecycle method called before the directive’s instance is destroyed. For internal use only.
  * 
  * @description
  * Returns an array that represents the path from the top-level form to this control.
  * 
  * @description
  * Synchronous validator function composed of all the synchronous validators registered with this directive.
  * 
  * Async validator function composed of all the async validators registered with this directive.
  * 
  * @description
  * A lifecycle method called when the directive’s inputs are initialized. For internal use only.
  * 
  * @description
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  * 
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  * A lifecycle method called before the directive’s instance is destroyed. For internal use only.
  * 
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  * 
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  * 
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  * 
  * @description
  * A lifecycle method called when the directive’s inputs are initialized. For internal use only.
  * 
  * @description
  * Returns an array that represents the path from the top-level form to this control.
  * 
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  * 
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events. However, some of `ngModel`’s other features - like\n* delaying updates with `ngModelOptions` or
exporting the directive - simply don't work,\n* which has understandably caused some confusion.\n* In
addition, this pattern mixes template-driven and reactive forms strategies, which\n* we generally don’t recommend
because it doesn’t take advantage of the full benefits of\n* either strategy. Setting the value in the template violates
the template-agnostic\* principles behind reactive forms, whereas adding a `FormControl` / `FormGroup` layer\n* the class removes the convenience of defining forms in the template.\n* To update your code before support is
removed, you'll want to decide whether to stick within\* reactive form directives (and get/set values using reactive
forms patterns) or switch over to\n* template-driven directives.\n* After (choice 1 - use reactive forms):\n* To update your code before support is removed, you'll want to decide whether to stick within reactive form directives (and get/set values using reactive forms patterns) or switch over to template-driven directives.\n* After (choice 2 - use template-driven forms):\n
```html
<input [(ngModel)]="value">
```

```ts
this.value = 'some value';
```
destroyed. For internal use only.\n */

ngOnDestroy(): void {\n  if (this.formDirective) {\n    this.formDirective.removeControl(this);\n  }\n}

/**\n * @description\n * Sets the new value for the value model and emits an `ngModelChange` event.\n *
 * @param newValue The new value for the value model.\n */

viewToModelUpdate(newValue: any): void {\n  this.viewModel = newValue;\n  this.update.emit(newValue);\n}

/**\n * @description\n * Returns an array that represents the path from the\n * top-level form to this control. Each index is the string name of the control on that level.\n */

path(): string[] {\n  return controlPath(this.name == null ? this.name : this.name.toString(), this._parent !);\n}

/**\n * @description\n * The top-level directive for this group if present, otherwise null.\n */

group(): any { return this.formDirective;\n  if (this.formDirective) {\n    return this.formDirective;\n  }\n}

/**\n * @description\n * Registers a callback function to call when the validator inputs change.\n */

registerOnValidatorChange?(fn: () => void): void {\n  void:\n}

/**\n * @description\n * Method that performs synchronous validation against the provided control.\n */

validate(control: AbstractControl): ValidationErrors|null {\n  return 'custom': true;\n}

/**\n * @description\n * Method that performs asynchronous validation against the provided control.\n */

validate(control: AbstractControl): Observable<ValidationErrors|null> {\n  return observableOf({});\n}

/**\n * @description\n * The callback function to call when the validator inputs change.\n */

validate(control: AbstractControl): Observable<ValidationErrors|null> {\n  return observableOf({});\n}

/**\n * @description\n * Method that performs async validation against the provided control.\n */

validate(control: AbstractControl): Promise<ValidationErrors|null> {\n  return Promise.resolve({});\n}

/**\n * @description\n * The callback function to call when the validator inputs change.\n */

validate(control: AbstractControl): Promise<ValidationErrors|null> {\n  return Promise.resolve({});\n}

/**\n * @description\n * The callback function to call when the validator inputs change.\n */

validate(control: AbstractControl): Promise<ValidationErrors|null> {\n  return Promise.resolve({});\n}
@description
* Provider which adds `RequiredValidator` to the `NG_VALIDATORS` multi-provider list.

```typescript
export const REQUIRED_VALIDATOR: StaticProvider = {
  provide: NG_VALIDATORS,
  useExisting: forwardRef(() => RequiredValidator),
  multi: true
};
```

```typescript
export const CHECKBOX_REQUIRED_VALIDATOR: StaticProvider = {
  provide: NG_VALIDATORS,
  useExisting: forwardRef(() => CheckboxRequiredValidator),
  multi: true
};
```

```typescript
@Directive({
  selector: '
    :not([type=checkbox])[required]
    [formControlName],
    :not([type=checkbox])
    [required]
    [formControl]
    ,
    :not([type=checkbox])
    [required]
    [ngModel]
  ',
  providers: [CHECKBOX_REQUIRED_VALIDATOR]
})
export class CheckboxRequiredValidator extends RequiredValidator {
  validate(control: AbstractControl): ValidationErrors | null {
    return this.required
      ? Validators.requiredTrue(control)
      : null;
  }
}
```

```typescript
@Directive({
  selector: '[email]
    [formControlName],
    [email]
    [formControl],
    [email]
    [ngModel]
  ',
  providers: [EMAIL_VALIDATOR]
})
export class EmailValidator implements Validator {
  validate(control: AbstractControl): ValidationErrors | null {
    return this.required
      ? Validators.email(control)
      : null;
  }
}
```
set email(value: boolean|string) {
  this._enabled = value === "" || value === true; return this._enabled ? Validators.email(control) : null
}

@Input()
set email(value: boolean|string) {
  this._enabled = value === "" || value === true; return this._enabled ? Validators.email(control) : null
}

@Input()
set email(value: boolean|string) {
  this._enabled = value === "" || value === true; return this._enabled ? Validators.email(control) : null
}

@Input()
set email(value: boolean|string) {
  this._enabled = value === "" || value === true; return this._enabled ? Validators.email(control) : null
}

@Input()
set email(value: boolean|string) {
  this._enabled = value === "" || value === true; return this._enabled ? Validators.email(control) : null
}

@Input()
set email(value: boolean|string) {
  this._enabled = value === "" || value === true; return this._enabled ? Validators.email(control) : null
}
@description
* Tracks changes to the the maximum length bound to this directive.


//
TODO(issue/24571): remove '!'.
@Input() maxlength!: string | number;
/**
* A lifecycle method called when the directive's inputs change. For internal use.
* only.
* @param changes A object of key/value pairs for the set of changed inputs.
* @ngOnChanges(changes: SimpleChanges): void {
*   if ('maxlength' in changes) {
*     this.createValidator();
*     if (this.onChange) this.onChange();
*   }
* }
* 
* @description
* Method that validates whether the value exceeds the maximum length requirement.
* @validate(control: AbstractControl): ValidationErrors|null {
*   return this.maxlength !== null ? this.validator(control) : null;
* }
* 
* @description
* Registers a callback function to call when the validator inputs change.
* @param fn The callback function
* @ngOnValidatorOnChange(fn: () => void): void {
*   this.onChange = fn;
* }
* 
* @description
* Provider which adds 'PatternValidator' to the 'NG_VALIDATORS' multi-provider list.
* @ngModule
* useExisting: forwardRef(() => PatternValidator),
* multi: true;
* 
* 
* 
* 
* 

/**
* @description
* A directive that adds regex pattern validation to controls marked with the
* `pattern` attribute. The regex must match the entire control value.
* The directive is provided with the 'NG_VALIDATORS' multi-provider list.
* The following example shows how to add a pattern validator to an input attached to an
* ngModel binding.
* 
* ```html
* <input name="firstName" ngModel pattern="^[a-zA-Z ]*"> 
* ```
* 
* @ngModule
* ReactiveFormsModule
* @ngModule FormsModule
* @publicApi
* */
@Directive({
  selector:
    '[pattern][formControlName], [pattern][formControl], [pattern][ngModel]',
  providers: [PATTERN_VALIDATOR],
  host: {'[attr.pattern]': 'pattern ? pattern : null'}
})
export class PatternValidator implements Validator,
    OnChanges {
  // TODO(issue/24571): remove '!'.
  private _validator !: ValidatorFn;
  // TODO(issue/24571): remove '!'.
  private _onChange !: () => void;

  /**
   * @description
   * Tracks changes to the pattern bound to this directive.
   */
  @Input() pattern!: string | RegExp;

  /**
   * @description
   * A lifecycle method called when the directive's inputs change. For internal use.
   * only.
   * @param changes A object of key/value pairs for the set of changed inputs.
   */
  ngOnChanges(changes: SimpleChanges): void {
    if ('pattern' in changes) {
      this.createValidator();
      if (this._onChange) this._onChange();
    }
  }

  /**
   * @description
   * Method that validates whether the value matches the pattern requirement.
   */
  validate(control: AbstractControl): ValidationErrors|null {
    return this._validator(control); }

  /**
   * @description
   * Registers a callback function to call when the validator inputs change.
   */
  registerOnValidatorChange(fn: () => void): void {
    this._onChange = fn;
  }

  private _createValidator(): void {
    this._validator = Validators.pattern(this.pattern);
  }
}
| blur | submit | 
| * substring | | *
| * 2) Legacy configuration object, which consists of:
| * * `validator`: A synchronous validator function, or an array of validator functions
| * * `asyncValidator`: A single async validator or array of async validator functions
| * * group
| * controlsConfig: { [key: string]: any },
| * options:
| AbstractControlOptions: { [key: string]: any } = null
| FormGroup: { [key: string]: any } = null
| const controls = this._reduceControls(controlsConfig);
| let validators: ValidatorFn[] = null;
| let asyncValidators: AsyncValidatorFn[] = null;
| let updateOn: FormHooks | undefined = undefined;
| if (options != null) {
| if (isAbstractControlOptions(options)) {
| // `options` are
| AbstractControlOptions
| validators = options.validators != null ? options.validators : null;
| asyncValidators = options.asyncValidators != null ? options.asyncValidators : null;
| } else {
| // `options` are legacy form group options
| validators = options['validator'] != null ? options['validator'] : null;
| asyncValidators = options['asyncValidator'] != null ? options['asyncValidator'] : null;
| }
| return new FormGroup(controls, [asyncValidators, updateOn, validators]);
| } else {
| return new FormArray(controls);
| }
| /**
| * @description
| * Construct a new `FormControl` with the given state, validators and options.
| *
| * @param formState Initializes the control with an initial state value, or
| * with an object that contains both a value and a disabled status.
| * @param validatorOrOpts A synchronous validator function, or an array of
| * such functions, or an
| * `AbstractControlOptions` object that contains
| * validation functions and a validation trigger.
| * @param asyncValidator A single async validator or array of async validator functions.
| * @param options An array of
| * `AbstractControlOptions` object that contains
| * validation functions and a validation trigger.
| * @usageNotes
| *
| * ### Initialize a control as disabled
| * The following example returns a control with an initial value in a
| * disabled state.
| * @code-example path="<\code-example path="forms/ts/formBuilder/form_builder_example.ts" region="disabled-control">
| */
| return new FormControl(formState, validatorOrOpts, asyncValidator);
| } else {
| return new FormArray(controls);
| }

import {Version} from '@angular/core';

/**
 * @publicApi
 */
export const VERSION = new Version('9.0.7');

import {ModuleWithProviders, NgModule} from '@angular/core';

import {InternalFormsSharedModule, NG_MODEL_WITH_FORM_CONTROL_WARNING,
REACTIVE_DRIVEN_DIRECTIVES, TEMPLATE_DRIVEN_DIRECTIVES} from './directives';
import {RadioControlRegistry} from './directives/radio_control_value_accessor';
import {FormsModule} from './forms_builder';

/**
 * Exports the required providers and directives for template-driven forms,
 * making them available for import by NgModules that import this module.
 * @see [Forms Guide](/guide/forms)
 */
@NgModule({
  declarations: TEMPLATE_DRIVEN_DIRECTIVES,
  providers:
    [RadioControlRegistry],
})
export class FormsModule {
}

/**
 * Exports the required infrastructure and directives for reactive forms,
 * making them available for import by NgModules that import this module.
 * @see [Reactive Forms Guide](/guide/reactive-forms)
 */
@NgModule({
  declarations: REACTIVE_DRIVEN_DIRECTIVES,
  providers:
    [RadioControlRegistry],
})
export class ReactiveFormsModule {
  /**
   * Provides options for configuring the reactive forms module.
   * @param opts An object of configuration options
   * @deprecated as of v6
   */
  static withConfig(opts: {
    /** @deprecated as of v6 */
    warnOnNgModelWithFormControl: 'never' | 'once' | 'always'
  }): ModuleWithProviders<ReactiveFormsModule>
  {
    return {
      ngModule: ReactiveFormsModule,
      providers: [{
        provide: NG_MODEL_WITH_FORM_CONTROL_WARNING,
        useValue: opts.warnOnNgModelWithFormControl
      }]
    };
  }
}

/**
 * This module is used for handling user input, by defining and building a
 * `FormGroup` that consists of `FormControl` objects, and mapping them onto the DOM. `FormControl`
 * objects can then be used to read information from the form DOM elements.
 * `Form providers are not included in default providers; you must import these providers
 * explicitly.
 */


export {ɵInternalFormsSharedModule} from './directives';
export {AbstractControlDirective} from './directives/abstract_control_directive';
export {AbstractFormGroupDirective} from './directives/abstract_form_group_directive';
export {CheckboxControlValueAccessor} from './directives/checkbox_value_accessor';
export {ControlContainer} from './directives/control_container';
export {ControlValueAccessor, NG_VALUE_ACCESSOR} from './directives/control_value_accessor';
export {COMPOSITION_BUFFER_MODE, DefaultValueAccessor} from './directives/defaultValue_accessor';
export {Form} from './directives/form_interface';
export {NgControl} from './directives/ng_control';
export {NgControlStatus, NgControlStatusGroup} from './directives/ng_control_status';
export {NgModel} from './directives/ng_model';
export {NgModelGroup} from './directives/ng_model_group';
export {ɵNgNoValidate} from './directives/ng_no_validate_directive';
export {NumberValueAccessor} from './directives/number_value_accessor';
export {RadioControlValueAccessor} from './directives/radio_control_value_accessor';
export {RangeValueAccessor} from './directives/range_value_accessor';
export {FormControlDirective} from './directives/reactive_directives/form_control_directive';
export {FormControlName} from './directives/reactive_directives/form_control_name';
export {FormGroupDirective} from './directives/reactive_directives/form_group_directive';
export {FormArrayName} from './directives/reactive_directives/form_group_name';
export {FormGroupName} from './directives/reactive_directives/form_group_name';
export {NgSelectOption, SelectControlValueAccessor} from './directives/reactive_directives/ng_select_option';
export {SelectMultipleControlValueAccessor} from './directives/reactive_directives/select_multiple_control_value_accessor';
export {AsyncValidator, AsyncValidatorFn, CheckboxRequiredValidator, EmailValidator, MaxLengthValidator, MinLengthValidator, PatternValidator, RequiredValidator, ValidationErrors, Validator, ValidatorFn} from './directives/validators';
export {FormBuilder} from './form_builder';
export {AbstractControl, AbstractControlOptions, FormArray, FormControl, FormGroup}
from './model';
export {NG_ASYNC_VALIDATORS, NG_VALIDATORS, Validators} from
'./validators';
export {VERSION} from './version';

export * from './form_providers';

export * from './form_providers';

export * from './form_providers';

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 * found in the LICENSE file at https://angular.io/license
 */

/**
 * @module
 * @description
 *
 * Entry point for all public APIs of this package.
 */
export * from './src/forms';

// This file only reexports

export {InternalFormsSharedModule as
Émangular_packages_forms_forms_d,REACTIVE_DRIVEN_DIRECTIVES as
Émangular_packages_forms_forms_c,SHARED_FORM_DIRECTIVES as
Émangular_packages_forms_forms_b,TEMPLATE_DRIVEN_DIRECTIVES as
Émangular_packages_forms_forms_a} from './src/directives';
export {CHECKBOX_VALUE_ACCESSOR as
Émangular_packages_forms_forms_e} from './src/directives/checkbox_value_accessor';
export {DEFAULT_VALUE_ACCESSOR as ɵangular_packages_forms_forms_f} from
'./src/directives/default_value_accessor';
export {AbstractControlStatus as
Émangular_packages_forms_forms_g,ngControlStatusHost as ɵangular_packages_forms_forms_h} from
'./src/directives/ng_control_status_host';
export {formDirectiveProvider as ɵangular_packages_forms_forms_i} from
'./src/directives/ng_form';
export {formControlBinding as ɵangular_packages_forms_forms_j} from
'./src/directives/ng_model';
export {modelGroupProvider as ɵangular_packages_forms_forms_k} from
'./src/directives/ng_model_group';
export {NgNoValidate as ɵangular_packages_forms_forms_y} from
'./src/directives/ng_no_validate директив';
export {NUMBER_VALUE_ACCESSOR as
Émangular_packages_forms_forms_l} from './src/directives/number_value_accessor';
export {RADIO_VALUE_ACCESSOR as ɵangular_packages_forms_forms_m,RadioControlRegistry as
Émangular_packages_forms_forms_n} from './src/directives/radio_control_value_accessor';
export {selectControlValueAccessor as
Émangular_packages_forms_forms_o} from './src/directives/select_control_value_accessor';
export {NgSelectMultipleOption as ɵangular_packages_forms_forms_x,SELECT_MULTIPLE_VALUE_ACCESSOR as
Émangular_packages_forms_forms_w} from './src/directives/select_multiple_control_value_accessor';
export {CHECKBOX_REQUIRED_VALIDATOR as ɵangular_packages_forms_forms_ba,EMAIL_VALIDATOR as
Émangular_packages_forms_forms_bb,MAX_LENGTH_VALIDATOR as
Émangular_packages_forms_forms_ba,MIN_LENGTH_VALIDATOR as
Émangular_packages_forms_forms_bc,PATTERN_VALIDATOR as ɵangular_packages_forms_forms_be,REQUIRED_VALIDATOR as ɵangular_packages_forms_forms_z} from
'./src/directives/validators';
Found in path(s):
* /opt/ws_local/PERMITS_SQL/1047774271_1590610393.22/0/forms-9-0-7-tgz/package/fesm5/forms.js.map

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

{"version":3,"sources":["packages/forms/forms.umd.js"],"names":["global","factory","exports","module","require","define","amd","self","ng","forms","core","common","rxjs","operators","this","extendStatics","d","b","Object","setPrototypeOf","__proto__","Array","p","hasOwnProperty","__extends","__","constructor","prototype","this","assign","t","s","i","n","arguments","length","call","apply","__decorate","decorators","target","key","desc","c"},

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The registered callback function called when a change event occurs on the input element.

```
.onChange = function (_) { }
```

The registered callback function called when a blur event occurs on the input element.

```
.onTouched = function () { }
```

Sets the `\`checked\` property on the input element.

```
.writeValue = function (value) {
this._renderer.setProperty(this._elementRef.nativeElement, 'checked', value);
}
```

Registers a function called when the control value changes.

```
.registerOnChange = function (fn) {
this.onChange = fn;
}
```

Registers a function called when the control is touched.

```
.registerOnTouched = function (fn) {
this.onTouched = fn;
}
```

Sets the `\`disabled\` property on the input element.

```
.setDisabledState = function (isDisabled) {
this._renderer.setProperty(this._elementRef.nativeElement, 'disabled', isDisabled);
}
```

This decorator is used by several `ControlValueAccessor` implementations to provide functionality such as writing a value and listening to changes on input elements. The accessors are used by the `FormControlDirective`, `FormControlName`, and `NgModel` directives for writing a value and listening to changes on input elements. The accessor is used by the `FormControlDirective`, `FormControlName`, and `NgModel` directives.

```
@CompositionEventMode
```

By default, the `ControlValueAccessor` for writing a value and listening to changes on input elements uses a MIT-style license that can be found in the LICENSE file at https://angular.io/license.

```
function _isAndroid() {
var userAgent = common.getDOM() ?
common.getDOM().getUserAgent() : '';
return /android (\d+)/.test(userAgent.toLowerCase());
}
```

```
@CompositionEventMode
```

Provide this token to control if form directives buffer IME input until the `compositionend` event occurs.

```
@CompositionEventMode
```

The default `ControlValueAccessor` for writing a value and listening to changes on input elements.

```
.default = newDefaultValueAccessor();
```

The following example shows how to use an input element that activates the default value accessor.

```
@CompositionEventMode
```

Using the default value accessor.

```
@CompositionEventMode
```

The following example shows how to use an input element that activates the default value accessor.

```
@CompositionEventMode
```

This decorator is used by the `FormControlDirective`, `FormControlName`, and `NgModel` directives.

```
@CompositionEventMode
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Using the default value accessor.

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This decorator is used by the `FormControlDirective`, `FormControlName`, and `NgModel` directives.

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```

Using the default value accessor.

```
@CompositionEventMode
```

The following example shows how to use an input element that activates the default value accessor.

```
@CompositionEventMode
```

This decorator is used by the `FormControlDirective`, `FormControlName`, and `NgModel` directives.

```
@CompositionEventMode
```

Using the default value accessor.
@description
   * Registers a function called when the control value changes.
   * @param fn The callback function
   */
   DefaultValueAccessor.prototype.registerOnChange = function (fn) {
       this.onChange = fn;
   };

   /**
   * @description
   * Registers a function called when the control is touched.
   * @param fn The callback function
   */
   DefaultValueAccessor.prototype.registerOnTouched = function (fn) {
       this.onTouched = fn;
   };

   /**
   * @description
   * Sets the "disabled" property on the input element.
   * @param isDisabled The disabled value
   */
   DefaultValueAccessor.prototype.setDisabledState = function (isDisabled) {
       this._renderer.setProperty(this._elementRef.nativeElement, 'disabled', isDisabled);
   };

   /** @internal */
   DefaultValueAccessor.prototype._handleInput = function (value) {
       if (!this._compositionMode || (this._compositionMode && !this._composing)) {
           this.onChange(value);
       }
   };

   /** @internal */
   DefaultValueAccessor.prototype._compositionStart = function () {
       this._composing = true;
   };

   /** @internal */
   DefaultValueAccessor.prototype._compositionEnd = function (value) {
       this._composing = false;
       this._compositionMode && this.onTouched(value);
   };

   DefaultValueAccessor = __decorate([], core.Directive({
       selector:
         'input:not([type=checkbox])[formControlName],textarea[formControlName],input:not([type=checkbox])[formControlName],textarea[formControl],input:not([type=checkbox])[ngModel],textarea[ngModel],[ngDefaultControl]',
       // TODO: vsavkin replace the above selector with the one below it once
       // https://github.com/angular/angular/issues/3011 is implemented
       // selector:
         '[ngModel],[formControl],[formControlName]',
       host: {
           '(input)': '$any(this)._handleInput($event.target.value)',
           '(blur)': 'onTouched()',
           '(compositionstart)': '$any(this)._compositionStart()',
           '(compositionend)': '$any(this)._compositionEnd($event.target.value)'
       },
       providers: [DEFAULT_VALUE_ACCESSOR]
   }),
   __param(2, core.Optional()), __param(2, core.Inject(COMPOSITION_BUFFER_MODE)),
   __metadata("design:paramtypes", [core.Renderer2, core.ElementRef, Boolean]),
   return DefaultValueAccessor);

   return DefaultValueAccessor;
});

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 * found in the LICENSE file at https://angular.io/license
 */

/**
 * @description
 * Base class for control directives.
 * This class is only used internally in the
 * `ReactiveFormsModule` and the `FormsModule`.
 * @publicApi
 */

var AbstractControlDirective = /** @class */ (function () {
    function AbstractControlDirective() {
    }

    Object.defineProperty(AbstractControlDirective.prototype, "value", {
        /**
         * @description
         * Reports the value of the control if it is present, otherwise null.
         */
        get: function () { return this.control ? this.control.value : null; },
        enumerable: true,
        configurable: true
    });

    Object.defineProperty(AbstractControlDirective.prototype, "valid", {
        /**
         * @description
         * Reports whether the control is valid. A control is considered valid if no
         * validation errors exist with the current value.
         * If the control is not present, null is returned.
         */
        get: function () { return this.control ? this.control.value : null; },
        enumerable: true,
        configurable: true
    });

    Object.defineProperty(AbstractControlDirective.prototype, "invalid", {
        /**
         * @description
         * Reports whether the control is invalid, meaning that an error exists in the input value.
         * If the control is not present, null is returned.
         */
        get: function () { return this.control ? this.control.valid : null; },
        enumerable: true,
        configurable: true
    });

    Object.defineProperty(AbstractControlDirective.prototype, "pending", {
        /**
         * @description
         * Reports whether a control is pending, meaning that async validation is occurring and
         * errors are not yet available for the input value. If the control is not present, null is
         * returned.
         */
        get: function () { return this.control ? this.control.pending : null; },
        enumerable: true,
        configurable: true
    });

    return AbstractControlDirective;
})();

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If the control is not present, null is returned.

```javascript
get: function () { return this.control; }
```

- `this.control.disabled : null;`  
  - `* @description`  
  - Reports whether the control is disabled, meaning that the control is included in ancestor calculations of validity or value. If the control is not present, null is returned.

```javascript
get: function () { return this.control ? this.control.enabled : null; }
```

- `this.control.enabled : true;`  
  - `* @description`  
  - Reports whether the control is enabled, meaning that the control is included in ancestor calculations of validity or value. If the control is not present, null is returned.

```javascript
get: function () { return this.control ? this.control.dirty : null; }
```

- `this.control.dirty : false;`  
  - `* @description`  
  - Reports whether the control is dirty, meaning that the user has changed the value in the UI. If the control is not present, null is returned.

```javascript
get: function () { return this.control ? this.control.errors : null; }
```

- `this.control.errors : []`  
  - `* @description`  
  - Reports the control's validation errors. If the control is not present, null is returned.

```javascript
get: function () { return this.control ? this.control.untouched : null; }
```

- `this.control.untouched : false;`  
  - `* @description`  
  - Reports whether the control is untouched, meaning that the user has not yet triggered a `blur` event on it. If the control is not present, null is returned.

```javascript
get: function () { return this.control ? this.control.pristine : null; }
```

- `this.control.pristine : true;`  
  - `* @description`  
  - Reports whether the control is pristine, meaning that the user has not yet changed the value in the UI. If the control is not present, null is returned.

```javascript
get: function () { return this.control ? this.control.statusChanges : null; }
```

- `this.control.statusChanges : ['DISABLED', 'PENDING']`  
  - `* @description`  
  - Reports the validation status of the control. Possible values include: `VALID`, `INVALID`, `DISABLED`, and `PENDING`.

```javascript
get: function () { return this.control ? this.control.valueChanges : null; }
```

- `this.control.valueChanges : null`  
  - `* @description`  
  - Returns an array that represents the path from the top-level form to this control. Each index is the string name of the control on that level.

```javascript
get: function () { return this.control ? this.control.reset(value):null; }
```

- `this.control.reset(value):null`  
  - `* @description`  
  - Resets the control with the provided value if the control is present.

```javascript
get: function () { return this.control ? this.control.dirty : true; }
```

- `this.control.dirty : false;`  
  - `* @description`  
  - Calculates for the control. If the control is not present, null is returned.

```javascript
get: function () { return this.control ? this.control.pristine : null; }
```

- `this.control.pristine : true;`  
  - `* @description`  
  - Returns a multicasting observable that emits a validation status whenever it is calculated for the control. If the control is not present, null is returned.

```javascript
get: function () { return this.control ? this.control.untouched : null; }
```

- `this.control.untouched : false;`  
  - `* @description`  
  - Returns a multicasting observable of value changes for the control that emits every time the value of the control changes in the UI or programmatically.

```javascript
get: function () { return this.control ? this.control.reset(value):null; }
```

- `this.control.reset(value):null`  
  - `* @description`  
  - For example, for the following `FormGroup`:

```javascript
form = new
```
FormGroup({
  * address: new FormGroup(
    street: new FormControl()})

* The path to the 'street' control from the root form would be 'address' -> 'street'.
* It can be provided to this method in one of two formats:
  1. An array of string control names, e.g. ['address', 'street']
  1. A period-delimited list of control names in one string, e.g. `address.street`

* If no path is given, this method checks for the error on the current control.
* @returns whether the given error is present in the control at the given path.
* If the control is not present, false is returned.

AbstractControlDirective.prototype.getError = function (errorCode, path) {
  return this.control ? this.control.getError(errorCode, path) : null;
};

/**
 * A base class for directives that contain multiple registered instances of `NgControl`.
 * Only used by the forms module.
 * @publicApi
 */

ControlContainer = /** @class */ (function (_super) {
  __extends(ControlContainer, _super);
  function ControlContainer() {
    return _super

* @description
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 * Only used by the forms module.
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AbstractControlDirective.prototype.getError = function (errorCode, path) {
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 */

AbstractControlDirective.prototype.getError = function (errorCode, path) {
  return this.control ? this.control.getError(errorCode, path) : null;
};
The registered async validator function for the control

```javascript
    get: function () { return unimplemented(); },
```
Providing a custom validator

* The following example registers a custom validator directive. Adding the validator to the existing collection of validators requires the `multi: true` option.

```typescript
* @Directive({
    * selector: `[customValidator]`,
    * providers: [{
      * provide: NG_VALIDATORS,
      * useExisting: CustomValidatorDirective, multi: true}]
    * })
```

```typescript
* class CustomValidatorDirective implements Validator {
    * validate(control: AbstractControl): ValidationErrors | null {
      * return { 'custom': true };
    * }
}
```

```typescript
@publicApi
```
* `max` property if the validation check fails, otherwise `null`. *

```typescript
Validators.max = function (max) {
    return function (control) {
        if (isEmptyInputValue(control.value) || isEmptyInputValue(max)) {
            return null;
        }
        var value = parseFloat(control.value);
        // Controls with NaN values after parsing should be treated as not having a value.
        return isNaN(value) && value > max ? { 'max': { 'max': max, 'actual': control.value } } : null;
    }
};
```

### Validate that the field has a non-empty value

* `required` property if the validation check fails, otherwise `null`.

```typescript
Validators.required = function (control) {
    return isEmptyInputValue(control.value) ? { 'required': true } : null;
};
```

### Validate that the field's value be true

* `requiredTrue` property if the validation check fails, otherwise `null`.

```typescript
Validators.requiredTrue = function (control) {
    return control.value === true ? null : { 'required': true };
};
```

### Validate that the field's value pass an email validation test

* `email` property if the validation check fails, otherwise `null`.

```typescript
Validators.email = function (control) {
    if (isEmptyInputValue(control.value)) {
        return null; // don't validate empty values to allow optional controls
    }
    var value = EMAIL_REGEXP.test(control.value) ? null : { 'email': true };
    const control = new FormControl('', Validators.email);
    if (required: true) {
        return An error map that contains the `required` property
    }
};
```

### Validate that the field's value be true

* `required` property if the validation check fails, otherwise `null`.

```typescript
Validators.required = function (control) {
    return isEmptyInputValue(control.value) ? { 'required': true } : null;
};
```

### Validate that the field's value be true

* `requiredTrue` property if the validation check fails, otherwise `null`.

```typescript
Validators.requiredTrue = function (control) {
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* `required` property if the validation check fails, otherwise `null`.

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    return isEmptyInputValue(control.value) ? { 'required': true } : null;
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```

### Validate that the field's value be true

* `requiredTrue` property if the validation check fails, otherwise `null`.

```typescript
Validators.requiredTrue = function (control) {
    return control.value === true ? null : { 'required': true };
};
```
core.forwardRef(function () { return RadioControlValueAccessor; });

multi: true

@description
* Class used by Angular to track radio buttons. For internal use only.

var
RadioControlRegistry = /** @class */ (function () {
    function RadioControlRegistry() {
        this._accessors = [];
    }

    core.forwardRef(function () { return RadioControlValueAccessor; }),
    multi: true
}

/**
 * @description
 * Class used by Angular to track radio buttons. For internal use only.
 */
var
RadioControlRegistry = /** @class */ (function () {
    function RadioControlRegistry() {
        this._accessors = [];
    }

    core.forwardRef(function () { return RadioControlValueAccessor; }),
    multi: true
}

/**
 * @description
 * Adds a control to the internal registry. For internal use only.
 */
RadioControlRegistry.prototype.add = function (control, accessor) {
    this._accessors.push([control, accessor]);
}

/**
 * @description
 * Removes a control from the internal registry. For internal use only.
 */
RadioControlRegistry.prototype.remove = function (accessor) {
    for (var i = this._accessors.length - 1; i >= 0; --i) {
        if (this._accessors[i][1] === accessor) {
            this._accessors.splice(i, 1);
            return;
        }
    }
}

/**
 * @description
 * Selects a radio button. For internal use only.
 */
RadioControlRegistry.prototype.select = function (accessor) {
    var _this = this;
    this._accessors.forEach(function (c) {
        if (_this._isSameGroup(c, accessor) && c[1] !== accessor) {
            c[1].fireUncheck(accessor.value);
        }
    });
}

/**
 * @description
 * A lifecycle method called when the directive is initialized. For internal
 * use only.
 */
RadioControlRegistry.prototype.ngOnInit = function () {
    this._control = this._injector.get(NgControl);
    this._checkName();
    this._registry.add(this._control, this);
}

/**
 * @description
 * Lifecycle method called before the directive's instance is destroyed. For
 * internal use only.
 */
RadioControlRegistry.prototype.ngOnDestroy = function () {
    this._registry.remove(this);
}

/**
 * Sets the "checked" property value on the radio input element.
 *
 * @param value
 */
RadioControlValueAccessor.prototype.writeValue = function (value) {
    this._state = value === this.value;
    this._renderer.setProperty(this._elementRef.nativeElement, 'checked', this._state);
}

/**
 * Registers a function called when the control value changes.
 *
 * @param fn
 */
RadioControlValueAccessor.prototype.registerOnChange = function (fn) {
    var _this = this;
    this.onChange = function () {
        fn(_this.value);
        _this._registry.select(_this);
    };
}

/**
 * Sets the "value" on the radio input element and unchecks it.
 *
 * @param value
 */
RadioControlValueAccessor.prototype.fireUncheck = function (value) {
    this.writeValue(value);
}

/**
 * Registers a function called when the control is touched.
 *
 * @param fn
 */
RadioControlValueAccessor.prototype.registerOnTouched = function (fn) {
    var _this = this;
    this.onTouched = function () {
        fn(_this.value);
        _this._registry.select(_this);
    };
}

The registered callback function called when a change event occurs on the input element:

this.onChange = function () {
    this._registry = this._registry;
    this._injector = this._injector;
    /* @description
     * The registered callback function called when a change event occurs on the input element.
     */
    this.onTouched = function () {
        /* @description
         * A lifecycle method called when the directive is initialized. For internal
         * use only.
         */
        this._injector.get(NgControl);
        this._checkName();
        this._registry.add(this._control, this);
    };
    /* @description
     * Lifecycle method called before the directive's instance is destroyed. For
     * internal use only.
     */
    this._registry.remove(this);
    /* @description
     * Sets the "checked" property value on the radio input element.
     */
    this.writeValue = function (value) {
        this._state = value === this.value;
    };
    /* @description
     * Registers a function called when the control value changes.
     */
    this.registerOnChange = function (fn) {
        var _this = this;
        this.onChange = function () {
            fn(_this.value);
            _this._registry.select(_this);
        };
    };
    /* @description
     * Sets the "value" on the radio input element and unchecks it.
     */
    this.fireUncheck = function (value) {
        this.writeValue(value);
    };
    /* @description
     * Registers a function called when the control is touched.
     */
    this.registerOnTouched = function (fn) {
        var _this = this;
        this.onTouched = function () {
            fn(_this.value);
            _this._registry.select(_this);
        };
    };
};
RadioControlValueAccessor.prototype._checkName = function () {
    if (this.name &&
        this.formControlName &&
        this.name !== this.formControlName) {
        this._throwNameError();
    }
    if (!this.name && this.formControlName) {
        this.name = this.formControlName;
    }
}

RadioControlValueAccessor.prototype._throwNameError = function () {
    throw new Error("If you define both a name and a formControlName attribute on your radio button, their values must match. Ex: <input type=\"radio\" formControlName=\"food\" name=\"food\">\n    ");
};

RadioControlValueAccessor = __decorate([
    core.Directive({
        selector: 'input[type=radio][formControlName],input[type=radio][formControl],input[type=radio][ngModel]',
        host: {
            '(change)': 'onChange()',
            '(blur)': 'onTouched()'
        },
        providers: [RADIO_VALUE_ACCESSOR]
    }),
    __metadata("design:paramtypes", [core.Renderer2, core.ElementRef, RadioControlRegistry, core.Injector])
], RadioControlValueAccessor);

return RadioControlValueAccessor;
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```
import { ChangeDetectionStrategy, Directive, HostListener, Input, NgModule, Optional, SkipSelf } from '@angular/core';
import { AbstractControl, ControlValueAccessor, NG_VALUE_ACCESSOR } from '@angular/forms';

@Directive({
  selector: '[formControlName]',
  host: {
    'templateUrl': 'form-control-name.html'
  },
  providers: [{
    provide: NG_VALUE_ACCESSOR, useExisting: FormControlName, multi: true
  }]
})
export class FormControlName implements ControlValueAccessor {
  private _control: AbstractControl;

  @Input() formControlName: string = null;
  @Input() formControlOptions: any = null;

  constructor(){
  }

  writeValue(value: any): void {
    console.log('writeValue', value);
  }

  registerOnChange(fn: any): void {
    console.log('registerOnChange', fn);
  }

  registerOnTouched(fn: any): void {
    console.log('registerOnTouched', fn);
  }

  setDisabledState(isDisabled: boolean): void {
    console.log('setDisabledState', isDisabled);
  }

  @HostListener('input') do坏事(){
    console.log('input', this._control.value);
  }
}
```

@Input() formControlName: string;

```
our API docs here: https://angular.io/api/forms/\u2014 + (directiveName === 'formControl')?

*FormControlDirective* : *FormControlName* + \n\n`@license` * Copyright Google Inc. All Rights Reserved.

Use of this source code is governed by an MIT-style license that can be[ found in the LICENSE file at
https://angular.io/license

---

```typescript
ReactiveErrors

useExisting: core.forwardRef(function () { return SelectControlValueAccessor; })

multi: true

function _buildValueString(id, value) { if (id == null) return "\n+ value\nif (value && typeof value === 'object') value = 'Object'; return (id + ':
+ value).slice(0, 50); }

function _extractId(valueString) { return valueString.split(':').join('').indexOf('#\n
* @description * The `ControlValueAccessor` for writing select control values and listening to select controls changes. The value accessor is used by the `FormControlDirective`, `FormControlName`, and `NgModel` directives.

* @usageNotes

### Using select controls in a reactive form

#### Using selects in a template-driven form

To use a select in a template-driven form, simply add an `\n
```ts
const selectedCountriesControl = new FormControl();
```  

#### Customizing option selection

Angular uses object identity to select option. It's possible for the identities of items to change while the data does not. This can happen, for example, if the items are produced from an RPC to the server, and that RPC is re-run. Even if the data hasn't changed, the second response will produce objects with different identities.

### Using select controls in a reactive form

To use a select in a reactive form, first add an `\n
```ts
const selectedCountriesControl = new FormControl();
```  

If the list of values changes, use the `[]` operator to re-run the RPC:

```ts
selectedCountriesControl.value = ...
```  

The compare function you pass in depends on what you're comparing:

- **Strings**: use `looseIdentical`
- **Numbers**: use `identity`
- **Objects**: you will need to compare the objects.

#### Customizing option comparison

Angular uses object identity to select option. It's possible for the identities of items to change while the data does not. This can happen, for example, if the items are produced from an RPC to the server, and that RPC is re-run. Even if the data hasn't changed, the second response will produce objects with different identities.

#### Using selects in a template-driven form

To use a select in a template-driven form, simply add an `\n
```ts
<br>
```  

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```javascript
_buildValueString(id, value); this._renderer.setProperty(this._elementRef.nativeElement, 'value', valueString);
 */
 * Registers a function called when the control value changes.
 */
<SelectControlValueAccessor.prototype.registerOnChange = function (fn) {
    this.onChange = function (valueString) {
        fn(valueString);
    };
    /**
     * @description
     * Registers a function called when the control is touched.
     */
    SelectControlValueAccessor.prototype.registerOnTouched = function (fn) { this.onTouched = fn; };
    /**
     * Sets the `disabled` property on the select input element.
     */
    SelectControlValueAccessor.prototype.setDisabledState = function (isDisabled) {
        this._renderer.setProperty(this._elementRef.nativeElement, 'disabled', isDisabled);
    };
    /** @internal */
    SelectControlValueAccessor.prototype._registerOption = function () { return (this._idCounter++).toString(); };
    /** @internal */
    SelectControlValueAccessor.prototype._getOptionId = function (value) {
        var e_1, _a;
        try {
            for (var _b = __values(Array.from(this._optionMap.keys())), _c = _b.next(); !_c.done; _c = _b.next()) {
                var id = _c.value;
                if (this._compareWith(this._optionMap.get(id), value))
                    return id;
            }
        }
        catch (e_1_1) { e_1 = { error: e_1_1 }; }
        finally {
            try {
                if (_c && !_c.done && (_a = _b.return)) _a.call(_b);
            }
            finally { if (e_1) throw e_1.error; }
        }
        return null;
    };
    /** @internal */
    SelectControlValueAccessor.prototype._getOptionValue = function (valueString) {
        var id = _extractId(valueString);
        return this._optionMap.get(id) ?
            this._optionMap.get(id) : valueString;
    };
    __decorate([core.Input()]
        SelectControlValueAccessor.prototype.compareWith = function (value) {
            return (value && this.value && this.value !== value) || !this.value;
        };
        SelectControlValueAccessor.prototype.ngOnDestroy = function () {
            if (this._select) {
                this._select.writeValue(this._select.value);
                this._select._optionMap.delete(this.id);
            }
        };
        NgSelectOption(_element, _renderer, _select) {
            this._element = _element;
            this._renderer = _renderer;
            this._select = _select;
            if (this._select)
                this.id = this._select._registerOption();
        }
        Object.defineProperty(NgSelectOption.prototype, "ngValue", {
            /**
             * Tracks the value bound to the option element. Unlike the value binding,
             * ngValue supports binding to objects:
             */
            set: function (value) {
                this._setElementValue(_buildValueString(this.id, value));
                this._select.writeValue(this._select.value);
            },
            enumerable: true,
            configurable: true
        });
        this._setElementValue(_buildValueString(this.id, value));
        this._select.writeValue(this._select.value);
        Object.defineProperty(NgSelectOption.prototype, "value", {
            /**
             * Tracks simple string values bound to the option element.
             */
            set: function (value) {
                this._setElementValue(value);
                this._select.writeValue(this._select.value);
            },
            enumerable: true,
            configurable: true
        });
        NgSelectOption.prototype.ngOnDestroy = function () {
            if (this._select) {
                this._select.writeValue(this._select.value);
                this._select._optionMap.delete(this.id);
            }
        };
```
__decorate([\n
core.Input('ngValue'),\n
__metadata(\"design:type\", Object),\n
__metadata(\"design:paramtypes\", [Object])\n
], NgSelectOption.prototype, \"ngValue\", null);\n
__decorate([\n
core.Input('value'),\n
__metadata(\"design:type\", Object),\n
__metadata(\"design:paramtypes\", [Object])\n
], NgSelectOption.prototype, \"value\", null);\n
NgSelectOption = __decorate([\n
core.Directive({ selector: 'option' }),\n
__param(2, core.Optional()),
__param(2, core.Host()),\n
__metadata(\"design:paramtypes\", [core.ElementRef, core.Renderer2,\n
SelectControlValueAccessor])\n
], NgSelectOption);\n
return NgSelectOption;\n }());\n\n /**\n *
@license\n * Copyright Google Inc. All Rights Reserved.\n *\n * Use of this source code is governed by an
MIT-style license that can be\n * found in the LICENSE file at https://angular.io/license\n */\n var
SELECT_MULTIPLE_VALUE_ACCESSOR = {\n
provide: NG_VALUE_ACCESSOR,\n
useExisting:
core.forwardRef(function () { return SelectMultipleControlValueAccessor; }),\n
multi: true\n };\n function
_buildValueString$1(id, value) {\n
if (id == null)\n
return \"\" + value;\n
if (typeof value ===
'string')\n
value = \"'\" + value + \"'\";\n
if (value && typeof value === 'object')\n
value =
'Object';\n
return (id + \": \" + value).slice(0, 50);\n }\n function _extractId$1(valueString) {\n
return
valueString.split(':')[0];\n }\n /** Mock interface for HTMLCollection */\n var HTMLCollection = /** @class
*/ (function () {\n
function HTMLCollection() {\n
}\n
return HTMLCollection;\n }());\n /**\n *
@description\n * The `ControlValueAccessor` for writing multi-select control values and listening to multi-select
control\n * changes. The value accessor is used by the `FormControlDirective`, `FormControlName`, and
`NgModel`\n * directives.\n *\n * @see `SelectControlValueAccessor`\n *\n * @usageNotes\n *\n
* ### Using a multi-select control\n *\n * The follow example shows you how to use a multi-select control
with a reactive form.\n *\n * ```ts\n * const countryControl = new FormControl();\n * ```\n *\n * ```\n
* <select multiple name=\"countries\" [formControl]=\"countryControl\">\n * <option *ngFor=\"let country of
countries\" [ngValue]=\"country\">\n * {{ country.name }}\n * </option>\n * </select>\n * ```\n *\n
* ### Customizing option selection\n *\n * To customize the default option comparison algorithm, `<select>`
supports `compareWith` input.\n * See the `SelectControlValueAccessor` for usage.\n *\n * @ngModule
ReactiveFormsModule\n * @ngModule FormsModule\n * @publicApi\n */\n var
SelectMultipleControlValueAccessor = /** @class */ (function () {\n
function
SelectMultipleControlValueAccessor(_renderer, _elementRef) {\n
this._renderer = _renderer;\n
this._elementRef = _elementRef;\n
/** @internal */\n
this._optionMap = new Map();\n
/**
@internal */\n
this._idCounter = 0;\n
/**\n
* @description\n
* The registered callback
function called when a change event occurs on the input element.\n
*/\n
this.onChange = function (_)
{ };\n
/**\n
* @description\n
* The registered callback function called when a blur event
occurs on the input element.\n
*/\n
this.onTouched = function () { };\n
this._compareWith =
core.looseIdentical;\n
}\n
Object.defineProperty(SelectMultipleControlValueAccessor.prototype,
\"compareWith\", {\n
/**\n
* @description\n
* Tracks the option comparison algorithm for
tracking identities when\n
* checking for changes.\n
*/\n
set: function (fn) {\n
if
(typeof fn !== 'function') {\n
throw new Error(\"compareWith must be a function, but received \" +
JSON.stringify(fn));\n
}\n
this._compareWith = fn;\n
},\n
enumerable: true,\n
configurable: true\n
});\n
/**\n
* @description\n
* Sets the \"value\" property on one or of more\n
* of the select's options.\n
*\n
* @param value The value\n
*/\n
SelectMultipleControlValueAccessor.prototype.writeValue = function (value) {\n
var _this = this;\n
this.value = value;\n
var optionSelectedStateSetter;\n
if (Array.isArray(value)) {\n
// convert
values to ids\n
var ids_1 = value.map(function (v) { return _this._getOptionId(v); });\n
optionSelectedStateSetter = function (opt, o) { opt._setSelected(ids_1.indexOf(o.toString()) > -1); };\n
}\n
else {\n
optionSelectedStateSetter = function (opt, o) { opt._setSelected(false); };\n
}\n
this._optionMap.forEach(optionSelectedStateSetter);\n
};\n
/**\n
* @description\n
* Registers a
function called when the control value changes\n
* and writes an array of the selected options.\n
*\n
*
@param fn The callback function\n
*/\n
SelectMultipleControlValueAccessor.prototype.registerOnChange

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this._setElementValue(value);
                }
            },
            enumerable: true,
            configurable: true
        });
        /** @internal */
        NgSelectMultipleOption.prototype._setElementValue = function (value) {
            this._renderer.setProperty(this._element.nativeElement, 'value', value);
        };
        /** @internal */
        NgSelectMultipleOption.prototype._setSelected = function (selected) {
            this._renderer.setProperty(this._element.nativeElement, 'selected', selected);
        };
        /**
         * Lifecycle method called before the directive's instance is destroyed. For internal use only.
         */
        NgSelectMultipleOption.prototype.ngOnDestroy = function () {
            if (this._select) {
                this._select._optionMap.delete(this.id);
                this._select.writeValue(this._select.value);
            }
        };
        __decorate([core.Input('ngValue'),
            __metadata("design:type", Object),
            __metadata("design:paramtypes", [Object])
        ], NgSelectMultipleOption.prototype, "ngValue", null);
        __decorate([core.Input('value'),
            __metadata("design:type", Object),
            __metadata("design:paramtypes", [Object])
        ], NgSelectMultipleOption.prototype, "value", null);
        NgSelectMultipleOption = __decorate([core.Directive({ selector: 'option' }),
            __param(2, core.Optional()), __param(2, core.Host()),
            __metadata("design:paramtypes", [core.ElementRef,
                core.Renderer2,
                SelectMultipleControlValueAccessor])
        ], NgSelectMultipleOption);
        return NgSelectMultipleOption;
    }();

    /**
     * @license
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     * Use of this source code is governed by an MIT-style license that can be found in the LICENSE file at
     * https://angular.io/license
     */
    function controlPath(name, parent) {
        return __spread(parent.path,
            [name]);
    }
    function setUpControl(control, dir) {
        if (!control)
            _throwError(dir, 'Cannot find control with');
        if (!dir.valueAccessor)
            _throwError(dir, 'No value accessor for form control with');
        control.validator = Validators.compose([control.validator, dir.validator]);
        control.asyncValidator = Validators.composeAsync([control.asyncValidator, dir.asyncValidator]);
        dir.valueAccessor.writeValue(control.value);
        setUpViewChangePipeline(control, dir);
        setUpModelChangePipeline(control, dir);
        setUpBlurPipeline(control, dir);
        if (dir.valueAccessor.setDisabledState) {
            control.registerOnDisabledChange(function (isDisabled) {
                dir.valueAccessor.setDisabledState(isDisabled);
            });
        }
        // re-run validation when validator binding changes, e.g. minlength=3 -> minlength=4
        dir._rawValidators.forEach(function (validator) {
            if (validator.registerOnValidatorChange)
                validator.registerOnValidatorChange(function () { return control.updateValueAndValidity(); });
        });
        dir._rawAsyncValidators.forEach(function (validator) {
            if (validator.registerOnValidatorChange)
                validator.registerOnValidatorChange(function () { return control.updateValueAndValidity(); });
        });
        if (control)
            control._clearChangeFns();
        dir.valueAccessor.registerOnChange(function (newValue) {
            control.setValue(newValue, { emitModelToViewChange: false });
        });
        dir.valueAccessor.registerOnTouched(function () { return _noControlError(dir); });
        dir.valueAccessor.registerOnChange(function () { return _noControlError(dir); });
        dir._rawValidators.forEach(function (validator) {
            if (validator.registerOnValidatorChange)
                validator.registerOnValidatorChange(function () { return control.updateValueAndValidity(); });
        });
        dir._rawAsyncValidators.forEach(function (validator) {
            if (validator.registerOnValidatorChange)
                validator.registerOnValidatorChange(function () { return control.updateValueAndValidity(); });
        });
        if (control)
            control._clearChangeFns();
        function setUpViewChangePipeline(control, dir) {
            dir.valueAccessor.writeValue(control.value);
            setUpdateModelChangePipeline(control, dir);
            setUpdateBlurPipeline(control, dir);
        }
        function setUpdateModelChangePipeline(control, dir) {
            dir.valueAccessor.setDisabledState(function (isDisabled) {
                control.registerOnDisabledChange(function (isDisabled) {
                    control.registerOnDisabledChange(function (isDisabled) {
                        return control.updateValueAndValidity();
                    });
                });
            });
            dir.valueAccessor.registerOnChange(function () { return _noControlError(dir); });
            dir.valueAccessor.registerOnTouched(function () { return _noControlError(dir); });
            dir._rawValidators.forEach(function (validator) {
                if (validator.registerOnValidatorChange)
                    validator.registerOnValidatorChange(function () { return control.updateValueAndValidity(); });
            });
            dir._rawAsyncValidators.forEach(function (validator) {
                if (validator.registerOnValidatorChange)
                    validator.registerOnValidatorChange(function () { return control.updateValueAndValidity(); });
            });
            if (control)
                control._clearChangeFns();
            function setUpdateBlurPipeline(control, dir) {
                control._pendingChange = true;
                if (control.updateOn === 'change')
                    control._pendingValue = new Value;
                control._pendingChange = true;
                if (control.updateOn === 'blur' && control._pendingChange)
                    control._pendingChange = true;
                if (control.updateOn !== 'submit')
                    control.markAsTouched();
                if (control._pendingChange)
                    control.markAsDirty();
                control.setValue(control._pendingValue, { emitModelToViewChange: false });
                dir.viewToModelUpdate(control._pendingValue);
                control.onPendingChange = false;
            }
            function setUpdateModelChangePipeline(control, dir) {
                control.registerOnChange(function (newValue, emitModelEvent)
function setUpFormContainer(control, dir) {
    if (control == null)
        _throwError(dir, 'Cannot find control with:');
    control.validator = Validators.compose([control.validator, dir.validator]);
    control.asyncValidator = Validators.composeAsync([control.asyncValidator, dir.asyncValidator]);
}

function _throwError(dir, message) {
    var messageEnd = 'path: "' + dir.path.join(' -> ') + '"' + '
    else if (dir.path[0]) {
        messageEnd = 'name: "' + dir.path + '"' + '
    } else {
        messageEnd = 'unspecified name attribute';
    }
    throw new Error(message + ' ' + messageEnd);
}

function composeValidators(validators) {
    return validators != null ? Validators.compose(validators.map(normalizeValidator)) : null;
}

function composeAsyncValidators(validators) {
    return validators != null ? Validators.composeAsync(validators.map(normalizeAsyncValidator)) : null;
}

function isPropertyUpdated(changes, viewModel) {
    if (!changes.hasOwnProperty('model'))
        return false;
    var change = changes['model'];
    if (change.isFirstChange())
        return true;
    return !core.looseIdentical(viewModel, change.currentValue);
}

var BUILTIN_ACCESSORS = [CheckboxControlValueAccessor, RangeValueAccessor, NumberValueAccessor, SelectControlValueAccessor, SelectMultipleControlValueAccessor, RadioControlValueAccessor];

function isBuiltInAccessor(valueAccessor) {
    return BUILTIN_ACCESSORS.some(function (a) { return valueAccessor.constructor === a; });
}

function syncPendingControls(form, directives) {
    form._syncPendingControls();
    directives.forEach(function (dir) {
        var control = dir.control;
        if (control.updateOn === 'submit' && control._pendingChange) {
            dir.viewToModelUpdate(control._pendingValue);
            control._pendingChange = false;
        }
    });
}

function selectValueAccessor(dir, valueAccessors) {
    if (!valueAccessors)
        return null;
    if (!Array.isArray(valueAccessors))
        _throwError(dir, 'Value accessor was not provided as an array for form control with:');
    var defaultAccessor = undefined;
    var builtinAccessor = undefined;
    var customAccessor = undefined;
    valueAccessors.forEach(function (v) {
        if (v.constructor === DefaultValueAccessor) {
            defaultAccessor = v;
        }
        else if (isBuiltInAccessor(v)) {
            if (builtinAccessor)
                _throwError(dir, 'More than one built-in value accessor matches form control with:');
            builtinAccessor = v;
        }
        else {
            if (customAccessor)
                _throwError(dir, 'More than one custom value accessor matches form control with:');
            customAccessor = v;
        }
    });
    if (customAccessor)
        return customAccessor;
    if (builtinAccessor)
        return builtinAccessor;
    if (defaultAccessor)
        return defaultAccessor;
    _throwError(dir, 'No valid value accessor for form control with:');
}

function removeDir(list, el) {
    var index = list.indexOf(el);
    if (index > -1)
        list.splice(index, 1);
}

function _ngModelWarning(name, type, instance, warningConfig) {
    if (!core.isDevMode() || warningConfig === 'never')
        return;
    if (((warningConfig === null || warningConfig === 'once') && !type._ngModelWarningSentOnce) ||
        (warningConfig === 'always' && !instance._ngModelWarningSent)) {
        ReactiveErrors.ngModelWarning(name);
        type._ngModelWarningSentOnce = true;
        instance._ngModelWarningSent = true;
    }
}

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 */

/**
 * Reports that a FormControl is valid, meaning that no errors exist in the input value.
 * @see `status`
 */
var VALID = 'VALID';

/**
 * Reports that a FormControl is invalid, meaning that an error exists in the input value.
 * @see `status`
 */
var INVALID = 'INVALID';

/**
 * Reports that a FormControl is pending, meaning that that async validation is occurring and errors are not yet available for the input value.
 * @see `markAsPending`
 * @see `status`
 */
var PENDING = 'PENDING';

A control is `disabled` when its `status` is `DISABLED`.

* Disabled controls are exempt from validation checks and
  * are not included in the aggregate value of their ancestor
  * controls.

* A control is `disabled` as long as its `status` is not `DISABLED`.

* false if the status is `DISABLED`.

* returns True if the control has any status other than `DISABLED`.

* `markAsTouched()`

* Possible values: `change` | `blur` | `submit`

* Default value: `false`

* get: function () { return this.pristine; };

* enumerable: true;

* `updateOn`

* Reports the update strategy of the `AbstractControl` (meaning
  * the event on which the control updates itself).

* Programmatic changes to a control's value do not mark it

* dirty.

* return: function () { return !this.pristine; };

* enumerable: true;

* `updateOn`?

* A control is `dirty` if the user has changed the value

* in the UI.

* returns True if the user has changed the value

* of this control in the UI; compare `pristine`.

* `markAsTouched()`

* `updateValueAndValidity()` for the new validation to take effect.

* when you add or remove a validator at run time, you must

* call

* `updateValueAndValidity()` for the new validation to take effect.

* Tracks disabled controls (as a list) in the AbstractControl.prototype.

* clears out the sync validator list.

* When you add or remove a validator at run time, you must call

* `updateValueAndValidity()` for the new validation to take effect.

* Empties the sync

* validator list.

* When you add or remove a validator at run time, you must call

* `updateValueAndValidity()` for the new validation to take effect.

* `clearValidators()`

* `setAsyncValidators()`

* `clearAsyncValidators()`

* Sets the synchronous validators that are active on this control.

* Sets the async validators that are active on this control.

* Marks the control as `touched`. A control is touched by focus and

* blur events that do not change the value.

* `markAsUntouched()`

* `markAsDirty()`

* `markAsPristine()`

* `markAsTouched()`

* Marks the control and all its descendant controls as `touched`.

* Marks the control as `untouched`.

* If
the control has any children, also marks all children as `untouched`. and recalcualtes the `touched` status of all parent controls. * @see `markAsTouched()` * @see `markAsDirty()` * @see `markAsPristine()` * @param opts Configuration options that determine how the control propagates changes and emits events after the marking is applied. ** onlySelf**: When true, mark only this control. When false or not supplied, * marks all direct ancestors. Default is false. * @param opts Configuration options that determine how the control propagates changes and emits events after the marking is applied. ** onlySelf**: When true, mark only this control. When false or not supplied, * marks all direct ancestors. Default is false. * @see `markAsTouched()` * @see `markAsDirty()` * @param opts Configuration options that determine how the control propagates changes and emits events after marking is applied. ** onlySelf**: When true, mark only this control. When false or not supplied, * marks all direct ancestors. Default is false. * @see `markAsTouched()` * @see `markAsDirty()` * @see `markAsPristine()` * @param opts Configuration options that determine how the control propagates changes and emits events after marking is applied. ** onlySelf**: When true, mark only this control. When false or not supplied, * marks all direct ancestors. Default is false. * @see `markAsTouched()` * @see `markAsDirty()` * @see `markAsPristine()` * @param opts Configuration options that determine how the control propagates changes and emits events after marking is applied. ** onlySelf**: When true, mark only this control. When false or not supplied, * marks all direct ancestors. Default is false. * @see `markAsTouched()` * @see `markAsDirty()` * @see `markAsPristine()` * @param opts Configuration options that determine how the control propagates changes and emits events after marking is applied. ** onlySelf**: When true, mark only this control. When false or not supplied, * marks all direct ancestors. Default is false. * @see `markAsTouched()` * @see `markAsDirty()` * @see `markAsPristine()` * @param opts Configuration options that determine how the control propagates changes and emits events after marking is applied. ** onlySelf**: When true, mark only this control. When false or not supplied, * marks all direct ancestors. Default is false.
this.statusChanges.emit(this.status);\n
}\n
this._updateAncestors(__assign(__assign({}, opts), {
skipPristineCheck: skipPristineCheck }));\n
this._onDisabledChange.forEach(function (changeFn) { return
changeFn(true); });\n
};\n
/**\n
* Enables the control. This means the control is included in validation
checks and\n
* the aggregate value of its parent. Its status recalculates based on its value and\n
* its
validators.\n
*\n
* By default, if the control has children, all children are enabled.\n
*\n
* @see
{@link AbstractControl.status}\n
*\n
* @param opts Configure options that control how the control
propagates changes and\n
* emits events when marked as untouched\n
* * `onlySelf`: When true, mark
only this control. When false or not supplied,\n
* marks all direct ancestors. Default is false..\n
**
`emitEvent`: When true or not supplied (the default), both the `statusChanges` and\n
* `valueChanges`\n
*
observables emit events with the latest status and value when the control is enabled.\n
* When false, no events
are emitted.\n
*/\n
AbstractControl.prototype.enable = function (opts) {\n
if (opts === void 0) { opts
= {}; }\n
// If parent has been marked artificially dirty we don't want to re-calculate the\n
// parent's
dirtiness based on the children.\n
var skipPristineCheck = this._parentMarkedDirty(opts.onlySelf);\n
this.status = VALID;\n
this._forEachChild(function (control) { control.enable(__assign(__assign({}, opts), {
onlySelf: true })); });\n
this.updateValueAndValidity({ onlySelf: true, emitEvent: opts.emitEvent });\n
this._updateAncestors(__assign(__assign({}, opts), { skipPristineCheck: skipPristineCheck }));\n
this._onDisabledChange.forEach(function (changeFn) { return changeFn(false); });\n
};\n
AbstractControl.prototype._updateAncestors = function (opts) {\n
if (this._parent && !opts.onlySelf) {\n
this._parent.updateValueAndValidity(opts);\n
if (!opts.skipPristineCheck) {\n
this._parent._updatePristine();\n
}\n
this._parent._updateTouched();\n
}\n
};\n
/**\n
* @param parent Sets the parent of the control\n
*/\n
AbstractControl.prototype.setParent =
function (parent) { this._parent = parent; };\n
/**\n
* Recalculates the value and validation status of the
control.\n
*\n
* By default, it also updates the value and validity of its ancestors.\n
*\n
*
@param opts Configuration options determine how the control propagates changes and emits events\n
* after
updates and validity checks are applied.\n
* * `onlySelf`: When true, only update this control. When false or
not supplied,\n
* update all direct ancestors. Default is false..\n
* * `emitEvent`: When true or not supplied
(the default), both the `statusChanges` and\n
* `valueChanges`\n
* observables emit events with the latest
status and value when the control is updated.\n
* When false, no events are emitted.\n
*/\n
AbstractControl.prototype.updateValueAndValidity = function (opts) {\n
if (opts === void 0) { opts = {}; }\n
this._setInitialStatus();\n
this._updateValue();\n
if (this.enabled) {\n
this._cancelExistingSubscription();\n
this.errors = this._runValidator();\n
this.status =
this._calculateStatus();\n
if (this.status === VALID || this.status === PENDING) {\n
this._runAsyncValidator(opts.emitEvent);\n
}\n
}\n
if (opts.emitEvent !== false) {\n
this.valueChanges.emit(this.value);\n
this.statusChanges.emit(this.status);\n
}\n
if
(this._parent && !opts.onlySelf) {\n
this._parent.updateValueAndValidity(opts);\n
}\n
};\n
/** @internal */\n
AbstractControl.prototype._updateTreeValidity = function (opts) {\n
if (opts === void
0) { opts = { emitEvent: true }; }\n
this._forEachChild(function (ctrl) { return ctrl._updateTreeValidity(opts);
});\n
this.updateValueAndValidity({ onlySelf: true, emitEvent: opts.emitEvent });\n
};\n
AbstractControl.prototype._setInitialStatus = function () {\n
this.status = this._allControlsDisabled() ?
DISABLED : VALID;\n
};\n
AbstractControl.prototype._runValidator = function () {\n
return
this.validator ? this.validator(this) : null;\n
};\n
AbstractControl.prototype._runAsyncValidator = function
(emitEvent) {\n
var _this = this;\n
if (this.asyncValidator) {\n
this.status = PENDING;\n
var obs = toObservable(this.asyncValidator(this));\n
this._asyncValidationSubscription =\n
obs.subscribe(function (errors) { return _this.setErrors(errors, { emitEvent: emitEvent }); });\n
}\n
};\n
AbstractControl.prototype._cancelExistingSubscription = function () {\n
if
(this._asyncValidationSubscription) {\n
this._asyncValidationSubscription.unsubscribe();\n
}\n
};\n
/**\n
* Sets errors on a form control when running validations manually, rather than automatically.\n
*\n
* Calling `setErrors` also updates the validity of the parent control.\n
*\n
* @usageNotes\n

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### Retrieve a nested control

For example, to get a `name` control nested within a `person` sub-control:

```javascript
const person = new FormControl();
const name = new FormControl();
const form = new FormGroup({
  person: person
});
form.addControl('name', name);

// Access `name` through `person`
const nameControl = form.get('person.name');  // Returns `name`
```

-OR-

```javascript
const person = new FormControl();
const name = new FormControl();
const form = new FormGroup({
  person: person
});

// Access `name` through `form`
const nameControl = form.get('person.name');  // Returns `name`
```

### Manually set the errors for a control

```javascript
const login = new FormControl('someLogin');
login.setValue('someOtherLogin');
expect(login.valid).toEqual(false);
EXPECT(login.errors).toEqual({ notUnique: true });
```

-OR-

```javascript
login.setErrors({
  notUnique: true
});
expect(login.valid).toEqual(false);
expect(login.errors).toEqual({ notUnique: true });
```
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```ts
AbstractControl.prototype._anyControlsDirty = function () { 
    return this._anyControls(function (control) { 
        return control.dirty; });
};

/** @internal */
AbstractControl.prototype._anyControlsTouched = function () { 
    return this._anyControls(function (control) { 
        return control.touched; });
};

/** @internal */
AbstractControl.prototype._updatePristine = function (opts) { 
    if (opts === void 0) { 
        opts = {};
    }
    this.pristine = !this._anyControlsDirty();
    if (this._parent & & !opts.onlySelf) { 
        this._parent._updatePristine(opts);
    }
};

/** @internal */
AbstractControl.prototype._updateTouched = function (opts) { 
    if (opts === void 0) { 
        opts = {};
    }
    this.touched = this._anyControlsTouched();
    if (this._parent & & !opts.onlySelf) { 
        this._parent._updateTouched(opts);
    }
};

/** @internal */
AbstractControl.prototype._isBoxedValue = function (formState) { 
    return typeof formState === 'object' & & formState !== null & & 
        Object.keys(formState).length === 2 & & 'value' in formState & & 'disabled' in formState;
};

/** @internal */
AbstractControl.prototype._registerOnCollectionChange = function () { 
    this._onCollectionChange = function (fn) { this._onCollectionChange = fn; }; 
};

/** @internal */
AbstractControl.prototype._setUpdateStrategy = function (opts) { 
    if (isOptionsObj(opts) & & opts.updateOn !== null) { 
        this._updateOn = opts.updateOn;
    }
}

/** @internal */
AbstractControl.prototype._setCurrentState = function (state, opts) { 
    if (typeof state === 'object' & & !('value' in state & & 'disabled' in state)) { 
        throw new Error('State must contain value and disabled keys.');
    }
    if (this._parent & & !opts.onlySelf) { 
        this._parent._setCurrentState(state, opts);
    }
};

/** @internal */
AbstractControl.prototype._updateValue = function (formState) { 
    var propName = 'value';
    var parentDirty = this._parent && this._parent.dirty;
    var parentOnlySelf = this._parent & & !this._parent._anyControlsDirty();
    if (parentOnlySelf) { 
        return;
    }
    if (parentDirty) { 
        this._parent._updateTouched({ onlySelf: true });
    }
    this.dirty = false;
    this.pristine = false;
    this.touched = false;
    if (this._parent && !opts.onlySelf) { 
        this._parent._updateTouched({ onlySelf: false });
    }
    if (formState !== null & & Object.keys(formState).length === 2 & & 'value' in formState & & 'disabled' in formState) { 
        this._isBoxedValue(formState);
        this._setCurrentState(formState.value, { onlySelf: true });
        this._setCurrentState(formState.disabled, { onlySelf: true });
    } else { 
        this._setCurrentState(formState, { onlySelf: true });
    }
}

/** @internal */
AbstractControl.prototype._updateValid = function (opts) { 
    if (opts === void 0) { 
        opts = { };
    }
    this.valid = false;
    this.pristine = false;
    this.touched = false;
    if (this._parent && !opts.onlySelf) { 
        this._parent._updateValid({ onlySelf: false });
    }
    if (opts.onlySelf) { 
        return;
    }
    for (var i = 0; i < this._controls.length; i++) { 
        var control = this._controls[i];
        if (control.dirty) { 
            control._updateValid({ onlySelf: true });
        }
    }
    if (this._controls.length > 0) { 
        this._updateValid();
    }
    if (this._parent && !opts.onlySelf) { 
        this._parent._updateValid({ onlySelf: false });
    }
}

/** @internal */
AbstractControl.prototype._updateOnCollectionChange = function () { 
    if (this._onCollectionChange) { 
        this._onCollectionChange();
    }
}
```

---

```ts
// AbstractControl

export class FormControl {
    constructor(options) {
        this._parent = options.parent;
        this._status = options.status;
        this._value = options.value;
        this._validators = options.validators;
        this._asyncValidators = options.asyncValidators;
        this._controls = options.controls;
        this._parentMarkedDirty = options.parentMarkedDirty;
        this._updatePristine = options.updatePristine;
        this._updateTouched = options.updateTouched;
        this._isBoxedValue = options.isBoxedValue;
        this._onCollectionChange = options.onCollectionChange;
        this._setUpdateStrategy = options.setUpdateStrategy;
    }

    // @private
    get value() { return this._value; }
    set value(value) {
        this._value = value;
        this._updateValid();
    }

    // @private
    get status() { return this._status; }
    set status(status) {
        this._status = status;
        this._updateValid();
    }

    // @private
    get validators() { return this._validators; }
    set validators(validators) {
        this._validators = validators;
        this._updateValid();
    }

    // @private
    get asyncValidators() { return this._asyncValidators; }
    set asyncValidators(asyncValidators) {
        this._asyncValidators = asyncValidators;
        this._updateValid();
    }

    // @private
    get children() { return this._controls; }
    set children(children) {
        this._controls = children;
        this._updateValid();
    }

    // @private
    get parentMarkedDirty() { return this._parentMarkedDirty; }
    set parentMarkedDirty(parentMarkedDirty) {
        this._parentMarkedDirty = parentMarkedDirty;
        this._updateValid();
    }

    // @private
    get updatePristine() { return this._updatePristine; }
    set updatePristine(updatePristine) {
        this._updatePristine = updatePristine;
        this._updateValid();
    }

    // @private
    get updateTouched() { return this._updateTouched; }
    set updateTouched(updateTouched) {
        this._updateTouched = updateTouched;
        this._updateValid();
    }

    // @private
    get isBoxedValue() { return this._isBoxedValue; }
    set isBoxedValue(isBoxedValue) {
        this._isBoxedValue = isBoxedValue;
        this._updateValid();
    }

    // @private
    get onCollectionChange() { return this._onCollectionChange; }
    set onCollectionChange(onCollectionChange) {
        this._onCollectionChange = onCollectionChange;
        this._updateValid();
    }

    // @private
    get setUpdateStrategy() { return this._setUpdateStrategy; }
    set setUpdateStrategy(setUpdateStrategy) {
        this._setUpdateStrategy = setUpdateStrategy;
        this._updateValid();
    }
}
```

---

```ts
// FormControl

export class FormControl {
    constructor(options) {
        this._parent = options.parent;
        this._status = options.status;
        this._value = options.value;
        this._validators = options.validators;
        this._asyncValidators = options.asyncValidators;
        this._controls = options.controls;
        this._parentMarkedDirty = options.parentMarkedDirty;
        this._updatePristine = options.updatePristine;
        this._updateTouched = options.updateTouched;
        this._isBoxedValue = options.isBoxedValue;
        this._onCollectionChange = options.onCollectionChange;
        this._setUpdateStrategy = options.setUpdateStrategy;
    }

    // @private
    get value() { return this._value; }
    set value(value) {
        this._value = value;
        this._updateValid();
    }

    // @private
    get status() { return this._status; }
    set status(status) {
        this._status = status;
        this._updateValid();
    }

    // @private
    get validators() { return this._validators; }
    set validators(validators) {
        this._validators = validators;
        this._updateValid();
    }

    // @private
    get asyncValidators() { return this._asyncValidators; }
    set asyncValidators(asyncValidators) {
        this._asyncValidators = asyncValidators;
        this._updateValid();
    }

    // @private
    get children() { return this._controls; }
    set children(children) {
        this._controls = children;
        this._updateValid();
    }

    // @private
    get parentMarkedDirty() { return this._parentMarkedDirty; }
    set parentMarkedDirty(parentMarkedDirty) {
        this._parentMarkedDirty = parentMarkedDirty;
        this._updateValid();
    }

    // @private
    get updatePristine() { return this._updatePristine; }
    set updatePristine(updatePristine) {
        this._updatePristine = updatePristine;
        this._updateValid();
    }

    // @private
    get updateTouched() { return this._updateTouched; }
    set updateTouched(updateTouched) {
        this._updateTouched = updateTouched;
        this._updateValid();
    }

    // @private
    get isBoxedValue() { return this._isBoxedValue; }
    set isBoxedValue(isBoxedValue) {
        this._isBoxedValue = isBoxedValue;
        this._updateValid();
    }

    // @private
    get onCollectionChange() { return this._onCollectionChange; }
    set onCollectionChange(onCollectionChange) {
        this._onCollectionChange = onCollectionChange;
        this._updateValid();
    }

    // @private
    get setUpdateStrategy() { return this._setUpdateStrategy; }
    set setUpdateStrategy(setUpdateStrategy) {
        this._setUpdateStrategy = setUpdateStrategy;
        this._updateValid();
    }
}
```
disabled state.

* @param validatorOrOpts A synchronous validator function, or an array of\n * such functions, or an `AbstractControlOptions` object that contains validation functions\n * and a validation trigger.
* @param asyncValidator A single async validator or array of async validator functions\n
function FormControl(formState, validatorOrOpts, asyncValidator) { \n    if (formState === \n        void 0) { \n        formState = null; } \n    var _this = super.call(this, coerceToValidator(validatorOrOpts),\n        coerceToAsyncValidator(asyncValidator, validatorOrOpts)) || this; \n    /** @internal */
    _this._onChange = []; \n    _this._applyFormState(formState);\n    _this._setUpdateStrategy(validatorOrOpts);\n    _this.updateValueAndValidity({ onlySelf: true, emitEvent: \n        false }); \n    _this._initObservables(); \n    return _this; } \n/**\n * Sets a new value for the form control.
* @param value The new value for the control.\n* @param options\n    Configuration options that determine how the control propagates changes and emits events when the value changes.
* The configuration options are passed to the `@link AbstractControl#updateValueAndValidity` method.
* @param `updateValueAndValidity` method.
* @param `onlySelf`: When true, each change only affects this control, and not its parent. Default is `false`.
* `emitEvent`: When true or not supplied (the default), both the `statusChanges` and `valueChanges` observables emit events with the latest status and value when the control value is updated.\n* When false, no events are emitted.\n* `emitModelToViewChange`: When true or not supplied (the default), each change triggers an `onChange` event to the `view`.
* `emitViewToModelChange`: When true or not supplied (the default), each change triggers an `ngModelChange` event to update the model.
* `ngModelChange`: A single event to update the model,\n* `ngModelChange` event to update the model.
* `onlySelf`: When true, each change only affects this control,\n* `onlySelf`: When true, each change only affects this control, and not its parent. Default is `false`.
* `emitEvent`: When true or not supplied (the default), both the `statusChanges` and `valueChanges` observables emit events with the latest status and value when the control value is updated.

When false, no events are emitted.\n* `emitModelToViewChange`: When true or not supplied (the default), each change triggers an `onChange` event to the `view`.
* `emitViewToModelChange`: When true or not supplied (the default), each change triggers an `ngModelChange` event to update the model.

This function is functionally the same as `@link FormControl#setValue` set value set at this level.\n* It exists for symmetry with `@link FormGroup#patchValue patchValue` on `FormGroups` and `FormArrays`, where it does behave differently.
* `valueChanges`\n* `valueChanges`\n* observables emit events with the latest status and value when the control is reset.\n* When false, no events are emitted.\n* `emitModelToViewChange`: When true or not supplied (the default), each change triggers an `onChange` event to the `view`.
* `emitViewToModelChange`: When true or not supplied (the default), each change triggers an `ngModelChange` event to update the model.

When false, no events are emitted.\n* `emitModelToViewChange`: When true or not supplied (the default), each change triggers an `onChange` event to the `view`.
* `emitViewToModelChange`: When true or not supplied (the default), each change triggers an `ngModelChange` event to update the model.

When false, no events are emitted.\n* `emitModelToViewChange`: When true or not supplied (the default), each change triggers an `onChange` event to the `view`.
* `emitViewToModelChange`: When true or not supplied (the default), each change triggers an `ngModelChange` event to update the model.
FormControl.prototype.registerOnDisabledChange = function (fn) {\n
this._onDisabledChange.push(fn);\n
};\n
/**\n
* @internal\n
*/\n
FormControl.prototype._forEachChild = function (cb) { };\n
/** @internal */\n
FormControl.prototype._syncPendingControls = function () {\n
if (this.updateOn ===
'submit') {\n
if (this._pendingDirty)\n
this.markAsDirty();\n
if
(this._pendingTouched)\n
this.markAsTouched();\n
if (this._pendingChange) {\n
this.setValue(this._pendingValue, { onlySelf: true, emitModelToViewChange: false });\n
return true;\n
}\n
}\n
return false;\n
};\n
FormControl.prototype._applyFormState = function
(formState) {\n
if (this._isBoxedValue(formState)) {\n
this.value = this._pendingValue =
formState.value;\n
formState.disabled ? this.disable({ onlySelf: true, emitEvent: false }) :\n
this.enable({ onlySelf: true, emitEvent: false });\n
}\n
else {\n
this.value =
this._pendingValue = formState;\n
}\n
};\n
return FormControl;\n }(AbstractControl));\n /**\n
* Tracks the value and validity state of a group of `FormControl` instances.\n *\n * A `FormGroup` aggregates
the values of each child `FormControl` into one object,\n * with each control name as the key. It calculates its
status by reducing the status values\n * of its children. For example, if one of the controls in a group is invalid, the
entire\n * group becomes invalid.\n *\n * `FormGroup` is one of the three fundamental building blocks used
to define forms in Angular,\n * along with `FormControl` and `FormArray`.\n *\n * When instantiating a
`FormGroup`, pass in a collection of child controls as the first\n * argument. The key for each child registers the
name for the control.\n *\n * @usageNotes\n *\n * ### Create a form group with 2 controls\n *\n *
```\n * const form = new FormGroup({\n * first: new FormControl('Nancy', Validators.minLength(2)),\n *
last: new FormControl('Drew'),\n * });\n *\n * console.log(form.value); // {first: 'Nancy', last; 'Drew'}\n *
console.log(form.status); // 'VALID'\n * ```\n *\n * ### Create a form group with a group-level validator\n
*\n * You include group-level validators as the second arg, or group-level async\n * validators as the third arg.
These come in handy when you want to perform validation\n * that considers the value of more than one child
control.\n *\n * ```\n * const form = new FormGroup({\n * password: new FormControl('',
Validators.minLength(2)),\n * passwordConfirm: new FormControl('', Validators.minLength(2)),\n * },
passwordMatchValidator);\n *\n *\n * function passwordMatchValidator(g: FormGroup) {\n * return
g.get('password').value === g.get('passwordConfirm').value\n *
? null : {'mismatch': true};\n * }\n * ```\n
*\n * Like `FormControl` instances, you choose to pass in\n * validators and async validators as part of an
options object.\n *\n * ```\n * const form = new FormGroup({\n * password: new FormControl('')\n *
passwordConfirm: new FormControl('')\n * }, { validators: passwordMatchValidator, asyncValidators:
otherValidator });\n * ```\n *\n * ### Set the updateOn property for all controls in a form group\n *\n *
The options object is used to set a default value for each child\n * control's `updateOn` property. If you set
`updateOn` to `'blur'` at the\n * group level, all child controls default to 'blur', unless the child\n * has explicitly
specified a different `updateOn` value.\n *\n * ```ts\n * const c = new FormGroup({\n * one: new
FormControl()\n * }, { updateOn: 'blur' });\n * ```\n *\n * @publicApi\n */\n var FormGroup = /**
@class */ (function (_super) {\n
__extends(FormGroup, _super);\n
/**\n
* Creates a new `FormGroup`
instance.\n
*\n
* @param controls A collection of child controls. The key for each child is the name\n
*
under which it is registered.\n
*\n
* @param validatorOrOpts A synchronous validator function, or an array
of\n
* such functions, or an `AbstractControlOptions` object that contains validation functions\n
* and a
validation trigger.\n
*\n
* @param asyncValidator A single async validator or array of async validator
functions\n
*\n
*/\n
function FormGroup(controls, validatorOrOpts, asyncValidator) {\n
var
_this = _super.call(this, coerceToValidator(validatorOrOpts), coerceToAsyncValidator(asyncValidator,
validatorOrOpts)) || this;\n
_this.controls = controls;\n
_this._initObservables();\n
_this._setUpdateStrategy(validatorOrOpts);\n
_this._setUpControls();\n
_this.updateValueAndValidity({ onlySelf: true, emitEvent: false });\n
return _this;\n
}\n
/**\n
*
Registers a control with the group's list of controls.\n
*\n
* This method does not update the value or
validity of the control.\n
* Use {@link FormGroup#addControl addControl} instead.\n
*\n
* @param
name The control name to register in the collection\n
* @param control Provides the control for the given

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FormGroup.prototype.setValue = function (value, options) {
  var _this = this;
  if (options === void 0) { options = {}; }
  this._checkAllValuesPresent(value);
  Object.keys(value).forEach(function (name) {
    _this._throwIfControlMissing(name);
    _this.controls[name].setValue(value[name], {
      onlySelf: true, emitEvent: options.emitEvent });
    delete (this.controls[name]);
  });
  this.updateValueAndValidity();
};
/**
 * Sets the value of the `FormGroup`. It accepts an object that matches the
 * structure of the group, with control names as keys.
 * @param value The new value
 * @param options Configuration options that determine how the control
 * propagates changes and emits events after the value changes.
 * The configuration options are passed to the `updateValueAndValidity`
 * method.
 * @returns `false` when strict checks fail, such as setting the value of a control
 * that doesn't exist or if you exclude a value of a control that does exist.
 * @param value The new value for the control that matches the structure of the group.
 * @param options Configuration options that determine how the control
 * propagates changes and emits events after the value changes.
 * @returns `false` when strict checks fail, such as setting the value of a control
 * that doesn't exist or if you exclude a value of a control that does exist.
 * @param value The new value for the control that matches the structure of the group.
 * @param options Configuration options that determine how the control
 * propagates changes and emits events after the value changes.
 * @returns `false` when strict checks fail, such as setting the value of a control
 * that doesn't exist or if you exclude a value of a control that does exist.
after the value is patched.
* `onlySelf`: When true, each change only affects this control and not its parent.
Default is `true`.
* `emitEvent`: When true or not supplied (the default), both the `statusChanges` and `valueChanges` observables emit events with the latest status and value when the control value is updated.
When false, no events are emitted.
The configuration options are passed to the `updateValueAndValidity` method.

```javascript
FormGroup.prototype.patchValue = function (value, options) {
    var _this = this;
    if (options === void 0) { options = {};
        Object.keys(value).forEach(function (name) {
            if (_this.controls[name]) {
                _this.controls[name].patchValue(value[name], { onlySelf: true, emitEvent: options.emitEvent });
            }
        }
    });
    if (subtreeUpdated) {
        this.updateValueAndValidity({ onlySelf: true, emitEvent: options.emitEvent });
    }
};
```

[...other code...]
FormArray is one of the three fundamental building blocks used to define forms in Angular, along with 'FormControl' and 'FormGroup'.

You include array-level validators and async validators. These come in handy when you want to perform validation that considers the value of more than one child control.

The two types of validators are

- Array-level validators
- Async validators

To change the controls in the array, use the `push`, `insert`, `removeAt`, `clear` methods in `FormArray` itself. These methods ensure the controls are properly tracked in the form's hierarchy. Do not modify the array of `AbstractControl`s used to instantiate the `FormArray`, as that result in strange and unexpected behavior such as broken change detection.

Do not modify the array of `AbstractControl`s used to instantiate the `FormArray`, as that result in strange and unexpected behavior such as broken change detection.

If one of the controls in a `FormArray` is invalid, the entire array becomes invalid.

For example, if one of the controls in a `FormArray` is invalid, the entire array becomes invalid.
```typescript
@param asyncValidator A single async validator or array of async validator functions
          */
function FormArray(controls, validatorOrOpts, asyncValidator) {
            var _this = _super.call(this,
                coerceToValidator(validatorOrOpts), coerceToAsyncValidator(asyncValidator, validatorOrOpts));
            //
            this._controls = controls;
            this._initObservables();
            this._setUpControls();
            this.updateValueAndValidity({
                onlySelf: true,
                emitEvent: false
            });
            return _this;
        }
        /**
         * Get the `AbstractControl` at the given `index` in the array.
         * @param index Index in the array to retrieve the control
         * @type {FormArray.prototype.at = function (index) {
             return this.controls[index]; }}
        */
        this.controls = controls;
        this._initObservables();
        this._setUpdateStrategy(validatorOrOpts);
        this._setUpControls();
        this.updateValueAndValidity();
        this._onCollectionChange();
        return _this;
    }
    /**
     * The configuration options are passed to the `AbstractControl#updateValueAndValidity`
     * method.
     * @param options Configure options that determine how the control propagates
     * changes and emits events after the value changes
     */
    updateValueAndValidity(options) {
        var _this = this;
        if (options === void 0) { options = {};
            this._checkAllValuesPresent(options);
            return this;
        }
        value.forEach(function (newValue, index) {
            _this._throwIfControlMissing(index);
            _this.at(index).setValue(newValue, { onlySelf: true, emitEvent: options.emitEvent });
        });
        this.updateValueAndValidity();
        this._onCollectionChange();
        options = function (function () { });
        this.controls = controls;
        this._initObservables();
        this._setUpdateStrategy(validatorOrOpts);
        this._setUpControls();
        this.updateValueAndValidity({
            onlySelf: true,
            emitEvent: false
        });
        return _this;
    }
    /**
     * Replace an existing control.
     * @param index Index in the array to replace the control
     * @param control The `AbstractControl` control to replace the existing control
     */
    setControl(index, control) {
        if (this.controls[index])
            this.controls.splice(index, 1);
        if (control)
            this.controls.splice(index, 0, control);
        this._registerControl(control);
        this.updateValueAndValidity();
    }
    /**
     * Remove the control at the given `index` in the array.
     * @param index Index in the array to remove the control
     */
    removeAt(index) {
        if (this.controls[index])
            this.controls.splice(index, 1);
        this._registerControl(control);
        this.updateValueAndValidity();
    }
    /**
     * Insert a new `AbstractControl` at the given `index` in the array.
     * @param index Index in the array to insert the control
     * @param control Form control to be inserted
     */
    insert(index, control) {
        this.controls.push(control);
        this._registerControl(control);
        this.updateValueAndValidity();
    }
    /**
     * Insert a new `AbstractControl` at the end of the array.
     * @param control Form control to be inserted
     */
    push(control) {
        this.controls.push(control);
        this._registerControl(control);
        this.updateValueAndValidity();
    }
    /**
     * Get the `AbstractControl` at the given `index` in the array.
     * @param index Index in the array to retrieve the control
     */
    at(index) {
        return this.controls[index];
    }
    /**
     * Linear search for a control in the array.
     * @param control The `AbstractControl` control to find
     * @returns {boolean} True if the control is found, false otherwise
     */
    forEach(function (newValue, index) {
        _this._throwIfControlMissing(index);
        _this.at(index).setValue(newValue, { onlySelf: true, emitEvent: options.emitEvent });
    });
    this.updateValueAndValidity(validatorOrOpts, asyncValidator) || this;
}
```

```javascript
function () {
    var subtreeUpdated = this.controls.reduce(function (updated, child) {
        return child.updateValueAndValidity();
    };
    /** @internal */
    FormArray.prototype._syncPendingControls = function () {
        this._forEachChild(function (control) {
            control._registerOnCollectionChange(function () { });
        });
        this.controls.splice(0);
    };
    this.controls.forEach(function (child) {
        if (child._isPristine || child._isTouched)
            subtreeUpdated = true;
        child.updateValueAndValidity();
    });
    this.updateValueAndValidity();
}
/*
 * The aggregate value of the array, including any
 * ems events after the value change
 * @param value Array of latest values for the
 * controls
 * @param options Configure options that determine how the control propagates changes and
 * emits events after the value changes
 * *onlySelf*: When true, each change only affects this
 * control, and not its parent. Default is false.
 * *emitEvent*: When true or not supplied (the default), both the `statusChanges` and
 * `valueChanges` observables emit events with the latest status and value when the control value is updated.
 * When false, no events are emitted.
 * The configuration options are passed to the `FormArray.prototype.patchValue` function, (value, options) {
 * var _this = this;
 * if (options === void 0) { options = {}; }
 * value.forEach(function (newValue, index) {
 *     if (_this.at(index)) {
 *         _this.at(index).patchValue(newValue, { onlySelf: true, emitEvent: options.emitEvent });
 *     }
 * });
 * this.updateValueAndValidity(options);
 * }
 */
FormArray.prototype.patchValue = function (value, options) {
    var _this = this;
    if (options === void 0) { options = {}; }
    value.forEach(function (newValue, index) {
        if (_this.at(index)) {
            _this.at(index).patchValue(newValue, { onlySelf: true, emitEvent: options.emitEvent });
        }
    });
    this.updateValueAndValidity(options);
}
/*
 * Resets the `FormArray` and all descendants are marked `pristine` and `untouched`, and the
 * value of all descendants to null or null maps.
 * * You reset to a specific form state by passing in an array of
 * states that matches the structure of the control. The state is a standalone value or a form state object with both a value and a disabled status.
 * * @usageNotes
 * ## Reset the values in a form array
 * * `const arr = new FormArray([new FormControl(), new FormControl(), new FormControl()]);
 *   arr.reset();
 * ```
 *   console.log(arr.value);  // null
 *   console.log(arr.status);  // [null, null, null]
 * ```
 *   console.log(arr.value);  // ['Nancy', null, null]
 *   arr.reset(["Nancy", "last name"]);
 *   console.log(arr.value);  // ['Nancy', 'last name', null]
 * ```
 * * @param value Array of latest values for the
 * controls
 * @param options Configure options that determine how the control propagates changes and
 * emits events after the value changes
 * *onlySelf*: When true, each change only affects this
 * control, and not its parent. Default is false.
 * *emitEvent*: When true or not supplied (the default), both the `statusChanges` and
 * `valueChanges` observables emit events with the latest status and value when the control is reset.
 * When false, no events are emitted.
 * The configuration options are passed to the `FormArray.prototype.reset` function, (value, options) {
 * if (value === void 0) { value = []; }
 * this.controls.reset(value[index], { onlySelf: true, emitEvent: options.emitEvent });
 * }
 * this._updatePristine(options);
 * this._updateTouched(options);
 * this.updateValueAndValidity(options);
 */
FormArray.prototype.reset = function (value, options) {
    if (value === void 0) { value = []; }
    this.controls.forEach(function (control, index) {
        if (control instanceof FormControl)
            control.reset(value[index], { onlySelf: true, emitEvent: options.emitEvent });
    });
    this._updatePristine(options);
    this._updateTouched(options);
    this.updateValueAndValidity(options);
}
/*
 * Remove all controls in the `FormArray`.
 * * @usageNotes
 * ## Remove all elements from a
 * FormArray
 * * const arr = new FormArray([new FormControl(), new FormControl()]);
 * ```
 *   arr.removeAt(0);
 *   console.log(arr.value);  // ['Nancy', 'last name', null]
 * ```
 * * It's a simpler and more efficient alternative to removing
 * all elements one by one:
 * ```
 *   const arr = new FormArray([new FormControl(), new FormControl()]);
 *   arr.removeAt(0);
 *   console.log(arr.value);  // ['Nancy', 'last name', null]
 * ```
 * @param value Array of latest values for the
 * controls
 * @param options Configure options that determine how the control propagates changes and
 * emits events after the value changes
 * *onlySelf*: When true, each change only affects this
 * control, and not its parent. Default is false.
 * *emitEvent*: When true or not supplied (the default), both the `statusChanges` and
 * `valueChanges` observables emit events with the latest status and value when the control value is updated.
 * When false, no events are emitted.
 * The configuration options are passed to the `FormArray.prototype.patchValue` function, (value, options) {
 * var _this = this;
 * if (options === void 0) { options = {}; }
 * value.forEach(function (newValue, index) {
 *     if (_this.at(index)) {
 *         _this.at(index).patchValue(newValue, { onlySelf: true, emitEvent: options.emitEvent });
 *     }
 * });
 * this.updateValueAndValidity(options);
 * }
 */
FormArray.prototype.patchValue = function (value, options) {
    var _this = this;
    if (options === void 0) { options = {}; }
    value.forEach(function (newValue, index) {
        if (_this.at(index)) {
            _this.at(index).patchValue(newValue, { onlySelf: true, emitEvent: options.emitEvent });
        }
    });
    this.updateValueAndValidity(options);
}
/*
 * Remove all controls in the `FormArray`.
 * * @usageNotes
 * ## Remove all elements from a
 * FormArray
 * * const arr = new FormArray([new FormControl(), new FormControl()]);
 * ```
 *   arr.removeAt(0);
 *   console.log(arr.value);  // ['Nancy', 'last name', null]
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 * * It's a simpler and more efficient alternative to removing
 * all elements one by one:
 * ```
 *   const arr = new FormArray([new FormControl(), new FormControl()]);
 *   arr.removeAt(0);
 *   console.log(arr.value);  // ['Nancy', 'last name', null]
 * ```
 * @param value Array of latest values for the
 * controls
 * @param options Configure options that determine how the control propagates changes and
 * emits events after the value changes
 * *onlySelf*: When true, each change only affects this
 * control, and not its parent. Default is false.
 * *emitEvent*: When true or not supplied (the default), both the `statusChanges` and
 * `valueChanges` observables emit events with the latest status and value when the control value is updated.
 * When false, no events are emitted.
 * The configuration options are passed to the `FormArray.prototype.reset` function, (value, options) {
 * if (value === void 0) { value = []; }
 * this.controls.reset(value[index], { onlySelf: true, emitEvent: options.emitEvent });
 * }
 * this._updatePristine(options);
 * this._updateTouched(options);
 * this.updateValueAndValidity(options);
 */
FormArray.prototype.reset = function (value, options) {
    if (value === void 0) { value = []; }
    this.controls.forEach(function (control, index) {
        if (control instanceof FormControl)
            control.reset(value[index], { onlySelf: true, emitEvent: options.emitEvent });
    });
    this._updatePristine(options);
    this._updateTouched(options);
    this.updateValueAndValidity(options);
}
/*
 * Remove all controls in the `FormArray`.
 * * @usageNotes
 * ## Remove all elements from a
 * FormArray
 * * const arr = new FormArray([new FormControl(), new FormControl()]);
 * ```
 *   arr.removeAt(0);
 *   console.log(arr.value);  // ['Nancy', 'last name', null]
 * ```
 * * It's a simpler and more efficient alternative to removing
 * all elements one by one:
 * ```
 *   const arr = new FormArray([new FormControl(), new FormControl()]);
 *   arr.removeAt(0);
 *   console.log(arr.value);  // ['Nancy', 'last name', null]
 * ```
 * @param value Array of latest values for the
 * controls
 * @param options Configure options that determine how the control propagates changes and
 * emits events after the value changes
 * *onlySelf*: When true, each change only affects this
 * control, and not its parent. Default is false.
 * *emitEvent*: When true or not supplied (the default), both the `statusChanges` and
 * `valueChanges` observables emit events with the latest status and value when the control value is updated.
 * When false, no events are emitted.
 * The configuration options are passed to the `FormArray.prototype.reset` function, (value, options) {
 * if (value === void 0) { value = []; }
 * this.controls.reset(value[index], { onlySelf: true, emitEvent: options.emitEvent });
 * }
 * this._updatePristine(options);
 * this._updateTouched(options);
 * this.updateValueAndValidity(options);
 */
FormArray.prototype.reset = function (value, options) {
    if (value === void 0) { value = []; }
    this.controls.forEach(function (control, index) {
        if (control instanceof FormControl)
            control.reset(value[index], { onlySelf: true, emitEvent: options.emitEvent });
    });
    this._updatePristine(options);
    this._updateTouched(options);
    this.updateValueAndValidity(options);
}
```

---

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---
The following example shows you how to change the "updateOn" option from its default using forms.

### Setting the update options

```html
<form [ngFormOptions]="{updateOn: 'blur'}">
    <input
</form>
```

The following example shows how to capture the form values from the "ngSubmit" event.

```typescript
@usageNotes

### Listening for form submission

The following example shows how to capture the form values from the "ngSubmit" event.

```typescript
FormArray.prototype._setUpControls = function () {
    var _this = this;
    this._forEachChild(function (control, index) {
        _this._registerControl(control);
    });
}
```

You don't need to add a special selector. You optionally export the directive into a local template variable using 'ngForm' as the key.

```typescript
FormArray.prototype._anyControls = function (condition) {
    return this.controls.some(function (control) { return control.enabled || condition(control); });
}
```

You may want to check next tick (e.g. use setTimeout).

```typescript
FormArray.prototype._checkAllValuesPresent = function (value) {
    return this.controls.filter(function (control) { return control.enabled && condition(control); }).length > 0;
}
```

As you import the 'FormsModule', this directive becomes active by default on all `<form>` tags. You don't need to add a special selector.

```typescript
FormArray.prototype._setUpControls = function () {
    var _this = this;
    this._forEachChild(function (control) { return _this._registerControl(control); });
}
```

Please refer to the LICENSE file for more details.
name="\"one\" ngModel> <!-- this ngModel will update on blur -->
* </form>

* In order to prevent the native DOM validation UI from interfering with Angular's form validation, you can add the `ngNativeValidate` attribute to the `<form>` element.

* `FormModule` or `ReactiveFormsModule` are imported into the application.

* If you want to explicitly enable native DOM validation UI with Angular forms, you can add the `ngNativeValidate` attribute to the `<form>` element.

* `FormModule` or `ReactiveFormsModule` are imported into the application.

* In order to prevent the native DOM form validation UI from interfering with Angular's form validation, you can add the `ngNativeValidate` attribute to the `<form>` element.

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* In order to prevent the native DOM form validation UI from interfering with Angular's form validation, you can add the `ngNativeValidate` attribute to the `<form>` element.
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```
if (container) {
    container.removeControl(dir.name);
}

/**
 * @description
 * Retrieves the `FormGroup` for a provided `NgModelGroup` directive instance.
 */
NgForm.prototype.getFormGroup = function (dir) {
    return this.form.get(dir.path);
};

/**
 * @param dir The `NgModelGroup` directive instance.
 */
NgForm.prototype.getFormGroup = function (dir) {
    return this.form.get(dir.path);
}

/**
 * @description
 * Sets the new value for the provided `NgControl` directive instance.
 */
NgForm.prototype.setValue = function (dir, value) {
    var ctrl = this.form.get(dir.path);
    ctrl.setValue(value);
};

/**
 * @description
 * Triggers the `ngSubmit` emitter to emit the `\"submit\"` event as its payload.
 */
NgForm.prototype.onSubmit = function ($event) {
    this.submitted = true;
    syncPendingControls(this.form, this._directives);
    this.ngSubmit.emit($event);
    return false;
};

/**
 * @description
 * Resets the form to an initial value and resets its submitted status.
 */
NgForm.prototype.resetForm = function (value) {
    if (value === void 0) { value = undefined; }
    this.form.reset(value);
    this.submitted = false;
};

AbstractFormGroupDirective = /** @class */ (function (_super) {
    __extends(AbstractFormGroupDirective, _super);
    function AbstractFormGroupDirective() {
        return _super !== null && _super.apply(this, arguments) || this;
    }
    /**
     * @description
     * An internal callback method triggered on the instance after the inputs are set.
     * Registers the group with its parent group.
     */
    AbstractFormGroupDirective.prototype.ngOnInit = function () {
        this._checkParentType();
        this.formDirective.addFormGroup(this);
    };
    /**
     * @description
     * An internal callback method triggered before the instance is destroyed.
     * Removes the group from its parent group.
     */
    AbstractFormGroupDirective.prototype.ngOnDestroy = function () {
        if (this.formDirective)
            this.formDirective.removeFormGroup(this);
    };
    Object.defineProperty(AbstractFormGroupDirective.prototype, "control", {
        /**
         * @description
         * The `FormGroup` bound to this directive.
         */
        get: function () { return this.formDirective.getFormGroup(this); },
        enumerable: true,
        configurable: true
    });
    Object.defineProperty(AbstractFormGroupDirective.prototype, "path", {
        /**
         * @description
         * The path to this group from the top-level directive.
         */
        get: function () { return
    

```
controlPath(this.name == null ? this.name : this.name.toString(), this._parent);
            enumerable: true, configurable: true, get: function () { return this._parent ? this._parent.formDirective : null; });

Object.defineProperty(AbstractFormGroupDirective.prototype, "validator", {
    get: function () { return composeValidators(this._validators); },
    enumerable: true,
    configurable: true
});

Object.defineProperty(AbstractFormGroupDirective.prototype, "asyncValidator", {
    get: function () {
        return composeAsyncValidators(this._asyncValidators);
    },
    enumerable: true,
    configurable: true
});

/** @internal */
AbstractFormGroupDirective.prototype._checkParentType = function () {};
return AbstractFormGroupDirective;

/**
 * @license
 * Copyright Google Inc. All Rights Reserved.
 *
 * Use of this source code is governed by an MIT-style license that can be found in the LICENSE file at https://angular.io/license
 */
var TemplateDrivenErrors = /** @class */ (function () {
    function TemplateDrivenErrors() {
    }
    TemplateDrivenErrors.formGroupNameException = function () {
        throw new Error("ngModel cannot be used to register form controls with a parent formGroupName or formArrayName directive.\n\n      Option 1: Use formControlName instead of ngModel (reactive strategy):\n\n      " + FormErrorExamples.formGroupName + "\n\n      Option 2: Use a regular form tag instead of the formGroup directive (template-driven strategy):\n\n      " + FormErrorExamples.ngModelGroup);
    }
    TemplateDrivenErrors.missingNameException = function () {
        throw new Error("If ngModel is used within a form tag, either the name attribute must be set or the form control must be defined as 'standalone' in ngModelOptions.\n\nExample 1: <input [(ngModel)]="person.firstName" name="first">\nExample 2: <input [(ngModel)]="person.firstName" [ngModelOptions]="{standalone: true}" [ngModelGroup= HonestModel];
    }
    TemplateDrivenErrors.modelGroupParentException = function () {
        throw new Error("ngModelGroup cannot be used with a parent formGroup directive.\n\n      Option 1: Use formGroupName instead of ngModelGroup (reactive strategy):\n\n      " + FormErrorExamples.formGroupName + "\n\n      Option 2: Use a regular form tag instead of the formGroup directive (template-driven strategy):\n\n      " + FormErrorExamples.ngModelGroup);
    }
    return TemplateDrivenErrors;
}());

/**
 * @license
 * Copyright Google Inc. All Rights Reserved.
 *
 * Use of this source code is governed by an MIT-style license that can be found in the LICENSE file at https://angular.io/license
 */
var modelGroupProvider = {
    provide: ControlContainer,
    useExisting: core.forwardRef(function () { return NgModelGroup; })
};
```
__extends(NgModelGroup, _super);
function NgModelGroup(parent, validators, asyncValidators) {
    var _this = _super.call(this) || this;
    _this._parent = parent;
    _this._validators = validators;
    _this._asyncValidators = asyncValidators;
    return _this;
}
NgModelGroup.prototype._checkParentType = function () {
    if (!(this._parent instanceof NgModelGroup) &
        !(this._parent instanceof NgForm)) {
        TemplateDrivenErrors.modelGroupParentException();
    }
}
var NgModelGroup_1;

/** @internal */
NgModelGroup.prototype._checkParentType = function () {
    if (!(this._parent instanceof NgModelGroup) &
        !(this._parent instanceof NgForm)) {
        TemplateDrivenErrors.modelGroupParentException();
    }
}

/**
 * @license
 * Copyright Google Inc. All Rights Reserved.
 *
 * Use of this source code is governed by an MIT-style license that can be
 * found in the LICENSE file at https://angular.io/license
 */
formControlBinding = {
    provide: NgControl,
    useExisting: core.forwardRef(function () { return NgModel; })
};

```

forms/ts/simpleForm/simple_form_example.ts region='Component'}

* @Input * `ngModel` for the form control.

```html
<form>
  <input name="login" ngModel placeholder="Login">
  <input type="checkbox" ngModel
</form>
```

### Setting the `ngModel` name attribute through options

```html
<input name="login" ngModel [ngModelOptions]="{standalone: true}">
```

### Using a standalone `ngModel` within a group

```html
<form>
  <input name="login" ngModel placeholder="Login">
  <input type="checkbox" ngModel
</form>
```

### Using a standalone `ngModel` within a form

```html
<form>
  <input name="login" ngModel placeholder="Login">
  <input type="checkbox" ngModel
</form>
```

### Using a standalone `ngModel` within a group

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```html
<form>
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  <input type="checkbox" ngModel
</form>
```

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```html
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```

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```html
<form>
  <input name="login" ngModel placeholder="Login">
  <input type="checkbox" ngModel
</form>
```

### Setting the `ngModel` name attribute through options

```html
<input name="login" ngModel [ngModelOptions]="{standalone: true}">
```

### Using a standalone `ngModel` within a group

```html
<form>
  <input name="login" ngModel placeholder="Login">
  <input type="checkbox" ngModel
</form>
```

### Setting the `ngModel` name attribute through options

```html
<input name="login" ngModel [ngModelOptions]="{standalone: true}">
```

### Using a standalone `ngModel` within a group

```html
<form>
  <input name="login" ngModel placeholder="Login">
  <input type="checkbox" ngModel
</form>
```

### Setting the `ngModel` name attribute through options

```html
<input name="login" ngModel [ngModelOptions]="{standalone: true}">
```
this.options.standalone); 
];
NgModel.prototype._setUpStandalone = function () {
    setUpControl(this.control, this);
    this.control.updateValueAndValidity({ emitEvent: false });
};
NgModel.prototype._checkForErrors = function () {
    if (!this.isStandalone()) {
        this._checkParentType();
        this._checkName();
    }
    else {
        NgModel.prototype._checkParentType = function () {
            if (this._parent instanceof NgModelGroup) {
                TemplateDrivenErrors.formGroupNameException();
            }
            else if (this._parent instanceof AbstractFormGroupDirective) {
                TemplateDrivenErrors.modelParentException();
            }
        };
        NgModel.prototype._checkName = function () {
            if (this.options && this.options.name)
                this.name = this.options.name;
            if (!this._isStandalone() && !this.name) {
                TemplateDrivenErrors.missingNameException();
            }
        };
        NgModel.prototype._updateValue = function (value) {
            var _this = this;
            resolvedPromise$1.then(function () { _this.control.setValue(value, { emitViewToModelChange: false }); });
        };
        NgModel.prototype._updateDisabled = function (changes) {
            var _this = this;
            var resolvedPromise$1.then(function () { _this.control.disabled ? _this.control.disable() : _this.control.enable(); });
        };
        __decorate([
            core.Input(),
            __metadata("design:type", String)
        ], NgModel.prototype, "name", void 0);
        __decorate([
            core.Input('disabled'),
            __metadata("design:type", Boolean)
        ], NgModel.prototype, "isDisabled", void 0);
        __decorate([
            core.Input('ngModel'),
            __metadata("design:type", Object)
        ], NgModel.prototype, "model", void 0);
        __decorate([
            core.Input('ngModelOptions'),
            __metadata("design:type", Object)
        ], NgModel.prototype, "options", void 0);
        __decorate([
            core.Output('ngModelChange'),
            __metadata("design:type", Object)
        ], NgModel.prototype, "update", void 0);
        NgModel = __decorate([
            core.Directive({
                selector: '[ngModel]:not([formControlName]):not([formControl])',
                providers: [formControlBinding]
            }),
            core.Optional(),
            __param(0, core.Optional()),
            __param(0, core.Host()),
            __param(1, core.Optional()),
            __param(1, core.Self()),
            __param(1, core.Inject(NG_VALIDATORS)),
            __param(2, core.Optional()),
            __param(2, core.Self()),
            __param(2, core.Inject(NG_ASYNC_VALIDATORS)),
            __param(3, core.Optional()),
            __param(3, core.Self()),
            __param(3, core.Inject(NG_VALUE_ACCESSOR)),
            __metadata("design:paramtypes", 
                [ControlContainer,
                Array,
                Array, Array]),
                [NgModel]),
                return NgModel;
        ]); return NgModel; /*@license */
    }
};

/**
 * @license
 * Copyright Google Inc. All Rights Reserved.
 *
 * Use of this source code is governed by an MIT-style license that can be found
 * in the LICENSE file at https://angular.io/license
 */
/**
 * @description
 *
 * Adds `novalidate` attribute to all forms by default.
 *
 * If you want to use native validation with Angular forms, just add `ngNativeValidate` attribute:
 *
 * ```
 * <form ngNativeValidate></form>
 * ```
 *
 * @publicApi
 * @ngModule ReactiveFormsModule
 * @ngModule FormsModule
 */
var NgNoValidate = /** @class */ (function () {
    function NgNoValidate() {
    }
    NgNoValidate = __decorate([
        core.Directive({
            selector: 'form:not([ngNoForm]):not([ngNativeValidate])',
            host: { 'novalidate': '' },
        })
    ], NgNoValidate);
    return NgNoValidate;
})();

/**
 * @license
 * Copyright Google Inc. All Rights Reserved.
 *
 * Use of this source code is governed by an MIT-style license that can be found
 * in the LICENSE file at https://angular.io/license
 */
/**
 * Token to provide to turn off the ngModel warning on formControl and formControlName.
 */
var NG_MODEL_WITH_FORM_CONTROL_WARNING = new core.InjectionToken('NgModelWithFormControlWarning');
var formControlBinding$1 = {
    provide: NgControl,
    useExisting: core.forwardRef(function () { return FormControlDirective; })
};

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@description\n * * Syncs a standalone `FormControl` instance to a form control element.\n *\n * @see
[Reactive Forms Guide](guide/reactive-forms)\n * @see `FormControl`\n * @see `AbstractControl`\n *\n
* @usageNotes\n *\n * ### Registering a single form control\n *\n * The following examples shows how
to register a standalone control and set its value.\n *\n * {@example
forms/ts/simpleFormControl/simple_form_control_example.ts region='Component'}\n *\n * ### Use with
ngModel\n *\n * Support for using the `ngModel` input property and `ngModelChange` event with reactive\n
* form directives has been deprecated in Angular v6 and will be removed in a future version\n * of Angular.\n
*\n * Now deprecated:\n *\n * ```html\n * <input [formControl]=\"control\" [(ngModel)]=\"value\">\n *
```\n *\n * ```ts\n * this.value = 'some value';\n * ```\n *\n * This has been deprecated for a few
reasons. First, developers have found this pattern\n * confusing. It seems like the actual `ngModel` directive is
being used, but in fact it's\n * an input/output property named `ngModel` on the reactive form directive that
simply\n * approximates (some of) its behavior. Specifically, it allows getting/setting the value\n * and
intercepting value events. However, some of `ngModel`'s other features - like\n * delaying updates
with`ngModelOptions` or exporting the directive - simply don't work,\n * which has understandably caused some
confusion.\n *\n * In addition, this pattern mixes template-driven and reactive forms strategies, which\n * we
generally don't recommend because it doesn't take advantage of the full benefits of\n * either strategy. Setting the
value in the template violates the template-agnostic\n * principles behind reactive forms, whereas adding a
`FormControl`/`FormGroup` layer in\n * the class removes the convenience of defining forms in the template.\n
*\n * To update your code before support is removed, you'll want to decide whether to stick\n * with reactive
form directives (and get/set values using reactive forms patterns) or\n * switch over to template-driven
directives.\n *\n * After (choice 1 - use reactive forms):\n *\n * ```html\n * <input
[formControl]=\"control\">\n * ```\n *\n * ```ts\n * this.control.setValue('some value');\n * ```\n *\n
* After (choice 2 - use template-driven forms):\n *\n * ```html\n * <input [(ngModel)]=\"value\">\n * ```\n
*\n * ```ts\n * this.value = 'some value';\n * ```\n *\n * By default, when you use this pattern, you will
see a deprecation warning once in dev\n * mode. You can choose to silence this warning by providing a config
for\n * `ReactiveFormsModule` at import time:\n *\n * ```ts\n * imports: [\n *
ReactiveFormsModule.withConfig({warnOnNgModelWithFormControl: 'never'});\n * ]\n * ```\n *\n *
Alternatively, you can choose to surface a separate warning for each instance of this\n * pattern with a config
value of `\"always\"`. This may help to track down where in the code\n * the pattern is being used as the code is
being updated.\n *\n * @ngModule ReactiveFormsModule\n * @publicApi\n */\n var
FormControlDirective = /** @class */ (function (_super) {\n
__extends(FormControlDirective, _super);\n
function FormControlDirective(validators, asyncValidators, valueAccessors, _ngModelWarningConfig) {\n
var _this = _super.call(this) || this;\n
_this._ngModelWarningConfig = _ngModelWarningConfig;\n
/**
@deprecated as of v6 */\n
_this.update = new core.EventEmitter();\n
/**\n
* @description\n
* Instance property used to track whether an ngModel warning has been sent out for this\n
* particular
`FormControlDirective` instance. Used to support warning config of \"always\".\n
*\n
* @internal\n
*/\n
_this._ngModelWarningSent = false;\n
_this._rawValidators = validators || [];\n
_this._rawAsyncValidators = asyncValidators || [];\n
_this.valueAccessor = selectValueAccessor(_this,
valueAccessors);\n
return _this;\n
}\n
FormControlDirective_1 = FormControlDirective;\n
Object.defineProperty(FormControlDirective.prototype, \"isDisabled\", {\n
/**\n
* @description\n
* Triggers a warning that this input should not be used with reactive forms.\n
*/\n
set: function
(isDisabled) { ReactiveErrors.disabledAttrWarning(); },\n
enumerable: true,\n
configurable: true\n
});\n
/**\n
* @description\n
* A lifecycle method called when the directive's inputs change. For
internal use\n
* only.\n
*\n
* @param changes A object of key/value pairs for the set of changed
inputs.\n
*/\n
FormControlDirective.prototype.ngOnChanges = function (changes) {\n
if
(this._isControlChanged(changes)) {\n
setUpControl(this.form, this);\n
if (this.control.disabled
&& this.valueAccessor.setDisabledState) {\n
this.valueAccessor.setDisabledState(true);\n
}\n
this.form.updateValueAndValidity({ emitEvent: false });\n
}\n
if (isPropertyUpdated(changes,

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this.viewModel)) {
                _ngModelWarning('formControl', FormControlDirective_1, this,
                this._ngModelWarningConfig);
                this.form.setValue(this.model);
                this.viewModel = this.model;
            }
        };
        Object.defineProperty(FormControlDirective.prototype, "path", {
            /**
             * @description
             * Returns an array that represents the path from the top-level form to this
             * control.
             * Each index is the string name of the control on that level.
             */
            get: function () { return []; },
            enumerable: true,
            configurable: true
        });

        Object.defineProperty(FormControlDirective.prototype, "validator", {
            /**
             * @description
             * Synchronous validator function composed of all the synchronous validators
             * registered with this directive.
             */
            get: function () { return composeValidators(this._rawValidators); },
            enumerable: true,
            configurable: true
        });

        Object.defineProperty(FormControlDirective.prototype, "asyncValidator", {
            /**
             * Async validator function composed of all the async validators registered with this
             */
            get: function () { return composeAsyncValidators(this._rawAsyncValidators); },
            enumerable: true,
            configurable: true
        });

        Object.defineProperty(FormControlDirective.prototype, "control", {
            /**
             * The `FormControl` bound to this directive.
             */
            get: function () { return this.form; },
            enumerable: true,
            configurable: true
        });

        FormControlDirective.prototype.viewToModelUpdate = function (newValue) {
            this.viewModel = newValue;
            this.update.emit(newValue);
        };

        FormControlDirective.prototype._isControlChanged = function (changes) {
            return changes.hasOwnProperty('form');
        };

        FormControlDirective = FormControlDirective_1 = __decorate(
            [core.Directive({ selector: '[formControl]', providers: [formControlBinding$1], exportAs: 'ngForm' }),
             __param(0, core.Optional()), __param(0, core.Self()), __param(0, core.Inject(NG_VALIDATORS)),
             __param(1, core.Optional()), __param(1, core.Self()), __param(1, core.Inject(NG_ASYNC_VALIDATORS)),
             __param(2, core.Optional()), __param(2, core.Self()), __param(2, core.Inject(NG_VALUE_ACCESSOR)),
             __param(3, core.Optional()), __param(3, core.Inject(NG_MODEL_WITH_FORM_CONTROL_WARNING))],
            FormControlDirective);

        FormControlDirective.prototype.ngModelWarningSentOnce = false;
        FormControlDirective._ngModelWarningSentOnce = false;
        FormControlDirective._ngModelWarningSentOnce = false;

        FormControlDirective = FormControlDirective_1 = __decorate(
            [core.Directive({ selector: '[formControl]', providers: [formControlBinding$1], exportAs: 'ngForm' }),
             __param(0, core.Optional()), __param(0, core.Self()), __param(0, core.Inject(NG_VALIDATORS)),
             __param(1, core.Optional()), __param(1, core.Self()), __param(1, core.Inject(NG_ASYNC_VALIDATORS)),
             __param(2, core.Optional()), __param(2, core.Self()), __param(2, core.Inject(NG_VALUE_ACCESSOR)),
             __param(3, core.Optional()), __param(3, core.Inject(NG_MODEL_WITH_FORM_CONTROL_WARNING))],
            FormControlDirective);

        FormControlDirective.prototype.ngModelWarningSentOnce = false;
        FormControlDirective._ngModelWarningSentOnce = false;

        FormControlDirective = FormControlDirective_1 = __decorate(
            [core.Directive({ selector: '[formControl]', providers: [formControlBinding$1], exportAs: 'ngForm' }),
             __param(0, core.Optional()), __param(0, core.Self()), __param(0, core.Inject(NG_VALIDATORS)),
             __param(1, core.Optional()), __param(1, core.Self()), __param(1, core.Inject(NG_ASYNC_VALIDATORS)),
             __param(2, core.Optional()), __param(2, core.Self()), __param(2, core.Inject(NG_VALUE_ACCESSOR)),
             __param(3, core.Optional()), __param(3, core.Inject(NG_MODEL_WITH_FORM_CONTROL_WARNING))],
            FormControlDirective);

        FormControlDirective.prototype.ngModelWarningSentOnce = false;
        FormControlDirective._ngModelWarningSentOnce = false;

        FormControlDirective = FormControlDirective_1 = __decorate(
            [core.Directive({ selector: '[formControl]', providers: [formControlBinding$1], exportAs: 'ngForm' }),
             __param(0, core.Optional()), __param(0, core.Self()), __param(0, core.Inject(NG_VALIDATORS)),
             __param(1, core.Optional()), __param(1, core.Self()), __param(1, core.Inject(NG_ASYNC_VALIDATORS)),
             __param(2, core.Optional()), __param(2, core.Self()), __param(2, core.Inject(NG_VALUE_ACCESSOR)),
             __param(3, core.Optional()), __param(3, core.Inject(NG_MODEL_WITH_FORM_CONTROL_WARNING))],
            FormControlDirective);

        FormControlDirective.prototype.ngModelWarningSentOnce = false;
        FormControlDirective._ngModelWarningSentOnce = false;

        FormControlDirective = FormControlDirective_1 = __decorate(
            [core.Directive({ selector: '[formControl]', providers: [formControlBinding$1], exportAs: 'ngForm' }),
             __param(0, core.Optional()), __param(0, core.Self()), __param(0, core.Inject(NG_VALIDATORS)),
             __param(1, core.Optional()), __param(1, core.Self()), __param(1, core.Inject(NG_ASYNC_VALIDATORS)),
             __param(2, core.Optional()), __param(2, core.Self()), __param(2, core.Inject(NG_VALUE_ACCESSOR)),
             __param(3, core.Optional()), __param(3, core.Inject(NG_MODEL_WITH_FORM_CONTROL_WARNING))],
            FormControlDirective);

        FormControlDirective.prototype.ngModelWarningSentOnce = false;
        FormControlDirective._ngModelWarningSentOnce = false;

        FormControlDirective = FormControlDirective_1 = __decorate(
            [core.Directive({ selector: '[formControl]', providers: [formControlBinding$1], exportAs: 'ngForm' }),
             __param(0, core.Optional()), __param(0, core.Self()), __param(0, core.Inject(NG_VALIDATORS)),
             __param(1, core.Optional()), __param(1, core.Self()), __param(1, core.Inject(NG_ASYNC_VALIDATORS)),
             __param(2, core.Optional()), __param(2, core.Self()), __param(2, core.Inject(NG_VALUE_ACCESSOR)),
             __param(3, core.Optional()), __param(3, core.Inject(NG_MODEL_WITH_FORM_CONTROL_WARNING))],
            FormControlDirective);

        FormControlDirective.prototype.ngModelWarningSentOnce = false;
        FormControlDirective._ngModelWarningSentOnce = false;

        FormControlDirective = FormControlDirective_1 = __decorate(
            [core.Directive({ selector: '[formControl]', providers: [formControlBinding$1], exportAs: 'ngForm' }),
             __param(0, core.Optional()), __param(0, core.Self()), __param(0, core.Inject(NG_VALIDATORS)),
             __param(1, core.Optional()), __param(1, core.Self()), __param(1, core.Inject(NG_ASYNC_VALIDATORS)),
             __param(2, core.Optional()), __param(2, core.Self()), __param(2, core.Inject(NG_VALUE_ACCESSOR)),
             __param(3, core.Optional()), __param(3, core.Inject(NG_MODEL_WITH_FORM_CONTROL_WARNING))],
            FormControlDirective);
FormGroupDirective = /** @class */ (function (_super) {
  __extends(FormGroupDirective, _super);
  function FormGroupDirective(_validators, _asyncValidators) {
    var this = _super.call(this) || this;
    _this._validators = _validators;
    _this._asyncValidators = _asyncValidators;
    /**
     * Tracks the FormGroup bound to this directive.
     */
    _this.form = null;
    /**
     * Tracks the event when the form submission has been triggered.
     */
    _this.ngSubmit = new core.EventEmitter();
    return _this;
  }

  /**
   * A lifecycle method called when the directive's inputs change. For internal use only.
   *
   * @param changes A object of key/value pairs for the set of changed inputs.
   */
  FormGroupDirective.prototype.ngOnChanges = function (changes) {
    this._checkFormPresent();
    if (changes.hasOwnProperty('form')) {
      this._updateValidators();
      this._updateDomValue();
      this._updateRegistrations();
    }
  };

  Object.defineProperty(FormGroupDirective.prototype, "formDirective", {
    /**
     * Returns this directive's instance.
     */
    get: function () { return this; },
    enumerable: true,
    configurable: true
  });

  Object.defineProperty(FormGroupDirective.prototype, "control", {
    /**
     * Returns the FormGroup bound to this directive.
     */
    get: function () { return this.form; },
    enumerable: true,
    configurable: true
  });

  Object.defineProperty(FormGroupDirective.prototype, "path", {
    /**
     * Returns an array representing the path to this group.
     * Because this directive
     * always lives at the top level of a form, it always an empty array.
     */
    get: function () { return []; },
    enumerable: true,
    configurable: true
  });

  /**
   * Method that sets up the control directive in this group, re-calculates its value
   * and
   * validity, and adds the instance to the internal list of directives.
   */
  FormGroupDirective.prototype.addControl = function (dir) {
    var ctrl = this.form.get(dir.path);
    setUpControl(ctrl, dir);
    ctrl.updateValueAndValidity({ emitEvent: false });
    this.directives.push(dir);
    return ctrl;
  };

  /**
   * Retrieves the FormGroup for a provided FormGroupName directive instance
   *
   * @param dir The FormGroupName directive instance.
   */
  FormGroupDirective.prototype.getFormGroup = function (dir) { return this.form.get(dir.path); };

  /**
   * Adds a new FormArrayName directive instance to the form.
   */
  FormGroupDirective.prototype.addFormArray = function (dir) {
    var ctrl = this.form.get(dir.path);
    setUpFormContainer(ctrl, dir);
    ctrl.updateValueAndValidity({ emitEvent: false });
    this.directives.push(dir);
  };

  /**
   * No-op method to remove the form group.
   */
  FormGroupDirective.prototype.removeGroup = function (dir) {
    var ctrl = this.form.get(dir.path);
    setUpFormContainer(ctrl, dir);
    ctrl.updateValueAndValidity({ emitEvent: false });
    this.directives.push(dir);
  };

  /**
   * No-op method to remove the form array.
   */
  FormGroupDirective.prototype.removeArray = function (dir) {
    var ctrl = this.form.get(dir.path);
    setUpFormContainer(ctrl, dir);
    ctrl.updateValueAndValidity({ emitEvent: false });
    this.directives.push(dir);
  };
});
instance.
*/
FormGroupDirective.prototype.removeFormArray = function (dir) {
    var ctrl = this.form.get(dir.path);
    ctrl.setV

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[Reactive Forms Guide](guide/reactive-forms)

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```ts
this.form.get('name');
```

### Access individual controls in the group

The following example uses the `@link AbstractControl#get` method to access individual controls within the group using dot syntax.

```ts
this.form.get('name.first');
```

### Access the group by name

The following example uses the `@link AbstractControl#get` method to access the group associated with an existing `FormGroup` and provides methods to retrieve the nested `FormGroup` and individual controls.

```ts
@example forms/ts/nested_form_group_example.ts region='Component'
```

### Register a nested `FormGroup`

This example registers a nested `FormGroup` within an existing `FormGroup` and provides methods to retrieve the nested `FormGroup` and individual controls.

```ts
FormGroupName.prototype._checkParentType = function () {
    if (_hasInvalidParent(this._parent)) {
        ReactiveErrors.groupParentException();
    }
}
```

### Register a nested `FormArray`

This example registers a nested `FormArray` within a `FormGroup` and provides methods to retrieve the nested `FormArray` and individual controls.

```ts
FormArrayName.prototype._checkParentType = function () {
    if (_hasInvalidParent(this._parent)) {
        ReactiveErrors.groupParentException();
    }
}
```

---

[Reactive Forms Guide](guide/reactive-forms)

---

```ts
this.form.get('name.first');
```

### Access the group by name

The following example uses the `@link AbstractControl#get` method to access the group associated with an existing `FormGroup` and provides methods to retrieve the nested `FormGroup` and individual controls.

```ts
@example forms/ts/nested_form_group_example.ts region='Component'
```

### Register a nested `FormGroup`

This example registers a nested `FormGroup` within an existing `FormGroup` and provides methods to retrieve the nested `FormGroup` and individual controls.

```ts
FormGroupName.prototype._checkParentType = function () {
    if (_hasInvalidParent(this._parent)) {
        ReactiveErrors.groupParentException();
    }
}
```

### Register a nested `FormArray`

This example registers a nested `FormArray` within a `FormGroup` and provides methods to retrieve the nested `FormArray` and individual controls.

```ts
FormArrayName.prototype._checkParentType = function () {
    if (_hasInvalidParent(this._parent)) {
        ReactiveErrors.groupParentException();
    }
}
```
Each index is the string name of the control on that level.

```javascript
get: function () {
    return
};
```

```javascript
return composeValidators(this._validators);
```
console.log(this.form.get('first').value) // 'some value'

```ts
this.value = 'some value';
```

By default, when you use this pattern, you will see a deprecation warning once in dev mode. You can choose to silence this warning by providing a config for

```
ReactiveFormsModule.withConfig({warnOnNgModelWithFormControl: 'never'})
```

Alternatively, you can choose to surface a separate warning for each instance of this pattern with a config value of `always`:

```
this._ngModelWarningConfig = {warnOnNgModelWithFormControl: 'always'};
```

This may help to track down where in the code the pattern is being used as the code is being updated.

```ts
imports: [ReactiveFormsModule.withConfig({warnOnNgModelWithFormControl: 'never'})]
```

Or for each instance of this pattern, you may choose to表面 a warning using a config value of `always`:

```
ReactivesErrors.disabledAttrWarning();
```

A lifecycle method called when the directive's inputs change. For internal use only.

```ts
this.viewModel = this.model;
```

```
this.update.emit(this.viewModel);
```

```
this.viewToModelUpdate(newValue) {
    this.viewModel = newValue;
    this.update.emit(newValue);
}
```

```
get: function () {
    return controlPath(this.name == null ? this.name.toString() : this._parent);
},
```

```
get: function () {
    return this._parent ? this._parent/formDirective : null;
},
```

```
get: function () {
    return composeValidators(this._rawValidators);
},
```

```
get: function () {
    return composeAsyncValidators(this._rawAsyncValidators);
}
```
enumerable: true,
c

configurable: true

property used to track whether any ngModel warnings have been sent across all instances of FormControlName.Used to support warning config of \`once\',

* Static

property that validates whether the control is empty.

* Returns the validation result if enabled, otherwise null.
Validators.required(control) : null;\n
};\n
/**\n
* @description\n
* Registers a callback function
to call when the validator inputs change.\n
*\n
* @param fn The callback function\n
*/\n
RequiredValidator.prototype.registerOnValidatorChange = function (fn) { this._onChange = fn; };\n
__decorate([\n
core.Input(),\n
__metadata(\"design:type\", Object),\n
__metadata(\"design:paramtypes\", [Object])\n
], RequiredValidator.prototype, \"required\", null);\n
RequiredValidator = __decorate([\n
core.Directive({\n
selector:
':not([type=checkbox])[required][formControlName],:not([type=checkbox])[required][formControl],:not([type=chec
kbox])[required][ngModel]',\n
providers: [REQUIRED_VALIDATOR],\n
host: { '[attr.required]':
'required ? \"\" : null' }\n
})\n
], RequiredValidator);\n
return RequiredValidator;\n }());\n /**\n
* A Directive that adds the `required` validator to checkbox controls marked with the\n * `required` attribute. The
directive is provided with the `NG_VALIDATORS` multi-provider list.\n *\n * @see [Form
Validation](guide/form-validation)\n *\n * @usageNotes\n *\n * ### Adding a required checkbox
validator using template-driven forms\n *\n * The following example shows how to add a checkbox required
validator to an input attached to an ngModel binding.\n *\n * ```\n * <input type=\"checkbox\"
name=\"active\" ngModel required>\n * ```\n *\n * @publicApi\n * @ngModule FormsModule\n *
@ngModule ReactiveFormsModule\n */\n var CheckboxRequiredValidator = /** @class */ (function (_super)
{\n
__extends(CheckboxRequiredValidator, _super);\n
function CheckboxRequiredValidator() {\n
return _super !== null && _super.apply(this, arguments) || this;\n
}\n
/**\n
* @description\n
*
Method that validates whether or not the checkbox has been checked.\n
* Returns the validation result if
enabled, otherwise null.\n
*/\n
CheckboxRequiredValidator.prototype.validate = function (control) {\n
return this.required ? Validators.requiredTrue(control) : null;\n
};\n
CheckboxRequiredValidator =
__decorate([\n
core.Directive({\n
selector:
'input[type=checkbox][required][formControlName],input[type=checkbox][required][formControl],input[type=chec
kbox][required][ngModel]',\n
providers: [CHECKBOX_REQUIRED_VALIDATOR],\n
host: {
'[attr.required]': 'required ? \"\" : null' }\n
})\n
], CheckboxRequiredValidator);\n
return
CheckboxRequiredValidator;\n }(RequiredValidator));\n /**\n * @description\n * Provider which adds
`EmailValidator` to the `NG_VALIDATORS` multi-provider list.\n */\n var EMAIL_VALIDATOR = {\n
provide: NG_VALIDATORS,\n
useExisting: core.forwardRef(function () { return EmailValidator; }),\n
multi: true\n };\n /**\n * A directive that adds the `email` validator to controls marked with the\n * `email`
attribute. The directive is provided with the `NG_VALIDATORS` multi-provider list.\n *\n * @see [Form
Validation](guide/form-validation)\n *\n * @usageNotes\n *\n * ### Adding an email validator\n *\n
* The following example shows how to add an email validator to an input attached to an ngModel binding.\n *\n
* ```\n * <input type=\"email\" name=\"email\" ngModel email>\n * <input type=\"email\" name=\"email\"
ngModel email=\"true\">\n * <input type=\"email\" name=\"email\" ngModel [email]=\"true\">\n * ```\n *\n
* @publicApi\n * @ngModule FormsModule\n * @ngModule ReactiveFormsModule\n */\n var
EmailValidator = /** @class */ (function () {\n
function EmailValidator() {\n
}\n
Object.defineProperty(EmailValidator.prototype, \"email\", {\n
/**\n
* @description\n
*
Tracks changes to the email attribute bound to this directive.\n
*/\n
set: function (value) {\n
this._enabled = value === '' || value === true || value === 'true';\n
if (this._onChange)\n
this._onChange();\n
},\n
enumerable: true,\n
configurable: true\n
});\n
/**\n
*
@description\n
* Method that validates whether an email address is valid.\n
* Returns the validation result
if enabled, otherwise null.\n
*/\n
EmailValidator.prototype.validate = function (control) {\n
return
this._enabled ? Validators.email(control) : null;\n
};\n
/**\n
* @description\n
* Registers a
callback function to call when the validator inputs change.\n
*\n
* @param fn The callback function\n
*/\n
EmailValidator.prototype.registerOnValidatorChange = function (fn) { this._onChange = fn; };\n
__decorate([\n
core.Input(),\n
__metadata(\"design:type\", Object),\n
__metadata(\"design:paramtypes\", [Object])\n
], EmailValidator.prototype, \"email\", null);\n
EmailValidator = __decorate([\n
core.Directive({\n
selector:

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[email][formControlName],[email][formControl],[email][ngModel],
 providers:
 [EMAIL_VALIDATOR],[ ]
 EmailValidator; return EmailValidator;();
 /**
 * Provider which adds `MinLengthValidator` to the `NG_VALIDATORS` multi-provider list.
 */
 var MIN_LENGTH_VALIDATOR = [ ]
 provide: NG_VALIDATORS,
 useExisting:
core.forwardRef(function () { return MinLengthValidator; });
 multi: true; }
 /**
 * A directive that adds minimum length validation to controls marked with the
 * `minlength` attribute. The directive is provided with the `NG_VALIDATORS` multi-provider list.
 * @param changes A object of key/value pairs for the set of changed inputs.
 */
 MinLengthValidator.prototype.ngOnChanges = function (changes) {
 if ('minlength' in changes) {
 this._createValidator();
 if (this._onChange)
 this._onChange();
 }
 /**
 * A lifecycle method called when the directive's inputs change. For internal use only.
 * @param fn The callback function
 */
 MinLengthValidator.prototype.registerOnValidatorChange = function (fn) { this._onChange = fn; };
 this._createValidator = function () {
 this._validator =
 Validators.minLength(typeof this.minlength === 'number' ? this.minlength : parseInt(this.minlength, 10));
 };}
 __decorate([core.Input()],
 MinLengthValidator.prototype, "minlength", void 0);
 MinLengthValidator = __decorate([core.Directive({
 selector: 
 [minlength][formControlName],[minlength][formControl],[minlength][ngModel],
 providers:
 [MIN_LENGTH_VALIDATOR],
 host: { 'attr.minlength': 'minlength ? minlength : null' }
 }],
 MinLengthValidator); return MinLengthValidator;();
 /**
 * A directive that adds maximum length validation to controls marked with the
 * `maxlength` attribute. The directive is provided with the `NG_VALIDATORS` multi-provider list.
 * @param changes A object of key/value pairs for the set of changed inputs.
 */
 MaxLengthValidator.prototype.ngOnChanges = function (changes) {
 if ('maxlength' in changes) {
 this._createValidator();
 if (this._onChange)
 this._onChange();
 }
 /**
 * A lifecycle method called when the directive's inputs change. For internal use only.
 * @param fn The callback function
 */
 MaxLengthValidator.prototype.registerOnValidatorChange = function (fn) { this._onChange = fn; };
 this._createValidator = function () {
 this._validator =
 Validators.maxLength(typeof this.maxlength === 'number' ? this.maxlength : parseInt(this.maxlength, 10));
 };}
 __decorate([core.Input()],
 MaxLengthValidator.prototype, "maxlength", void 0);
 MaxLengthValidator = __decorate([core.Directive({
 selector: 
 [maxlength][formControlName],[maxlength][formControl],[maxlength][ngModel],
 providers:
 [MAX_LENGTH_VALIDATOR],
 host: { 'attr.maxlength': 'maxlength ? maxlenlength : null' }
 }],
 MaxLengthValidator); return MaxLengthValidator;();
 /**
 * A directive that adds maximum length validation to controls marked with the
 * `maxlength` attribute. The directive is provided with the `NG_VALIDATORS` multi-provider list.
 * @param changes A object of key/value pairs for the set of changed inputs.
 */
 MaxLengthValidator.prototype.validator = function (control) {
 return this.maxlength === null ? null : this._validator(control);};
 /**
 * A lifecycle method called when the directive's inputs change. For internal use only.
 * @param fn The callback function
 */
 MaxLengthValidator.prototype.registerOnValidatorChange = function (fn) { this._onChange = fn; };
 this._createValidator = function () {
 this._validator =
 Validators.maxLength(typeof this.maxlength === 'number' ? this.maxlength : parseInt(this.maxlength, 10));
 };}
 __decorate([core.Input()],
 MaxLengthValidator.prototype, "maxlength", void 0);
 MaxLengthValidator = __decorate([core.Directive({
 selector: 
 [maxlength][formControlName],[maxlength][formControl],[maxlength][ngModel],
 providers:
 [MAX_LENGTH_VALIDATOR],
 host: { 'attr.maxlength': 'maxlength ? maxlenlength : null' }
 }],
 MaxLengthValidator); return MaxLengthValidator;();
 /**
 * A directive that adds maximum length validation to controls marked with the
 * `maxlength` attribute. The directive is provided with the `NG_VALIDATORS` multi-provider list.
 * @param changes A object of key/value pairs for the set of changed inputs.
 */
 MaxLengthValidator.prototype.validator = function (control) {
 return this.maxlength != null ? this._validator(control) : null;};
 /**
 * A lifecycle method called when the directive's inputs change. For internal use only.
 * @param fn The callback function
 */
 MaxLengthValidator.prototype.registerOnValidatorChange = function (fn) { this._onChange = fn; };
 this._createValidator = function () {
 this.maxlength = null ? this._validator(control) : null; };
MaxLengthValidator.prototype.registerOnValidatorChange = function (fn) { this._onChange = fn; };
MaxLengthValidator.prototype._createValidator = function () { this._validator = Validators.maxLength(typeof this.maxlength === 'number' ? this.maxlength : parseInt(this.maxlength, 10));
};
MaxLengthValidator.prototype._createValidator = function () {
            this._validator = Validators.maxLength(typeof this.maxlength === 'number' ? this.maxlength : parseInt(this.maxlength, 10));
        };
}

/**
 * Provider which adds `PatternValidator` to the `NG_VALIDATORS` multi-provider list.
 */
var PatternValidator = /** @class */ (function () {
    function PatternValidator() {
    }
    PatternValidator.prototype.ngOnChanges = function (changes) {
        if ('pattern' in changes) {
            this._createValidator();
            if (this._onChange)
                this._onChange();
        }
    };
    PatternValidator.prototype.validate = function (control) { return this._validator(control); };
    PatternValidator.prototype.registerOnValidatorChange = function (fn) { this._onChange = fn; };
    PatternValidator.prototype._createValidator = function () { this._validator = Validators.pattern(this.pattern); };

    __decorate([core.Input()], PatternValidator.prototype, "pattern", void 0);
    PatternValidator = __decorate([
        core.Directive({
            selector: '[pattern][formControlName],[pattern][formControl],[pattern][ngModel]',
        } providers: [
            [PATTERN_VALIDATOR],
            host: { '[attr.pattern]': 'pattern ? pattern : null' }
        ]),
        PatternValidator.prototype = --decorate([core.Input(),
            _metadata('design:type', Object)
        ], PatternValidator.prototype, "pattern", void 0);
    ]);
    return PatternValidator;

    /**
     * @license
     * Copyright Google Inc. All Rights Reserved.
     *
     * Use of this source code is governed by an MIT-style license that can be found in the LICENSE file at https://angular.io/license
     */
    var SHARED_FORM_DIRECTIVES = [
        NgNoValidate,
        NgSelectOption,
        NgSelectMultipleOption,
        DefaultValueAccessor,
        NumberValueAccessor,
        RangeValueAccessor,
        CheckboxControlValueAccessor,
        SelectControlValueAccessor,
        SelectMultipleControlValueAccessor,
        RadioControlValueAccessor,
        NgControlStatus,
        NgControlStatusGroup,
        RequiredValidator,
        MinLengthValidator,
        PatternValidator,
        CheckboxRequiredValidator,
        EmailValidator,
    ];
    var TEMPLATE_DRIVEN_DIRECTIVES = [NgModel, NgModelGroup, NgForm];
    var REACTIVE_DRIVEN_DIRECTIVES = [FormControlDirective, FormGroupDirective, FormControlName,
        FormGroupName, FormArrayName];
    /**
     * Internal module used for sharing directives between FormsModule and ReactiveFormsModule
     */
    var InternalFormsSharedModule = /** @class */ (function () {
        function InternalFormsSharedModule() {
        }
        InternalFormsSharedModule.prototype = --decorate([core.Directive({
            selector: '[pattern][formControlName],[pattern][formControl],[pattern][ngModel]',
        } providers: [
            [PATTERN_VALIDATOR],
            host: { '[attr.pattern]': 'pattern ? pattern : null' }
        ]),
        InternalFormsSharedModule.prototype = --decorate([core.Input(),
            _metadata('design:type', Object)
        ], InternalFormsSharedModule.prototype, "pattern", void 0);
    ]);
    return InternalFormsSharedModule;
```javascript
var FormBuilder = /** @class */ (function () {
    function FormBuilder() {
    }
    /**
     * @license
     * Copyright Google Inc. All Rights Reserved
     */
    FormBuilder.prototype.group = function (controlsConfig, options) {
        if (options === void 0) { options = {}
    }
    /**
     * @description
     * Creates an `AbstractControl` from a user-specified configuration.
     */
    FormBuilder.prototype.control = function (formState, validatorOrOpts, asyncValidator) {
        return new FormControl(formState, validatorOrOpts, asyncValidator);
    };
    /**
     * @description
     * Construct a new `FormArray` instance.
     */
    FormBuilder.prototype.array = function (controlsConfig, options) {
        return new FormArray(controls, validatorOrOpts, asyncValidator);
    };
    /**
     * @description
     * Construct a new `FormGroup` instance.
     */
    FormBuilder.prototype.group = function (controlsConfig, options) {
        return new FormGroup(controls, { asyncValidators: asyncValidators, updateOn: updateOn, validators: validators
    }

    return new GroupConfigFormBuilder(controlsConfig, options = {}
    }
```

controls[controlName] = this._createControl(controlsConfig[controlName]);
} return controls;
/** @internal */
FormBuilder.prototype._createControl = function (controlConfig)
{
  if (controlConfig instanceof FormControl || controlConfig instanceof FormGroup)
  { return controlConfig;
  }
  else if (Array.isArray(controlConfig))
  { return Array.prototype.map.call(controlConfig, function(control)
    { return this.control(control.value, control.validator, control.asyncValidator);
    });
  }
  else return this.control(control.value, control.validator, control.asyncValidator);
}

/** @internal */
FormBuilder.prototype._createControl = function (controlConfig)
{
  if (controlConfig instanceof FormControl || controlConfig instanceof FormGroup)
  { return controlConfig;
  }
  else if (Array.isArray(controlConfig))
  { var value = controlConfig[0];
    var validator = controlConfig[1] ? null :;
    var asyncValidator = controlConfig.length > 2 ?
      controlConfig[2] : null;
    return this.control(value, validator, asyncValidator);
  }
  else return this.control(controlConfig);
}

FormBuilder = __decorate([core.Injectable()], FormBuilder);

return FormBuilder;

/**
 * @license
 * Copyright Google Inc. All Rights Reserved.
 * Use of this source code is governed by an MIT-style license that can be found in the LICENSE file at https://angular.io/license
 */

FormsModule = /** @class */ (function () {
  function FormsModule() {
  }
  FormsModule = __decorate([core.NgModule({
    declarations: TEMPLATE_DRIVEN_DIRECTIVES,
    providers: [RadioControlRegistry],
    exports: [InternalFormsSharedModule, TEMPLATE_DRIVEN_DIRECTIVES]
  })], FormsModule);
  return FormsModule;
})();

Re reactiveFormsModule = ReactiveFormsModule = /** @class */ (function () {
  function ReactiveFormsModule() {
  }
  ReactiveFormsModule = __decorate([core.NgModule({
    declarations: [REACTIVE_DRIVEN_DIRECTIVES],
    providers: [FormBuilder, RadioControlRegistry],
    exports: [InternalFormsSharedModule, REACTIVE_DRIVEN_DIRECTIVES]
  })], ReactiveFormsModule);
  return ReactiveFormsModule;
})();

exports.AbstractControl = AbstractControl;
exports.COMPOSITION_BUFFER_MODE = COMPOSITION_BUFFER_MODE;
exports.CheckboxControlValueAccessor = CheckboxControlValueAccessor;
exports.CheckboxRequiredValidator = CheckboxRequiredValidator;
exports.ControlContainer = ControlContainer;
exportsDefaultValueAccessor = DefaultValueAccessor;
exports.EmailValidator =
Found in path(s):
* /opt/ws_local/PERMITS_SQL/1047774271_1590610393.22/0/forms-9-0-7-tgz/package/bundles/forms.umd.min.js.map
No license file was found, but licenses were detected in source scan.

/**
 * @license Angular v9.0.7
 * (c) 2010-2020 Google LLC. https://angular.io/
 * License: MIT
 */

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1047774271_1590610393.22/0/forms-9-0-7-tgz/package/forms.d.ts
No license file was found, but licenses were detected in source scan.

When implementing the `registerOnChange` method in your own value accessor, save the given function so your class calls it at the appropriate time. The following example stores the provided function as an internal method.

```typescript
registerOnChange(fn: (_: any) => void): void {
  this._on_change = fn;
}
```

When the value changes in the UI, call the registered function to allow the forms API to update itself.

```typescript
host: {
  '(change)': '.on_change(event.target.value)' * * * * * * * * * * * @param fn The callback function to register.
}
```

The following is an example of writing the disabled property to a native DOM element.

```typescript
setDisabledState(isDisabled: boolean): void {
  this._renderer.setProperty(this._elementRef.nativeElement, 'disabled', isDisabled);
}
```
void {\n  this._renderer.setProperty(this._elementRef.nativeElement, 'disabled', isDisabled);\n} \n}/**\n * @license
 * Copyright Google Inc. All Rights Reserved. \n * Use of this source code is governed by a MIT-style license that can be \n * found in the LICENSE file at https://angular.io/license
 */

import {ɵgetDOM as getDOM} from '@angular/common';
import {Inject, InjectionToken, Optional, Renderer2, forwardRef} from '@angular/core';
import {ControlValueAccessor, NG_VALUE_ACCESSOR} from './control_value_accessor';

export const DEFAULT_VALUE_ACCESSOR: any = {
  provide: NG_VALUE_ACCESSOR,
  useExisting: forwardRef(() => DefaultValueAccessor),
  multi: true
};

/**
 * We must check whether the agent is Android because composition events in Android behave differently between iOS and Android. \n * @function isAndroid: boolean \n * const userAgent = getDOM() ? getDOM().getUserAgent() : '';
 * return /android (\d+)/.test(userAgent.toLowerCase());
 */

/**
 * @description
 * Provide this token to control if form directives buffer IME input until \n * the 'compositionend' event occurs. \n * @publicApi \n * @export const COMPOSITION_BUFFER_MODE = new InjectionToken('CompositionEventMode');
 */

/**
 * @description
 * The default `ControlValueAccessor` for writing a value and listening to changes on input \n * elements. The accessor is used by the `FormControlDirective`, `FormControlName`, and \n * `NgModel` directives. \n * @usageNotes
 * @publicApi
 */
@Directive({
  selector:  
    'input:not([type=checkbox])[formControlName],textarea[formControlName],input:not([type=checkbox])[formControl],textarea[formControl],input:not([type=checkbox])[ngModel],textarea[ngModel],[ngDefaultControl]',
    // TODO: vsavkin replace the above selector with the one below it once it works
    // selector:  
    '
      [ngModel],[formControl],[FormControlName],
    'host: {\n      '(input)':  \n        this._handleInput($event.target.value),
      '(blur)': 'onTouched();',\n      '(compositionstart)':  \n        this._compositionStart(),\n      '(compositionend)': 'this._compositionEnd($event.target.value)';  \n    },
  providers: [DEFAULT_VALUE_ACCESSOR],\n  //export class DefaultValueAccessor implements\n  ControlValueAccessor {\n    /**\n     * The registered callback function called when an input event \n     * occurs on the input element.\n     */
    onChange = (_: any) => {};

    /**\n     * The registered callback function called when a blur event occurs on the input element.\n     */
    onTouched = () => {};

    /**\n     * Whether the user is creating a composition string (IME events).\n     */
    _composing = false;

    constructor(\n      private _renderer: Renderer2, private _elementRef: ElementRef,
      @Optional()\n      @Inject(COMPOSITION_BUFFER_MODE) private _compositionMode: boolean) {\n      if (this._compositionMode == null) {\n        this._compositionMode = !isAndroid();\n      }\n    }\n
    /**\n     * @description\n     * Registers a function called when the control value changes.\n     */
    _handleInput(value: any): void {\n      this.onChange(value);\n    }

    /**\n     * @description\n     * Registers a function called when the control is touched.\n     */
    _compositionStart(): void {\n      this._composing = true;
    }

    /**\n     * @description\n     * Registers a function called when the control value changes.\n     */
    _compositionEnd(value: any): void {\n      this._composing = false;
    }

    /**\n     * @description\n     * Registers a function called when the control value changes.\n     */
    _registerOnTouch(fn: any): void {\n      this.onTouched = () => {\n        fn();\n      };\n    }

    /**\n     * @description\n     * Registers a function called when the control value changes.\n     */
    _registerOnChange(fn: any): void {\n      this.onChange = fn;\n    }

    /**\n     * @description\n     * Registers a function called when the control is touched.\n     */
    _setDisabledState(isDisabled: boolean): void {\n      this._renderer.setElementProperty(this._elementRef.nativeElement, 'disabled', isDisabled);\n    }

    /**\n     * @description\n     * Registers a function called when the control value changes.\n     */
    _setCompositionMode(isCompositionMode: boolean): void {\n      this._compositionMode = isCompositionMode;\n    }
}

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FormGroup({
   *   address: new FormGroup({ street: new FormControl() })
   * });

   * ```
   *
   * The path to
   *
   * @usageNotes
   * For example, for the following `FormGroup`:
   *
   * ```
   * form = new
   * returns whether the control is invalid, meaning that an error exists in the input value.
   * If the control is not present, null is returned.
   *
   * @param errorCode The code of the error to check
   * @param path A
   * Returns an array that represents the path from the top-level form to this control.
   * Each index is the string name of the control on that level.
   * @returns an array that represents the path from the top-level form to this control.
   * ```
   * form = new FormGroup({ 
   * address: new FormGroup({ street: new FormControl() }) });
   *
   * The path to
the 'street' control from the root form would be 'address' -> 'street'.

It can be provided to this method in one of two formats:

1. An array of string control names, e.g. `['address', 'street']`
2. A period-delimited list of control names in one string, e.g. `'address.street'`

If no path is given, this method checks for the error on the current control. If no path is given, this method checks for the error on the given path.

If the control is not present, false is returned.

```javascript
hasError(errorCode: string, path?: string): boolean {
    return this.control ? this.control.hasError(errorCode, path) : false;
}
```

```javascript
getError(errorCode: string, path?: string): any {
    return this.control ? this.control.getError(errorCode, path) : null;
}
```

If the control is not present, false is returned.

```javascript
nextSiblingFormDirective(): FormDirective|null {
    return null;
}
```
import {NgControl} from './ng_control';

export class AbstractControlStatus {
  private _cd: AbstractControlDirective;

  constructor(cd: AbstractControlDirective) {
    this._cd = cd;
  }

  get ngClassUntouched(): boolean {
    return this._cd.control ? this._cd.control.untouched : false;
  }

  get ngClassTouched(): boolean {
    return this._cd.control ? this._cd.control.touched : false;
  }

  get ngClassPristine(): boolean {
    return this._cd.control ? this._cd.control.pristine : false;
  }

  get ngClassDirty(): boolean {
    return this._cd.control ? this._cd.control.dirty : false;
  }

  get ngClassValid(): boolean {
    return this._cd.control ? this._cd.control.valid : false;
  }

  get ngClassInvalid(): boolean {
    return this._cd.control ? this._cd.control.invalid : false;
  }

  get ngClassPending(): boolean {
    return this._cd.control ? this._cd.control.pending : false;
  }
}

export const ngControlStatusHost = {
  '[class.ng-untouched]': 'ngClassUntouched',
  '[class.ng-touched]': 'ngClassTouched',
  '[class.ng-pristine]': 'ngClassPristine',
  '[class.ng-dirty]': 'ngClassDirty',
  '[class.ng-valid]': 'ngClassValid',
  '[class.ng-invalid]': 'ngClassInvalid',
  '[class.ng-pending]': 'ngClassPending',
};

/**
 * @description
 * Directive automatically applied to Angular form controls that sets CSS classes
 * based on control status.
 *
 * @usageNotes
 *
 * ### CSS classes applied
 *
 * * ng-valid
 * * ng-invalid
 * * ng-pending
 * * ng-pristine
 * * ng-dirty
 * * ng-untouched
 * * ng-touched
 *
 * @ngModule ReactiveFormsModule
 * @ngModule FormsModule
 * @publicApi
 */
@Directive({selector:
  '[formControlName],[ngModel],[formControl]',
  host: ngControlStatusHost})
export class NgControlStatus extends AbstractControlStatus {
  constructor(@Self() cd: NgControl) { super(cd); }
}

/**
 * @description
 * Directive automatically applied to Angular form groups that sets CSS classes
 * based on control status (valid/invalid/dirty/etc).
 *
 * @see `NgControlStatus`
 *
 * @ngModule ReactiveFormsModule
 * @ngModule FormsModule
 * @publicApi
 */
@Directive({
  selector:
    '[formGroupName],[formArrayName],[ngModelGroup],[formGroup],form:not([ngNoForm]),[ngForm]',
  host:
    ngControlStatusHost
})
export class NgControlStatusGroup extends AbstractControlStatus {
  constructor(@Self() cd: ControlContainer) { super(cd); }
}

/**
 * A regular expression that matches
 * valid e-mail addresses.
 *
 * At a high level, this regexp matches e-mail addresses of the format `local-part@tld`,
 * where:
 * - `local-part` consists of one or more of the allowed characters (alphanumeric and some
 *   punctuation symbols);
 * - `local-part` cannot begin or end with a period (`.`);
 * - `tld` consists of one or more `labels` separated by periods (`.`).
 * For example `localhost` or `foo.com`; `A` `label` consists of one or more of the allowed characters (alphanumeric, dashes (`-`) and
 * periods (`.`));
 */

isNotEmptyInputValue(value: any): boolean {
  // we don't check for string here so it also works with arrays
  return value == null || value.length === 0;
}

/**
 * @description
 * An `InjectionToken` for registering additional
 * synchronous validators used with `AbstractControl`s.
 *
 * @see `NG_ASYNC_VALIDATORS`
 *
 * @publicApi
 */
export const NG_VALIDATORS = new InjectionToken<Array<Validator|Function>>('NgValidators');

/**
 * @description
 * An `InjectionToken` for registering additional asynchronous validators used with `AbstractControl`s.
 *
 * @see `NG_VALIDATORS`
 *
 * @publicApi
 */
export const NG_ASYNC_VALIDATORS = new InjectionToken<Array<Validator|Function>>('NgAsyncValidators');

/**
 * A regular expression that matches
 * valid e-mail addresses.
 *
 * At a high level, this regexp matches e-mail addresses of the format `local-part@tld`,
 * where:
 * - `local-part` consists of one or more of the allowed characters (alphanumeric and some
 *   punctuation symbols);
 * - `local-part` cannot begin or end with a period (`.`);
 * - `tld` consists of one or more `labels` separated by periods (`.`).
 * For example `localhost` or `foo.com`; `A` `label` consists of one or more of the allowed characters (alphanumeric, dashes (`-`) and
 * periods (`.`));
 */

isNotEmptyInputValue(value: any): boolean {
  // we don't check for string here so it also works with arrays
  return value == null || value.length === 0;
}

/**
 * A regular expression that matches
 * valid e-mail addresses.
 *
 * At a high level, this regexp matches e-mail addresses of the format `local-part@tld`,
 * where:
 * - `local-part` consists of one or more of the allowed characters (alphanumeric and some
 *   punctuation symbols);
 * - `local-part` cannot begin or end with a period (`.`);
 * - `tld` consists of one or more `labels` separated by periods (`.`).
 * For example `localhost` or `foo.com`; `A` `label` consists of one or more of the allowed characters (alphanumeric, dashes (`-`) and
 * periods (`.`));
 */

isNotEmptyInputValue(value: any): boolean {
  // we don't check for string here so it also works with arrays
  return value == null || value.length === 0;
}

/**
 * A regular expression that matches
 * valid e-mail addresses.
 *
 * At a high level, this regexp matches e-mail addresses of the format `local-part@tld`,
 * where:
 * - `local-part` consists of one or more of the allowed characters (alphanumeric and some
 *   punctuation symbols);
 * - `local-part` cannot begin or end with a period (`.`);
 * - `tld` consists of one or more `labels` separated by periods (`.`).
 * For example `localhost` or `foo.com`; `A` `label` consists of one or more of the allowed characters (alphanumeric, dashes (`-`) and
 * periods (`.`));
 */

isNotEmptyInputValue(value: any): boolean {
  // we don't check for string here so it also works with arrays
  return value == null || value.length === 0;
}

/**
 * A regular expression that matches
 * valid e-mail addresses.
 *
 * At a high level, this regexp matches e-mail addresses of the format `local-part@tld`,
 * where:
 * - `local-part` consists of one or more of the allowed characters (alphanumeric and some
 *   punctuation symbols);
 * - `local-part` cannot begin or end with a period (`.`);
 * - `tld` consists of one or more `labels` separated by periods (`.`).
 * For example `localhost` or `foo.com`; `A` `label` consists of one or more of the allowed characters (alphanumeric, dashes (`-`) and
 * periods (`.`));
 */

isNotEmptyInputValue(value: any): boolean {
  // we don't check for string here so it also works with arrays
  return value == null || value.length === 0;
}

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 * For example `localhost` or `foo.com`; `A` `label` consists of one or more of the allowed characters (alphanumeric, dashes (`-`) and
 * periods (`.`));
 */

isNotEmptyInputValue(value: any): boolean {
  // we don't check for string here so it also works with arrays
  return value == null || value.length === 0;
}
than 63 characters.

- The whole address cannot be longer than 254 characters.

- Disallow `local-part` to begin or end with a period (`.`).

- Disallow `local-part` length to exceed 64 characters.

- Disallow total address length to exceed 254 characters.

See [this commit](https://github.com/angular/angular.js/commit/f3f5cf72e) for more details.

The validator exists only as a function and not as a directive.

The validator requires the control's value to be greater than or equal to the provided number.

The valid address is parsed using this regex:

```
const EMAIL_REGEXP =
    /^(?=.{1,254}$)(?=.{1,64}@)[a-zA-Z0-9!#$%&'*+/=?^_`{|}~\-]+(?:\.[a-zA-Z0-9!#$%&'*+/=?^_`{|}~\-]+)*@[a-zA-Z0-9](?:[a-zA-Z0-9\-]{0,61}[a-zA-Z0-9])?(?:\.[a-zA-Z0-9](?:[a-zA-Z0-9\-]{0,61}[a-zA-Z0-9])?)*$/;
```

The `Validators` class contains the following validators:

- `required(control: AbstractControl): ValidationErrors|null`:
  If the control's value is empty, returns an error map with the `required` property.

- `requiredTrue(control: AbstractControl): ValidationErrors|null`:
  If the control's value is `false`, returns an error map with the `required` property.

- `min(control: AbstractControl): ValidationErrors | null`:
  Returns an error map with the `min` property if the validation check fails, otherwise `null`.

- `max(control: AbstractControl): ValidationErrors | null`:
  Returns an error map with the `max` property if the validation check fails, otherwise `null`.

The validators are used to validate form controls.

See [Form Validation](https://angular.io/guide/form-validation) for more information.

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* Validator that requires the control's value pass an email validation test.
* Tests the value using a [regular expression](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Guide/Regular_Expressions) pattern suitable for common usecases. The pattern is based on the definition of a valid email address in the [WHATWG HTML specification](https://html.spec.whatwg.org/multipage/input.html#valid-e-mail-address) with some enhancements to incorporate more RFC rules (such as rules related to domain names and the lengths of different parts of the address).
* The differences from the WHATWG version include:
  * - Disallow "local-part" (the part before the `@` symbol) to begin or end with a period (`.`).
  * - Disallow "local-part" to be longer than 64 characters.
  * - Disallow the whole address to be longer than 254 characters.
* If this pattern does not satisfy your business needs, you can use `Validators.pattern()` to validate the value against a different pattern.
* @usageNotes
  * @returns An error map with the `email` property if the validation check fails, otherwise `null`.
  * @see `updateValueAndValidity()`.
  * @static
  * @param pattern A regular expression to be used as is.
  * @returns A validator function that returns an error map with the `pattern` property if the validation check fails, otherwise `null`.
  * @see `updateValueAndValidity()`.
  * @static
  * @param maxLength A number.
  * @returns A validator function that returns an error map with the `maxlength` property if the validation check fails, otherwise `null`.
  * @see `updateValueAndValidity()`.
  * @static
  * @param minLength A number.
  * @returns A validator function that returns an error map with the `minlength` property if the validation check fails, otherwise `null`.
  * @see `updateValueAndValidity()`.

```html
<input pattern="^[a-zA-Z\s]*">
```
```typescript
const control = new FormControl('bad@', Validators.email);
```

```javascript
console.log(control.errors); // {email: true}
```

```typescript
const control = new FormControl('Angular', Validators.email);
```

```javascript
console.log(control.errors); // {email: true}
```
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 * found in the LICENSE file at https://angular.io/license
 */

import {AbstractControl} from '../model';
import {AsyncValidator, AsyncValidatorFn, Validator, ValidatorFn} from './validators';

export function normalizeValidator(validator: ValidatorFn | Validator): ValidatorFn {
  if ((<Validator>validator).validate) {
    return (c: AbstractControl) => (<Validator>validator).validate(c);
  } else {
    return <ValidatorFn>validator;
  }
}

export function normalizeAsyncValidator(validator: AsyncValidatorFn | AsyncValidator):
  AsyncValidatorFn {
  if ((<AsyncValidator>validator).validate) {
    return (c: AbstractControl) => (<AsyncValidator>validator).validate(c);
  } else {
    return <AsyncValidatorFn>validator;
  }
}

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 */

import {Directive, ElementRef, Renderer2, forwardRef} from '@angular/core';

import {ControlValueAccessor, NG_VALUE_ACCESSOR} from './control_value_accessor';

export const NUMBER_VALUE_ACCESSOR:
  any = {
  provide: NG_VALUE_ACCESSOR,
  useExisting: forwardRef(() => NumberValueAccessor),
  multi: true
};

/**
 * @description
 * The `ControlValueAccessor` for writing a number value and listening to
 * number input changes.
 * The value accessor is used by the `FormControlDirective`, `FormControlName`, and
### Using a number input with a reactive form.

The following example shows how to use a number input with a reactive form.

```ts
const totalCountControl = new FormControl();
```  

```html
<input type="number" [formControl]="totalCountControl">
```  

@Directive({
  selector: 'input[type=number][formControlName], input[type=number][formControl], input[type=number][ngModel]',
  host: {
    '(change)': 'onChange($event.target.value)',
    '(input)': 'onChange($event.target.value)',
    '(blur)': 'onTouched($event)'
  },
  providers: [NUMBER_VALUE_ACCESSOR]
})
export class NumberValueAccessor implements ControlValueAccessor {
  onChange = (_: any) => {};

  registerOnChange(fn: (_: number|null) => void): void {
    this.onChange = (value) => { fn(value == '' ? null : parseFloat(value)); };
  }

  registerOnTouched(fn: () => void): void {
    this.onTouched = fn;
  }

  setDisabledState(isDisabled: boolean): void {
    this._renderer.setProperty(this._elementRef.nativeElement, 'disabled', isDisabled);
  }
}
```

### Using radio buttons with reactive form directives

The following example shows how to use radio buttons in a reactive form. When using radio buttons in a reactive form, radio buttons in the same group should have the same `formControlName`.

```ts
import {RadioValueAccessor} from './radio_value_accessor';
```

```
@Directive({
  selector: 'input[type=radio][formControlName], input[type=radio][formControl], input[type=radio][ngModel]',
  host: {
    '(change)': 'onChange($event.target.value)',
    '(input)': 'onChange($event.target.value)',
    '(blur)': 'onTouched($event)'
  },
  providers: [RADIO_VALUE_ACCESSOR]
})
export class RadioControlRegistry {
  add(control: NgControl, accessor: RadioControlValueAccessor) {
    this._accessors.push([control, accessor]);
  }

  remove(accessor: RadioControlValueAccessor) {
    for (let i = this._accessors.length - 1; i >= 0; --i) {
      if (this._isSameGroup(this._accessors[i][1], accessor) && this._accessors[i][1] !== accessor) {
        this._accessors.splice(i, 1);
      }
    }
  }

  select(accessor: RadioControlValueAccessor) {
    this._accessors.forEach((c) => {
      if (this._isSameGroup(c[1], accessor) && c[1] !== accessor) {
        c[1].fireUncheck(accessor.value);
      }
    });
  }

  private _isSameGroup(c: [NgControl, RadioControlValueAccessor], accessor: RadioControlValueAccessor): boolean {
    return (c[0]._parent === accessor._parent && c[1] === accessor) || (c[0]._parent === accessor._parent && c[0] !== accessor && c[0]._parent === accessor._parent);
  }
}
```

```ts
input[type=radio][formControlName] = new FormControl();
```  

```html
<input type="radio" [formControl]="input[type=radio][formControlName]">
```
selector:'input[type=radio][formControlName],input[type=radio][formControl],input[type=radio][ngModel]'
  host: { 'change': 'onChange()', 'blur': 'onTouched()' },
  providers: [RADIO_VALUE_ACCESSOR]
}

export class RadioControlValueAccessor implements ControlValueAccessor,
  OnDestroy, OnInit {
  OnDestroy, OnInit {

  onTouched = () => {};

  onChange = () => {};

  // @description
  // Tracks the name of the 'FormControl' bound to the directive. The name corresponds
  // to a key in the parent 'FormGroup' or 'FormArray'.
  // REMOVEDirective: void ! @description
  // Tracks the value of the radio input element
  // @Input(): void
  inputFormGroup!: string
  @Input() value: any;

  constructor(
      private _renderer: Renderer2, private _elementRef: ElementRef,
      private _registry: RadioControlRegistry, private _injector: Injector) {}

  ngOnInit(): void {
    this._control = this._injector.get(NgControl);
    this._register(this._control);
  }

  ngOnChanges(): void { this._register(this._control); }

  writeValue(value: any): void {
    this._state = value === this.value;
    this._renderer.setProperty(this._elementRef.nativeElement, 'checked', this._state);
  }

  registerOnchange(fn: (_: any) => {}): void {
    this.onChange = fn;
  }

  registerOnTouched(fn: () => {}): void {
    this.onTouched = fn;
  }

  setDisabledState(isDisabled: boolean): void {
    this._renderer.setProperty(this._elementRef.nativeElement, 'disabled', isDisabled);
  }

  private _register(control: NgControl): void {
    this._registry.add(control, this);
  }

  private onChange = () => {};

  private onTouched = () => {};

  private _checkName(): void {
    if (this.name && this.formControlName &&
        this.name !== this.formControlName) {
      throw new Error(`If you define both a name and a formControlName attribute on your radio button, their values
matches. Ex: <input type="radio" formControlName="food" name="food">
    `);
    }
    if (!this.name &&
        this.formControlName) this.name = this.formControlName;
  }

  // @description
  // Tracks the state of the radio input element
  // @param value
  // @description
  // Registers a function called when the control value changes.
  // @Input(): void
  // This function is used by the a range input.
  // The value accessor is used by the 'FormControlDirective',
  // 'FormControlName', and 'NgModelValue' directives.
  // @directories, @Input(): void
  // Using a range input with a reactive form
  // The following example shows how to use a range input with a reactive form.
  // const ageControl = new FormControl(0);
  // @license
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  // Use of this source code is governed by an MIT-style license that can be
  // found in the LICENSE file at https://angular.io/license
  // @publicApi
  // @ngModule ReactiveFormsModule
  // @ngModule FormsModule
  // from '@angular/core';
  // import { FormControlDirective, FormControlName,
  //        DynamicFormModule } from '@angular/forms';
  // import {ControlValueAccessor, NG_VALUE_ACCESSOR}
  // from '@angular/forms';
  // export class RangeValueAccessor
  //   extends ControlValueAccessor {
      constructor(
          private _renderer: Renderer2,
          private _elementRef: ElementRef,
          private _registry: RadioControlRegistry,
          private _injector: Injector) {}

      ngOnInit(): void {
          this._control = this._injector.get(NgControl);
          this._register(this._control);
      }

      ngOnChanges(): void { this._register(this._control); }

      writeValue(value: any): void {
          this._state = value === this.value;
          this._renderer.setProperty(this._elementRef.nativeElement, 'checked', this._state);
      }

      registerOnchange(fn: (_: any) => {}): void {
          this.onChange = fn;
      }

      registerOnTouched(fn: () => {}): void {
          this.onTouched = fn;
      }

      setDisabledState(isDisabled: boolean): void {
          this._renderer.setProperty(this._elementRef.nativeElement, 'disabled', isDisabled);
      }

      private _register(control: NgControl): void {
          this._registry.add(control, this);
      }

      private onChange = () => {};

      private onTouched = () => {};

      private _checkName(): void {
          if (this.name && this.formControlName &&
              this.name !== this.formControlName) {
      throw new Error(`If you define both a name and a formControlName attribute on your radio button, their values
match. Ex: <input type="radio" formControlName="food" name="food">
    `);
          }
          if (!this.name &&
              this.formControlName) this.name = this.formControlName;
      }

      // @description
      // Tracks the state of the radio input element
      // @param value
      // @description
      // Registers a function called when the control value changes.
      // @Input(): void
      // This function is used by the a range input.
      // The value accessor is used by the 'FormControlDirective',
      // 'FormControlName', and 'NgModelValue' directives.
      // @directories, @Input(): void
      // Using a range input with a reactive form
      // The following example shows how to use a range input with a reactive form.
      // const ageControl = new FormControl(0);
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      // found in the LICENSE file at https://angular.io/license
      // @publicApi
      // @ngModule ReactiveFormsModule
      // @ngModule FormsModule
      // from '@angular/core';
      // import { FormControlDirective, FormControlName,
      //        DynamicFormModule } from '@angular/forms';
      // import {ControlValueAccessor, NG_VALUE_ACCESSOR}
      // from '@angular/forms';
      // export class RangeValueAccessor
      //   extends ControlValueAccessor {

implements ControlValueAccessor {
  * @description
  * The registered callback function called when a change or input event occurs on the input
  * element.
  * @param value The checked value
  * @param fn The callback function
  * @param isDisabled
  * @description
  * Registers a function called when the range input element
  * @param fn The callback function
  * @param isDisabled: boolean
  * void {
  * this._renderer.setProperty(this._elementRef.nativeElement, 'value',
  * parseFloat(value));
  * } */
  * WriteValue(value:
  * any): void {
  * this._renderer.setProperty(this._elementRef.nativeElement, 'value',
  * parseFloat(value));
  * }

  */
  * @description
  * Sets the "value" property on the input element.
  * @param value The checked value
  * @param fn The callback function
  * @param isDisabled: boolean
  * void {
  * this._renderer.setProperty(this._elementRef.nativeElement, 'value',
  * parseFloat(value));
  * }

  */
  * @description
  * Registers a function called when the range input element
  * @param fn The callback function
  * @param isDisabled: boolean
  * void {
  * this._renderer.setProperty(this._elementRef.nativeElement, 'value',
  * parseFloat(value));
  * }

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  * Registers a function called when the range input element
  * @param fn The callback function
  * @param isDisabled: boolean
  * void {
  * this._renderer.setProperty(this._elementRef.nativeElement, 'value',
  * parseFloat(value));
  * }

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  * }

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  * @param isDisabled: boolean
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  * parseFloat(value));
  * }

  */
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  * @param isDisabled: boolean
  * void {
  * this._renderer.setProperty(this._elementRef.nativeElement, 'value',
  * parseFloat(value));
  * }"*/

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 */

export const FormErrorExamples = {
  formControlName: `  <div [formGroup]="myGroup">
       <input formControlName="firstName">
    </div>

    In your class:

    this.myGroup = new FormGroup({
       firstName: new FormControl()
    });`,

  formGroupName: `  <div [formGroup]="myGroup">
       <div formGroupName="person">
          <input formControlName="firstName">
       </div>
    </div>

    In your class:

    this.myGroup = new FormGroup({
       person: new FormControl()
    });`,

  formArrayName: `  <div [formGroup]="myGroup">
      <div formArrayName="cities">
         <div *ngFor="let city of cityArray.controls; index as i">
          <input [formControlName]="i">
        </div>
      </div>
    </div>

    In your class:

    this.cityArray = new FormArray([new FormControl('SF')]);
    this.myGroup = new FormGroup({
      cities: this.cityArray
    });`,

  ngModelGroup: `  <form>
       <div ngModelGroup="person">
          <input [(ngModel)]="person.name" name="firstName">
       </div>
    </form>`,

  ngModelWithFormGroup: `  <div [formGroup]="myGroup">
       <input formControlName="firstName">
       <input [(ngModel)]="showMoreControls" [ngModelOptions]="{standalone: true}">
    </div>`
};

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 * found in the LICENSE file at https://angular.io/license
 */

import {FormErrorExamples as Examples} from './error_examples';

export class ReactiveErrors {
  static controlParentException(): void {
    throw new Error(`formControlName must be used with a parent
       formGroup directive. You'll want to add a formGroup
       directive and pass it an existing FormGroup instance
       (you can create one in your class).

      Example:

      {
       Examples.formControlName}`);
  }

  static ngModelGroupException(): void {
    throw new Error(`formControlName cannot be used with an
       ngModelGroup parent. It is only compatible with parents
       that also have a "form" prefix: formGroupName, formArrayName, or formGroup.

       Option 1: Update the parent to be formGroupName (reactive form
       strategy)

       {
       Examples.formGroupName}`);

  static missingFormException(): void {
    throw new Error(`formGroup expects a FormGroup instance. Please pass one in.

       Example:

       {
       Examples.formGroupName}`);

  static groupParentException(): void {
    throw new Error(`formGroupName must be used with a parent formGroup
       directive. You'll want to add a formGroup
       directive and pass it an existing FormGroup instance
       (you can create one in your class).

      Example:

      {
      Examples.formGroupName}`);

  static arrayParentException(): void {
    throw new Error(`formArrayName must be used with a parent formGroup
       directive. You'll want to add a formGroup
       directive and pass it an existing FormGroup instance
       (you can create one in your class).

      Example:

      {
      Examples.formArrayName}`);

  static disabledAttrWarning(): void {
    console.warn(`
      It looks like
      you're using the disabled attribute with a reactive form directive. If you set disabled to true
      when you set up this

      Example:

      {
      Examples.formGroupName}`);

  static controlParentException(): void {
    throw new Error(`formControlName must be used with a parent
       formGroup directive. You'll want to add a formGroup
       directive and pass it an existing FormGroup instance
       (you can create one in your class).

      Example:

      {
      Examples.formControlName}`);

  static ngModelGroupException(): void {
    throw new Error(`formControlName cannot be used with an
       ngModelGroup parent. It is only compatible with parents
       that also have a "form" prefix: formGroupName, formArrayName, or formGroup.

       Option 1: Update the parent to be formGroupName (reactive form
       strategy)

       {
       Examples.formGroupName}`);

  static missingFormException(): void {
    throw new Error(`formGroup expects a FormGroup instance. Please pass one in.

       Example:

       {
       Examples.formGroupName}`);

  static arrayParentException(): void {
    throw new Error(`formArrayName must be used with a parent formGroup
       directive. You'll want to add a formGroup
       directive and pass it an existing FormGroup instance
       (you can create one in your class).

      Example:

      {
      Examples.formArrayName}`);}
control in your component class, the disabled attribute will actually be set in the DOM for
you. We recommend using this approach to avoid 'changed after checked' errors.

Example:

```typescript
form = new FormGroup({
  first: new FormControl({value: 'Nancy', disabled: true}, Validators.required),
  last: new FormControl('Drew', Validators.required)
});
```

```typescript
static ngModelWarning(directiveName: string): void {
  console.warn(`
  It looks like you're using ngModel on the same form field as ${directiveName}. 
  Support for using the ngModel input property and ngModelChange event with reactive form directives has been deprecated in Angular v6 and will be removed in Angular v7.`);
}
```

```typescript
export const SELECT_VALUE_ACCESSOR: StaticProvider = {
  provide: NG_VALUE_ACCESSOR,
  useExisting:
  forwardRef(() => SelectControlValueAccessor),
  multi: true
};
```

```typescript
function _buildValueString(id: string | null, value: any): string {
  if (id == null) return `${value}`;
  if (value && typeof value === 'object') value = 'Object';
  return `${id}: ${value}`.slice(0, 50);
}
```

```typescript
function _extractId(valueString: string): string {
  return valueString.split(':')[0];
}
```

```typescript
/**
 * @description
 * The `ControlValueAccessor` for writing select control values and listening to select control changes. The value accessor is used by the `FormControlDirective`, `FormControlName`, and `NgModel` directives.
 *
 * @usageNotes
 *
 * ### Using select controls in a reactive form
 *
 * The following examples show how to use a select control in a reactive form.
 *
 * ```ts
 * const selectedCountriesControl = new FormControl();
 * ```
 *
 * ```
 * <select 
 *      [formControl]='selectedCountriesControl'>
 *     <option *ngFor="let country of countries"
 *             [ngValue]='country'>
 *         {{country.name}}
 *     </option>
 * </select>
 *
 * compareFn(c1: Country, c2: Country): boolean {
 *     return c1 && c2 ? c1.id === c2.id : c1 === c2;
 * }
 * ```
 *
 * **Note:** We listen to the 'change' event because 'input' events aren't fired on selects in Firefox and IE:
 * https://bugzilla.mozilla.org/show_bug.cgi?id=1024350
 *
 * @ngModule ReactiveFormsModule
 * @ngModule FormsModule
 *
 * @publicApi
 */
@Directive({
  selector: 
    'select:not([multiple])[formControlName],select:not([multiple])[formControl],select:not([multiple])[ngModel],
    host: {
      '(change)': 'onChange($event.target.value)',
      '(blur)': 'onTouched()',
    },
  providers:
    [SELECT_VALUE_ACCESSOR],
})
export class SelectControlValueAccessor implements ControlValueAccessor {
  value: any;
  /** @internal */
  _optionMap: Map<string, any> = new Map<string, any>();
  /** @internal */
  _idCounter: number = 0;

  /**
   * @description
   * The registered callback function called when a change event occurs on the input element.
   */
  onChange = (_: any) => {};

  /**
   * The registered callback function called when a blur event occurs on the input element.
   */
  onTouched = () => {};

  constructor(
    @Optional() @Directive('@select') @select: SelectControlValueAccessor,
    @select: SelectControlValueAccessor
  )
```
if (typeof fn !== 'function') {
  throw new Error(`compareWith must be a function, but received
${JSON.stringify(fn)}`);
}
  this._compareWith = fn;
}

  private _compareWith: (o1: any, o2: any) =>
  boolean = looseIdentical;

  constructor(private _renderer: Renderer2, private _elementRef: ElementRef) {}

/**
   * Sets the "value" property on the input element. The "selectedIndex"
   * property is also set if an ID is
   * provided on the option element.
 */
  writeValue(value: any): void
  {
    this.value = value;
    const id: string|null = this._getOptionId(value);
    if (id == null) {
      this._renderer.setProperty(this._elementRef.nativeElement, 'selectedIndex', -1);
    }
    const valueString =
      _buildValueString(id, value);
    this._renderer.setProperty(this._elementRef.nativeElement, 'value', valueString);
  }

  /**
   * Registers a function called when the control value changes.
   */
  registerOnChange(fn: (value: any) =>
  any): void {
    this.onChange = (valueString: string) => {
      this.value = this._getOptionValue(valueString);
      fn(this.value);
    };
  }

  /**
   * Registers a function called when the control is touched.
   */
  registerOnTouched(fn: () =>
  any): void { this.onTouched = fn; }

  /**
   * Sets the "disabled"
   * property on the select input element.
 */
  setDisabledState(isDisabled: boolean): void
  {
    this._renderer.setProperty(this._elementRef.nativeElement, 'disabled', isDisabled);
  }

  /** @internal */
  _registerOption(): string { return (this._idCounter++).toString();
}

  /** @internal */
  _getOptionId(value: any): string|null {
    for (const id of
      Array.from(this._optionMap.keys())) {
      if (this._compareWith(this._optionMap.get(id), value)) return id;
    }
    return null;
  }

  /** @internal */
  _getOptionValue(valueString: string): any {
    const id: string =
      _extractId(valueString);
    return this._optionMap.has(id) ? this._optionMap.get(id) : valueString;
  }
}

/**
 * Marks `<option>` as dynamic, so Angular can be notified when options change.
 *
 * @see `SelectControlValueAccessor`
 *
 * @ngModule ReactiveFormsModule
 * @ngModule FormsModule
 *
 * @publicApi
 */
@Directive({selector: 'option'})
export class NgSelectOption implements OnDestroy {
  /**
   * ID of the option element
   */
  // TODO(issue/24571): remove '!'.
  id !: string;

  constructor(
      private _element: ElementRef, private _renderer: Renderer2,
      @Optional() @Host() private
      _select: SelectControlValueAccessor) {
    if (this._select) this.id = this._select._registerOption();
  }

  /**
   * Tracks the value bound to the option element.
   * For objects, use the `ngValue` input binding.
   */
  @Input('ngValue')
  set ngValue(value: any) {
    if (this._select == null) return;
    this._select._optionMap.set(this.id, value);
    this._setElementValue(_buildValueString(this.id, value));
    this._select.writeValue(this._select.value);
  }

  /**
   * Lifecycle method called before the directive's instance is
   * destroyed. For internal use only.
   */
  ngOnDestroy(): void {
    if (this._select) {
      this._select._optionMap.delete(this.id);
      this._select.writeValue(this._select.value);
    }
  }
}

/**
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 * found in the LICENSE file at https://angular.io/license
 */

import {Directive,
  ElementRef, Host, Input, OnDestroy, Optional, Renderer2, StaticProvider, forwardRef, ɵlooseIdentical as
  looseIdentical} from '@angular/core';

import {ControlValueAccessor, NG_VALUE_ACCESSOR} from
  './control_value_accessor';

export const SELECT_MULTIPLE_VALUE_ACCESSOR: StaticProvider = {
  provide: NG_VALUE_ACCESSOR,
  useExisting: forwardRef(() => SelectMultipleControlValueAccessor),
  multi: true
};

function _buildValueString(id, value): string 
{ return `${id}: ${value}`; }

function _extractId(valueString: string): string 
{ return valueString.split(':')[0]; }

Mock interface for HTML Options */
interface HTMLOption {
    value: string;
    selected: boolean;
}

Mock interface for HTMLCollection */
interface HTMLCollection {
    length : number;
    abstract item(_: number): HTMLOption;
}
The `ControlValueAccessor` for writing multi-select control values and listening to multi-select control
changes. The value accessor is used by the `FormControlDirective`, `FormControlName`, and `NgModel` directives.

Customizing option selection
To customize the default option comparison algorithm, `selectControl` supports `compareWith` input.
See the `SelectControlValueAccessor` for usage.

Using a multi-select control
The follow example shows how to use a multi-select control with a reactive form.

```ts
const countryControl = new FormControl();
```

```html
<select multiple name="countries" [formControl]="countryControl">
  <option *ngFor="let country of countries" [ngValue]="country.name">
    {{ country.name }}
  </option>
</select>
```

Customizing option selection
To customize the default option comparison algorithm, `selectControl` supports `compareWith` input.

```ts
constructor(private _renderer: Renderer2, private _elementRef: ElementRef) {}
```

```html
<select multiple
>`
```

```ts
private _registerOption(value: ɵNgSelectMultipleOption): string {
  const id: string = (this._idCounter++).toString();
  this._optionMap.set(id, value);
  return id;
}
```

```html
<option *ngFor="let country of countries" [ngValue]="country.name">
  {{ country.name }}
</option>
```

```ts
registerOnChange(fn: (value: any) => any): void {
  this.onChange = (_: any) => {
    const selected: Array<any> = [];
    if (_.hasOwnProperty('selectedOptions')) {
      const options: HTMLCollection = _.selectedOptions;
      for (let i = 0; i < options.length; i++) {
        const opt: any = options.item(i);
        const val: any = this._getOptionValue(opt.value);
        selected.push(val);
      }
    } else {
      const options: HTMLCollection = <HTMLCollection>_.options;
      for (let i = 0; i < options.length; i++) {
        const opt: HTMLOption = options.item(i);
        if (opt.selected) {
          const val: any = this._getOptionValue(opt.value);
          selected.push(val);
        }
      }
    }
    this.value = selected;
    fn(selected);
  }
```

```html
onTouched(): void {
  this.onTouched = fn;
}
```

```ts
setDisabledState(isDisabled: boolean): void {
  this._renderer.setProperty(this._elementRef.nativeElement, 'disabled', isDisabled);
}
```

```html
onTouched() {
  void (\n    this.value = value;
    let optionSelectedStateSetter: (opt: ɵNgSelectMultipleOption, o: any) => void;
    if (Array.isArray(value)) {
      // convert values to ids
      const ids = value.map((v) => this._getOptionId(v));
      optionSelectedStateSetter = (opt, o) => {
        opt._setSelected(ids.indexOf(o.toString()) > -1);
      };
    } else {
      optionSelectedStateSetter = (opt, o) => {
        opt._setSelected(false);
      };
    }
    this._optionMap.forEach(optionSelectedStateSetter);
  }
```

```html
writeValue(value: any): void {
  if (\n    this.value = value;
  let optionSelectedStateSetter: (opt: ɵNgSelectMultipleOption, o: any) => void;
  if (Array.isArray(value)) {\n    // convert values to ids
    const ids = value.map((v) => this._getOptionId(v));
    optionSelectedStateSetter = (opt, o) => {
      opt._setSelected(ids.indexOf(o.toString()) > -1);
    };
  } else {
    optionSelectedStateSetter = (opt, o) => {
      opt._setSelected(false);
    };
  }
  this._optionMap.forEach((optionSelectedStateSetter) => {
    this._registerOption(value: ɵNgSelectMultipleOption): string {
      const id: string = (this._idCounter++).toString();
      this._optionMap.set(id, value);
      return id;
    }
```

```html
<option *ngFor="let country of countries" [ngValue]="country.name">
  {{ country.name }}
</option>
```

```ts
private _getOptionId(value: any): string|null {
  for (const id of Array.from(this._optionMap.keys())) {
    if (this._compareWith(this._optionMap.get(id)!.value, value)) return id;
  }
  return null;
}
```

```html
<option *ngFor="let country of countries" [ngValue]="country.name">
  {{ country.name }}
</option>
```

```ts
private _getOptionValue(valueString: string): any {
  const id: string = _extractId(valueString);
  return this._optionMap.has(id) ? this._optionMap.get(id)!.value : null;
}
```

```html
<option *ngFor="let country of countries" [ngValue]="country.name">
  {{ country.name }}
</option>
```

```ts
constructor(private _renderer: Renderer2, private _elementRef: ElementRef) {}
```

```html
<select multiple
>`
```

```ts
constructor(private _renderer: Renderer2, private _elementRef: ElementRef) {}
```

```html
<option *ngFor="let country of countries" [ngValue]="country.name">
  {{ country.name }}
</option>
```

```ts
private _registerOption(value: ɵNgSelectMultipleOption): string {
  const id: string = (this._idCounter++).toString();
  this._optionMap.set(id, value);
  return id;
}
```

```html
<option *ngFor="let country of countries" [ngValue]="country.name">
  {{ country.name }}
</option>
```

```ts
registerOnTouched(fn: () => any): void {
  this.onTouched = fn;
}
```

```html
<option *ngFor="let country of countries" [ngValue]="country.name">
  {{ country.name }}
</option>
```

```ts
setDisabledState(isDisabled: boolean): void {
  this._renderer.setProperty(this._elementRef.nativeElement, 'disabled', isDisabled);
}
```

```html
<option *ngFor="let country of countries" [ngValue]="country.name">
  {{ country.name }}
</option>
```

```ts
constructor(private _renderer: Renderer2, private _elementRef: ElementRef) {}
```

```html
<select multiple
>`
```

```ts
constructor(private _renderer: Renderer2, private _elementRef: ElementRef) {}
```

```html
<option *ngFor="let country of countries" [ngValue]="country.name">
  {{ country.name }}
</option>
```

```ts
registerOnTouched(fn: () => any): void {
  this.onTouched = fn;
}
```

```html
<option *ngFor="let country of countries" [ngValue]="country.name">
  {{ country.name }}
</option>
```

```ts
constructor(private _renderer: Renderer2, private _elementRef: ElementRef) {}
```

```html
<select multiple
>`
```

```ts
constructor(private _renderer: Renderer2, private _elementRef: ElementRef) {}
```

```html
<option *ngFor="let country of countries" [ngValue]="country.name">
  {{ country.name }}
</option>
```
valueString;
  }
}

/**
 * @description
 * Marks `<option>` as dynamic, so Angular can be notified when
 * options change.
 *
 * @see `SelectMultipleControlValueAccessor`
 * @ngModule ReactiveFormsModule
 * @ngModule FormsModule
 * @publicApi
 */

@Directive({selector: 'option'})
export class ɵNgSelectMultipleOption implements OnDestroy {
  // TODO(issue/24571): remove !.
  id !: string;

  constructor(
      private _element: ElementRef, private _renderer: Renderer2,
      @Optional() @Host() private _select: SelectMultipleControlValueAccessor) {
    if (this._select) this.id = this._select._registerOption(this);
  }

  /**
   * @description
   * Tracks the value bound to the option element.
   * For objects, use the `ngValue` input binding.
   */
  @Input('ngValue')
  set ngValue(value: any) {
    if (this._select == null) return;
    this._value = value;
    this._setElementValue(_buildValueString(this.id, value));
    this._select.writeValue(this._select.value);
  }

  /**
   * @description
   * Tracks simple string values bound to the option element.
   */
  @Input('value')
  set value(value: any) {
    if (this._select) {
      this._value = value;
      this._setElementValue(_buildValueString(this.id, value));
      this._select.writeValue(this._select.value);
    } else {
      this._setElementValue(value);
    }
  }

  /** @internal */
  _setElementValue(value: string): void {
    this._renderer.setProperty(this._element.nativeElement, 'value', value);
  }

  /** @internal */
  _setSelected(selected: boolean) {
    this._renderer.setProperty(this._element.nativeElement, 'selected', selected);
  }

  /**
   * @description
   * Lifecycle method called before the directive's instance is destroyed.
   * For internal use only.
   */
  ngOnDestroy(): void {
    if (this._select) {
      this._select._optionMap.delete(this.id);
      this._select.writeValue(this._select.value);
    }
  }
}

export {ɵNgSelectMultipleOption as NgSelectMultipleOption};

/**
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 * https://angular.io/license
 */

import {isDevMode, ɵlooseIdentical as looseIdentical} from '@angular/core';

import {FormArray, FormControl, FormGroup} from '../model';
import {Validators} from '../validators';
import {AbstractControlDirective} from './abstract_control_directive';
import {AbstractFormGroupDirective} from './abstract_form_group_directive';
import {CheckboxControlValueAccessor} from './checkbox_value_accessor';
import {ControlContainer} from './control_container';
import {ControlValueAccessor} from './control_value_accessor';
import {DefaultValueAccessor} from './default_value_accessor';
import {normalizeAsyncValidator, normalizeValidator} from './normalize_validator';
import {NumberValueAccessor} from './number_value_accessor';
import {RadioControlValueAccessor} from './radio_control_value_accessor';
import {RangeValueAccessor} from './range_value_accessor';
import {SelectControlValueAccessor} from './select_control_value_accessor';
import {SelectMultipleControlValueAccessor} from './select_multiple_control_value_accessor';
import {AsyncValidator, AsyncValidatorFn, Validator, ValidatorFn} from './validators';

function controlPath(name: string | null, parent: ControlContainer): string[] {
  return [...parent.path !, name !];
}

function setUpControl(control: FormControl, dir: NgControl): void {
  if (!control) _throwError(dir, 'Cannot find control with');
  if (!dir.valueAccessor) _throwError(dir, 'No value accessor for form control with');

  control.validator = Validators.compose([control.validator !, dir.validator]);
  control.asyncValidator = Validators.composeAsync([control.asyncValidator !, dir.asyncValidator]);

  setUpViewChangePipeline(control, dir);
  setUpModelChangePipeline(control, dir);

  setUpBlurPipeline(control, dir);

  if (dir.valueAccessor != null) {
    dir.valueAccessor.setDisabledState = (isDisabled: boolean) => {
      dir.valueAccessor.setDisabledState(isDisabled);
    };
  }

  // re-run validation when validator binding changes, e.g. minlength=3 -> minlength=4
  dir.valueAccessor.registerOnValidatorChange((validator: Validator | ValidatorFn) => {
    if (validator != null)
      validator.registerOnValidatorChange(() => dir.valueAccessor.updateValueAndValidity());
  });

  if (dir.valueAccessor) dir.valueAccessor.setValue(control.value);

  if (dir.asyncValidator) dir.asyncValidator.setValue(control.value);

  if (dir.disabled) dir.disabled = true;

  const controlPath = controlPath('control', dir);
AsyncValidatorFn) => {
    if ((<Validator>validator).registerOnValidatorChange)
      (validator).registerOnValidatorChange(!(() => control.updateValueAndValidity());
  });
}

export function cleanUpControl(control: FormControl, dir: NgControl) {
  dir.valueAccessor !.registerOnChange(() => _noControlError(dir));
}

function setUpViewChangePipeline(control: FormControl, dir: NgControl): void {
  dir.valueAccessor !.registerOnChange((newValue: any) => {
    control._pendingChange = false;
    control._pendingDirty = true;
    control.setValue(newValue, {emitModelToViewChange: false});
    control._pendingChange = true;
    control._pendingDirty = false;
  });
}

function setUpBlurPipeline(control: FormControl, dir: NgControl): void {
  dir.valueAccessor !.registerOnTouched(() => _noControlError(dir));
  dir.valueAccessor !.registerOnTouched(control._pendingTouched = true; 
  if (control.updateOn === 'blur' && control._pendingChange) 
    updateControl(control, dir); 
}

function setUpModelChangePipeline(control: FormControl, dir: NgControl): void {
  control.registerOnChange((newValue: any, emitModelEvent: boolean) => {
    // control -> view
    dir.valueAccessor !.writeValue(newValue);
    // control -> ngModel
    if (emitModelEvent)
      dir.viewToModelUpdate(newValue);
  });
}

export function composeValidators(validators: Array<Validator|ValidatorFn>): ValidatorFn|null {
  return validators != null ? Validators.compose(validators.map(normalizeValidator)) : null;
}

export function composeAsyncValidators(validators: Array<AsyncValidator|AsyncValidatorFn>): AsyncValidatorFn|null {
  return validators != null ? Validators.composeAsync(validators.map(normalizeAsyncValidator)) : null;
}

export function isPropertyUpdated(changes: {[key: string]: any}, viewModel: any): boolean {
  if (!changes.hasOwnProperty('model')) return false;
  const change = changes['model'];

  if (change.isFirstChange()) return true;
  return !looseIdentical(viewModel, change.currentValue);
}

const BUILTIN_ACCESSORS = [
  CheckboxControlValueAccessor,
  RangeValueAccessor,
  NumberValueAccessor,
  SelectControlValueAccessor,
  SelectMultipleControlValueAccessor,
  RadioControlValueAccessor,
];

export function isBuiltInAccessor(valueAccessor: ControlValueAccessor): boolean {
  return BUILTIN_ACCESSORS.some(a => valueAccessor.constructor === a);
}

export function syncPendingControls(form: FormGroup, directives: NgControl[]): void {
  form._syncPendingControls();
  directives.forEach(dir => {
    const control = dir.control as FormControl;
    if (control.updateOn === 'submit' && control._pendingChange) {
      dir.viewToModelUpdate(control._pendingValue);
      control._pendingChange = false;
    }
  });
}

// TODO: vsavkin remove it once https://github.com/angular/angular/issues/3011 is implemented
export function selectValueAccessor(
    dir: NgControl, valueAccessors: ControlValueAccessor[]): ControlValueAccessor|null {
  if (!valueAccessors) return null;
  if (!Array.isArray(valueAccessors))
    _throwError(dir, 'Value accessor was not provided as an array for form control with');
  let defaultAccessor: ControlValueAccessor|undefined = undefined;
  let builtinAccessor: ControlValueAccessor|undefined = undefined;
  let customAccessor: ControlValueAccessor|undefined = undefined;

undefined;

  valueAccessors.forEach((v: ControlValueAccessor) => {
    if (v.constructor === DefaultValueAccessor) {
      defaultAccessor = v;
    } else if (isBuiltInAccessor(v)) {
      if (builtinAccessor)
        _throwError(dir, 'More than one built-in value accessor matches form control with');
      builtinAccessor = v;
    } else {
      if (customAccessor)
        _throwError(dir, 'More than one custom value accessor matches form control with');
      customAccessor = v;
    }
  });

  if (customAccessor) return customAccessor;
  if (builtinAccessor) return builtinAccessor;
  if (defaultAccessor) return defaultAccessor;

  _throwError(dir, 'No valid value accessor for form control with');
  return null;
}

export function removeDir<T>(list: T[], el: T): void {
  const index = list.indexOf(el);
  if (index > -1) list.splice(index, 1);
}

// TODO(kara): remove after deprecation period
export function _ngModelWarning(name: string, type: {_ngModelWarningSentOnce: boolean}, warningConfig: string | null) {
  if (!isDevMode() || warningConfig === 'never') return;

  if (((warningConfig === null || warningConfig === 'once') && !type._ngModelWarningSentOnce) ||
      (warningConfig === 'always' && !instance._ngModelWarningSent)) {
    ReactiveErrors.ngModelWarning(name);
    type._ngModelWarningSentOnce = true;
    instance._ngModelWarningSent = true;
  }
}

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 * found in the LICENSE file at https://angular.io/license
 */

import {EventEmitter} from '@angular/core';
import {Observable} from 'rxjs';
import {composeAsyncValidators, composeValidators} from './directives/shared';
import {AsyncValidatorFn, ValidationErrors, ValidatorFn} from './directives/validators';
import {toObservable} from './validators';

/**
 * Reports that a FormControl is valid,
 * meaning that no errors exist in the input value.
 * @see `status`
 */
export const VALID = 'VALID';

/**
 * Reports that a FormControl is invalid, meaning that an error exists in the input value.
 * @see `status`
 */
export const INVALID = 'INVALID';

/**
 * Reports that a FormControl is pending, meaning that async validation is occurring and errors are not yet available for the input value.
 * @see `status`
 */
export const PENDING = 'PENDING';

/**
 * Reports that a FormControl is disabled,
 * meaning that the control is exempt from ancestor calculations of validity or value.
 * @see `status`
 */
export const DISABLED = 'DISABLED';

function _find(control: AbstractControl, path: Array<string|number>| string, delimiter: string) {
  if (path == null) return null;

  if (!Array.isArray(path)) {
    path = path.split(delimiter);
  }
  if (Array.isArray(path) && path.length === 0)
    return null;

  // Not using Array.reduce here due to a Chrome 80 bug

  let controlToFind: AbstractControl|null = control;
  path.forEach((name: string | number) => {
    if (controlToFind instanceof FormGroup) {
      controlToFind = controlToFind.controls.hasOwnProperty(name as string) ?
          controlToFind.controls[name as string] : null;
    } else if (controlToFind instanceof FormArray) {
      controlToFind = controlToFind.at(<number>name) || null;
    } else {
      controlToFind = null;
    }
  });
  return controlToFind;
}

function coerceToValidator(validatorOrOpts?: ValidatorFn | ValidatorFn[] | AbstractControlOptions | null): ValidatorFn|null {
  const validator =
      (isOptionsObj(validatorOrOpts) ?
        (validatorOrOpts as AbstractControlOptions).validators :
                                       validatorOrOpts) as ValidatorFn |
      ValidatorFn | ValidatorFn[] | null;

  return Array.isArray(validator) ?
    composeValidators(validator) : validator ||
    null;
}

function coerceToAsyncValidator(asyncValidator?: AsyncValidatorFn | AsyncValidatorFn[] | null, validatorOrOpts?: ValidatorFn |
        ValidatorFn[] | AbstractControlOptions | null): AsyncValidatorFn|null {
  const origAsyncValidator =
      (isOptionsObj(validatorOrOpts) ?
        (validatorOrOpts as AbstractControlOptions).validators :
                                       validatorOrOpts as AsyncValidatorOptions).validators.
    null?
      ValidatorFn[] : null;

  return Array.isArray(validator) ?
    composeAsyncValidators(validator) : validator
    ||
    null;
}

export type FormHooks = 'change' | 'blur' | 'submit';

interface AbstractControlOptions {
  /**
   * @description
   * The list of validators applied to a control.
   */
  validators?: ValidatorFn|ValidatorFn[]|null;
  /**
   * @description
   * The list of async validators applied to a control.
   */
  asyncValidators?: AsyncValidatorFn[]|null;
}

interface AbstractControlOptions | ValidatorFn | ValidatorFn[] | AsyncValidatorFn | AsyncValidatorOptions | FormHooks | Observable | any;

AsyncValidatorFn[AsyncValidatorFn][null;] **in * @description* * The event name for control to update upon.

*An updateOn: 'change'|'blur'|'submit';* **in the* **function isOptionsObj* **validatorOrOpts?: ValidatorFn | ValidatorFn[] | AbstractControlOptions | null;** boolean { return validatorOrOpts != null && !Array.isArray(validatorOrOpts) } **&|** typeOf validatorOrOpts === 'object'; **in** **in*/** **in * This is the base class for 'FormControl', 'FormGroup', and 'FormArray'.

*An * **in * @see [Forms Guide](/guide/forms)/guide/forms/* **in @see [Reactive Forms Guide](/guide/ reactive-forms)* **in @see [Dynamic Forms Guide](/guide/dynamic-form)* **in */** **in * @publicApi * **in */** **in * @export abstract class

AbstractControl { **in */** **in * @ TODO(issue/24571): remove '!

** in _pendingDirty !: boolean; **in */** **in * @ internal */** **in // TODO(issue/24571): remove '!

** in _pendingTouched !: boolean; **in */** **in * @ internal */** **in // TODO(issue/24571): remove '!

** in _updateOn !: FormHooks; **in */** **in // TODO(issue/24571): remove '!

** in private _parent !: FormGroup | FormArray; **in */** **in private _asyncValidationSubscription: any; **in */** **in * The current value of the control.

*An * **in **in * For a 'FormControl',

*An * **in **in * For an enabled 'FormGroup', the values of enabled controls as an object

*An * **in **in * With a key-value pair for each member of the group.

*An * **in **in * For a disabled 'FormArray', the values of all controls as an object

*An * **in **in * With a key-value pair for each member of the group.

*An * **in **in * For a 'FormArray', the values of enabled controls as an array.

*An * **in **in * An public readonly value: any; **in */** **in * Initialize the AbstractControl instance.

*An * **in * @param validator The function that determines the synchronous validity of this control.

*An * @param asyncValidator The function that determines the asynchronous validity of this.

*An * @control constructor(public validator: ValidatorFn[null, public asyncValidator: AsyncValidatorFn[null]) { **in */** **in * The parent control.

*An * @get parent(); FormGroup|FormArray; **in */** **in * The validation

*An * @status of the control. There are four possible

*An * @status validation status values:

*An * **in **in * For a 'FormControl',

*An * **in **in * The current value.

*An * **in **in * For an enabled 'FormGroup', the values of enabled controls as an object

*An * **in **in * With a key-value pair for each member of the group.

*An * **in **in * For a disabled 'FormArray', the values of all controls as an object

*An * **in **in * With a key-value pair for each member of the group.

*An * **in **in * For a 'FormArray', the values of enabled controls as an array.

*An * **in **in * An public readonly value: any;

*An * **in **in * Initialize the AbstractControl instance.

*An * **in * @param validator The function that determines the synchronous validity of this control.

*An * @returns True if the control has passed all of its validation tests;

*An * false otherwise.

*An * @get valid(); boolean { return this.status === VALID; }//

*An * @returns A control is invalid when its status is 'INVALID'.

*An * @see [link AbstractControl.status] *An * @returns True if this control has failed one or more of its validation checks.

*An * false otherwise.

*An * @get invalid(); boolean { return this.status === INVALID; }

*An * @returns A control is 'pending' when its status is 'PENDING'.

*An * @see [link AbstractControl.status] *An * @returns True if this control is in the process of conducting a validation check.

*An * false otherwise.

*An * @get pending(); boolean { return this.status === PENDING; }

*An * @returns A control is 'disabled' when its status is 'DISABLED'.

*An * @returns True if the control is disabled, false otherwise.

*An * @get disabled(); boolean { return this.status === DISABLED; }

*An * @returns True if the control has any status other than 'DISABLED'.

*An * false if the status is 'DISABLED'.

*An * @see [link AbstractControl.status] *An * @get enabled(); boolean { return this.status !== DISABLED; }

*An * @returns True if the control can be both valid AND invalid or invalid AND disabled;

*An * @returns False if the control cannot be both valid AND invalid or invalid AND disabled;

*An * @returns true if the control is not disabled.

*An * @returns False if the control is disabled.

*An * @returns true if the control is not disabled.

*An * @returns true if the control is not disabled.

*An * @returns true if the control is not disabled.

*An * @returns true if the control is not disabled.

*An * @returns true if the control is not disabled.

*An * @returns true if the control is not disabled.

*An * @returns true if the control is not disabled.
dirty(): boolean { return !this.pristine; }/**
 * True if the control is marked as `touched`. *
 * A control is marked `touched` once the user has triggered
 * a `blur` event on it. *
 * public readonly touched: boolean = false; 
 */
 *
 * True if the control has not been marked as touched. *
 * A control is `untouched` if the user has not yet triggered
 * a `blur` event on it. *
 * get untouched(): boolean { return this.touched; } /**
 * A multicasting observable that emits an event every time the value of the control changes, in *
 * the UI or programatically. It also emits an event each time you call enable() or disable() in *
 * without passing along [emitEvent: false] as a function argument. 
 */
 *
 * // TODO(issue/24571): remove `!`. public readonly valueChanges!: Observable<any>;
 *
 * A multicasting observable that emits an event every time the validation `status` of the control
 * recalculates in 
 * @see {link AbstractControl.status in } public readonly */
 *
 * // TODO(issue/24571): remove `!`. public readonly statusChanges!: Observable<any>;
 *
 * Reports the update strategy of the `AbstractControl` (meaning in * the event on which the control updates itself). in *
 * Possible values: `change` | `blur` | `submit` in
 * Default value: `change` in */
 * get updateOn(): FormHooks { return this._updateOn ? this._updateOn : (this.parent ? this.parent.updateOn : 'change'); } in *
 * Sets the synchronous validators that are active on this control. Calling this in * overwrites any existing sync
 * validators.in
 * In *
 * When you add or remove a validator at run time, you must call
 * `updateValueAndValidity()` for the new validation to take effect. in *
 * In *
 * setValidators(newValidator: ValidatorFn|ValidatorFn[]|null): void { in this.validator = coerceToValidator(newValidator); } in *
 * In *
 * Sets the async validators that are active on this control. Calling this in * overwrites any existing async
 * validators.in
 * In *
 * When you add or remove a validator at run time, you must call
 * `updateValueAndValidity()` for the new validation to take effect. in *
 * In *
 * clearValidators(): void { in this.validator = null; } in *
 * In *
 * Empties out the sync validator list.in
 * In *
 * In *
 * Marks the control as `touched`. A control is touched by focus and in *
 * blur events that do not change the value.in
 * In *
 * @see `markAsUntouched()` in *
 * @see `markAsDirty()` in *
 * @see `markAsPristine()` in *
 * @param opts Configuration options that determine how the control propagates changes in *
 * and emits events after marking is applied.in*
 * `onlySelf`: When true, mark only this control. When false or not supplied, in *
 * marks all direct ancestors. Default is false. in *
 * In *
 * In *
 * `marked` (onlySelf?: boolean) = {}; void { in this.as[ touched: boolean ] .touched = true; in *
 * if (this._parent && !opts.onlySelf) { in this._parent.markAsTouched( opts ) in *
 * In *
 * Marks the control and all its descendant controls as `touched`. in *
 * @see `markAsTouched()` in *
 * @see `markAllAsTouched()` in *
 * @see `markAsDirty()` in *
 * @see `markAsPristine()` in *
 * @param opts Configuration options that determine how the control propagates changes in *
 * and emits events after the marking is applied. In *
 * `onlySelf`: When true, mark only this control. When false or not supplied, in *
 * marks all direct ancestors. Default is false. in *
 * In *
 * In *
 * `marked` (onlySelf?: boolean) = {}; void { in this.as[ touched: boolean ] .touched = false; in *
 * if (this._parent && !opts.onlySelf) { in this._parent._updateTouched( opts ) in *
 * In *
 * Marks the control as `dirty`. A control becomes dirty
 * when its value is changed through the UI; compare `markAsTouched`. in *
 * @see `markAsTouched()` in *
 * @see `markAsUntouched()` in *
 * @see `markAsPristine()` in *
 * @param opts Configuration options that determine how the control propagates changes in *
 * and emits events after marking is applied. In *
 * `onlySelf`: When true, mark only this control. When false or not supplied, in *
 * marks all direct ancestors. Default is false. in *
 * In *
 * In *
 * `marked` (onlySelf?: boolean) = {}; void { in this.as[ pristine:
```javascript
  ...markAsPristine(opts: {onlySelf?: boolean} = {}): void {
    (this as {pristine: boolean}).pristine = true;
    this._pendingDirty = false;
    this._forEachChild((control: AbstractControl) => { control.markAsPristine({onlySelf: true}); });
    if (this._parent && !opts.onlySelf) { this._parent._updatePristine(opts); }
  }

  ...markAsPending(opts: {onlySelf?: boolean, emitEvent?: boolean} = {}): void {
    (this as {status: string}).status = PENDING;
    if (opts.emitEvent !== false) { (this.statusChanges as EventEmitter<any>).emit(this.status); }
    if (this._parent && !opts.onlySelf) { this._parent.markAsPending(opts); }
  }

  ...disable(opts: {onlySelf?: boolean, emitEvent?: boolean} = {}): void {
    const skipPristineCheck = this._parentMarkedDirty(opts.onlySelf);
    (this as {status: string}).status = DISABLED;
    this._forEachChild((control: AbstractControl) => { control.disable({...opts, onlySelf: true}); });
    this._updateValue();
    if (opts.emitEvent !== false) { (this.valueChanges as EventEmitter<any>).emit(this.value); (this.statusChanges as EventEmitter<string>).emit(this.status); }
    this._updateAncestors({...opts, skipPristineCheck});
    this._onDisabledChange.forEach((changeFn) => changeFn(true));
  }

  ...enable(opts: {onlySelf?: boolean, emitEvent?: boolean} = {}): void {
    const skipPristineCheck = this._parentMarkedDirty(opts.onlySelf);
    (this as {status: string}).status = VALID;
    this._forEachChild((control: AbstractControl) => { control.enable({...opts, onlySelf: true}); });
    this.updateValueAndValidity({onlySelf: true, emitEvent: opts.emitEvent});
    this._updateAncestors({...opts, skipPristineCheck});
    this._onDisabledChange.forEach((changeFn) => changeFn(false));
  }
```
```typescript
this._parent.updateValueAndValidity(opts); if (!opts.skipPristineCheck) {
  this._parent.updatePristine();
  this._parent.updateTouched();
  this._parent.updateValue();
  if (!opts.skipPristineCheck) {
    this._parent._updatePristine();
  }
  this._parent._updateTouched();
}

/**
 * @param parent
 * Sets the parent of the control.
 */
setParent(parent: FormGroup | FormArray): void {
  this._parent = parent;
}

/**
 * Sets the value of the control. Abstract method (implemented in sub-classes).
 * abstract
 * setValue(value: any, options?: Object): void;
 */
setValue(value: any, options?: Object): void {
    if (this.enabled) {
      this._cancelExistingSubscription();
      (this as {errors: ValidationErrors | null}).errors = this._runValidator();
      (this as {status: string}).status = this._calculateStatus();
      if (this.status === VALID || this.status === PENDING) {
        this._runAsyncValidator(options.emitEvent);
      }
      if (options.emitEvent !== false) {
        (this.valueChanges as EventEmitter<any>).emit(this.value);
        (this.statusChanges as EventEmitter<string>).emit(this.status);
      }
      if (this._parent && !options.onlySelf) {
        this._parent.updateValueAndValidity({onlySelf: true, emitEvent: false});
      }
    }
}

/**
 * Recalculates the value and validation status of the control. By default, it also updates
 * the value and validity of its ancestors.
 * @param options Configuration options determine how the control
 * propagates changes and emits events
 * when true, only update this control. When false or not supplied, * update all direct ancestors. Default is false.
 */
updateValueAndValidity(options: {
  onlySelf?: boolean,
  emitEvent?: boolean
} = {}): void {
    this._setInitialStatus();
    this._updateValue();
    if (this.enabled) {
      this._cancelExistingSubscription();
      (this as {errors: ValidationErrors | null}).errors = this._runValidator();
      (this as {status: string}).status = this._calculateStatus();
      if (this.status === VALID || this.status === PENDING) {
        this._runAsyncValidator(options.emitEvent);
      }
      if (options.emitEvent !== false) {
        (this.valueChanges as EventEmitter<any>).emit(this.value);
        (this.statusChanges as EventEmitter<string>).emit(this.status);
      }
      if (this._parent && !options.onlySelf) {
        this._parent.updateValueAndValidity(options);
      }
    }
}

/**
 * Reports error data for the control with the given path.
 * For example, to get a 'name' control nested within a 'person' sub-group:
 * this._parent.updateValueAndValidity({
 *   'person': new FormControl()
 * });
 * this._parent.updateValueAndValidity();
 * expect(login.valid).not.toEqual(false);
 * expect(login.errors).toEqual({
 *   'notUnique': true
 * });
 */
reportErrors(path: string, errors: ValidationErrors | null): void {
    if (path.length > 0) {
      const error = errors[path];
      if (error) {
        this._errors.set(path, error);
      }
    }
}
```

of control names in one string, e.g. `'address.street'` *\n  * @returns error data for that particular error. If the control or error is not present, `null` is returned.
  * @param errorCode The code of the error to check
  * @param path A list of control names that designates how to move from the current control
  * to the control that should be queried for errors.
  * @returns null if the control or error is not present.
  * @description
  * Reports whether the control with the given path has the error specified.
  * @returns whether the given error is present in the control at the given path.
  * @returns whether the given error is present in the control at the given path.

```typescript
getError(errorCode: string, path?: string|number|Array<string|number>): any {
    const control = path ? this.get(path) : this;
    return control && control.errors ? control.errors[errorCode] : null;
}

hasError(errorCode: string, path?: string|number|Array<string|number>): boolean {
    return !!this.getError(errorCode, path);
}
```

The path to the 'street' control from the root form would be 'address' -> 'street'.

It can be provided to this method in one of two formats:

- An array of string control names, e.g. `['address', 'street']`
- A period-delimited list of control names in one string, e.g. `'address.street'`

If no path is given, this method checks for the error on the current control.

```typescript
root(): AbstractControl {
    let x: AbstractControl = this;

    while (x._parent) {
        x = x._parent;
    }

    return x;
}
```

### Reactive Forms Guide

- `AbstractControl`
- `FormGroup`
- `FormArray`
- `getErrorMessage`
- `hasError`
- `getRoot`
- `hasValueChanges`
- `isBoxedValue`
- `registerOnChange`
- `registerOnTouchedChange`
- `setErrors`
- `setErrorsAsStatus`
---

**Initializing Form Controls**

Instantiate a FormControl, with an initial value.

```ts
const control = new FormControl('some value');
```

---

**Initializing Form Controls**

```
const control = new FormControl('Nancy');
console.log(control.value); // 'Nancy'
control.reset('Drew');
console.log(control.value); // 'Drew'
```

---

**Initializing Form Controls**

```ts
const control = new FormControl('', Validators.required);
console.log(control.value); // ''
console.log(control.status); // 'INVALID'
```

---

**Initializing Form Controls**

```
const control = new FormControl('Nancy');
console.log(control.value); // 'Nancy'
control.reset({ value: 'Drew', disabled: true });
console.log(control.value); // 'Drew'
console.log(control.status); // 'DISABLED'
```
symmetry with [@link FormGroup#patchValue patchValue] on `FormGroups` and
* `FormArrays`, where it does behave differently.

* @param options Configuration options that determine how the control propagates changes
* and emits events after the value changes.

* @param fn The method that is called when the value changes.

* @param formState The method that is called when the disabled status changes.

* @param options Configuration options that determine how the control propagates changes
* and emits events with the latest status and value when the control is reset.

* When false, no events are emitted.

* * @param formState等形式的配置对象，用于定义每个控制的验证函数。

* * @param options Configuration options that determine how the control propagates changes
* and emits events after the value changes.

* * @param fn The method that is called when the value changes.

* * @param formState The method that is called when the disabled status changes.

* * @param options Configuration options that determine how the control propagates changes
* and emits events after the value changes.

* * @param fn The method that is called when the value changes.

* * @param formState The method that is called when the disabled status changes.

* * @param options Configuration options that determine how the control propagates changes
* and emits events after the value changes.

* * @param fn The method that is called when the value changes.

* * @param formState The method that is called when the disabled status changes.
control’s `updateOn` property. If you set `updateOn` to "blur" at the group level, all child controls default to 'blur', unless the child has explicitly specified a different 'updateOn' value.

```ts
const c = new FormGroup({
  one: new FormControl()
}, { updateOn: 'blur' });
```

A collection of child controls. The key for each child is the name under which it is registered.

```ts
export class FormGroup extends AbstractControl {
 **:setControl(name: string, control: AbstractControl): void {
    if (this.controls[name]) this.controls[name]._registerOnCollectionChange(() => {});
    delete (this.controls[name]);
    this.updateValueAndValidity();
  }

  /**
   * Replacement for an existing control.
   *
   * @param name The control name to replace in the collection
   * @param control Provides the control for the given name
   */
  setControl(name: string, control: AbstractControl): void {
    if (this.controls[name]) this.controls[name]._registerOnCollectionChange(() => {});
    delete (this.controls[name]);
    if (control) this.registerControl(name, control);
    this.updateValueAndValidity();
    this._onCollectionChange();
  }

  /**
   * Check whether there is an enabled control with the given name in the group.
   *
   * @returns false for disabled controls, true otherwise.
   */
  contains(controlName: string): boolean {
    return this.controls.hasOwnProperty(controlName) && this.controls[controlName].enabled;
  }

  /**
   * Sets the value of the `FormGroup`. It accepts an object that matches the structure of the group,
   * with control names as keys.
   *
   * @usageNotes
   * ### Set the complete value for the form group
   *
   *
   ```
   * const form = new FormGroup({
   *   first: new FormControl(),
   *   last: new FormControl()
   * });
   *
   * form.setValue({first: 'Nancy', last: 'Drew'});
   *
   * console.log(form.value);   // {first: 'Nancy', last: 'Drew'}
   * ```
   *
   * @throws When strict checks fail, such as setting the value of a control
   * that doesn't exist or if you exclude a value of a control that does exist.
   *
   * @param value The new value for the control that matches the structure of the group
   * @param options Configuration options that determine how the control propagates changes
   * and emits events after the value changes.
   */
  setValue(value: {
    const form = new FormGroup({
      first: new FormControl(),
      last: new FormControl()
    });
    form.setValue({first: 'Nancy', last: 'Drew'});
    console.log(form.value);   // {first: 'Nancy', last: 'Drew'}
  };

  /**
   * The configuration options are passed to the `updateValueAndValidity` method.
   * @param onlySelf When true, each change only affects this control, and not its parent.
   * Default is `false`.
   * @param emitEvent When true or not supplied (the default), both the
   * `statusChanges` and `valueChanges` observables emit events with the latest status and value when the
   * control value is updated.
   * When false, no events are emitted.
   */
  updateValueAndValidity({
    onlySelf: false,
    emitEvent: true
  });
```
options: {onlySelf?: boolean, emitEvent?: boolean} = {};
void {ln __this._checkAllValuesPresent(value):
Object.keys(value).forEach(name => {
  __this._throwIfControlMissing(name);
this.controls[name].setValue(value[name], {onlySelf: true, emitEvent: options.emitEvent});
});
__this.updateValueAndValidity(options);
}


### Patch the value for a form group

```
/*
 * this.controls[name].patchValue(value, {onlySelf: true, emitEvent: true});
 */
```


### Reset the form group values

```
const form = new FormGroup({'first': new FormControl('Nancy'),
    'last': new FormControl()});
form.patchValue({first: 'Nancy', last: 'last name'});
console.log(form.value);   // {first: 'Nancy', last: 'last name'}
```
throw new Error(`
  There are no form controls registered with this group yet. If you're using ngModel,
  you may want to check next tick (e.g. use setTimeout).`);
} || throw new Error(`
  Cannot find form control with name: ${name}.`);
}

/** @internal */
_forEachChild(cb: (v: any, k: string) => void): void {
  Object.keys(this.controls).forEach(k => cb(this.controls[k], k));
}

/** @internal */
_setUpControls(): void {
  this._forEachChild((control: AbstractControl) => {
    control.setParent(this);
    control._registerOnCollectionChange(this._onCollectionChange);
  });
}

/** @internal */
_updateValue(): void {
  (this as {value: any}).value = this._reduceValue();
}

/** @internal */
_anyControls(condition: Function): boolean {
  let res = false;
  this._forEachChild((control: AbstractControl, name: string) => {
    res = res || (this.contains(name) && condition(control));
  });
  return res;
}

/** @internal */
_reduceValue() {
  return this._reduceChildren({}, (acc: {[k: string]: AbstractControl},
                         control: AbstractControl, name: string) => {
    if (control.enabled || this.disabled) {
      acc[name] = control.value;
    }
    return acc;
  });
}

/** @internal */
_allControlsDisabled(): boolean {
  for (const controlName of Object.keys(this.controls)) {
    if (this.controls[controlName].enabled) {
      return false;
    }
  }
  return Object.keys(this.controls).length > 0 || this.disabled;
}

/** @internal */
_checkAllValuesPresent(value: any): void {
  this._forEachChild((control: AbstractControl, name: string) => {
    if (value[name] === undefined) {
      throw new Error(`Must supply a value for form control with name:
      '${name}'.`);
    }
  });
}

/**
 * Tracks the value and validity state of an array of `FormControl`,
 * `FormGroup` or `FormArray` instances.
 * A `FormArray` aggregates the values of each child `FormControl`
 * into an array. It calculates its status by reducing the status values of its children. For example, if one of them is invalid, the entire array becomes invalid.
 * `FormArray` is one of the three
 * fundamental building blocks used to define forms in Angular.
 * along with `FormControl` and `FormGroup`.
 *
 * @usageNotes
 *
 * ### Create an array of form controls
 *
 * ```
 * const arr = new FormArray([new FormControl('Nancy', Validators.minLength(2)),
 *   new FormControl('Drew')]);
 *
 * console.log(arr.value);   // 
 * console.log(arr.status);  // 'VALID'
 * ```
 *
 * ### Create a form array with array-level validators
 *
 * You include array-level validators and async validators. These come in
 * handy when you want to perform validation that considers the value of more than one child
 * control. An array of validators is passed in separately as the second and third arg respectively, or together as part
 * of an options object.
 * ```
 * const arr = new FormArray([new FormControl('Nancy'),
 *   new FormControl('Drew')], {validators: myValidator, asyncValidators: myAsyncValidator});
 * ```
 *
 * ### Set the updateOn property for all controls in a form array
 *
 * The options object is used to set a default value for each child control's `updateOn` property. If you set `updateOn` to `'blur'` at the array level, all child controls
default to `'blur'`, unless the child has explicitly specified a different `updateOn` value.
 * ```
 * const arr = new FormArray([new FormControl('Nancy'),
 *   new FormControl('Drew')], {updateOn: 'blur'});
 * ```
 *
 * ### Adding or removing controls from a form array
 *
 * To change the controls in the array, use the `push`, `insert`, `removeAt`, or `clear` methods
 * in `FormArray` itself. These methods ensure the controls are properly tracked in the form's
 * hierarchy. Do not modify the array of `AbstractControl`s used to instantiate the `FormArray` directly, as that
 * result in strange and unexpected behavior such as broken change detection.
 * ```
 * super(AsyncValidatorFn[AsyncValidatorFn][null],
 *   coerceToAsyncValidator(validatorOrOpts)).
 * ```
 */
this._initObservables();
this._setUpUpdateStrategy(validatorOrOpts);
this._setUpControls();
this.updateValueAndValidity((onlySelf: true, emitEvent: false));

/**
 * Get the `AbstractControl` at the given `index` in the array.
 */
* @param index Index in the array to retrieve the control
 * @returns {AbstractControl}
 */
this.at(index: number): AbstractControl {
  return this.controls[index];
}

/**
 * Insert a new `AbstractControl` at the end of the array.
 */
* @param control Form control to be inserted
 * @returns {AbstractControl}
 */
this.push(control: AbstractControl): void {
  this.controls.push(control);
  this._registerControl(control);
  this.updateValueAndValidity();
}

/**
 * Insert a new `AbstractControl` at the given `index` in the array.
 */
* @param index Index in the array to insert the control
 * @param control Form control to be inserted
 */
this.insert(index: number, control: AbstractControl): void {
  this.controls.splice(index, 0, control);
  this._registerControl(control);
  this.updateValueAndValidity();
}

/**
 * Remove the control at the given `index` in the array.
 */
* @param index Index in the array to remove the control
 * @returns {void}
 */
this.removeAt(index: number): void {
  if (this.controls[index]) this.controls[index]._registerOnCollectionChange(() => {});
  this.controls.splice(index, 1);
  this.updateValueAndValidity();
}

/**
 * Replace an existing control.
 */
* @param index Index in the array to replace the control
 * @param control The `AbstractControl` control to replace the existing control
 * @returns {void}
 */
this.setControl(index: number, control: AbstractControl): void {
  if (this.controls[index]) this.controls[index]._registerOnCollectionChange(() => {});
  this.controls.splice(index, 1);
  if (control) {
    this.controls.splice(index, 0, control);
    this._registerControl(control);
  }
  this.updateValueAndValidity();
}

/**
 * Length of the control array.
 */
this.length: number = this.controls.length;

/**
 * Sets the value of the `FormArray`. It accepts an array that matches
 * the structure of the control.
 * @param value Array of values for the controls
 * @param options Configure options that determine how the control propagates changes and
 * emits events after the value changes
 * @returns {void}
 */
this.setValue(value: any[], options: {onlySelf?: boolean, emitEvent?: boolean} = {}): void {
  this._checkAllValuesPresent(value);
  value.forEach((newValue: any, index: number) => {
    if (this.at(index)) {
      this.at(index).setValue(newValue, {onlySelf: true, emitEvent: options.emitEvent});
    }
  });
  this.updateValueAndValidity(options);
}

/**
 * Patches the value of the `FormArray`. It accepts an array that matches the
 * structure of the control, and does its best to match the values to the
 * correct `controls` in the group.
 * It accepts both super-sets and sub-sets of the array without throwing an error.
 * @param value Array of latest values for the controls
 * @param options Configure options that determine how the control propagates changes and
 * emits events after the value changes
 * @returns {void}
 */
this.patchValue(value: any[], options: {onlySelf?: boolean, emitEvent?: boolean} = {}): void {
  value.forEach((newValue: any, index: number) => {
    if (this.at(index)) {
      this.at(index).patchValue(newValue, {onlySelf: true, emitEvent: options.emitEvent});
    }
  });
  this.updateValueAndValidity(options);
}

/**
 * Patches the values for controls in a form array.
 * @param value Array of latest values for the controls
 * @returns {void}
 */
this.patchValue(value: any[], options: {onlySelf?: boolean, emitEvent?: boolean} = {}): void {
  value.forEach((newValue: any, index: number) => {
    if (this.at(index)) {
      this.at(index).patchValue(newValue, {onlySelf: true, emitEvent: options.emitEvent});
    }
  });
  this.updateValueAndValidity(options);
}
options.emitEvent));
    this._updateValueAndValidity(options);
  }

  /**
   * Resets the `FormArray` and all descendants are marked `pristine` and `untouched`, and the`value` of all descendants to null or null maps.
   * You reset to a specific form state by passing in an array of states that matches the structure of the control. The state is a standalone value or a form state object with both a value and a disabled status.
   * @param states Array of states
   * @param options Configure options that determine how the control propagates changes and emits events after the value changes
   * @param onlySelf: When true, each change only affects this control, and not its parent. Default: false
   * @param emitEvent: When true or not supplied (the default), both the `stateChanges` and `valueChanges` observables emit events with the latest status and value when the control is reset.
   * When false, no events are emitted.
   * The configuration options are passed to the method.
   * @param reset(value: any = [], options: {onlySelf?: boolean, emitEvent?: boolean} = {}): void
   * For enabled controls only, the `value` property is the best way to get the value of the array.
   * @param getRawValue(): any[]
   * The aggregate value of the array, including any disabled controls.
   * @param clear(): void
   * Remove all controls in the `FormArray`.
   * @param _syncPendingControls(): boolean
   * @param _throwIfControlMissing(index: number): void
   * @param _setUpControls(): void
   * @param _checkAllValuesPresent(value: any): void
   * @param _allControlsDisabled(): boolean
   * Returns true if all controls are disabled.
   */
  reset(value: any = [], options: {onlySelf?: boolean, emitEvent?: boolean} = {}): void {
    this._forEachChild((control: AbstractControl, index: number) => {
      control.reset(value[index], {onlySelf: true, emitEvent: options.emitEvent});
    });
    this._updatePristine(options);
    this._updateTouched(options);
    this.updateValueAndValidity(options);
  }

  /**
   * The aggregate value of the array, including any disabled controls.
   * Reports all values regardless of disabled status.
   * @param getRawValue(): any[]
   * @return this.controls.map((control: AbstractControl) => control.getRawValue());
   */
  getRawValue(): any[] {
    return this.controls.map((control: AbstractControl) => {
      return control.instanceof FormControl ? control.value : (<any>control).getRawValue();
    });
  }

  /**
   * Remove all controls in the `FormArray`.
   * @param clear(): void
   * Remove all controls in the `FormArray`.
   */
  clear(): void {
    if (this.controls.length < 1) return;
    this._forEachChild((control: AbstractControl) => control._registerOnCollectionChange(() => {}));
    this.controls.splice(0);
    this.updateValueAndValidity();
  }

  /** @internal */
  _updateValue(): void {
    (this as {value: any}).value = this.controls.filter((control) => control.enabled || this.disabled)
        .map((control) => control.value);  // Faster alternative to removing all elements one by one:
  }

  /** @internal */
  _anyControls(condition: Function): boolean {
    return this.controls.some((control: AbstractControl) => condition(control));
  }

  /** @internal */
  _setUpControls(): void {
    this._forEachChild((control: AbstractControl) => this._registerControl(control));
  }

  /** @internal */
  _checkAllValuesPresent(value: any): void {
    this._forEachChild((control: AbstractControl) => {
      if (control.enabled) return false;
    });
    if (value.length > 0) throw new Error(`Must supply a value for form control at index: ${value.i}.`);
    if (this.disabled) throw new Error(`Cannot find form control at index ${value.i}.`);
    if (this.controls.length < 1) return;
    return this.controls.reduce((updated: boolean, child: AbstractControl) => {
      return child.enabled && this._anyControls((control: AbstractControl) => control.enabled)
          ? true : updated;
    }, false);
  }

  /** @internal */
  _allControlsDisabled(): boolean {
    for (const control of this.controls) {
      if (control.enabled) return false;
    }
    return this.controls.length > 0 || this.disabled;
  }

  private _registerControl(control: AbstractControl) {
    // ...
control.setParent(this); 
  control._registerOnCollectionChange(this._onCollectionChange); 
  } 
  
```javascript
control.setParent(this);
control._registerOnCollectionChange(this._onCollectionChange);
```

```javascript
/**
 * @license
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 *
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 * found in the LICENSE file at https://angular.io/license
 */

import {AfterViewInit, Directive, EventEmitter, Inject, Input, Optional, Self, forwardRef} from '@angular/core';

import {AbstractControl, FormControl, FormGroup, FormHooks} from '../model';
import {NG_ASYNC_VALIDATORS, NG_VALIDATORS} from '../validators';
import {ControlContainer} from './control_container';
import {Form} from './form_interface';
import {NgControl} from './ng_control';
import {NgModel} from './ng_model';
import {NgModelGroup} from './ng_model_group';
import {composeAsyncValidators, composeValidators, removeDir, setUpControl, setUpFormContainer, syncPendingControls} from './shared';

export const formDirectiveProvider: any = {
  provide: ControlContainer,
  useExisting: forwardRef(() => NgForm)
};

const resolvedPromise = ((

```javascript
const resolvedPromise = (()

```javascript
  => Promise.resolve(null));

```javascript

```javascript
/**
 * @description
 * Creates a top-level `FormGroup` instance and binds it to a
 * form
 * to track aggregate form value and validation status.
 *
 * As soon as you import the `FormsModule`, this
 * directive becomes active by default on
 * all `<form>` tags. You don't need to add a special selector. You
 * optionally export the directive into a local template variable using `ngForm` as the
 * key (ex: `#myForm=\'\"ngForm\"\'`). This is optional, but useful. Many properties from the
 * underlying form instance are duplicated on the directive itself, so a reference to it
 * gives you access to the aggregate value and validity status of the form, as well as user
 * interaction properties like ‘dirty’ and ‘touched’.
 *
 * To register child controls with the form, use `NgModel` with a ‘name’ attribute. You may use
 * `NgModelGroup` to create sub-groups within the form. If necessary, listen to the directive’s
 * `ngSubmit` event to be notified when the user has triggered a form submission. The `ngSubmit` event emits the original form's
 * submission event.
 *
 * In template driven forms, all `<form>` tags are automatically tagged as `NgForm`. To import the
 * `FormsModule` but skip its usage in some forms, for example, to use native HTML5 validation, add the
 * `ngNoForm` and the `<form>` tags won't create an `NgForm` directive. In reactive forms, using `ngNoForm`
 * is unnecessary because the `<form>` tags are inert. In that case, you would refrain from using the
 * `FormsModule`.
 *
 * @usageNotes
 *
 * ### Listening for form submission
 *
 * The following example shows how to capture the form values from the "ngSubmit" event.
 *
 * ```html
 * <form [ngFormOptions]="{updateOn: 'blur'}">
 *    <input name="one"
 * </form>
 * ```
 *
 * ### Native DOM validation UI
 * Angular automatically adds the `novalidate` attribute on any `<form>` whenever
 * `FormModule` or
 * `ReactiveFormsModule` are imported into the application. If you want to explicitly enable native DOM
 * validation UI with Angular forms, you can add the `ngNativeValidate` attribute.
 *
 * @ngModule FormsModule
 *
 * @publicApi
 */
@Directive({
  selector: 'form:not([ngNoForm]):not([formGroup]),ng-form,[ngForm]',
  providers: [formDirectiveProvider],
  host: {'(submit)': 'onSubmit($event)', '(reset)': 'onReset()'},
  outputs: ['ngSubmit'],
  exportAs: 'ngForm'
})
export class NgForm extends ControlContainer implements Form, AfterViewInit {
  /**
   * @description
   * Returns whether the form submission has been triggered.
   */
  public readonly submitted: boolean = false;

  private _directives: NgModel[] = [];

  /**
   * @description
   * The `FormGroup` instance created for this form.
   */
  form: FormGroup;

  /**
   * @description
   * Event emitter for the "ngSubmit" event.
   */
  ngSubmit = new EventEmitter();

  /**
   * @description
   * Tracks options for the `NgForm` instance.
   */
  // TODO(issue/24571): remove '!'.
  @Input('ngFormOptions') options!: {updateOn?: FormHooks};

  constructor(
      @Optional() @Self() @Inject(NG_VALIDATORS) validators: any[],
      @Optional() @Self() @Inject(NG_ASYNC_VALIDATORS) asyncValidators: any[]) {
    super();
    this.form = new FormGroup({ }, composeValidators(validators),
    ```
composeAsyncValidators(asyncValidators));
  }

  /**
   * @description
   * Lifecycle method called after the view is initialized. For internal use only.
   * @ngAfterViewInit() { this._setUpUpdateStrategy(); }
  */

  /**
   * @description
   * The directive instance.
   * @get formDirective(): Form { return this; }
  */

  /**
   * @description
   * Returns an array representing the path to this group. Because this directive
   * always lives at the top level of a form, it is always an empty array.
   * @get path(): string[] { return []; }
  */

  /**
   * @description
   * The internal `FormGroup` instance.
   * @get control(): FormGroup { return this.form; }
  */

  /**
   * @description
   * Returns a map of the controls in this group.
   * @get controls(): { [key: string]: AbstractControl } { return this.form.controls; }
  */

  /**
   * @description
   * Returns an array of the control's path.
   * @get path(): string[] { return this.form.path; }
  */

  /**
   * @description
   * Method that sets up the control directive in this group, re-calcualtes its value
   * and validity, and adds the instance to the internal list of
directives.
   * @param dir The `NgModel` directive instance.
   * @addControl(dir: NgModel): void {
      const container = this._findContainer(dir.path);
      (dir as{control: FormControl})
          .control =
              <FormControl>container.registerControl(dir.name, dir.control);
      setUpControl(dir.control, dir);
      dir.control.updateValueAndValidity({emitEvent: false});
      this._directives.push(dir);
    }

  /**
   * @description
   * Removes the `NgModelGroup` directive instance from the group.
   * @removeFormGroup(dir: NgModelGroup): void {
      const container = this._findContainer(dir.name);
      container.removeControl(dir.name);
      removeDir<NgModelGroup>(this._directives, dir);
    }

  /**
   * @description
   * Removes the `NgSubmit` event from the form.
   * @removeSubmitEvent(): void {
      this._formSubmit = false;
    }

  /**
   * @description
   * Adds a new `NgSubmit` event to the form.
   * @addSubmitEvent(): void {
      this._formSubmit = true;
    }

  /**
   * @description
   * Sets the new value for the provided `NgControl` directive.
   * @updateModel(dir: NgControl, value: any): void {
      const ctrl = <FormControl>this.form.get(dir.path !);
      ctrl.setValue(value);
    }

  /**
   * @description
   * Sets the new value for this form.
   * @setValue(value: any): void {
      this.form.setValue(value);
    }

  /**
   * @description
   * Method called when the "submit" event is triggered on the form.
   * @onSubmit($event: Event): boolean {
      this.onSubmit($event);
      return false;
    }

  /**
   * @description
   * Method called when the "reset" event is triggered on the form.
   * @onReset(): void {
      this.resetForm();
    }

  /**
   * @description
   * Resets the form to an initial value and resets its submitted
   * status.
   * @resetForm(value: any = undefined): void {
      this.form.reset(value);
    }

  private _setUpUpdateStrategy() {
    if (this.options && this.options.updateOn != null) {
      this.form._updateOn = this.options.updateOn;
    }
  }

  /** @internal */
  _findContainer(path: string[]): FormGroup {
    path.pop();
    return path.length ?<FormGroup>this.form.get(path) : this.form;
  }
}

/**
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 * found in the LICENSE file at https://angular.io/license
 */

import {OnDestroy, OnInit} from '@angular/core';

import
import {FormGroup} from '../model';

import {ControlContainer} from './control_container';
import {Form} from './form_interface';
import {composeAsyncValidators, composeValidators, controlPath} from './shared';
import {AsyncValidatorFn, ValidatorFn} from './validators';

/**
 * @description
 * A base class for code shared between the `NgModelGroup` and `FormGroupName` directives.
 *
 * @publicApi
 */
export class AbstractFormGroupDirective extends ControlContainer implements OnInit, OnDestroy {
  /**
   * @description
   * The parent control for the group
   *
   * @internal
   */
  // TODO(issue/24571): remove '!'.
  _parent !:

  /**
   * @description
   * An array of synchronous validators for the group
   *
   *
   * @internal
   */
  // TODO(issue/24571): remove '!'.
  _validators !: any[];

  /**
   * @description
   * An array of async validators for the group
   *
   *
   * @internal
   */
  // TODO(issue/24571): remove '!'.
  _asyncValidators !: any[];

  /**
   * @description
   * An internal callback method triggered on the instance after the inputs are set.
   * Registers the group with its parent group.
   *
   * @internal
   */
  _checkParentType(): void {
    throw new Error(`
      ngModel cannot be used to register form controls with a parent formGroup directive. Try using
      formGroup's partner directive "formControlName" instead.

      Example:

      ${Examples.formControlName}

      Or, if you'd like to avoid registering this form control, indicate that it's standalone in ngModelOptions:

      Example:

      ${Examples.ngModelWithFormGroup}`);
  }

  static modelParentException(): void {
    throw new Error(`
      ngModel cannot be used to register form controls with a parent formGroupName or formArrayName
      directive.

      Option 1: Use formControlName instead of ngModel (reactive strategy):

      ${Examples.formGroupName}

      Option 2: Use a regular form tag instead of the formGroup
      directive (template-driven strategy):

      ${Examples.ngModelGroup}`);
  }

  static missingNameException() {
    throw new Error(`
      If ngModel is used within a form tag, either the name attribute must be set or the form
      control must be defined as 'standalone' in ngModelOptions.

      Example:

      ${Examples.ngModelWithFormGroup}`);

  static modelGroupParentException() {
    throw new Error(`
      ngModelGroup cannot be used with a parent formGroup directive.

      Option 1: Use formControlName instead of ngModel (reactive strategy):

      ${Examples.formGroupName}`);

      Option 2: Use a regular form tag instead of the formGroup
directive (template-driven strategy):

      ${Examples.ngModelGroup}`);
export const modelGroupProvider: any = {
  provide: ControlContainer,
  useExisting: forwardRef(() => NgModelGroup)
};

/**
 * @description
 * Creates and binds a `FormGroup`
 * instance to a DOM element.
 * This directive can only be used as a child of `NgForm` (within `<form>`
 * tags).
 */

export class NgModelGroup extends AbstractFormGroupDirective implements OnInit,
OnDestroy {
  /**
   * @description
   * Tracks the name of the `NgModelGroup` bound to the directive. The
   * name corresponds to a key in the parent `NgForm`.
   */
  // TODO(issue/24571): remove '!'.

  @Input('ngModelGroup') name !: string;

  constructor(
      @Host() @SkipSelf() parent: ControlContainer,
      @Optional() @Self() @Inject(NG_VALIDATORS) validators: any[],
      @Optional() @Self() @Inject(NG_ASYNC_VALIDATORS) asyncValidators: any[])
  {
    super();
    this._parent = parent;
    this._validators = validators;
    this._asyncValidators = asyncValidators;
  }

  /** @internal */
  _checkParentType(): void {
    if (!(this._parent instanceof NgModelGroup) && !(this._parent instanceof
NgForm))
      TemplateDrivenErrors.modelGroupParentException();
  }
}

/**
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 * can be found in the LICENSE file at https://angular.io/license
 */

import {Directive, EventEmitter, Host, Inject, Input, OnChanges, OnDestroy, Optional, Output, Self, SimpleChanges, forwardRef} from '@angular/core';

import {FormControl, FormHooks} from '../model';
import {NG_ASYNC_VALIDATORS, NG_VALIDATORS} from '../validators';

import {AbstractFormGroupDirective} from './abstract_form_group_directive';
import {ControlContainer} from './control_container';
import {ControlValueAccessor, NG_VALUE_ACCESSOR} from './control_value_accessor';
import {NgControl} from './ng_control';
import {NgForm} from './ng_form';
import {NgModelGroup} from './ng_model_group';
import {composeAsyncValidators, composeValidators, controlPath, isPropertyUpdated, selectValueAccessor, setUpControl} from './shared';
import {TemplateDrivenErrors} from './template_driven_errors';
import {AsyncValidator, AsyncValidatorFn, Validator, ValidatorFn} from './validators';

export const formControlBinding: any = {
  provide: NgControl,
  useExisting: forwardRef(() => NgModel)
};

/**
 * `ngModel` forces an additional change detection run when its inputs change:
 * E.g.:
 * ```
 * <div>{{myModel.valid}}</div>
 * <input [(ngModel)]="myValue" #myModel="ngModel">
 * ```
 * I.e. `ngModel` can export itself on the element and then be used in the template.
 * Normally, this would result in expressions before the `input` that use the exported
 * directive to have and old value as they have been marked dirty
 * checked before. As this is a very common case for `ngModel`, we added this second
 * change detection run.
 * Notes:
 * - this is just one extra run no matter how many `ngModel` have been changed.
 * - this is a general problem when using `exportAs` for directives!
 * - this added second change detection run.
 */

template variable using `ngModel` as the key (ex: `#myVar="\ngModel"`). You then access the control using the directive’s `control` property, but most properties used (like `valid` and `dirty`) fall through to the control anyway for direct access. See a full list of properties directly available in `AbstractControlDirective` and `AbstractControl`. When using the `ngModel` within `<form>` tags, you’ll also need to supply a `name` attribute so that the control can be registered with the parent form under that name. In the context of a parent form, it’s often unnecessary to include one-way or two-way binding, as the parent form syncs the value for you. You access its properties by exporting it into a `template` local variable using `ngForm` such as (`#f="ngForm"`). Use the variable where needed on form submission. If you do need to populate initial values into your form, using a one-way binding for `ngModel` tends to be sufficient as long as you use the exported form’s value rather than the domain model’s value on submit.

The following example shows controls using `ngModel` within a form:

```typescript
<form>
  <input name="login" ngModel placeholder="Login">
  <input type="checkbox" ngModel [ngModelOptions]="{standalone: true}"> Show more options?
</form>
```

### Setting the `ngModel` name attribute through options

The following example shows you an alternate way to set the name attribute. The name attribute is used within a custom form component, and the name `@Input` property serves a different purpose. This static member tells the compiler that values of type `"string"` can also be assigned to the input in a template.

```html
<form>
  <my-person-control
    name="Nancy" ngModel
    [ngModelOptions]="{name: 'user'}">
  </my-person-control>
</form>
```

### Using `ngModel` on a standalone control

The following example shows controls using `ngModel` within a form:

```typescript
input name="login" ngModel placeholder="Login" type="checkbox" ngModel
```

### Using the `ngModel` within `<form>` tags

When using the `ngModel` within `<form>` tags, you’ll also need to supply a `name` attribute so that the control can be registered with the parent form under that name. In the context of a parent form, it’s often unnecessary to include one-way or two-way binding, as the parent form syncs the value for you. You access its properties by exporting it into a `template` local variable using `ngForm` such as (`#f="ngForm"`). Use the variable where needed on form submission. If you do need to populate initial values into your form, using a one-way binding for `ngModel` tends to be sufficient as long as you use the exported form’s value rather than the domain model’s value on submit.

The following example shows how to use a standalone `ngModel` control within a form. This controls the display of the form, but doesn’t contain form data. In the context of a parent form, it’s often unnecessary to include one-way or two-way binding, as the parent form syncs the value for you. You access its properties by exporting it into a `template` local variable using `ngForm` such as (`#f="ngForm"`). Use the variable where needed on form submission. If you do need to populate initial values into your form, using a one-way binding for `ngModel` tends to be sufficient as long as you use the exported form’s value rather than the domain model’s value on submit.
@Optional() @Self() @Inject(NG_VALUE_ACCESSOR)

valueAccessors: ControlValueAccessor[]

) {

Super();

this._parent = parent;

this.valueAccessors = validators.length;

this._rawAsyncValidators = asyncValidators.length;

this._rawValidators = validators.length;

if (super()) {

this._checkUpdates = updates.length;

`ngModelChange` event.

* @param newModel The new model value.

* @returns Returns the new model value.

* @param oldModel The old model value.

* @returns Returns the old model value.

* @param value The new value for the view model.

* @returns Returns the updated view model.

* @param oldValue The old value for the view model.

* @returns Returns the updated view model.

* @param newValue The new value for the view model.

* @returns Returns the updated view model.

* @param oldValue The old value for the view model.

* @returns Returns the updated view model.

* @param newValue The new value for the view model.

* @returns Returns the updated view model.

* @param oldValue The old value for the view model.

* @returns Returns the updated view model.

* @param newValue The new value for the view model.

* @returns Returns the updated view model.

* @param oldValue The old value for the view model.

* @returns Returns the updated view model.

* @param newValue The new value for the view model.

* @returns Returns the updated view model.

* @param oldValue The old value for the view model.

* @returns Returns the updated view model.

* @param newValue The new value for the view model.

* @returns Returns the updated view model.

* @param oldValue The old value for the view model.

* @returns Returns the updated view model.

* @param newValue The new value for the view model.

* @returns Returns the updated view model.

* @param oldValue The old value for the view model.

* @returns Returns the updated view model.

* @param newValue The new value for the view model.

* @returns Returns the updated view model.

* @param oldValue The old value for the view model.

* @returns Returns the updated view model.

* @param newValue The new value for the view model.

* @returns Returns the updated view model.

* @param oldValue The old value for the view model.

* @returns Returns the updated view model.

* @param newValue The new value for the view model.

* @returns Returns the updated view model.

* @param oldValue The old value for the view model.

* @returns Returns the updated view model.

* @param newValue The new value for the view model.

* @returns Returns the updated view model.

* @param oldValue The old value for the view model.

* @returns Returns the updated view model.

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* @returns Returns the updated view model.

* @param newValue The new value for the view model.

* @returns Returns the updated view model.

* @param oldValue The old value for the view model.

* @returns Returns the updated view model.
this.control.disabled) {
            this.control.enable();
        }]
    });
}

/**
 * @license
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 *
 * Use of this source code is governed by an MIT-style license that can be
 * found in the LICENSE file at https://angular.io/license
 */

import {Directive} from '@angular/core';

/**
 * @description
 *
 * Adds `novalidate` attribute to all forms by default.
 *
 * `novalidate` is used to disable browser's native form validation.
 * If you want to use native validation with Angular forms, just add `ngNativeValidate` attribute:
 *
 * ```
 * <form ngNativeValidate></form>
 * ```
 *
 * @publicApi
 * @ngModule ReactiveFormsModule
 * @ngModule FormsModule
 */
@Directive({
    selector: 'form:not([ngNoForm]):not([ngNativeValidate])',
    host: {'novalidate': ''},
})
export class ɵNgNoValidate {
}

export {ɵNgNoValidate as NgNoValidate};

/**
 * @license
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 *
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 * found in the LICENSE file at https://angular.io/license
 */

import {Directive, EventEmitter, Inject, InjectionToken, Input, OnChanges, Optional, Output, Self, SimpleChanges, forwardRef} from '@angular/core';

import {FormControl} from '../../model';
import {NG_ASYNC_VALIDATORS, NG_VALIDATORS} from '../../validators';
import {ControlValueAccessor, NG_VALUE_ACCESSOR} from '../control_value_accessor';
import {NgControl} from '../ng_control';
import {ReactiveErrors} from '../reactive_errors';
import {_ngModelWarning, composeAsyncValidators, composeValidators, isPropertyUpdated, selectValueAccessor, setUpControl} from '../shared';
import {AsyncValidator, AsyncValidatorFn, Validator, ValidatorFn} from '../validators';

/**
 * Token to provide to turn off the ngModel warning on formControl and
 * formControlName.
 */
export const NG_MODEL_WITH_FORM_CONTROL_WARNING =
    new InjectionToken('NgModelWithFormControlWarning');

export const formControlBinding: any = {
    provide:
        NgControl,
    useExisting: forwardRef(() => FormControlDirective)
};

/**
 * @description
 * * Syncs a standalone `FormControl` instance to a form control element.
 * 
 * @see 
 * [Reactive Forms Guide](guide/reactive-forms)
 * @see 
 * `FormControl`
 * @see 
 * `AbstractControl`
 *
 * @usageNotes
 *
 * ### Registering a single
 * form control
 *
 * The following examples shows how to register a standalone control and set its value.
 *
 * ```
 * {
 * @example forms/ts/simpleFormControl/simple_form_control_example.ts
 * region='Component'}
 * ```
 *
 * ### Use
 * with ngModel
 *
 * Support for using the `ngModel` input property and `ngModelChange` event with reactive
 *
 * form directives has been deprecated in Angular 6 and will be removed in a future version
 * of Angular.
 *
 * Now deprecated:
 *
 * ```html
 * <input 
 * [(ngModel)]="value">
 * ```
 *
 * ```ts
 * this.value = 'some value';
 * ```
 *
 * This has been deprecated for a few reasons. First, developers have found
 * this pattern confusing. It seems like the actual `ngModel` directive is being used, but in fact it's
 * an input/output property named `ngModel` on the reactive form directive that simply
 * approximates (some of) its behavior. Specifically, it allows getting/settng the value and
 * intercepting value events. However, some of `ngModel`'s other features - like delaying updates with `ngModelOptions` or exporting the directive - simply
 * don't work, which has understandably caused some confusion.
 *
 * In addition, this pattern mixes template-driven and reactive forms strategies, which
 * we generally don't recommend because it doesn't take advantage of
 * the full benefits of
 * either strategy. Setting the value in the template violates the template-agnostic
 * principles behind reactive forms, whereas adding a `FormControl`/`FormGroup` layer
 * in the class removes the convenience of defining forms in the template.
 *
 * To update your code before support is removed, you'll want to decide whether to stick with
 * reactive form directives (and get/set values using reactive forms patterns) or
 * switch over to template-driven directives.
 *
 * After (choice 1 - use reactive forms):
 *
 * ```html
 * <input [formControl]='control' [(ngModel)]='value'>
 * ```
 *
 * ```ts
 * this.control.setValue('some value');
 * ```
 *
 * Alternatively, you can choose to surface a separate warning for each instance of this
 * pattern with a config value of `never`.
 *
 * This may help to track down where in the code
 * the pattern is being used as the code is being updated.
 *
 * After (choice 2 - use template-driven forms):
 *
 * ```html
 * <input (ngModel)='value'>
 * ```
 *
 * ```ts
 * this.value = 'some value';
 * ```
 *
 * By default, when you use this pattern, you will see a deprecation warning once in dev
 * mode. You can choose to silence this warning by providing a config for
 * `'ReactiveFormsModule'` at import
 *
 * ```ts
 * import {...
 * imports: [ ...
 * ReactiveFormsModule.withConfig({
 * warnOnNgModelWithFormControl: 'never'})]
 * ```
 *
 * Alternatively, you can choose to surface a separate warning for each instance of this
 * pattern with a config value of `\'always\'`. This may help to track down where in the code
 * the pattern is being used as the code is being updated.

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```typescript
/*
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 *
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 */

import {Directive, EventEmitter, Inject, Input, OnChanges, Optional, Output, Self, SimpleChanges, forwardRef} from '@angular/core';
import {FormArray, FormControl, FormGroup} from '../../model';
import {NG_ASYNC_VALIDATORS, NG_VALIDATORS, Validators} from '../../validators';
import {ControlContainer} from '../control_container';
import {Form} from

/**
 * @property {string|null} ngModel
 */

@Directive({selector: '[formControl]', providers: [FormControlBinding], exportAs: 'ngForm'])

export class FormControlDirective extends NgControl implements OnChanges {
  /**
   * @description
   * Internal reference to the view model value.
   */
  viewModel: any;

  /**
   * @description
   * Tracks the `FormControl` instance bound to the directive.
   */
  // TODO(issue/24571): remove '!'.
  @Input('formControl') form: FormControl;

  /**
   * @description
   * Triggers a warning that this input should not be used with reactive forms.
   */
  @Input('disabled') set isDisabled(isDisabled: boolean) {
    ReactiveErrors.disabledAttrWarning();
  }

  // TODO(kara): remove next 4 properties once deprecation period is over
  @Input('ngModel') model: any;

  /**
   * @description
   * Synchronous validator function composed of all the synchronous validators
   * registered with this directive.
   */
  get validator(): ValidatorFn | null {
    return composeValidators(this._rawValidators);
  }

  /**
   * @description
   * Async validator function composed of all the async validators registered with this
   * directive.
   */
  get asyncValidator(): AsyncValidatorFn | null {
    return composeAsyncValidators(this._rawAsyncValidators);
  }

  /**
   * The `FormControl` bound to this directive.
   */
  get control(): FormControl {
    return this.form;
  }

  /**
   * @description
   * Sets the new value for the view model and emits an `ngModelChange` event.
   */
  /**
   * @param {any} newValue The new value for the view model.
   */
  viewToModelUpdate(newValue: any): void {
    this.viewModel = newValue;
    this.update.emit(newValue);
  }

  ngOnChanges(changes: SimpleChanges): void {
    if (this._isControlChanged(changes)) {
      setUpControl(this.form, this);
      if (this.control.disabled &&
          !this.valueAccessor.disabledState) {
        this.valueAccessors[null].setDisabledState(true);
      }
      this.form.updateValueAndValidity({emitEvent: false});
    }
    if (isPropertyUpdated(changes, this.viewModel)) {
      _ngModelWarning('formControl', FormControlDirective, this, this._ngModelWarningConfig);
      this.form.setValue(this.model);
      this.viewModel = this.model;
    }
  }

  private _isControlChanged(changes: {[key: string]: any}): boolean {
    return changes.hasOwnProperty('form');
  }

  constructor(@Optional() @Self() @Inject(NG_VALIDATORS) validators: Array<Validator|ValidatorFn>, @Optional() @Self() @Inject(NG_ASYNC_VALIDATORS) asyncValidators: Array<AsyncValidator|AsyncValidatorFn>, @Optional() @Self() @Inject(NG_VALUE_ACCESSOR) valueAccessors: ControlValueAccessor[], @Optional() @Inject(NG_MODEL_WITH_FORM_CONTROL_WARNING) private _ngModelWarningConfig: string | null) {
    this._rawValidators = validators || [];
    this._rawAsyncValidators = asyncValidators || [];
    this.valueAccessor = selectValueAccessor(this, valueAccessors);
  }

  get path(): string[] { return []; }

  get validator(): ValidatorFn || null { return null; }
  get asyncValidator(): AsyncValidatorFn || null { return null; }
}

/**
 * @property {string|null} ngModel
 */
```
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* Adds a new `FormArrayName` directive instance to the form.

```typescript
@addFormArray(dir: FormArrayName): void {
  const ctrl: any = this.form.get(dir.path);
  setUpFormContainer(ctrl, dir);
  ctrl.updateValueAndValidity({emitEvent: false});
}
```

* Sets the new value for the provided `FormControlName`

directive.

```typescript
@updateModel(dir: FormControlName, value: any): void {
  const ctrl = this.form.get(dir.path);
  ctrl.setValue(value);
}
```

* No-op method to remove the form array.

```typescript
@removeFormArray(dir: FormArrayName): void {}
```

* Retrieves the 'FormArray' for a provided `FormArrayName` directive instance.

```typescript
getFormArray(dir: FormArrayName): FormArray {
  return this.form.get(dir.path);
}
```

* Sets the new value for the directive's control.

```typescript
updateModel(dir: FormArrayName, value: any): void {
  const ctrl = this.form.get(dir.path);
  ctrl.setValue(value);
}
```

* Method called with the `\submit\` event is triggered on the form.

```typescript
onSubmit($event: Event): boolean {
  this.ngSubmit.emit($event);
  return false;
}
```

* Resets the form to an initial value and resets its submitted status.

```typescript
resetForm(value: any = undefined): void {
  this.form.reset(value);
  (this as {submitted: boolean}).submitted = false;
}
```

* Syncs a nested `FormGroup` to a DOM element.

```typescript
@syncPendingControls(this.form, this.directives);
```

* Private method to update the DOM value.

```typescript
_updateDomValue() {
  this.directives.forEach(dir => {
    const newCtrl: any = this.form.get(dir.path);
    if (dir.control !== newCtrl) {
      cleanUpControl(dir.control, dir);
      if (newCtrl) setUpControl(newCtrl, dir);
      (dir as {control: FormControl}).control = newCtrl;
    }
  });
  this.form._updateTreeValidity({emitEvent: false});
}
```

* Private method to update the form's validators.

```typescript
_updateValidators() {
  const sync = composeValidators(this._validators);
  this.form.validator = Validators.compose([this.form.validator!, sync!]);
  const async = composeAsyncValidators(this._asyncValidators);
  this.form.asyncValidator = Validators.composeAsync([this.form.asyncValidator!, async!]);
}
```

* Method called when the "reset" event is triggered on the form.

```typescript
resetForm(value: any = undefined): void {
  this.form.reset(value);
  (this as {submitted: boolean}).submitted = false;
}
```

* Method called when the form is submitted.

```typescript
submitForm(event: Event): void {
  this.ngSubmit.emit(event);
  return false;
}
```

* Method called with the "reset" event.

```typescript
resetForm(value: any = undefined): void {
  this.form.reset(value);
  (this as {submitted: boolean}).submitted = false;
}
```
The following example registers a nested `FormGroup` within an existing `FormGroup`, and provides methods to retrieve the nested `FormGroup` and individual controls.

```typescript
@Directive({selector: '[formGroupName]'})
export class FormGroupName extends AbstractFormGroupDirective implements OnInit, OnDestroy {
  /**
   * @description
   * Tracks the name of the 'FormGroup' bound to the directive. The name corresponds
   * to a key in the parent 'FormGroup' or 'FormArray'.
   * Accepts a name as a string or a number.
   * The name in the form of a string is useful for individual forms,
   * while the numerical form allows for form groups to be bound
   * to indices when iterating over groups in a 'FormArray'.
   */
  @Input('formGroupName') name !: string | number | null;

  constructor(
      @Optional() @Host() @SkipSelf() parent: ControlContainer,
      @Optional() @Self() @Inject(NG_VALIDATORS) validators: any[][],
      @Optional() @Self() @Inject(NG_ASYNC_VALIDATORS) asyncValidators: any[]) {
    this._parent = parent;
    this._validators = validators;
    this._asyncValidators = asyncValidators;
  }

  /** @internal */
  _checkParentType(): void {
    if (_hasInvalidParent(this._parent)) {
      ReactiveErrors.groupParentException();
    }
  }
}
```

`formArrayNameProvider` is used to create a `FormArray` by providing a name to a `FormGroup`.

```typescript
@Directive({selector: '[formArrayName]'})
export class FormArrayName extends ControlContainer implements OnInit, OnDestroy {
  /**
   * @description
   * Tracks the name of the `FormArray` bound to the directive. The name corresponds
   * to a key in the parent `FormGroup` or `FormArray`.
   * Accepts a name as a string or a number.
   * The name in the form of a string is useful for individual forms,
   * while the numerical form allows for form arrays to be bound
   * to indices when iterating over arrays in a 'FormArray'.
   */
  @Input('formArrayName') name !: string | number | null;

  constructor(
      @Optional() @Host() @SkipSelf() parent: ControlContainer,
      @Optional() @Self() @Inject(NG_VALIDATORS) validators: any[][],
      @Optional() @Self() @Inject(NG_ASYNC_VALIDATORS) asyncValidators: any[][]) {
    this._parent = parent;
    this._validators = validators;
    this._asyncValidators = asyncValidators;
  }

  ngOnInit(): void {
    this._checkParentType();
    this.formDirective!.addFormArray(this);
  }

  ngOnDestroy(): void {
    if (this.formDirective) {
      this.formDirective.removeFormArray(this);
    }
  }

  get control(): FormArray { return this.formDirective!.getFormArray(this); }

  get path(): string[] {
    return controlPath(this.name == null ? this.name : this.name.toString(), this._parent);
  }

  get validator(): ValidatorFn|null { return composeValidators(this._validators); }

  get asyncValidator(): AsyncValidatorFn|null { return composeValidators(this._validators); }
}
```
asyncValidator(): AsyncValidatorFn|null {
  return composeAsyncValidators(this._asyncValidators);
}

private _checkParentType(): void {
  if (_hasInvalidParent(this._parent)) {
    ReactiveErrors.arrayParentException();
  }
}

function _hasInvalidParent(parent: ControlContainer): boolean {
  return !(parent instanceof FormGroupName) && !(parent instanceof FormArrayName);
}

/**
 * @license
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 *
 * Use of this source code is governed by an MIT-style license that can be
 * found in the LICENSE file at https://angular.io/license
 */

import {Directive, EventEmitter, Host, Inject, Input, OnChanges, OnDestroy, Optional, Output, Self, SkipSelf, forwardRef} from '@angular/core';

import {FormControl} from '../../model';
import {NG_ASYNC_VALIDATORS, NG_VALIDATORS} from '../../validators';
import {AbstractFormGroupDirective} from '../abstract_form_group_directive';
import {ControlContainer} from '../control_container';
import {ControlValueAccessor, NG_VALUE_ACCESSOR} from '../control_value_accessor';
import {NgControl} from '../ng_control';
import {ReactiveErrors} from '../reactive_errors';
import {_ngModelWarning, composeAsyncValidators, composeValidators, controlPath, isPropertyUpdated, selectValueAccessor} from '../shared';
import {AsyncValidator, AsyncValidatorFn, Validator, ValidatorFn} from '../validators';

import {NG_MODEL_WITH_FORM_CONTROL_WARNING} from './form_control_directive';
import {FormGroupDirective} from './form_group_directive';
import {FormArrayName, FormGroupName} from './form_group_name';

export const controlNameBinding: any = {
  provide: NgControl,
  useExisting: forwardRef(() => FormControlName)
};

/**
 * @description
 * Syncs a
 * `FormControl` in an existing `FormGroup` to a form control
 * element by name.
 *
 * @see [Reactive Forms
 * Guide](guide/reactive-forms)
 * @see `FormControl`
 * @see `AbstractControl`
 *
 * @usageNotes
 * 
 *
 * ### Register `FormControl` within a group
 *
 * The following example shows how to register multiple form
 * controls within a group
 * and set their value:
 *
 * ```html
 * <form 
 *   [formGroup]="form">
 *   <input formControlName="first" [(ngModel)]="value">
 * </form>
 * ```
 *
 * ```ts
 * this.value = 'some value';
 * ```
 *
 * To see
 * `formControlName` examples with different form control types, see:
 *
 * ```html
 * <form 
 *   [formGroup]="form">
 *   <input formControlName="first">
 * </form>
 * ```
 *
 * ```ts
 * this.form.get('first').setValue('some value');
 * ```
 *
 * By
 * default, when you use this pattern, you will see a deprecation warning once in dev
 * mode. You can choose to
 * silence this warning by providing a config for
 * `ReactiveFormsModule` at import time:
 *
 * ```ts
 * imports:
 * [
 *   ReactiveFormsModule.withConfig({warnOnNgModelWithFormControl: 'never'})
 * ]
 * ```
 *
 * Alternatively, you can choose to surface a separate warning for each instance of this
 * pattern with a config value
 * of `'always'`. This may help to track down where in the code
 * the pattern is being used as the code is being
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```typescript
@Directive({
  selector: '[formControlName]',
  providers: [controlNameBinding]
})
export class FormControlName extends NgControl
  implements OnChanges, OnDestroy {
  private _added = false;
  /**
   * @description
   * Internal reference to
   * the view model value.
   */
  @Input() viewModel: any;

  /**
   * @description
   * Tracks the
   * FormControl instance bound to the directive.
   */
  @Input() control!: FormControl;

  /**
   * @description
   * Tracks the name of the FormControl bound to the directive.
   * The name corresponds
   * to a key in the parent 'FormGroup' or 'FormArray'.
   */
  @Input() name!: string | number | null;

  /** @deprecated as of v6 */
  @Input('disabled') set isDisabled(isDisabled: boolean) {
    ReactiveErrors.disabledAttrWarning();
  }

  /** @deprecated as of v6 */
  @Output('ngModel') model: any;

  /** @deprecated as of v6 */
  @Output('ngModelChange') update = new EventEmitter();

  /**
   * @description
   * Instance property
   * used to track whether an ngModel warning has been sent out for this
   * particular FormControlName instance.
   */
  _ngModelWarningSent = false;

  /**
   * @description
   * Static property used to track whether any ngModel warnings have
   * been sent across
   * all instances of FormControlName. Used to support warning config of 'once'.
   */
  static _ngModelWarningSentOnce = false;

  /**
   * @description
   * A lifecycle method called when the directive's inputs change.
   * For internal use only.
   */
  ngOnChanges(changes: SimpleChanges) {
    if (!this._added) this._setUpControl();
    if (isPropertyUpdated(changes, this.viewModel)) {
      _ngModelWarning('formControlName', FormControlName, this, this._ngModelWarningConfig);
      this.viewModel = this.model;
      this.formDirective.updateModel(this, this.model);
    }
  }

  /**
   * @description
   * Lifecycle method called before the directive's instance is
   * destroyed. For internal use only.
   */
  ngOnDestroy(): void {
    if (this.formDirective) {
      this.formDirective.removeControl(this);
    }
  }

  /**
   * @description
   * Returns an array that represents the path from the
top-level form to this control.
   * Each index is the string name of the control on that level.
   */
  get path(): string[] {
    return controlPath(this.name == null ? this.name : this.name.toString(), this._parent);
  }

  /**
   * @description
   * The top-level directive for this group if present, otherwise null.
   */
  get formDirective(): any { return this._parent ? this._parent.formDirective : null; }

  /**
   * @description
   * Synchronous
   * validator function composed of all the synchronous validators
   * registered with this directive.
   */
  get validator(): ValidatorFn|null { return composeValidators(this._rawValidators); }

  /**
   * @description
   * Async validator function composed of all the async validators registered with this
   * directive.
   */
  get asyncValidator(): AsyncValidatorFn {
    return composeAsyncValidators(this._rawAsyncValidators) !;
  }

  constructor(
    @Optional() @Host() @SkipSelf() parent: ControlContainer,
    @Optional() @Self() @Inject(NG_VALIDATORS) validators: Array<Validator|ValidatorFn>,
    @Optional() @Self() @Inject(NG_ASYNC_VALIDATORS) asyncValidators: Array<AsyncValidator|AsyncValidatorFn>,
    @Optional() @Self() @Inject(NG_VALUE_ACCESSOR) valueAccessors: ControlValueAccessor[],
    @Optional() @Inject(NG_MODEL_WITH_FORM_CONTROL_WARNING) private _ngModelWarningConfig:
      string|null) {
    super();
    this._parent = parent;
    this._rawValidators = validators || [];
    this._rawAsyncValidators = asyncValidators || [];
    this.valueAccessor = selectValueAccessor(this, valueAccessors);
  }
```
required(): boolean|string { return this._required; }

  set required(value: boolean|string) {
    this._required = value != null & value !== false & `${value}` !== 'false';
    if (this._onChange) this._onChange();
  }

/**
 * @description
 * Method that validates whether the control is empty.
 * Returns the validation result if enabled, otherwise null.
 */
  validate(control: AbstractControl): ValidationErrors|null {
    return this.required ? Validators.required(control) : null;
  }

  /**
   * @description
   * Registers a callback function to call when the
   * validator inputs change.
   * The callback function is called with:
   * @param fn The callback function
   */
  registerOnValidatorChange(fn: () => void) {
    this._onChange = fn;
  }

  /**
   * @description
   * Tracks changes to the email attribute bound to this directive.
   * Method that validates whether an email address is valid.
   * Returns the validation result if enabled, otherwise null.
   */
  validate(control: AbstractControl): ValidationErrors|null {
    return this.email ? Validators.email(control) : null;
  }

  /**
   * @description
   * Registers a callback function to call when the validator inputs change.
   * The callback function is called with:
   * @param fn The callback function
   */
  registerOnValidatorChange(fn: () => void) {
    this._onChange = fn;
  }

export interface ValidatorFn { (control: AbstractControl): ValidationErrors|null; }

export interface AsyncValidatorFn {
  (control: AbstractControl): Promise<ValidationErrors|null>|Observable<ValidationErrors|null>;
}

/**
 * A function that receives a control and returns a Promise or
 * observable that emits validation errors if present, otherwise null.
 */
export function AsyncValidatorFn(control: AbstractControl): Promise<ValidationErrors|null>|Observable<ValidationErrors|null>;

const MIN_LENGTH_VALIDATOR: any = {
  provide: NG_VALIDATORS,
  useExisting: forwardRef(() => MinLengthValidator),
  multi: true
};
list.

```typescript
@Directive(
  selector: `[minlength][formControlName],[minlength][formControl],[minlength][ngModel]`,
  providers: [
    MIN_LENGTH_VALIDATOR,
    host: {
      [attr.minlength]: `minlength ? minlength : null`},
  ]
) export class MinLengthValidator implements Validator, OnChanges {
  @Input() minlength!: string | number;

  ngOnChanges(changes: SimpleChanges): void {
    if ('minlength' in changes) {
      this._createValidator();
      if (this._onChange) this._onChange();
    }
  }

  validate(control: AbstractControl): ValidationErrors | null {
    return this.minlength == null ? null : this._validator(control);
  }

  registerOnValidatorChange(fn: () => void): void {
    this._onChange = fn;
  }

  private _createValidator(): void {
    this._validator = Validators.minLength(
      typeof this.minlength === 'number' ? this.minlength : parseInt(this.minlength, 10));
  }
}
```

```typescript
/**
 * @description
 * Provider which adds `MaxLengthValidator` to the `NG_VALIDATORS` multi-provider list.
 */
export const MAX_LENGTH_VALIDATOR: any = {
  provide: NG_VALIDATORS,
  useExisting: forwardRef(() => MaxLengthValidator),
  multi: true,
  providers: [
    MAX_LENGTH_VALIDATOR,
    host: {
      [attr.maxlength]: `maxlength ? maxlength : null`},
  ]
) export class MaxLengthValidator implements Validator, OnChanges {
  @Input() maxlength!: string | number;

  ngOnChanges(changes: SimpleChanges): void {
    if ('maxlength' in changes) {
      this._createValidator();
      if (this._onChange) this._onChange();
    }
  }

  validate(control: AbstractControl): ValidationErrors | null {
    return this.maxlength != null ? this._validator(control) : null;
  }

  registerOnValidatorChange(fn: () => void): void {
    this._onChange = fn;
  }

  private _createValidator(): void {
    this._validator = Validators.maxLength(
      typeof this.maxlength === 'number' ? this.maxlength : parseInt(this.maxlength, 10));
  }
}
```

```typescript
/**
 * @description
 * A directive that adds regex pattern validation to controls marked with the `pattern` attribute.
 * The directive is provided with the `NG_VALIDATORS` multi-provider list.
 */
export const PATTERN_VALIDATOR: any = {
  provide: NG_VALIDATORS,
  useExisting: forwardRef(() => PatternValidator),
  multi: true,
  providers: [
    PATTERN_VALIDATOR,
    host: {
      [attr.pattern]: `pattern ? pattern : null`},
  ]
) export class PatternValidator implements Validator, OnChanges {
  @Input() pattern!: string;

  ngOnChanges(changes: SimpleChanges): void {
    if ('pattern' in changes) {
      this._createValidator();
      if (this._onChange) this._onChange();
    }
  }

  validate(control: AbstractControl): ValidationErrors | null {
    return this.pattern != null ? this._validator(control) : null;
  }

  registerOnValidatorChange(fn: () => void): void {
    this._onChange = fn;
  }

  private _createValidator(): void {
    this._validator = Validators.pattern(this.pattern); // PATTERN_VALIDATOR
  }
}
```
Validation

```html
<input name="firstName" ngModel pattern="[a-zA-Z ]*" />
```

```typescript
@Directive({
  selector: '
[formControlName],
[formControl],
[ngModel]',
  providers: [PATTERN_VALIDATOR],
  host: {'[attr.pattern]': 'pattern ? pattern : null'}
})
export class PatternValidator implements Validator,
OnChanges {
  // TODO(issue/24571): remove '!'.
  private _validator!: ValidatorFn;
  // TODO(issue/24571): remove '!'.
  private _onChange!: () => void;

  /**
   * @description
   * Tracks changes to the pattern bound to this directive.
   */
  // TODO(issue/24571): remove '!'.
  @Input() pattern!: string | RegExp;

  /**
   * @description
   * A lifecycle method called when the directive's inputs change. For internal use only.
   *
   * @param changes A object of key/value pairs for the set of changed inputs.
   */
  ngOnChanges(changes: SimpleChanges): void {
    if ('pattern' in changes) {
      this._createValidator();
      if (this._onChange) this._onChange();
    }
  }

  /**
   * @description
   * Method that validates whether the value matches the pattern requirement.
   */
  validate(control: AbstractControl): ValidationErrors | null {
    return this._validator(control);
  }

  /**
   * @description
   * Registers a callback function to call when the validator inputs change.
   *
   * @param fn The callback function
   */
  registerOnValidatorChange(fn: () => void) {
    this._onChange = fn;
  }

  private _createValidator(): void {
    this._validator = Validators.pattern(this.pattern);
  }
}
```

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import {Injectable} from '@angular/core';

import {AsyncValidatorFn, ValidatorFn} from './directives/validators';
import {AbstractControl, AbstractControlOptions, FormArray, FormControl, FormGroup, FormHooks} from './model';

function isAbstractControlOptions(options: AbstractControlOptions | {[key: string]: any}): options is AbstractControlOptions {
}

/**
 * @description
 * Creates an `AbstractControl` from a user-specified configuration.
 *
 * The `FormBuilder` provides syntactic sugar that shortens creating instances of a `FormControl`,
 * `FormGroup`, or `FormArray`. It reduces the amount of boilerplate needed to build complex
 * forms.
 *
 * @see [Reactive Forms Guide](/guide/reactive-forms)
 *
 * @publicApi
 */
@Injectable()
export class FormBuilder {
  /**
   * @description
   * Construct a new `FormGroup` instance.
   *
   * @param
   * controlsConfig A collection of child controls. The key for each child is the name
   * under which it is registered.
   *
   * @param options Configuration options object for the `FormGroup`. The object can
   * have two shapes:
   *
   * 1) `AbstractControlOptions` object (preferred), which consists of:
   * * `validators`: A synchronous
   * validator function, or an array of validator functions
   * * `asyncValidators`: A single async validator or array of
   * async validator functions
   * * `updateOn`: The event upon which the control should be updated (options: 'change'
   * | 'blur' | 'submit')
   *
   * 2) Legacy configuration object, which consists of:
   * * `validator`: A synchronous
   * validator function, or an array of validator functions
   * * `asyncValidator`: A single async validator or array of
   * async validator functions
   */
  group(controlsConfig: {
    [key: string]: any
  }, options: AbstractControlOptions | {[key: string]: any} | null = null): FormGroup {
    const controls = this._reduceControls(controlsConfig);

    let validators: ValidatorFn | ValidatorFn[] | null = null;
    let asyncValidators: AsyncValidatorFn | AsyncValidatorFn[] | null = null;
    let updateOn: FormHooks | undefined = undefined;

    if (options !== null) {
      if (isAbstractControlOptions(options)) {
        // `options` are `AbstractControlOptions`
        validators = options.validators != null ? options.validators : null;
        asyncValidators = options.asyncValidators != null ? options.asyncValidators : null;
      } else {
        // `options` are legacy form group options
        validators = options.validators != null ? options.validators : null;
        asyncValidators = options.asyncValidators != null ? options.asyncValidators : null;
      }
    }

    return new FormGroup(controls, {validators, asyncValidators, updateOn});
  }

  /**
   * @description
   * Construct a new `FormControl` instance.
   *
   * @param
   * formState Initializes the control
   * with an initial state value, or
   * with an object that contains both a value and a disabled status.
   *
   * @param options Configuration options object for the `FormControl`. The object can
   * have two shapes:
   *
   * 1) `AbstractControlOptions` object (preferred), which consists of:
   * * `validators`: A synchronous
   * validator function, or an array of validator functions
   * * `asyncValidators`: A single async validator or array of
   * async validator functions
   * * `updateOn`: The event upon which the control should be updated (options: 'change'
   * | 'blur' | 'submit')
   *
   * 2) Legacy configuration object, which consists of:
   * * `validator`: A synchronous
   * validator function, or an array of validator functions
   * * `asyncValidator`: A single async validator or array of
   * async validator functions
   */
  control(formState: any, options: AbstractControlOptions | {[key: string]: any} | null = null): FormControl {
    const state = formState;

    let validators: ValidatorFn | ValidatorFn[] | null = null;
    let asyncValidators: AsyncValidatorFn | AsyncValidatorFn[] | null = null;
    let updateOn: FormHooks | undefined = undefined;

    if (options !== null) {
      if (isAbstractControlOptions(options)) {
        // `options` are `AbstractControlOptions`
        validators = options.validators != null ? options.validators : null;
        asyncValidators = options.asyncValidators != null ? options.asyncValidators : null;
      } else {
        // `options` are legacy form control options
        validators = options.validators != null ? options.validators : null;
        asyncValidators = options.asyncValidators != null ? options.asyncValidators : null;
      }
    }

    return new FormControl(state, {validators, asyncValidators, updateOn});
  }
}

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 * found in the LICENSE file at https://angular.io/license
 */

import {Injectable} from '@angular/core';

import {AsyncValidatorFn, ValidatorFn} from './directives/validators';
import {AbstractControl, AbstractControlOptions, FormArray, FormControl, FormGroup, FormHooks} from './model';

function isAbstractControlOptions(options: AbstractControlOptions | {[key: string]: any}): options is AbstractControlOptions {
}

/**
 * @description
 * Creates an `AbstractControl` from a user-specified configuration.
 *
 * The `FormBuilder` provides syntactic sugar that shortens creating instances of a `FormControl`,
 * `FormGroup`, or `FormArray`. It reduces the amount of boilerplate needed to build complex
 * forms.
 *
 * @see [Reactive Forms Guide](/guide/reactive-forms)
 *
 * @publicApi
 */
@Injectable()
export class FormBuilder {
  /**
   * @description
   * Construct a new `FormGroup` instance.
   *
   * @param
   * controlsConfig A collection of child controls. The key for each child is the name
   * under which it is registered.
   *
   * @param options Configuration options object for the `FormGroup`. The object can
   * have two shapes:
   *
   * 1) `AbstractControlOptions` object (preferred), which consists of:
   * * `validators`: A synchronous
   * validator function, or an array of validator functions
   * * `asyncValidators`: A single async validator or array of
   * async validator functions
   * * `updateOn`: The event upon which the control should be updated (options: 'change'
   * | 'blur' | 'submit')
   *
   * 2) Legacy configuration object, which consists of:
   * * `validator`: A synchronous
   * validator function, or an array of validator functions
   * * `asyncValidator`: A single async validator or array of
   * async validator functions
   */
  group(controlsConfig: {
    [key: string]: any
  }, options: AbstractControlOptions | {[key: string]: any} | null = null): FormGroup {
    const controls = this._reduceControls(controlsConfig);

    let validators: ValidatorFn | ValidatorFn[] | null = null;
    let asyncValidators: AsyncValidatorFn | AsyncValidatorFn[] | null = null;
    let updateOn: FormHooks | undefined = undefined;

    if (options !== null) {
      if (isAbstractControlOptions(options)) {
        // `options` are `AbstractControlOptions`
        validators = options.validators != null ? options.validators : null;
        asyncValidators = options.asyncValidators != null ? options.asyncValidators : null;
      } else {
        // `options` are legacy form group options
        validators = options.validators != null ? options.validators : null;
        asyncValidators = options.asyncValidators != null ? options.asyncValidators : null;
      }
    }

    return new FormGroup(controls, {validators, asyncValidators, updateOn});
  }

  /**
   * @description
   * Construct a new `FormControl` instance.
   *
   * @param
   * formState Initializes the control
   * with an initial state value, or
   * with an object that contains both a value and a disabled status.
   *
   * @param options Configuration options object for the `FormControl`. The object can
   * have two shapes:
   *
   * 1) `AbstractControlOptions` object (preferred), which consists of:
   * * `validators`: A synchronous
   * validator function, or an array of validator functions
   * * `asyncValidators`: A single async validator or array of
   * async validator functions
   * * `updateOn`: The event upon which the control should be updated (options: 'change'
   * | 'blur' | 'submit')
   *
   * 2) Legacy configuration object, which consists of:
   * * `validator`: A synchronous
   * validator function, or an array of validator functions
   * * `asyncValidator`: A single async validator or array of
   * async validator functions
   */
  control(formState: any, options: AbstractControlOptions | {[key: string]: any} | null = null): FormControl {
    const state = formState;

    let validators: ValidatorFn | ValidatorFn[] | null = null;
    let asyncValidators: AsyncValidatorFn | AsyncValidatorFn[] | null = null;
    let updateOn: FormHooks | undefined = undefined;

    if (options !== null) {
      if (isAbstractControlOptions(options)) {
        // `options` are `AbstractControlOptions`
        validators = options.validators != null ? options.validators : null;
        asyncValidators = options.asyncValidators != null ? options.asyncValidators : null;
      } else {
        // `options` are legacy form control options
        validators = options.validators != null ? options.validators : null;
        asyncValidators = options.asyncValidators != null ? options.asyncValidators : null;
      }
    }

    return new FormControl(state, {validators, asyncValidators, updateOn});
  }
}
`AbstractControlOptions` object that contains validation functions and a validation trigger.

```typescript
* @param asyncValidator A single async validator or array of async validators
* functions.
* @usageNotes
* ### Initialize a control as disabled
* The following example returns a control with an initial value in a disabled state.
* <code-example path="/forms/ts/formBuilder/form_builder_example.ts" region="disabled-control">
* </code-example>
* /an control\n formState: any, validatorOrOpts?:
```

```typescript
ValidatorFn[ValidatorFn][AbstractControlOptions]|null,\n asyncValidator?:
AsyncValidatorFn[AsyncValidatorFn][null]: FormControl \n return new FormControl(formState, validatorOrOpts, asyncValidator);\n |\n */**
* Constructs a new `FormArray` from the given array of configurations,
* validators and options.
* @param params\n* controlsConfig An array of child controls or control configs. Each\n* child control is given an index when it is registered.
* @param validatorOrOpts A synchronous validator function, or an array of\n* such functions, or an `AbstractControlOptions` object that contains validation functions and a validation trigger.
* @param asyncValidator A single async validator or array of async validator functions.
* /an array\n* controlsConfig: any[],\n* validatorOrOpts?: ValidatorFn|ValidatorFn|AbstractControlOptions|null,
* asyncValidator?:
```

```typescript
AsyncValidatorFn[AsyncValidatorFn][null]: FormArray \n const controls = controlsConfig.map(c =>
* this._createControl(c));\n return new FormArray(controls, validatorOrOpts, asyncValidator);\n |\n */**
* @internal
* _reduceControls(controlsConfig: {[k: string]: any}): {[key: string]: AbstractControl} {\n* const controls: {[key: string]: AbstractControl} = {\n* [key: string]: \n* AbstractControl} = {\n* [controls\n* controlName = this._createControl(controlsConfig[controlName]);\n* return controls;\n* */**
* @internal
* _createControl(controlsConfig: any): AbstractControl {\n* if (controlConfig instanceof FormControl ||
* controlConfig instanceof FormGroup ||
* controlConfig instanceof FormArray) {\n* return controlConfig;\n* } else if (Array.isArray(controlConfig)) {\n* const value = controlConfig[0];\n* const validator: ValidatorFn = controlConfig.length > 1 ?
* controlConfig[1] : null;
* const asyncValidator: AsyncValidatorFn|AsyncValidatorFn = controlConfig.length > 2 ?
* controlConfig[2] : null;
* return this.control(value, validator, asyncValidator);\n* } else {
* return this.control(controlsConfig);\n* |\n* }\n* }/*
* @license
* Copyright Google Inc. All Rights Reserved.\n* * Use of this source code is governed by an MIT-style license that can be found in the LICENSE file at https://angular.io/license
* * @angular/core
* * @publicApi
* @module
* @description
* Provides options for configuring the reactive forms module.
* @param opts An object of configuration options
* * `warnOnNgModelWithFormControl` Configures when to emit a warning when an `ngModel`
* binding is used with reactive form directives.
* @param params\n* `warnOnNgModelWithFormControl: 'never' | 'once' | 'always'`): ModuleWithProviders<ReactiveFormsModule>
```
```typescript
return {
  ngModule: ReactiveFormsModule,
  providers: [
    {
      provide: NG_MODEL_WITH_FORM_CONTROL_WARNING,
      useValue: opts.warnOnNgModelWithFormControl
    }
  ]
};
```

```typescript
export *
```

```typescript
from './index';

export {
  InternalFormsSharedModule as ɵangular_packages_forms_forms_d, REACTIVE_DRIVEN_DIRECTIVES as ɵangular_packages_forms_forms_c.SHARED_FORM_DIRECTIVES as ɵangular_packages_forms_forms_a.TEMPLATE_DRIVEN_DIRECTIVES as ɵangular_packages_forms_forms_b from './src/directives';
  {CHECKBOX_VALUE_ACCESSOR as ɵangular_packages_forms_forms_e} from './src/directives/checkbox_value_accessor';
  {DEFAULT_VALUE_ACCESSOR as ɵangular_packages_forms_forms_f} from './src/directives/default_value_accessor';
  {AbstractControlStatus as ɵangular_packages_forms_forms_g} from './src/directives/ng_control_status';
  {formDirectiveProvider as ɵangular_packages_forms_forms_h} from './src/directives/ng_form';
  {formControlBinding as ɵangular_packages_forms_forms_i} from './src/directives/ng_model';
  {modelGroupProvider as ɵangular_packages_forms_forms_j} from './src/directives/ng_model_group';
  {NgNoValidate as ɵangular_packages_forms_forms_k} from './src/directives/ng_no_validate_directive';
  {NUMBER_VALUE_ACCESSOR as ɵangular_packages_forms_forms_l} from './src/directives/radio_control_value_accessor';
  {RADIO_VALUE_ACCESSOR as ɵangular_packages_forms_forms_m, RadioControlRegistry as ɵangular_packages_forms_forms_n} from './src/directives/radio_control_value_accessor';
  {RANGE_VALUE_ACCESSOR as ɵangular_packages_forms_forms_o} from './src/directives/range_value_accessor';
  {CHECKBOX_REQUIRED_VALIDATOR as ɵangular_packages_forms_forms_p, formControlBinding as ɵangular_packages_forms_forms_q} from './src/directives/reactive_directives/form_control_directive';
  {controlNameBinding as ɵangular_packages_forms_forms_r} from './src/directives/reactive_directives/form_control_name';
  {formDirectiveProvider as ɵangular_packages_forms_forms_s} from './src/directives/reactive_directives/form_group_directive';
  {formArrayNameProvider as ɵangular_packages_forms_forms_t, formGroupNameProvider as ɵangular_packages_forms_forms_u} from './src/directives/reactive_directives/form_group_name';
  {SELECT_VALUE_ACCESSOR as ɵangular_packages_forms_forms_v} from './src/directives/reactive_directives/select_value_accessor';
  {NgSelectMultipleOption as ɵangular_packages_forms_forms_w, SELECT_MULTIPLE_VALUE_ACCESSOR as ɵangular_packages_forms_forms_x} from './src/directives/reactive_directives/select_multiple_value_accessor';
  {CHECKBOX_REQUIRED_VALIDATOR as ɵangular_packages_forms_forms_y} from './src/directives/validators';
```
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No license file was found, but licenses were detected in source scan.

{"version":3,"file":"forms.umd.js","sources":[]}
method.

```ts
registerOnChange(fn: (_: any) => void): void {
  this._onChange = fn;
}
```

### Store the change function

The following example stores the provided function as an internal value accessor, save the given function so your class calls it at the appropriate time.

```ts
writeValue(value: any): void {
  this._renderer.setProperty(this._elementRef.nativeElement, 'value', value);
}
```
When the value changes in the UI, call the registered function to allow the forms API to update itself:

```ts
host: {
  (change): _onChange($event.target.value)
}
```

@param fn The callback function to register

```ts
registerOnChange(fn: any): void;
```

* Registers a callback function that is called by the forms API on initialization to update the form model on blur.

```ts
host: {
  (blur): '_onTouched()'
}
```

* Stores the callback function

```ts
registerOnTouched(fn: fn: any): void;
```

* The following example shows the provided function as an internal method:

```ts
host: {
  (change): _onChange($event.target.value)
}
```

* When implementing `registerOnTouched` in your own value accessor, save the given function so your class calls it when the control should be considered *blurred or touched*. * * * * * * * * * *

### Store the callback function

```ts
registerOnTouched(fn: any): void;
```

* The following is an example of writing the disabled property to a native DOM element:

```ts
setDisabledState(isDisabled: boolean): void {
  this._renderer.setProperty(this._elementRef.nativeElement, 'disabled', isDisabled);
}
```

* Enables or disables the appropriate DOM element.

```ts
registerOnTouched(fn: any): void;
```

* The following is an example of storing the callback function to a native DOM element:

```ts
setDisabledState(isDisabled: boolean): void {
  this._renderer.setProperty(this._elementRef.nativeElement, 'disabled', isDisabled);
}
```

* When implementing `registerOnTouched` in your own value accessor, save the given function so your class calls it when the control should be considered *blurred or touched*. * * * * * * * * * *

### Store the callback function

```ts
registerOnTouched(fn: any): void;
```

* The following is an example of writing the disabled property to a native DOM element:

```ts
setDisabledState(isDisabled: boolean): void {
  this._renderer.setProperty(this._elementRef.nativeElement, 'disabled', isDisabled);
}
```

* Enables or disables the appropriate DOM element.

```ts
registerOnTouched(fn: any): void;
```

* The following is an example of storing the callback function to a native DOM element:

```ts
setDisabledState(isDisabled: boolean): void {
  this._renderer.setProperty(this._elementRef.nativeElement, 'disabled', isDisabled);
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```

* The following is an example of writing the disabled property to a native DOM element:

```ts
setDisabledState(isDisabled: boolean): void {
  this._renderer.setProperty(this._elementRef.nativeElement, 'disabled', isDisabled);
}
```

* Enables or disables the appropriate DOM element.
import {ControlValueAccessor, NG_VALUE_ACCESSOR} from './control_value_accessor';

export const DEFAULT_VALUE_ACCESSOR = {
  provide: NG_VALUE_ACCESSOR,
  useExisting: forwardRef(() => DefaultValueAccessor),
  multi: true
};

function _isAndroid(): boolean {
  const userAgent = getDOM() ? getDOM().getUserAgent() : '';
  return /android\d+/.test(userAgent.toLowerCase());
}

/**
 * @description
 * The default `ControlValueAccessor` for writing a value and listening to changes on input
 * elements. The accessor is used by the `FormControlDirective`, `FormControlName`, and `NgModel`
 * directives. Using the default value accessor on input elements. The following example shows
 * how to use an input element that activates the default value accessor in this case, a text field.
 *
 * const firstNameControl = new FormControl();
 * ```
 * <input type="text"
 * [formControl]="firstNameControl">
 * ```
 *
 * @ngModule ReactiveFormsModule
 * @ngModule
 * FormsModule
 * @publicApi
 */

@Directive({
  selector: 'input:not([type=checkbox])[formControlName],textarea[formControlName],input:not([type=checkbox])[formControl],textarea[ngModel],input:not([type=checkbox])[ngModel],textarea[ngModel],[ngDefaultControl],
  host: {
    '(input)': '$_any(this)._handleInput($event.target.value)',
    '(blur)': 'onTouched()',
    '(compositionstart)': '
      _any(this)._compositionStart()',
    '(compositionend)': '
      _any(this)._compositionEnd($event.target.value)'
  },
  providers: [DEFAULT_VALUE_ACCESSOR]
})
export class DefaultValueAccessor implements ControlValueAccessor {
  /**
   * @description
   * The registered callback function called when an input event
   * occurs on the input element.
   */
  onChange = (_: any) => {};

  /**
   * @description
   * The registered callback function called when the control value
   * changes.
   */
  registerOnChange(fn: (_: any) => void): void {
    this.onChange = fn;
  }

  /**
   * @description
   * Registers a function called when the control is touched.
   */
  registerOnTouched(fn: () => void): void {
    this.onTouched = fn;
  }

  /** @internal */
  _handleInput(value: any): void {
    if (!this._compositionMode || (this._compositionMode && !this._composing)) {
      this.onChange(value);
    }
  }

  /** @internal */
  _compositionStart(): void {
    this._composing = true;
  }

  /** @internal */
  _compositionEnd(value: any): void {
    this._composing = false;
  }

  @Inject(COMPOSITION_BUFFER_MODE) private _compositionMode: boolean;
If the control is not present, false is returned.

```typescript
hasError(errorCode: string, path?: string): boolean {
    return this.control ? this.control.hasError(errorCode, path) : false;
}
```

```typescript
getError(errorCode: string, path?: string): any {
    return this.control ? this.control.getError(errorCode, path) : null;
}
```

```typescript
function unimplemented(): any {
    throw new Error('unimplemented');
}
```

```typescript
AbstractControlStatus {
    _cd: AbstractControlDirective;
}
```

```typescript
get ngClassUntouched(): boolean { return this._cd.control ? this._cd.control.untouched : false; }
```

```typescript
get ngClassTouched(): boolean { return this._cd.control ? this._cd.control.touched : false; }
```

```typescript
get ngClassUntouched(): boolean { return this._cd.control ? this._cd.control.untouched : false; }
```

```typescript
get ngClassTouched(): boolean { return this._cd.control ? this._cd.control.touched : false; }
```
ngClassPristine(): boolean { return this._cd.control ? this._cd.control.pristine : false; } ngClassDirty(): boolean { return this._cd.control ? this._cd.control.dirty : false; } ngClassValid(): boolean { return this._cd.control ? this._cd.control.valid : false; } ngClassInvalid(): boolean { return this._cd.control ? this._cd.control.invalid : false; } ngClassPending(): boolean { return this._cd.control ? this._cd.control.pending : false; }

export const ngControlStatusHost = {
  '[class.ng-untouched]': 'ngClassUntouched',
  '[class.ng-touched]': 'ngClassTouched',
  '[class.ng-pristine]': 'ngClassPristine',
  '[class.ng-valid]': 'ngClassValid',
  '[class.ng-invalid]': 'ngClassInvalid',
  '[class.ng-pending]': 'ngClassPending',
  '[class.ng-dirty]': 'ngClassDirty',
  '[class.ng-untouched]': 'ngClassUntouched',
  '[class.ng-touched]': 'ngClassTouched',
  '[class.ng-pristine]': 'ngClassPristine',
  '[class.ng-dirty]': 'ngClassDirty',
  '[class.ng-invalid]': 'ngClassInvalid',
  '[class.ng-pending]': 'ngClassPending',
};

/**
 * @description
 * Directive automatically applied to Angular form controls that sets CSS classes
 * based on control status.
 *
 * @usageNotes
 *
 * ### CSS classes applied
 *
 * * ng-valid
 * * ng-invalid
 * * ng-pending
 * * ng-pristine
 * * ng-dirty
 * * ng-untouched
 * * ng-touched
 * @publicApi
 */
@Directive({selector: '[formControlName],[ngModel],[formControl]', host: ngControlStatusHost})
export class NgControlStatus extends AbstractControlStatus {
  constructor(@Self() cd: NgControl) { super(cd); }
}

/**
 * @description
 * Directive automatically applied to Angular form groups that sets CSS classes
 * based on control status
 * (valid/invalid/dirty/etc).
 * @see `NgControlStatus`
 * @publicApi
 */
@Directive({
  selector: '[formGroupName],[formArrayName],[ngModelGroup],[formGroup],form:not([ngNoForm]),[ngForm]',
  host: ngControlStatusHost
})
export class NgControlStatusGroup extends AbstractControlStatus {
  constructor(@Self() cd: ControlContainer) { super(cd); }
}

/**
 * @description
 * An `InjectionToken` for registering additional synchronous validators used with `AbstractControl`s.
 *
 * @see `NG_ASYNC_VALIDATORS`
 *
 * @publicApi
 */
export const NG_VALIDATORS = new InjectionToken<Array<Validator|Function>>('NgValidators');

/**
 * @description
 * An `InjectionToken` for registering additional asynchronous validators used with `AbstractControl`s.
 *
 * @see `NG_VALIDATORS`
 *
 * @publicApi
 */
export const NG_ASYNC_VALIDATORS = new InjectionToken<Array<Validator|Function>>('NgAsyncValidators');

/**
 * A regular expression that matches valid e-mail addresses.
 *
 * At a high level, this regexp matches e-mail addresses of the format `local-part@tld`,
 * where:
 * - `local-part` consists of one or more of the allowed characters (alphanumeric and some
 *   punctuation symbols).
 * - `local-part` cannot begin or end with a period (`.`).
 * - `local-part` cannot be longer than 64 characters.
 * - `local-part` consists of one or more `labels` separated by periods (`.`).
 * - `local-part` consists of one or more of the allowed characters (alphanumeric, dashes (`-`) and
 *   periods (`.`)).
 * - `local-part` cannot begin or end with a dash (`-`) or a period (`.`).
 * - `local-part` cannot be longer than 63 characters.
 * - The whole address cannot be longer than 254 characters.
 * @see [WHATWG version](https://html.spec.whatwg.org/multipage/input.html#valid-e-mail-address) with
 *   some
enhancements to incorporate more RFC rules (such as rules related to domain names and the length of different parts of the address). The main differences from the WHATWG version are:

- Disallow `local-part` to begin or end with a period (`.`).
- Disallow `local-part` length to exceed 64 characters.
- Disallow total address length to exceed 254 characters.

See [this commit](https://github.com/angular/angular.js/commit/f3f5cf72e) for more details.

```javascript
const EMAIL_REGEXP =
    /^(?=.{1,254}$)(?=.{1,64}@)[a-zA-Z0-9!#$%&'*+/=?^_`{|}~-]+(?:\.[a-zA-Z0-9!#$%&'*+/=?^_`{|}~-]+)*@[a-zA-Z0-9](?:[a-zA-Z0-9-]\.)*$/;
```

```typescript
/**
   * @description
   * Provides a set of built-in validators that can be used by form controls.
   *
   * A validator is a function that processes a FormControl or collection of FormControl controls and returns an error map or null. A null map means that validation has passed.
   */
export class Validators {
  /**
   * @description
   * Validator that requires the control's value to be greater than or equal to the provided number.
   *
   * The validator exists only as a function and not as a directive.
   *
   * @usageNotes
   *
   * ### Validate against a minimum of 3
   *
   * ```typescript
   * const control = new FormControl(2, Validators.min(3));
   *
   * console.log(control.errors); // {min: 3}
   * ```
   *
   * @returns An error map with the `min` property if the validation check fails, otherwise `null`.
   *
   * @see `updateValueAndValidity()`
   *
   */
  static min(min: number): ValidatorFn {
    return (control: AbstractControl): ValidationErrors | null => {
      const value = parseFloat(control.value);
      return !isNaN(value) && value < min ? {'min': {'min': min, 'actual': control.value}} : null;
    };
  }

  /**
   * @description
   * Validator that requires the control's value to be less than or equal to the provided number.
   *
   * The validator exists only as a function and not as a directive.
   *
   * ```typescript
   * const control = new FormControl(16, Validators.max(15));
   *
   * console.log(control.errors); // {max: 15}
   * ```
   *
   * @returns An error map with the `max` property if the validation check fails, otherwise `null`.
   *
   * @see `updateValueAndValidity()`
   *
   */
  static max(max: number): ValidatorFn {
    return (control: AbstractControl): ValidationErrors | null => {
      const value = parseFloat(control.value);
      return !isNaN(value) && value > max ? {'max': {'max': max, 'actual': control.value}} : null;
    };
  }

  /**
   * @description
   * Validator that requires the control have a non-empty value.
   *
   * ```typescript
   * const control = new FormControl('', Validators.required);
   *
   * console.log(control.errors); // {required: true}
   * ```
   *
   * @returns An error map that contains the `required` property set to `true` if the validation check fails, otherwise `null`.
   *
   * @see `updateValueAndValidity()`
   *
   */
  static required(control: AbstractControl): ValidationErrors | null {
    return isEmptyInputValue(control.value) ? {'required': true} : null;
  }

  /**
   * @description
   * Validator that requires the control's value pass an email validation test.
   *
   * Tests the value using a [regular expression](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Guide/Regular_Expressions) pattern suitable for common use cases. The pattern is based on the definition of a valid email address in the [WHATWG HTML specification](https://html.spec.whatwg.org/multipage/input.html#valid-e-mail-address).
   */
  static email(control: AbstractControl): ValidationErrors | null {
    return isEmptyInputValue(control.value) ? null : {email: !isValidEmail(control.value) ? {'email': true} : null};
  }
```

@see [Form Validation](/guide/form-validation)

AbstractControl: ValidationErrors | null => {null if(isEmptyInputValue(control.value))

isEmptyInputValue(min: number): number {
    return isEmptyInputValue(control.value) ? {'required': true} : null;
  }

```
```
with some enhancements to incorporate more RFC rules (such as rules related to domain names and the lengths of different parts of the address).

- Disallow 'local-part' (the part before the '@' symbol) to begin or end with a period ('.').
- Disallow 'local-part' to be longer than 64 characters.
- Disallow the whole address to be longer than 254 characters.

If this pattern does not satisfy your business needs, you can use `Validators.pattern()` to validate the value against a different pattern.

```

const pattern = /^[a-zA-Z \]*$/;

valid(control: AbstractControl): ValidationErrors | null => {
  const length = control.value ?
    control.value.length : 0;
  return length < minLength ?
    null : {'minlength': {'requiredLength': minLength, 'actualLength': length}} :
  null;
}
```

### Validate that the field has a minimum of 3 characters

```

Validators.minLength(3);)
```

### Validate that the field has a maximum of 5 characters

```

Validators.maxLength(5));
```

### Validate that the field has a minimum of 3 characters and a maximum of 5 characters

```

Validators.minLength(3);)
Validators.maxLength(5);)
```

### Validate that the field only contains letters or spaces

```

Validators.pattern(\^[a-zA-Z \]*\$);)
```

### Validate that the field matches a valid email pattern

```

email(control: AbstractControl): ValidationErrors|null {
  if (isEmptyInputValue(control.value)) {
    return null;  // don't validate empty values to allow optional controls
  }
  return EMAIL_REGEXP.test(control.value) ? null : {
    'email': true};
}
```

### Validate that the field only contains letters or spaces and is preceded with an at symbol

```

email(control: AbstractControl): ValidationErrors|null {
  if (isEmptyInputValue(control.value)) {
    return null;  // don't validate empty values to allow optional controls
  }
  return EMAIL_REGEXP.test(control.value) ? null : {
    'email': true};
}
```

### Validate that the field matches a valid email pattern

```

email(control: AbstractControl): ValidationErrors|null {
  if (isEmptyInputValue(control.value)) {
    return null;  // don't validate empty values to allow optional controls
  }
  return EMAIL_REGEXP.test(control.value) ? null : {
    'email': true};
}
```

### Validate that the field matches a valid email pattern

```

email(control: AbstractControl): ValidationErrors|null {
  if (isEmptyInputValue(control.value)) {
    return null;  // don't validate empty values to allow optional controls
  }
  return EMAIL_REGEXP.test(control.value) ? null : {
    'email': true};
}
```

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email(control: AbstractControl): ValidationErrors|null {
  if (isEmptyInputValue(control.value)) {
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  }
  return EMAIL_REGEXP.test(control.value) ? null : {
    'email': true};
}
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email(control: AbstractControl): ValidationErrors|null {
  if (isEmptyInputValue(control.value)) {
    return null;  // don't validate empty values to allow optional controls
  }
  return EMAIL_REGEXP.test(control.value) ? null : {
    'email': true};
}
```

### Validate that the field matches a valid email pattern

```

email(control: AbstractControl): ValidationErrors|null {
  if (isEmptyInputValue(control.value)) {
    return null;  // don't validate empty values to allow optional controls
  }
  return EMAIL_REGEXP.test(control.value) ? null : {
    'email': true};
}
```
control.value;

return regex.test(value) ? null :

{ 'pattern': { 'requiredPattern': regexStr,
'threshold': true },
           'actualValue': value },

)};

/staticValidationAndValidity()*

static

null

return


null

static

null

null

static

null

// should always result in a new observable

forkJoin(observables).pipe(map(_mergeErrors)).subscribe();

});

function

isPresent(o: any): boolean {

return o != null;

}

export function
toObservable(r: any): Observable<any> {

const obs = isPromise(r) ? from(r) : r;

if (!(isObservable(obs))) {

throw new

Error('Expected validator to return Promise or Observable.');
}

return obs;

}

function

_executeValidators(control: AbstractControl, validators: ValidatorFn[]): any[] {

return validators.map(v =>

v(control));

}

function

_executeAsyncValidators(control: AbstractControl, validators: AsyncValidatorFn[]): any[] {

return validators.map(v => v(control));

}

function

_mergeErrors(arrayOfErrors: ValidationErrors[]): ValidationErrors|null {

let res: {

key: string

}

=

{};


// Not using Array.reduce here due to a Chrome 80 bug

// https://bugs.chromium.org/p/chromium/issues/detail?id=1049982

// arrayOfErrors.forEach((errors: ValidationErrors | null) => {

res = errors != null ? {...res !, ...errors} : res !;

});

return

Object.keys(res).length === 0 ? null : (res || {});
selector:

`input[type=number][formControlName], input[type=number][formControl], input[type=number][ngModel]`,

`<input[type=number][formControlName], input[type=number][formControl], input[type=number][ngModel]>`,

`<input[type=number][formControlName], input[type=number][formControl], input[type=number][ngModel]>`,

`<input[type=number][formControlName], input[type=number][formControl], input[type=number][ngModel]>`,

`<input[type=number][formControlName], input[type=number][formControl], input[type=number][ngModel]>`,

`<input[type=number][formControlName], input[type=number][formControl], input[type=number][ngModel]>`,

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`<input[type=number][formControlName], input[type=number][formControl], input[type=number][ngModel]>`,

`<input[type=number][formControlName], input[type=number][formControl], input[type=number][ngModel]>`,

`<input[type=number][formControlName], input[type=number][formControl], input[type=number][ngModel]>`,

`<input[type=number][formControlName], input[type=number][formControl], input[type=number][ngModel]>`,
```typescript
/**
 * @description
 * The registered callback function called when a change event occurs on the input element.
 */
@Input() onChange = () => {};

/**
 * @description
 * The registered callback function called when a blur event occurs on the input element.
 */
@Input() onTouched = () => {};

/**
 * @description
 * Tracks the name of the radio input element.
 */
@Input() name: string;

/**
 * @description
 * Tracks the name of the `FormControl` bound to the directive. The name corresponds to a key in the parent 'FormGroup' or 'FormArray'.
 */
@Input() formControlName: string;

/**
 * @description
 * Tracks the value of the radio input element.
 */
@Input() value: any;

constructor(
    private _renderer: Renderer2,
    private _elementRef: ElementRef,
    private _registry: RadioControlRegistry,
    private _injector: Injector) {

    /**
     * @description
     * Lifecycle method called before the directive's instance is destroyed. For internal use only.
     */
    ngOnDestroy(): void {
        this._registry.remove(this);
    }

    /**
     * @description
     * Sets the "checked" property value on the radio input element.
     */
    writeValue(value: any): void {
        this._state = value === this.value;
        this._renderer.setProperty(this._elementRef.nativeElement, 'checked', this._state);
    }

    /**
     * Registers a function called when the control value changes.
     */
    registerOnChange(fn: (_: any) => {}): void {
        this._fn = fn;
        this.onChange = () => {
            fn(this.value);
            this._registry.select(this);
        };
    }

    /**
     * Sets the "value" on the radio input element and unchecks it.
     */
    fireUncheck(value: any): void {
        this.writeValue(value);
    }

    /**
     * Registers a function called when the control is touched.
     */
    registerOnTouched(fn: () => {}): void {
        this.onTouched = fn;
    }

    /**
     * Sets the "disabled" property on the input element.
     */
    setDisabledState(isDisabled: boolean): void {
        this._renderer.setProperty(this._elementRef.nativeElement, 'disabled', isDisabled);
    }

    private _checkName(): void {
        if (this.name && this.formControlName && this.name !== this.formControlName) {
            this._throwNameError();
        }
        if (!this.name && this.formControlName) this.name = this.formControlName;
    }

    private _throwNameError(): void {
        throw new Error(`If you define both a name and a formControlName attribute on your radio button, their values must match. Ex: <input type="radio" formControlName="food" name="food">`);
    }
}

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```
```typescript
/**
 * Sets the "value" property on the input element.
 *
 * @param value The checked value
 */

writeValue(value: any): void {
    this._renderer.setProperty(this._elementRef.nativeElement, 'value', parseFloat(value));
}

/**
 * Registers a function called when the control value changes.
 *
 * @param fn The callback function
 */

registerOnChange(fn: (_: number|null) => void): void {
    this.onChange = (value) => { fn(value == '' ? null : parseFloat(value)); };
}

/**
 * Registers a function called when the control is touched.
 *
 * @param fn The callback function
 */

registerOnTouched(fn: () => void): void { this.onTouched = fn; }

/**
 * Sets the "disabled" property on the range input element.
 *
 * @param isDisabled The disabled value
 */

setDisabledState(isDisabled: boolean): void {
    this._renderer.setProperty(this._elementRef.nativeElement, 'disabled', isDisabled);
}

/**
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 *
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 */

export const FormErrorExamples = {
  formControlName: `
    <div 
      formGroup="myGroup">
      <input formControlName="firstName">
    </div>

    In your class:

    this.myGroup = new FormGroup({
      firstName: new FormControl()
    });`,

  formGroupName: `
    <div 
      formGroup="myGroup">
       <div formGroupName="person">
          <input formControlName="firstName">
       </div>
    </div>

    In your class:

    this.myGroup = new FormGroup({
      person: new FormControl()
    });`,

  formArrayName: `
    <div 
      formArrayName="cities">
      <div *ngFor="let city of cityArray.controls; index as i">
          <input 
            formControlName="i">
      </div>
    </div>

    In your class:

    this.cityArray = new FormArray([new FormControl('SF')]);
    this.myGroup = new FormGroup({
      cities: this.cityArray
    });`,

  ngModelGroup: `
    <form>
       <div ngModelGroup="person">
          <input 
            [(ngModel)]="person.name"
            name="firstName">
       </div>
    </form>`,

  ngModelWithFormGroup: `
    <div 
      formGroup="myGroup">
       <input formControlName="firstName">
       <input 
            [(ngModel)]="showMoreControls" 
            [ngModelOptions]="{standalone: true}">
    </div>`};

import {FormErrorExamples as Examples} from './error_examples';

export class ReactiveErrors {
  static controlParentException(): void {
    throw new Error(`formControlName must be used with a parent formGroup directive. You'll want to add a formGroup directive and pass it an existing FormGroup instance (you can create one in your class). Example:

    
    new FormGroup(
      Example: 
      
      ${Examples.formControlName}`);

  }

  static groupParentException(): void {
    throw new Error(`formGroupName must be used with a parent formGroup directive. You'll want to add a formGroup directive and pass it an existing FormGroup instance (you can create one in your class). Example:

    
    new FormGroup(
      Example: 
      
      ${Examples.formGroupName}`);

  }

  static arrayParentException(): void {
    throw new Error(`formArrayName must be used with a parent formGroup directive. You'll want to add a formGroup directive and pass it an existing FormGroup instance (you can create one in your class). Example:

    
    new FormGroup(
      Example: 
      
      ${Examples.formArrayName}`);

  }

  static disabledAttrWarning(): void {
    console.warn(`It looks like you're using the disabled attribute with a reactive form directive. We recommend using the disabled attribute with a reactive form directive. If you set disabled to true when you set up this control in your component class, the disabled attribute will actually be set in the DOM for you. We recommend using this approach to avoid 'changed after checked' errors.

    Example: 
    <input formControlName="firstName" disabled="true">
    `);

  static ngModelWarning(directiveName: string):
```
It looks like you're using ngModel on the same form field as ${{directiveName}}. Support for using the ngModel input property and ngModelChange event with ${{directiveName}} reactive form directives has been deprecated in Angular v6 and will be removed in Angular v7. For more information on this, see our API docs here:

https://angular.io/api/forms/${directiveName} = 'formControl' ? 'FormControlDirective' : 'FormControlName' #use-with-ngmodel

Support for using the ngModel input property and ngModelChange event with ${{directiveName}} reactive form directives has been deprecated in Angular v6 and will be removed in Angular v7. For more information on this, see our API docs here:

https://angular.io/api/forms/${directiveName} = 'formControl' ? 'FormControlDirective' : 'FormControlName' #use-with-ngmodel

For more information on this, see our API docs here:

https://angular.io/api/forms/${directiveName} = 'formControl' ? 'FormControlDirective' : 'FormControlName' #use-with-ngmodel

Support for using the ngModel input property and ngModelChange event with ${{directiveName}} reactive form directives has been deprecated in Angular v6 and will be removed in Angular v7. For more information on this, see our API docs here:

https://angular.io/api/forms/${directiveName} = 'formControl' ? 'FormControlDirective' : 'FormControlName' #use-with-ngmodel
provided on the option element.

```typescript
// ** @internal */
_getOptionId(value: any): string|null {
    for (const id of Array.from(this._optionMap.keys())) {
      if (this._compareWith(this._optionMap.get(id), value)) return id;
    }
    return null;
}
```

```typescript
/**
 * @description
 * Marks `option` as dynamic, so Angular can be notified when options change.
 */
@Directive({selector: 'option'})
export class NgSelectOption implements OnDestroy {
  /**
   * ID of the option element
   */
  // TODO(issue/24571): remove '!'.
  id !: string;

  constructor(
      private _element: ElementRef, private _renderer: Renderer2,
      @Optional() @Host() private _select: SelectControlValueAccessor) {
    if (this._select) this.id = this._select._registerOption();
  }

  /**
   * Tracks the value bound to the option element. Unlike the value binding,
   * `ngValue` supports binding to objects.
   */
  @Input('ngValue')
  set ngValue(value: any) {
    if (this._select == null) return;
    this._select._optionMap.set(this.id, value);
    this._setElementValue(_buildValueString(this.id, value));
    this._select.writeValue(this._select.value);
  }

  /**
   * Lifecycle method called before the directive's instance is
   * destroyed. For internal use only.
   */
  ngOnDestroy(): void {
    if (this._select) {
      this._select._optionMap.delete(this.id);
      this._select.writeValue(this._select.value);
    }
  }
}

```

```typescript
/**
 * Marks 'option' as dynamic, so Angular can be notified when options change.
 */
@Directive({selector: 'option'})
export class NgSelectOption implements OnDestroy {
  /**
   * Tracks the value bound to the option element. Unlike the value binding,
   * `ngValue` supports binding to objects.
   */
  @Input('ngValue')
  set ngValue(value: any) {
    if (this._select == null) return;
    this._select._optionMap.set(this.id, value);
    this._setElementValue(_buildValueString(this.id, value));
    this._select.writeValue(this._select.value);
  }

  /**
   * Lifecycle method called before the directive's instance is
   * destroyed. For internal use only.
   */
  ngOnDestroy(): void {
    if (this._select) {
      this._select._optionMap.delete(this.id);
      this._select.writeValue(this._select.value);
    }
  }
}
```

```typescript
/**
 * Uses the 'FormControlDirective', 'FormControlName', and
 * 'NgModel' directives. *
 * @see SelectControlValueAccessor
 * @usageNotes
 * 
 * ### Using a multi-select control
 * 
 * The follow example shows you how to use a multi-select control with a reactive form.
```
```typescript
const countryControl = new FormControl();

<select multiple name="countries" [formControl]="countryControl"></select>

@Input()
set compareWith(fn: (o1: any, o2: any) => boolean) {
  if (typeof fn !== 'function') {
    throw new Error(`compareWith must be a function, but received ${JSON.stringify(fn)}`);
  }
  this._compareWith = fn;
}

private _compareWith: (o1: any, o2: any) => boolean = looseIdentical;

constructor(private _renderer: Renderer2, private _elementRef: ElementRef) {}

writeValue(value: any): void {
  this.value = value;
  let optionSelectedStateSetter: (opt: ɵNgSelectMultipleOption, o: any) => void;
  if (Array.isArray(value)) {
    // convert values to ids
    const ids = value.map((v) => this._getOptionId(v));
    optionSelectedStateSetter = (opt, o) => {
      opt._setSelected(ids.indexOf(o.toString()) > -1);
    };
  } else {
    optionSelectedStateSetter = (opt, o) => {
      opt._setSelected(false);
    };
  }
  this._optionMap.forEach(optionSelectedStateSetter);
}

registerOnChange(fn: (value: any) => any): void {
  this.onChange = (_: any) => {
    const selected: Array<any> = [];
    if (_.hasOwnProperty('selectedOptions')) {
      const options: HTMLCollection = _.selectedOptions;
      for (let i = 0; i < options.length; i++) {
        const opt: any = options.item(i);
        const val: any = this._getOptionValue(opt.value);
        selected.push(val);
      }
    } else {
      const options: HTMLCollection = <HTMLCollection>_.options;
      for (let i = 0; i < options.length; i++) {
        const opt: HTMLOption = options.item(i);
        if (opt.selected) {
          const val: any = this._getOptionValue(opt.value);
          selected.push(val);
        }
      }
    }
    this.value = selected;
    fn(selected);
  };
}

registerOnTouched(fn: () => any): void {
  this.onTouched = fn;
}

setDisabledState(isDisabled: boolean): void {
  this._renderer.setProperty(this._elementRef.nativeElement, 'disabled', isDisabled);
}

_getOptionValue(value: string) {
  return this._optionMap.get(value);
}

getSelectedOptions() {
  return this._optionMap.keys();
}

selectOption(value: any) {
  this._optionMap.set(value, this._getOptionId(value));
}

getOptionId(value: any) {
  return this._optionMap.get(value)!.id;
}

getSelected() {
  return this._optionMap.keys();
}

getOptionValue(id: string) {
  return this._optionMap.get(id)!.value;
}
```

### Customizing option selection

To customize the default option comparison algorithm, the `select` supports the `compareWith` input. See the `SelectControlValueAccessor` for usage.

```typescript
@Input()
set compareWith(fn: (o1: any, o2: any) => boolean) {
  if (typeof fn !== 'function') {
    throw new Error(`compareWith must be a function, but received ${JSON.stringify(fn)}`);
  }
  this._compareWith = fn;
}
```

The registered callback function called when a change event occurs on the input element.

```typescript
onChange(_: any) => {};
```

The registered callback function called when a blur event occurs on the input element.

```typescript
onTouched() => {};
```

### Customizing option selection

To customize the default option comparison algorithm, `<select>` supports the `compareWith` input. See the `SelectControlValueAccessor` for usage.

```typescript
@Input()
set compareWith(fn: (o1: any, o2: any) => boolean) {
  if (typeof fn !== 'function') {
    throw new Error(`compareWith must be a function, but received ${JSON.stringify(fn)}`);
  }
  this._compareWith = fn;
}
```

The registered callback function called when a change event occurs on the input element.

```typescript
onChange(_: any) => {};
```

The registered callback function called when a blur event occurs on the input element.

```typescript
onTouched() => {};
```

### Customizing option selection

To customize the default option comparison algorithm, `<select>` supports the `compareWith` input. See the `SelectControlValueAccessor` for usage.

```typescript
@Input()
set compareWith(fn: (o1: any, o2: any) => boolean) {
  if (typeof fn !== 'function') {
    throw new Error(`compareWith must be a function, but received ${JSON.stringify(fn)}`);
  }
  this._compareWith = fn;
}
```

The registered callback function called when a change event occurs on the input element.

```typescript
onChange(_: any) => {};
```

The registered callback function called when a blur event occurs on the input element.

```typescript
onTouched() => {};
```
dir._rawValidators.forEach((validator: any) => {
  if (validator.registerOnValidatorChange)
  {
    if (validator.registerOnValidatorChange(null))
      dir._rawAsyncValidators.forEach((validator: any) => {
      if (validator.registerOnValidatorChange) {

    return;
  }

  if (control._clearChangeFns());

  dir._rawValidators.forEach((validator: any) => {
    if (validator.registerOnValidatorChange) {
      validator.registerOnValidatorChange(null);
    }
  });

  dir._rawAsyncValidators.forEach((validator: any) => {
    if (validator.registerOnValidatorChange) {
      validator.registerOnValidatorChange(null);
    }
  });

  if (control) control._clearChangeFns();
}

function setUpViewChangePipeline(control: FormControl, dir: NgControl): void {
  dir.valueAccessor!.registerOnChange((newValue: any) => {
    if (control.updateOn === 'change')
      updateControl(control, dir);
  });

  if (control) control._clearChangeFns();
}

function setUpBlurPipeline(control: FormControl, dir: NgControl): void {
  dir.valueAccessor!.registerOnTouched(() => {
    control._pendingTouched = true;
    if (control.updateOn === 'blur' &
      & control._pendingChange)
      updateControl(control, dir);
  });

  if (control) control._clearChangeFns();
}

function updateControl(control: FormControl, dir: NgControl): void {
  if (control._pendingDirty)
    control.markAsDirty();
  control.setValue(control._pendingValue,
  {emitModelToViewChange: false});

  dir.viewToModelUpdate(control._pendingValue);

  control._pendingChange = false;
}

function setUpModelChangePipeline(control: FormControl, dir: NgControl): void {
  control.validator = Validators.compose(
  [control.validator, dir.validator]);

  control.asyncValidator = Validators.composeAsync(
  [control.asyncValidator, dir.asyncValidator]);

  if (control) control._clearChangeFns();
}

export function composeValidators(validators: Array<Validator|ValidatorFn>): ValidatorFn | null {
  return validators != null ?
    Validators.compose(validators.map(normalizeValidator)) : null;
}

export function composeAsyncValidators(validators: Array<AsyncValidator|AsyncValidatorFn>):
    AsyncValidatorFn | null {
  return validators != null ?
    Validators.composeAsync(validators.map(normalizeAsyncValidator)) : null;
}

export function isPropertyUpdated(changes: {[key: string]: any}, viewModel: any): boolean {
  if (!changes.hasOwnProperty('model')) return false;
  const change = changes['model'];

  if (change.isFirstChange()) return true;
  return !looseIdentical(viewModel, change.currentValue);
}

const BUILTIN_ACCESSORS = [
  CheckboxControlValueAccessor,
  RangeValueAccessor,
  NumberValueAccessor,
  SelectControlValueAccessor,
  SelectMultipleControlValueAccessor,
  RadioControlValueAccessor,
];

export function isBuiltInAccessor(valueAccessor: ControlValueAccessor): boolean {
  return BUILTIN_ACCESSORS.some(a => valueAccessor.constructor === a);
}

export function syncPendingControls(form: FormGroup, directives: NgControl[]): void {
  form._syncPendingControls();

  directives.forEach(dir => {
    const control = dir.control as FormControl;
    if (control.updateOn === 'submit' &
      & control._pendingChange)
      dir.viewToModelUpdate(control._pendingValue);

  control._pendingChange = false;
}
}

https://github.com/angular/angular/issues/3011 is implemented
export function selectValueAccessor(
    dir: NgControl, valueAccessors: ControlValueAccessor[]): ControlValueAccessor | null {
  if (!valueAccessors) return null;

  if (!Array.isArray(valueAccessors))
    _throwError(dir, 'Value accessor was not provided as an array for '
    + 'form control with');

  let defaultAccessor = controlDefaultValueAccessor();

  let builtinAccessor = undefined;
  let customAccessor = undefined;

  valueAccessors.forEach((v: ControlValueAccessor) => {
    if (v.constructor ===
      DefaultValueAccessor) {
      defaultAccessor = v;
    } else if (isBuiltInAccessor(v)) {
      if (builtinAccessor)
        _throwError(dir, 'More than one built-in value accessor matches form control with');

      builtinAccessor = v;
    } else {
      if (customAccessor)
        _throwError(dir, 'More than one custom value
accessor matches form control with');
      customAccessor = v;
    }
  });

  if (customAccessor) return customAccessor;
  if (builtinAccessor) return builtinAccessor;
  if (defaultAccessor) return defaultAccessor;

  _throwError(dir, 'No valid value accessor for form control with');
  return null;
}

// TODO(kara): remove after deprecation period
export function removeDir<T>(list: T[], el: T): void {
  const index = list.indexOf(el);
  if (index > -1) list.splice(index, 1);
}

export function _ngModelWarning(
    name: string,
    type: {_ngModelWarningSentOnce: boolean},
    instance: {_ngModelWarningSent: boolean}, warningConfig: string | null) {
  if (!isDevMode() || warningConfig === 'never') return;

  if (((warningConfig === null || warningConfig === 'once') &&
      !type._ngModelWarningSentOnce) ||
      (warningConfig === 'always' && !instance._ngModelWarningSent)) {
    ReactiveErrors.ngModelWarning(name);
    type._ngModelWarningSentOnce = true;
    instance._ngModelWarningSent = true;
  }
}

/**
 * @license
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 *
 * Use of this source code is governed by an MIT-style license that
 * can be found in the LICENSE file at https://angular.io/license
 */

import {EventEmitter} from '@angular/core';
import {Observable} from 'rxjs';
import {composeAsyncValidators, composeValidators} from './directives/validators';
import {AsyncValidatorFn, ValidationErrors, ValidatorFn} from './directives/validators';
import {toObservable} from './validators';

/**
 * Reports that a FormControl is valid,
 * meaning that no errors exist in the input value.
 *
 * @see `status`
 */
export const VALID = 'VALID';

/**
 * Reports that a FormControl is invalid, meaning that an error exists in the input value.
 *
 * @see `status`
 */
export const INVALID = 'INVALID';

/**
 * Reports that a FormControl is pending, meaning that async validation is occurring and
 * errors are not yet available for the input value.
 *
 * @see `status`
 * @see `markAsPending`
 */
export const PENDING = 'PENDING';

/**
 * Reports that a FormControl is disabled,
 * meaning that the control is exempt from ancestor calculations of validity or value.
 *
 * @see `markAsDisabled`
 * @see `status`
 */
export const DISABLED = 'DISABLED';

function _find(control: AbstractControl, path: Array<string|number>| string, delimiter: string) {
  if (path == null) return null;

  if (!Array.isArray(path)) {
    path = path.split(delimiter);
  }
  if (Array.isArray(path) && path.length === 0) return null;

  // Not using Array.reduce here due to a Chrome 80 bug
  // https://bugs.chromium.org/p/chromium/issues/detail?id=1049982
  let controlToFind: AbstractControl|null = control;
  path.forEach((name: string | number) => {
    if (controlToFind instanceof FormGroup) {
      controlToFind = controlToFind.controls.hasOwnProperty(name as string) ?
          controlToFind.controls[name] :
          null;
    } else if (controlToFind instanceof FormArray) {
      controlToFind = controlToFind.at(<number>name) || null;
    } else {
      controlToFind = null;
    }
  });
  return controlToFind;
}

function coerceToValidator(
    validatorOrOpts?: ValidatorFn | ValidatorFn[] | AbstractControlOptions | null): ValidatorFn|null {
  const validator =
      (isOptionsObj(validatorOrOpts) ?
       (validatorOrOpts as AbstractControlOptions).validators :
                                       validatorOrOpts) as ValidatorFn |
      ValidatorFn[] | null;

  return Array.isArray(validator) ? composeValidators(validator) : validator ||
      null;
}

function coerceToAsyncValidator(
    asyncValidator?: AsyncValidatorFn | AsyncValidatorFn[] | null,
    validatorOrOpts?: ValidatorFn | ValidatorFn[] | AbstractControlOptions | null): AsyncValidatorFn|null {
  const origAsyncValidator =
      (isOptionsObj(validatorOrOpts) ?
       (validatorOrOpts as AbstractControlOptions).asyncValidators :
                                        asyncValidator) as AsyncValidatorFn |
        AsyncValidatorFn | null;

  return Array.isArray(origAsyncValidator) ?
      composeAsyncValidators(origAsyncValidator) : origAsyncValidator ||
      null;
}

export type FormHooks = 'change' | 'blur' | 'submit';

/**
 * Interface for options provided to an
 * `AbstractControl`.
 *
 * @publicApi
 */
export interface AbstractControlOptions {
  /**
   * @description
   * The list of validators applied to a control.
   */
  validators?: ValidatorFn|ValidatorFn[]|null;
  /**
   * @description
   * The list of async validators applied to control.
   */
  asyncValidators?: AsyncValidatorFn|AsyncValidatorFn[]|null,
  /**
   * @description
   * The event name for control to update upon.
   */
  updateOn?: 'change'|'blur'|'submit'|null;
* A multicasting observable that emits an event every time the value of the control changes, in
  * the UI or programmatically. It also emits an event each time you call enable() or disable() without passing along
  * `emitEvent: false` as a function argument.
  *
  * @ See: AbstractControl.status
  * @ TODO(issue/24571): remove `!'` public readonly
  *
  * `valueChanges`: A multicasting observable that emits an event every time the validation `status` of the control
  * recalculates.

  * `statusChanges`: A multicasting observable that emits an event every time the validation `status` of the control
  * recalculates.

  * `updateOn`: Get the update strategy of the `AbstractControl` (meaning the event on which the control updates itself).

  * `setValidators`: Sets the synchronous validators that are active on this control. Calling this overwrites any existing sync validators.
  * When you add or remove a validator at run time, you must call `updateValueAndValidity()` for the new validation to take effect.

  * `setAsyncValidators`: Sets the async validators that are active on this control. Calling this overwrites any existing async validators.
  * When you add or remove a validator at run time, you must call `updateValueAndValidity()` for the new validation to take effect.

  * `clearValidators`: Empties out the sync validator list.
  * When you add or remove a validator at run time, you must call `updateValueAndValidity()` for the new validation to take effect.

  * `clearAsyncValidators`: Empties out the async validator list.
  * When you add or remove a validator at run time, you must call `updateValueAndValidity()` for the new validation to take effect.

  * `markAsTouched`: Marks the control as `touched`. A control is touched by focus and blur events that do not change the value.
  * When you add or remove a validator at run time, you must call `updateValueAndValidity()` for the new validation to take effect.

  * `markAsUntouched`: Marks the control as `untouched`. When true, mark only this control. When false or not supplied, marks all direct ancestors. Default is false.
  * When you add or remove a validator at run time, you must call `updateValueAndValidity()` for the new validation to take effect.
Configuration options that determine how the control emits events after
  * marking is applied.

  * `onlySelf`:
  * When true, mark only this control. When false or not supplied,
  * marks all direct ancestors. Default is false.

  * markAsPristine(opts: { onlySelf?: boolean } = {}): void
  * Marks the control as `pending`.
  * A control is pending while the control performs async validation.
  * @param opts Configuration options that determine how the control propagates changes and emits events after marking is applied.
  * `onlySelf`:
  * When true, mark only this control. When false or not supplied, marks all direct ancestors. Default is false.

  * markAsPending(opts: { onlySelf?: boolean, emitEvent?: boolean } = {}): void
  * Marks the control as `pending`.
  * A control is pending while the control performs async validation.
  * @param opts Configuration options that determine how the control propagates changes and emits events after marking is applied.
  * `onlySelf`:
  * When true, mark only this control. When false or not supplied, marks all direct ancestors. Default is false.

  * disable(opts: { onlySelf?: boolean, emitEvent?: boolean } = {}): void
  * Disables the control. This means the control is exempt from validation checks and excluded from the aggregate value of any parent. Its status is `DISABLED`.
  * @param opts Configuration options that determine how the control propagates changes and emits events after marking is applied.
  * `onlySelf`:
  * When true, mark only this control. When false or not supplied, marks all direct ancestors. Default is false.

  * enable(opts: { onlySelf?: boolean, emitEvent?: boolean } = {}): void
  * Enables the control. This means the control is included in validation checks and the aggregate value of its parent. Its status recalculates based on its value and its validators.
  * By default, if the control has children, all children are enabled.
  * `disable`: When true, mark only this control. When false or not supplied, marks all direct ancestors. Default is false.

  * updateValue(): undefined
  * Updates the control's value and validity.

  * setParent(parent: FormGroup|FormArray): void
  * Sets the parent of the control.
setValue(value: any, options?: Object): void;

  */

  * Patches the value of the control. Abstract method
  * implemented in sub-classes.

  */

  @override
  abstract patchValue(value: any, options?: Object): void;

  /**
   * Patches the value of the control. Abstract method
   * implemented in sub-classes.
   */

  @override
  abstract reset(value?: any, options?: Object): void;

  /**
   * Recalculates the value and validation status of the control.
   * @param options Configuration options determine how the control
   * propagates changes and emits events after updates and validity checks are applied.
   */

  @param onlySelf: When true, only update this control. When false or not supplied, update all direct ancestors. Default is false.

  @param emitEvent: When true or not supplied (the default), both the 'statusChanges' and 'valueChanges' observables emit events with the latest status and value when the control is updated. When false, no events are emitted.

  @param updateValueAndValidity: Updates the control's value and validity.

  @param opts:
   * `onlySelf`: boolean
   * `emitEvent`: boolean

  /**
   * Updates the value and validity of the control.
   */

  @param opts:
   * `onlySelf`: boolean
   * `emitEvent`: boolean

  /**
   * Resets the control. Abstract method (implemented in sub-classes).
   */

  @param opts:
   * `onlySelf`: boolean
   * `emitEvent`: boolean

  /**
   * Recalculates the value and validation status of the control.
   * @param opts Configuration options determine how the control
   * propagates changes and emits events after updates and validity checks are applied.
   */

  private _setInitialStatus(): void;

  private _runValidator(): ValidationErrors | null;

  private _runAsyncValidator(emitEvent?: boolean): void;

  private _cancelExistingSubscription(): void;

  /**
   * Sets errors on a form control when running validations manually, rather than automatically.
   * @param errors Error data for the control.
   * @param opts Configuration options determine how the control
   * propagates changes and emits events after updates and validity checks are applied.
   */

  get(path: Array<string|number>|string): AbstractControl | null;

  getError(errorCode: string, path?: Array<string|number>|string): any;

  /**
   * Reports error data for the control with the given path.
   * @param path The path to retrieve the error data for.
   * @param errorCode The code of the error to check.
   * @param format The format of the data to return.
   */

  AbstractControl|null { return _find(this, path, '.'); }

  **
  */

  Open Source Used In MSX vBranch Service Pack 3.9.0  3020
with the given path has the error specified.

```typescript
hasError(errorCode: string, path?: Array<string|number>|string): boolean {
    return !!this.getError(errorCode, path);
}
```

### AbstractControl._updateControlsErrors

This method updates the controls' error status.

```typescript
_updateControlsErrors(emitEvent: boolean): void {
    (this as{status: string}).status = this._calculateStatus();
    if (emitEvent) {
        (this.statusChanges as EventEmitter<string>).emit(this.status);
    }
    if (this._parent) {
        this._parent._updateControlsErrors(emitEvent);
    }
}
```

### AbstractControl._updatePristine

This method updates the pristine status of the control.

```typescript
_updatePristine(opts: {onlySelf?: boolean} = {}): void {
    (this as{pristine: boolean}).pristine = !this._anyControlsDirty();
    if (this._parent && !opts.onlySelf) {
        this._parent._updatePristine(opts);
    }
}
```

### AbstractControl._updateTouched

This method updates the touched status of the control.

```typescript
_updateTouched(opts: {onlySelf?: boolean} = {}): void {
    (this as{touched: boolean}).touched = this._anyControlsTouched();
    if (this._parent && !opts.onlySelf) {
        this._parent._updateTouched(opts);
    }
}
```

### AbstractControl._isBoxedValue

This method checks if the control value is boxed.

```typescript
_isBoxedValue(formState: any): boolean {
    return typeof formState === 'object' && formState !== null &&
        Object.keys(formState).length === 2 && 'value' in formState &&
        'disabled' in formState;
}
```

### AbstractControl._registerOnCollectionChange

This method registers an event listener for changes in the collection.

```typescript
_registerOnCollectionChange(fn: () => void): void {
    this._onCollectionChange = fn;
}
```

### AbstractControl._setUpdateStrategy

This method sets the update strategy for the control.

```typescript
_setUpdateStrategy(opts?: ValidatorFn|ValidatorFn[]|AbstractControlOptions|null): void {
    if (opts as AbstractControlOptions).updateOn != null) {
        this._updateOn = (opts as AbstractControlOptions).updateOn !;
    }
}
```
the form control, marking it `pristine` and `untouched`, and setting
the value to null.

* @param formState Resets the control with an initial value.
* @param options Configuration options that determine how the control propagates changes and emits events after the value changes.

* `onlySelf`: When true, each change only affects this control, and not its parent. Default is false.
* `emitEvent`: When true or not supplied (the default), both the `statusChanges` and `valueChanges` observables emit events with the latest status and value when the control is reset.

When false, no events are emitted.

* reset(formState: any = null, options: {onlySelf?: boolean, emitEvent?: boolean} = {}): void

  * this._applyFormState(formState);
  * this.markAsPristine(options);
  * this.markAsUntouched(options);
  * this.setValue(this.value, options);
  * this._pendingChange = false;

* updateOnChange(event: any)

  * @internal
  *
  * Register a listener for change events.
  *
  * @param fn The method that is called when the value changes.

* registerOnChange(fn: Function): void

  * @internal
  *
  */
  registerOnDisabledChange(fn: (isDisabled: boolean) => void): void

  * @internal
  *
  */
  _forEachChild(cb: Function): void

* _clearChangeFns(): void

  * @internal
  *
  */
  _syncPendingControls(): boolean

  * @internal
  *
  const form = new FormGroup({
    first: new FormControl('Nancy', Validators.minLength(2)),
    last: new FormControl('Drew'),
  });

  console.log(form.value);  // {first: 'Nancy', last; 'Drew'}

  console.log(form.status);  // 'VALID'

* function passwordMatchValidator(g: FormGroup) {
  return g.get('password').value ===
    g.get('passwordConfirm').value
    ? null : {'mismatch': true};
}

* You include group-level validators as the second arg, or group-level async validators as the third arg. These come in handy when you want to perform validation that considers the value of more than one child control.

* You can use group-level validators to validate the second arg, or group-level async validators as the third arg. These come in handy when you want to perform validation that considers the value of more than one child control.
controls A collection of child controls. The key for each child is the name in * under which it is registered. * @param validatorOrOpts A synchronous validator function, or an array of * such functions, or an * `AbstractControlOptions` object that contains validation functions * and a validation trigger. * @param asyncValidator A single async validator or array of async validator functions * constructor(* public controls: {{key: string}, AbstractControl}[] validatorOrOpts?:

AsycValidatorFn|AsyncValidatorFn[]|AbstractControlOptions|null
asyncValidator?:

AsyncValidatorFn|AsyncValidatorFn[]|null

```js
super(validatorToAsyncValidator(validatorOrOpts));
```

```
```

this._setUpControls();
this.updateValueAndValidity({onlySelf: true, emitEvent: false});
```

```
```

* * * * Registers a control with the group’s list of controls. * * * * This method does not update the value or validity of the control. * * * Use `@link FormGroup#addControl addControl` instead. * * * @param name The control name to register in the collection * @param control Provides the control for the given name * * * * addControl(name: string, control: AbstractControl): AbstractControl {

```js
if (this.controls[name]) return this.controls[name];
```

```
```

this.controls[name] = control;
```

```
```

control.setParent(this);
```

```
```

control._registerOnCollectionChange(this._onCollectionChange);
```

```
```

return control;
```

```
```

* * * * @param name The control name to add to the collection * * * * @param control Provides the control for the given name * * * * addControl(name: string, control: AbstractControl): void {

```js
if (this.controls[name]) return this.controls[name];
```

```
```

this.controls[name] = control;
```

```
```

this.updateValueAndValidity();
```

```
```

this._onCollectionChange();
```

```
```

* * * * @param name The control name to remove from the collection * * * * @param control Provides the control for the group * * * * removeControl(name: string): void {

```js
if (this.controls[name]) this.controls[name]._registerOnCollectionChange(() => {});
```

```
```

delete (this.controls[name]);
```

```
```

this.updateValueAndValidity();
```

```
```

this._onCollectionChange();
```

```
```

* * * * @param name The control name to replace in the collection * * * * @param control Provides the control for the given name * * * * setControl(name: string, control: AbstractControl): void {

```js
if (this.controls[name]) this.controls[name]._registerOnCollectionChange(() => {});
```

```
```

delete (this.controls[name]);
```

```
```

if (control) this.registerControl(name, control);
```

```
```

this.updateValueAndValidity();
```

```
```

this._onCollectionChange();
```

```
```

* * * * Set the value of the `FormGroup`. It accepts an object that matches * * * * the structure of the group, with control names as keys. * * * * @usageNotes

```js
Set the complete value for the form group
```

```
```

```js
new FormGroup({
```

```js
{ first: new FormControl(),
```

```js
{ last: new FormControl() });
```

```
```

* * * * const form = new FormGroup({
```

```js
new FormControl(),
```

```js
last: new FormControl() });
```

```
```

* * * * console.log(form.value);
```

```
```

* first: 'Nancy',
```

```
```

* last: 'Drew' });
```

```
```

* console.log(form.value);
```

```
```

* first: 'Nancy',
```

```
```

* last: 'Drew' });
```

```
```

* * * * @throws When strict checks fail, such as setting the value of a control * * * * that doesn’t exist or if you exclude a value of a control that does exist,
```

```
```

* * * * @param value The new value for the control that matches the structure of the group.
```

```
```

* * * * @param options Configuration options that determine how the control propagates changes * * * * and emits events after the value changes.
```

```
```

* * * * @param validatorOrOpts A synchronous validator function, or an array of * * * * such functions, or an * `AbstractControlOptions` object that contains validation functions * and a validation trigger. 

```js
*super(validatorToAsyncValidator(validatorOrOpts));
```

```
```

this._setUpControls();
```

```
```

this.updateValueAndValidity();
```

```
```

this._onCollectionChange();
```

```
```

* * * * @throws When strict checks fail, such as setting the value of a control * * * * that doesn’t exist or if you exclude a value of a control that does exist,
```

```
```

* * * * @param onlySelf: When true, each change only affects this control, and not * its parent. Default is true. * * * * `updateValueAndValidity` method.

```js
* * * * onlySelf: When true, each change only affects this control, and not * its parent. Default is true.
```

```
```

```js
options: {onlySelf?: boolean, emitEvent?: boolean} = {};
```

```
```

void (this._checkAllValuesPresent(value);
```

```
```

Object.keys(value).forEach(name => {
```

```
```

this.controls[name].setValue(value[name], {onlySelf: true, emitEvent: options.emitEvent});
```

```
```

this.updateValueAndValidity(options);
```

```
```

* * * * Patches the value of the `FormGroup`. It accepts an object
```
function (any, k: string) => void): void {
    Object.keys(this.controls).forEach(k => cb(this.controls[k]));
}

/**
 * @internal
 */
_privateSetControls(): void {
    Object.keys(this.controls).forEach(k => {
        this._checkAllValuesPresent(k); cb(this.controls[k], k);
    });
}

/**
 * @internal
 */
_privateUpdateValue(): void {
    Object.keys(this.controls).forEach(k => {
        this._checkAllValuesPresent(k); cb(this.controls[k], k);
    });
}

/**
 * @internal
 */
_privateAnyControls(condition: Function): boolean {
    let res = false;
    Object.keys(this.controls).forEach(k => {
        res = res || (this.contains(k) && condition(this.controls[k]));
    });
    return res;
}

/**
 * @internal
 */
_reduceValue(): any {
    return this._reduceChildren({}, (acc: {[k: string]: AbstractControl},
        control: AbstractControl, name: string) => {
        if (control.enabled || this.disabled) {
            acc[name] = control.value;
        }
        return acc;
    });
}

/**
 * @internal
 */
_reduceChildren(initValue: any, fn: Function): any {
    let res = initValue;
    Object.keys(this.controls).forEach(k => {
        res = fn(res, this.controls[k], k);
    });
    return res;
}

/**
 * @internal
 */
_allControlsDisabled(): boolean {
    for (const controlName of Object.keys(this.controls)) {
        if (this.controls[controlName].enabled) {
            return false;
        }
    }
    return Object.keys(this.controls).length > 0 || this.disabled;
}

/**
 * Tracks the value and validity state of an array of `FormControl`, `FormGroup` or `FormArray` instances. `FormArray` aggregates the values of each child `FormControl` into an array. It calculates its status by reducing the status values of its children. For example, if one of the controls in a `FormArray` is invalid, the entire array becomes invalid.
 * `FormArray` is one of the three fundamental building blocks used to define forms in Angular, along with `FormControl` and `FormGroup`.
 * `FormArray` extends AbstractControl with the following methods:
 * ```
 * const arr = new FormArray([new FormControl('John'), new FormControl('Drew')]);
 * ```
 * @publicApi
 */
export class FormArray extends AbstractControl {
    /**
     * Creates a new `FormArray` instance.
     *
     * @param controls An array of child controls. Each child control is given an index
     * where it is registered.
     *
     * @param validatorOrOpts A synchronous validator function, or an array of such functions, or an `AbstractControlOptions` object that contains validation functions*
     * and a validation trigger.
     *
     * @param asyncValidator A single async validator or array of async validator functions
     * and a validation trigger.
     */
    constructor(
        public controls: AbstractControl[],
        validatorOrOpts?: ValidatorFn|ValidatorFn[],
        asyncValidator?: AsyncValidatorFn|AsyncValidatorFn[])
    }

    /**
     * Insert a new `AbstractControl` at the end of
the array.

*param control Form control to be inserted
*push(control: AbstractControl): void

this.controls.push(control);
this._registerControl(control);
this.updateValueAndValidity();
this._onCollectionChange();

/**
 * Insert a new `AbstractControl` at the given `index` in the array.

*param index Index in the array to insert the control
*param control Form control to be inserted

insert(index: number, control: AbstractControl): void
this.controls.splice(index, 0, control);

this._registerControl(control);
this.updateValueAndValidity();
this._onCollectionChange();

/**
 * Insert a new `AbstractControl` at the given `index` in the array.

*param index Index in the array to insert the control

insert(index: number, control: AbstractControl): void
this.controls.splice(index, 0, control);

this._registerControl(control);
this.updateValueAndValidity();
this._onCollectionChange();

/**
 * Remove the control at the given `index` in the array.

*param index Index in the array to remove the control
*removeAt(index: number): void
if (this.controls[index]) this.controls[index]._registerOnCollectionChange(() => {});
this.controls.splice(index, 1);
this.updateValueAndValidity();
this._onCollectionChange();

/**
 * Replace an existing control.

*param index Index in the array to replace the control
*param control The `AbstractControl` control to replace the existing control

setControl(index: number, control: AbstractControl): void
if (this.controls[index]) this.controls[index]._registerOnCollectionChange(() => {});
this.controls.splice(index, 1);
if (control) {
this.controls.splice(index, 0, control);
this._registerControl(control);
}
this.updateValueAndValidity();
this._onCollectionChange();

/**
 * Length of the control array.

get length(): number { return this.controls.length; }

/**
 * Sets the value of the `FormArray`. It accepts
an array that matches the structure of the control.
This method performs strict checks, and throws an error if you try to set the value of a control that doesn't exist or if you exclude the value of a control.

setValue(value: any[], options: {onlySelf?: boolean, emitEvent?: boolean} = {}): void
this._checkAllValuesPresent(value);
value.forEach((newValue: any, index: number) => {
this._throwIfControlMissing(index);
this.at(index).setValue(newValue, {onlySelf: true, emitEvent: options.emitEvent});
});
this.updateValueAndValidity(options);
this._onCollectionChange();

/**
 * Patches the value of the `FormArray`. It accepts an array that matches to the correct structure of the control, and does its best to match the values to the correct controls in the group.

patchValue(value: any[], options: {onlySelf?: boolean, emitEvent?: boolean} = {}): void
value.forEach((newValue: any, index: number) => {
this.at(index).patchValue(newValue, {onlySelf: true, emitEvent: options.emitEvent});
});
this.updateValueAndValidity(options);
this._onCollectionChange();

/**
 * Resets the `FormArray` and all descendants are marked `pristine` and `untouched`, and the value of all descendants to null or null maps.

reset(): void

*stone* onlySelf*: When true, each change only affects this control, and not its parent. Default: false.

*emitEvent*: When true or not supplied (the default), both the `statusChanges` and `valueChanges` observables emit events with the latest status and value when the control value is updated.

*The configuration options are passed to the `AbstractControl#updateValueAndValidity` method.

*updateValueAndValidity* method.

*set value(value: any[], options: {onlySelf?: boolean, emitEvent?: boolean} = {}): void

*value* forEach((newValue: any, index: number) => {
this._throwIfControlMissing(index);
this.at(index).setValue(newValue, {onlySelf: true, emitEvent: options.emitEvent});
});
this.updateValueAndValidity(options);
this._onCollectionChange();

*param value Array of latest values for the controls
*param options Configure options that determine how the control propagates changes and emits events after the value changes

*onlySelf*: When true, each change only affects this control, and not its parent. Default: false.

*emitEvent*: When true or not supplied (the default), both the `statusChanges` and `valueChanges` observables emit events with the latest status and value when the control value is updated.

*When false, no events are emitted.*

*The configuration options are passed to the `AbstractControlImpl#updateValueAndValidity` method.*
status.

### Reset the values in a form array

```ts
const arr = new FormArray(
  [new FormControl(), new FormControl()]);
arr.reset();
```

### Remove all elements from a FormArray

```ts
arr.clear();
```

The aggregate value of the array, including any disabled controls.

Reports all values regardless of disabled status.

For enabled controls only, the `value` property is the best way to get the value of the array.

The configuration options are passed to the `FormArray.updateValueAndValidity` method.

```ts
reset(value: any = [], options: {onlySelf?: boolean, emitEvent?: boolean} = {}): void
```
import {AbstractControl, FormControl, FormGroup, FormHooks} from './model';
import {NG_ASYNC_VALIDATORS, NG_VALIDATORS} from './validators';
import {ControlContainer} from './control_container';
import {Form} from './form_interface';
import {NgControl} from './ng_control';
import {NgModel} from './ng_model';
import {NgModelGroup} from './ng_model_group';
import {composeAsyncValidators, composeValidators, removeDir, setUpControl, setUpFormContainer, syncPendingControls} from './shared';

export const formDirectiveProvider: any = {
  provide: ControlContainer,
  useExisting: forwardRef(() => NgForm)
};

const resolvedPromise = (() => Promise.resolve(null))();

/**
 * @description
 * Creates a top-level `FormGroup` instance and binds it to a form
 * to track aggregate form value and validation status.
 * As soon as you import the `FormsModule`, this directive becomes active by default on
 * all `<form>` tags. You don't need to add a special selector.
 *
 * You optionally export the directive into a local template variable using `ngForm` as the key
 * (ex: `#myForm="ngForm\"`). This is optional, but useful. Many properties from the underlying
 * `FormGroup` instance are duplicated on the directive itself, so a reference to it
 * gives you access to the aggregate value and validity status of the form, as well as
 * user interaction properties like `dirty` and `touched`.
 *
 * To register child controls with the form, use `NgModel` with a `name` attribute. You may use `NgModelGroup` to create
 * sub-groups within the form.
 *
 * In template driven forms, all `<form>` tags are automatically tagged as `NgForm`.
 * To import the `FormsModule` but skip its usage in some forms,
 * for example, to use native HTML5 validation, add the `ngNoForm` attribute.
 *
 * @usageNotes
 *
 * ### Listening for form submission
 *
 * The following example shows how to capture the form values from the `ngSubmit` event.
 *
 * ```html
 * <form (ngSubmit)="eventSource\" #myForm="ngForm\"> Copy this attribute to your
 * form tags to enable the `ngSubmit` event.
 * ```
 *
 * ### Setting the update options
 *
 * The following example shows you how to change the `updateOn` option from its default using
 *
 * ```html
 * <form [ngFormOptions]="{updateOn: 'blur'}">
 *   ...
 * </form>
 * ```
 *
 * @ngModule FormsModule
 */
@Directive({
  selector: 'form:not([ngNoForm]):not([formGroup]),ng-form,[ngForm]',
  providers: [formDirectiveProvider],
  host: {'(submit)': 'onSubmit($event)', '(reset)': 'onReset()'},
  outputs:['ngSubmit'],
  exportAs: 'ngForm'
})
export class NgForm extends ControlContainer implements Form,
AfterViewInit {
  /**
   * @description
   * Returns whether the form submission has been triggered.
   */
  public readonly submitted: boolean = false;

  private _directives: NgModel[] = [];

  /**
   * @description
   * The `FormGroup` instance created for this form.
   */
  form: FormGroup;

  /**
   * @description
   * Event emitter for the "ngSubmit" event
   */
  ngSubmit = new EventEmitter();

  /**
   * @description
   * The internal `FormGroup` instance.
   */
  get control(): FormGroup { return this.form; }

  constructor(
      @Optional() @Self() @Inject(NG_VALIDATORS) validators: any[],
      @Optional() @Self() @Inject(NG_ASYNC_VALIDATORS) asyncValidators: any[],
      @Inject(NgModelGroup) formGroup: NgModelGroup,
      @Optional() @Self() @Inject(NG_VALIDATORS) validators: any[],
      @Optional() @Self() @Inject(NG_ASYNC_VALIDATORS) asyncValidators: any[],
      @Optional() @Self() @Inject(NG_VALIDATORS) validators: any[],
      @Optional() @Self() @Inject(NG_ASYNC_VALIDATORS) asyncValidators: any[],
      @Optional() @Self() @Inject(NG_VALIDATORS) validators: any[])
  {
      this.form = new FormGroup({});
  }

  /**
   * @description
   * The directive instance.
   */
  get formDirective(): Form { return this; }

  /**
   * @description
   * The internal `FormGroup` instance.
   */
  get formGroup(): FormGroup { return this.form; }

  /**
   * @description
   * Lifecycle method called after the view is initialized. For internal use only.
   */
  ngAfterViewInit() {
      // TODO(issue/24571): remove '!
      @Input(NgFormOptions) options: {}
      @Optional() @Self()
      @Inject(NG_VALIDATORS) validators: any[],
      @Optional() @Self() @Inject(NG_ASYNC_VALIDATORS) asyncValidators: any[],
      @Optional() @Self() @Inject(NG_VALIDATORS) validators: any[],
      @Optional() @Self() @Inject(NG_ASYNC_VALIDATORS) asyncValidators: any[],
      @Optional() @Self() @Inject(NG_VALIDATORS) validators: any[],
      @Optional() @Self() @Inject(NG_ASYNC_VALIDATORS) asyncValidators: any[],
      @Optional() @Self() @Inject(NG_VALIDATORS) validators: any[]).constructor()
  }

  // TODO(issue/24571): remove '!

/**
 * @description
 * Returns an array representing the path to this group. Because this directive
 * always lives at the top level of a form, it is always an empty array.
 */
 @get path(): string[] { return []; }

 /**
 * @description
 * Retrieves the `FormControl` instance from the provided `NgModel` directive.
 */
 @param dir The `NgModel` directive instance.
 @returns
 * @param dir The `NgModel` directive instance.
 */
 addFormGroup(dir: NgModelGroup): void {

 };

 /**
 * @description
 * Removes the `NgModel` instance from the internal list of directives.
 */
 @removeControl(dir: NgModel): void {

 };

 /**
 * @description
 * Removes the `FormGroup` instance from the provided `NgModelGroup` directive.
 */
 @removeFormGroup(dir: NgModelGroup): void {

 };

 /**
 * @description
 * Retrieves the `FormGroup` for a provided `NgModelGroup` directive instance.
 */
 @getFormGroup(dir: NgModelGroup): FormGroup {

 };

 /**
 * @description
 * Updates the `FormGroup` with a new value.
 */
 @setValue(value: {
 * @key: any
 * @value: any
 * @param value The new value for the `FormGroup`.
 */
 setForm(value: {
 * @key: any
 * @value: any
 * @param value The new value for the `FormGroup`.
 */
 updateForm(): void {

 };

 /**
 * @description
 * Method called when the `submit` event is triggered on the form.
 */
 @submit(event: Event): boolean {

 };

 /**
 * @description
 * Method called when the `reset` event is triggered on the form.
 */
 @reset(): void {

 };

 /**
 * @description
 * Update a control's value.
 */
 @updateControl(dir: NgControl, value: any): void {

 };

 /**
 * @description
 * Adds a new `NgModelGroup` directive to the form.
 */
 @addFormGroup(dir: NgModelGroup): void {

 };

 /**
 * @description
 * Removes a group from the form.
 */
 @removeFormGroup(dir: NgModelGroup): void {

 };

 /**
 * @description
 * Removes a control from the form.
 */
 @removeControl(dir: NgControl): void {

 };

 /**
 * @description
 * Reset a form to its initial value.
 */
 @resetForm(value: any = undefined): void {

 };

 /**
 * @description
 * Use this source code is governed by an MIT-style license that can be found in
 * the LICENSE file at https://angular.io/license
 */

 Open Source Used In MSX vBranch Service Pack 3.9.0 3030
AbstractFormGroupDirective extends ControlContainer implements OnInit, OnDestroy {
  /**
   * The parent control for the group
   * @description
   * An array of synchronous validators for the group
   * @description
   * An array of async validators for the group
   * @description
   * @internal
   */
  _parent !: ControlContainer;

  /**
   * An array of synchronous validators for the group
   * @description
   * The 'FormGroup' bound to this directive
   * @internal
   */
  _validators !: any[];

  /**
   * An array of async validators for the group
   * @description
   * The async validators registered with this group
   * @internal
   */
  _asyncValidators !: any[];

  ngOnInit(): void {
    this._checkParentType();
    this.formDirective !.addFormGroup(this);
  }

  ngOnDestroy(): void {
    if (this.formDirective) {
      this.formDirective.removeFormGroup(this);
    }
  }

  get control(): FormGroup {
    return this.formDirective !.getFormGroup(this);
  }

  get path(): string[] {
    return controlPath(this.name == null ? this.name.toString() : this.name, this._parent);
  }

  get formDirective(): Form|null { return this._parent ? this._parent.formDirective : null; }

  _checkParentType(): void {}
}

---

import {FormErrorExamples as Examples} from './error_examples';

export class TemplateDrivenErrors {
  static modelParentException(): void {
    throw new Error(`
      ngModel cannot be used to register form controls with a parent formGroup directive.  Try using
      formGroup's partner directive "formControlName" instead.
      Example:

      ${Examples.formControlName}

      Or, if you'd like to avoid registering this form control,
      indicate that it's standalone in ngModelOptions:

      Example:

      ${Examples.ngModelWithFormGroup}`);
  }

  static formGroupNameException(): void {
    throw new
    Error(`
      ngModel cannot be used to register form controls with a parent formGroupName or formArrayName
      directive.

      Option 1: Use formControlName instead of ngModel (reactive strategy):

      ${Examples.formGroupName}

      Option 2:  Use a regular form tag instead of the formGroup
      directive (template-driven strategy):

      ${Examples.ngModelGroup}`);
  }

  static missingNameException() {
    throw new Error(
      `If ngModel is used within a form tag, either the name attribute must be set or the form
      control must be
defined as 'standalone' in ngModelOptions.

      Example 1: <input [(ngModel)]="person.firstName" name="first">
      Example 2: <input [(ngModel)]="person.firstName" [ngModelOptions]="{standalone: true}"/>
    `);
  }

  static modelGroupParentException() {
    throw new Error(`
      ngModelGroup cannot be
      used with a parent formGroup directive.

      Option 1: Use formGroupName instead of ngModelGroup (reactive strategy):

      ${Examples.formGroupName}

      Option 2:  Use a regular form tag instead of the formGroup
directive (template-driven strategy):

      ${Examples.ngModelGroup}`);
  }
}

---

/**
 * @description
 * Creates and binds a `FormGroup`
instance to a DOM element.
 *
 * This directive can only be used as a child of `NgForm` (within `<form>` tags).

 * Use this directive to validate a sub-group of your form separately from the
rest of your form, or if some
values in your domain model make more sense to consume together in a nested object.
* Provide a name for the sub-group and it will become the key for the sub-group in the form's full value. If you need direct access, export the directive into a local template variable using `ngModelGroup` (ex: `"#myGroup="ngModelGroup(")"`).

The following example shows you how to combine controls together in a sub-group of the form:

```typescript
@Directive({selector: '[ngModelGroup]', providers: [modelGroupProvider], exportAs: 'ngModelGroup'])
export class NgModelGroup extends AbstractFormGroupDirective implements OnInit, OnDestroy {

  /**
   * @description
   * Tracks the name of the `NgModelGroup` bound to the directive. The name corresponds to a key in the parent `NgForm`. Use this for output binding to the form.
   */
  name: string;

  constructor(
      @Host() @SkipSelf() parent: ControlContainer,
      @Optional() @Self() @Inject(NG_VALIDATORS) validators: any[],
      @Optional() @Self() @Inject(NG_ASYNC_VALIDATORS) asyncValidators: any[])
  {
    super();
    this._parent = parent;
    this._validators = validators;
    this._asyncValidators = asyncValidators;
  }

  /** @internal */
  _checkParentType(): void {
    if (!(this._parent instanceof NgModelGroup) && !(this._parent instanceof NgForm)) {
      TemplateDrivenErrors.modelGroupParentException();
    }
  }
}
```

### Consuming controls in a grouping

The following example shows you how to combine controls together in a sub-group of the form:

```typescript
$templateDrivenErrors/ng_model_group_example.ts

@Directive({selector: '[ngModelGroup]'},
  // you can also use `@Directive()`
  providers: [modelGroupProvider],
  exportAs: 'ngModelGroup')
export class NgModelGroup extends AbstractFormGroupDirective implements OnInit, OnDestroy {

  /**
   * @description
   * Tracks the name of the `NgModelGroup` bound to the directive. The name corresponds to a key in the parent `NgForm`. Use this for output binding to the form.
   */
  name: string;

  constructor(
      @Host() @SkipSelf() parent: NgModel,
      @Optional() @Self() @Inject(NG_VALIDATORS) validators: any[],
      @Optional() @Self()
      @Inject(NG_ASYNC_VALIDATORS) asyncValidators: any[])
  {
    super();
    this._parent = parent;
    this._validators = validators;
    this._asyncValidators = asyncValidators;
  }

  // this._parent must be a NgModelGroup instance
  ngOnInit(): void {
    if (!(this._parent instanceof NgModelGroup) && !(this._parent instanceof NgForm)) {
      TemplateDrivenErrors.modelGroupParentException();
    }
  }
}
```

Notes:
- This is just one extra run no matter how many `ngModel` have been changed.
- This is a general problem when using `exportAs` for directives!
- `exportAs` can export itself on the element and then be used in the template.
- Normally, this would result in expressions before the `input` that use the exported directive to have and old value as they have been dirty checked before.

As this is a very common case for `ngModel`, we added this second change detection run when its inputs change:

```typescript
<input [(ngModel)]="myValue" #myModel="ngModel">
```

In this case, a `radio` or `select` control can export itself on the element and then be used in the template. Normally, this would result in expressions before the `input` that use the exported directive to have and old value as they have been dirty checked before.

As this is a very common case for `ngModel`, we added this second change detection run when its inputs change:

```typescript
<input [(ngModel)]="myValue" #myModel="ngModel">
```

In this case, a `radio` or `select` control can export itself on the element and then be used in the template. Normally, this would result in expressions before the `input` that use the exported directive to have and old value as they have been dirty checked before.

As this is a very common case for `ngModel`, we added this second change detection run when its inputs change:

```typescript
<input [(ngModel)]="myValue" #myModel="ngModel">
```
Using ngModel on a standalone control

The following examples show a simple standalone control using `ngModel`:

```typescript
<ngModel [ngModelOptions]="{standalone: true}"><form>
  <input name="login" ngModel placeholder="Login" />
  <input type="checkbox" ngModel [ngModelOptions]="{standalone: true}"> Show more options?
</form></ngModel>
```

### Using ngModel within a form

The following example shows controls using `ngModel` within a form:

```typescript
<form>
  <input name="login" ngModel placeholder="Login" />
  <input type="checkbox" ngModel [ngModelOptions]="{standalone: true}"> Show more options?
</form>
```

### Setting the ngModel name attribute through options

The following example shows you an alternate way to set the name attribute. The name attribute is used within a custom form component, and the name field property serves a different purpose.

```typescript
<my-person-control name="Nancy" ngModel [ngModelOptions]="{name: 'user'}">
</my-person-control>
```

@ngModule FormsModule
@publicApi
export class NgModel extends NgControl implements OnChanges, OnDestroy {
  public readonly control: FormControl = new FormControl();

  // At runtime we coerce arbitrary values assigned to the "disabled" input to a "boolean". This is not reflected in the type of the property because outside of templates, consumers should only deal with booleans. In templates, a string is allowed for convenience and to match the native "disabled attribute" semantics which can be observed on input elements. This static member tells the compiler that values of type `string` can also be assigned to the input in a template.
  /** @nodoc */
  static ngAcceptInputType_isDisabled: boolean|string;

  /** @internal */
  _registered = false;

  /**
   * Internal reference to the view model value.
   */
  viewModel: any;

  /**
   * Tracks the name bound to the directive. The parent form uses this name as a key to retrieve this control's value.
   */
  // TODO(issue/24571): remove '!'.
  @Input() name !: string;

  /**
   * Tracks whether the control is disabled.
   */
  // TODO(issue/24571): remove '!'.
  @Input('disabled') isDisabled !: boolean;

  /**
   * Tracks the value bound to this directive.
   */
  @Input('ngModel') model: any;

  /**
   * Tracks the configuration options for this `ngModel` instance.
   *
   * @description
   * An alternative to setting the name attribute on the form control element. See the [example][api/forms/NgModel#using-ngmodel-on-a-standalone-control] for using `NgModel` as a standalone control.
   */
  // TODO(issue/24571): remove '!'.
  @Input('ngModelOptions')
  options !: {name?: string, standalone?: boolean, updateOn?: FormHooks};

  /**
   * Event emitter for producing the `ngModelChange` event after the view model updates.
   */
  @Output('ngModelChange') update = new EventEmitter();

  constructor(@Optional() @Host() parent: ControlContainer,
              @Optional() @Inject(NG_VALIDATORS) validators: Array<Validator|ValidatorFn>, @Optional() @Self() validators: Array<Validator|ValidatorFn>, @Optional() @Self() @Inject(NG_ASYNC_VALIDATORS) asyncValidators: Array<AsyncValidator|AsyncValidatorFn>, @Optional() @Self() @Inject(NG_VALUE_ACCESSOR) valueAccessors: ControlValueAccessor[]) {
    super();
    this._parent = parent;
    this._rawAsyncValidators = asyncValidators || [];
  }
}
`novalidate` is used to disable browser's native form validation.

If you want to use native validation with Angular forms, just add `ngNativeValidate` attribute:

```html
<form [ngNativeValidate]>
</form>
```

If you want to use native validation with Angular forms, just add `ngNativeValidate` attribute:

```html
<form [ngNativeValidate]></form>
```

@Directive({
  selector: 'form:not([ngNoForm]):not([ngNativeValidate])',
  host: {'novalidate': ''}
})
export class NgNoValidate {
}

export {NgNoValidate as NgNoValidate};

/**
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 *
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 */

import {Directive, EventEmitter, Inject, InjectionToken, Input, OnChanges, Optional, Output, Self, SimpleChanges, forwardRef} from '@angular/core';

import {FormControl} from '../../model';
import {NG_ASYNC_VALIDATORS, NG_VALIDATORS} from '../../validators';
import {ControlValueAccessor, NG_VALUE_ACCESSOR} from '../control_value_accessor';
import {NgControl} from '../ng_control';
import {ReactiveErrors} from '../reactive_errors';
import {_ngModelWarning, composeAsyncValidators, composeValidators, isPropertyUpdated, selectValueAccessor, setUpControl} from '../shared';
import {AsyncValidator, AsyncValidatorFn, Validator, ValidatorFn} from '../validators';

/**
 * Token to provide to turn off the ngModel warning on formControl and
 * formControlName.
 */
export const NG_MODEL_WITH_FORM_CONTROL_WARNING = new InjectionToken('NgModelWithFormControlWarning');

export const formControlBinding: any = {
  provide: NgControl,
  useExisting: forwardRef(() => FormControlDirective)
};

/**
 * @description
 * * Syncs a standalone `FormControl` instance to a form control element.
 * 
 * @see 
 * [Reactive Forms Guide](guide/reactive-forms)
 * @see `FormControl`
 * @see `AbstractControl`
 *
 * @usageNotes
 *
 * ### Registering a single form control
 * 
 * The following examples shows how to register a standalone control and set its value.
 *
 *
```html
<input [formControl]="control" [(ngModel)]="value">
```

```ts
this.value = 'some value';
```

This has been deprecated for a few reasons. First, developers have found this pattern confusing. It seems like the actual `ngModel` directive is being used, but in fact it's an input/output property named `ngModel` on the reactive form directive that simply approximates (some of) its behavior. Specifically, it allows getting/seting the value and intercepting value events. However, some of `ngModel`'s other features - like delaying updates with `ngModelOptions` or exporting the directive - simply don't work, which has understandably caused some confusion.

In addition, this pattern mixes template-driven and reactive forms strategies, which we generally don't recommend because it doesn't take advantage of the full benefits of either strategy. Setting the value in the template violates the template-agnostic principles behind reactive forms, whereas adding a `FormControl` / `FormGroup` layer in the class removes the convenience of defining forms in the template.

To update your code before support is removed, you'll want to decide whether to stick with directives (and get/set values using reactive forms patterns) or `*` switch over to template-driven directives.

After (choice 1 - use reactive forms):

```html
<input [formControl]="control">
```

```ts
this.control.setValue('some value');
```

After (choice 2 - use template-driven forms):

```html
<input (ngModel)="value">
```

By default, when you use this pattern, you will see a deprecation warning once in dev mode. You can choose to silence this warning by providing a config for `ReactiveFormsModule` at import time:

```ts
import {ReactiveFormsModule} from '@angular/forms';

@NgModule({
  imports: [ReactiveFormsModule],
  declarations: [MyComponent],
  exports: [MyComponent]
})
```

Alternatively, you can choose to surface a separate warning for each instance of this pattern with a config value of `\`always\`\. This may help to track down where in the code the pattern is being used as the code is being updated.

```ts
import {ReactiveFormsModule} from '@angular/forms';

@NgModule({
  imports: [ReactiveFormsModule],
  declarations: [MyComponent],
  exports: [MyComponent]
})
```

Tracks the `FormControl` instance bound to the directive.

```ts
// TODO(issue/24571): remove `!
```
FormControl

/**
 * @description
 * Triggers a warning that this input should not be used with
 * reactive forms.
 */
@Input('disabled')
set isDisabled(isDisabled: boolean) {
  ReactiveErrors.disabledAttrWarning();
}

/**
 * @description
 * @Input('disabled')
 * Triggers a warning that this input should not be used with
 * reactive forms.
 */
@Input('disabled')
set isDisabled(isDisabled: boolean) {
  ReactiveErrors.disabledAttrWarning();
}

// TODO(kara): remove next 4 properties once deprecation period is
// over
/**
 * @description
 * Instance property used to track whether an ngModel warning has been sent out for this
 * particular `FormControlDirective` instance. Used to support warning config of 'always'
 * config.
 */
@Input('ngModel')
model: any;

/**
 * @description
 * Static property used to
 * track whether any ngModel warnings have been sent across
 * all instances of FormControlDirective. Used to support
 * warning config of 'once'
 */
static _ngModelWarningSentOnce = false;

/**
 * @description
 * Instance property used to track whether an ngModel warning has been sent out for this
 * instance. Used to support warning config of 'always'
 */
static _ngModelWarningSent = false;

constructor(@Optional() @Self() @Inject(NG_VALIDATORS)
validators: Array<Validator|ValidatorFn>,
              @Optional() @Self() @Inject(NG_ASYNC_VALIDATORS)
asyncValidators: Array<AsyncValidator|AsyncValidatorFn>,
              @Optional() @Self()
@Inject(NG_VALUE_ACCESSOR)
valueAccessors: ControlValueAccessor[],
              @Optional()
@Inject(NG_MODEL_WITH_FORM_CONTROL_WARNING) private _ngModelWarningConfig: string|null) {

  super();
  this._rawValidators = validators || [];
  this._rawAsyncValidators =
  asyncValidators || [];
  this.valueAccessor = selectValueAccessor(this, valueAccessors);
}

/**
 * @description
 * A lifecycle method called when the directive's inputs change. For
 * internal use only.
 * @param changes A object of key/value pairs for the set of
 * changed inputs.
 */
ngOnChanges(changes: SimpleChanges): void {
  if (this._isControlChanged(changes)) {
    setUpControl(this.form, this);
    if (this.control.disabled
    && this.valueAccessor!.setDisabledState) {
      this.valueAccessor!.setDisabledState!(true);
    }
    this.form.updateValueAndValidity({emitEvent: false});
  }
  if (isPropertyUpdated(changes, this.viewModel)) {
    _ngModelWarning(
      'formControl',
      FormControlDirective, this, this._ngModelWarningConfig);
    this.form.setValue(this.model);
    this.viewModel = this.model;
  }
}

/**
 * Returns an array that represents the path from the top-level form to this control.
 * Each index is the string
 * name of the control on that level.
 */
get path(): string[] { return [];

/**
 * Synchronous validator function composed of all the synchronous validators
 * registered with this directive.
 */
get validator(): ValidatorFn|null { return
  composeValidators(this._rawValidators);
}

/**
 * Async validator
 * function composed of all the async validators registered with this
 * directive.
 */
get
asyncValidator(): AsyncValidatorFn|null {
  return
  composeAsyncValidators(this._rawAsyncValidators);
}

/**
 * The `FormControl` bound to this directive.
 */
get control(): FormControl {
  return this.form;
}

/**
 * Sets the new value for the view model and emits an
 * ngModelChange event.
 */
viewToModelUpdate(newValue: any): void {
  this.viewModel = newValue;
  this.form��BoundaryChanged(changes: {key: string; any})
  return changes.hasOwnProperty('form')?
  this.viewModel.updateValueAndValidity(newValue: any)

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provide: ControlContainer, useExisting: forwardRef(() => FormGroupDirective),

```typescript
/**
 * @description
 * Binds an existing `FormGroup` to a DOM element.
 * This directive accepts an existing `FormGroup`
 * instance. It will then use this `FormGroup` instance to match any child `FormControl`, `FormGroup`, `FormArray` instances to child `FormControlName`, `FormGroupName` and `FormArrayName` directives.
 */

@Directive(
  { selector: `[formGroup]` },
  providers: [formDirectiveProvider],
  host: { (submit): `onSubmit(Seventy)`, (reset): `onReset()` })
export class FormGroupDirective extends ControlContainer implements Form,
  OnChanges {
  /**
   * @description
   * Reports whether the form submission has been triggered.
   */
  public readonly submitted: boolean = false;

  private _oldForm !: FormGroup;

  /**
   * @description
   * Tracks the list of added `FormControlName` instances
   */
  directives: FormControlName[] = [];

  /**
   * @description
   * Tracks the `FormGroup` bound to this directive.
   */
  @Input('formGroup') form: FormGroup = null !;

  /**
   * @description
   * Emits an event when the form submission has been triggered.
   */
  @Output() ngSubmit = new EventEmitter();

  constructor(
      @Optional() @Self()
      @Inject(NG_VALIDATORS) private _validators: any[],
      @Optional() @Self()
      @Inject(NG_ASYNC_VALIDATORS) private _asyncValidators: any[]) {
    super();
  }

  ngOnChanges(changes: SimpleChanges): void {
    this._checkFormPresent();
    if (changes.hasOwnProperty('form')) {
      this._updateValidators();
      this._updateDomValue();
      this._updateRegistrations();
    }
  }

  get formDirective(): Form { return this; }

  get control(): FormGroup { return this.form; }

  get path(): string[] { return []; }

  addControl(dir: FormControlName): FormControl {
    const ctrl: any = this.form.get(dir.path);
    setUpControl(ctrl, dir);
    ctrl.updateValueAndValidity({emitEvent: false});
    this.directives.push(dir);
    return ctrl;
  }

  getControl(dir: FormControlName): FormControl = <FormControl>this.form.get(dir.path);

  removeControl(dir: FormControlName): void { removeDir<FormControlName>(this.directives, dir); }

  addFormGroup(dir: FormGroupName): void {
    const ctrl: any = this.form.get(dir.path);
    setUpFormContainer(ctrl, dir);
    ctrl.updateValueAndValidity({emitEvent: false});
    this.directives.push(dir);
    return ctrl;
  }

  removeFormGroup(dir: FormGroupName): void {}

  getFormGroup(dir: FormGroupName): FormGroup = <FormGroup>this.form.get(dir.path);

  addFormArray(dir: FormArrayName): void {
    const ctrl: any = this.form.get(dir.path);
    setUpFormContainer(ctrl, dir);
    ctrl.updateValueAndValidity({emitEvent: false});
    this.directives.push(dir);
    return ctrl;
  }

  removeFormArray(dir: FormArrayName): void {}
instance.

/* @description
 * Retrieves the 'FormArray' for a provided 'FormArrayName' directive instance.
 */

getFormArray(dir: FormArrayName): FormArray {
    return <FormArray>this.form.get(dir.path);
}

removeFormArray(dir: FormArrayName): void {
    /* @description
     * Sets the new value for the provided 'FormControlName' directive.
     */
    /* @param dir The 'FormControlName' directive instance.
     * @param value The new value for the directive's control.
     */
    updateModel(dir: FormControlName, value: any): void {
        const ctrl = <FormControl>this.form.get(dir.path);
        ctrl.setValue(value);
    }

    onSubmit($event: Event): boolean {
        this.form._updateTreeValidity({emitEvent: false});
        this.ngSubmit.emit($event);
        return false;
    }

    onReset(): void {
        resetForm();
    }

    resetForm(value: any = undefined): void {
        this.form.reset(value);
        (this as {submitted: boolean}).submitted = false;
    }

    _updateDomValue() {
        this.directives.forEach(dir => {
            const newCtrl: any = this.form.get(dir.path);
            if (dir.control !== newCtrl) {
                cleanUpControl(dir.control, dir);
                if (newCtrl) setUpControl(newCtrl, dir);
                (dir as {control: FormControl}).control = newCtrl;
            }
        });
        this.form._updateTreeValidity({emitEvent: false});
    }

    _updateRegistrations() {
        this.form._registerOnCollectionChange(() => this._updateDomValue());
        if (this._oldForm) this._oldForm._registerOnCollectionChange(() => {});
        this._oldForm = this.form;
    }

    _updateValidators() {
        const sync = composeAsyncValidators(this._asyncValidators);
        this.form.asyncValidator = Validators.composeAsync([this.form.asyncValidator !, sync !]);

        const async = composeAsyncValidators(this._asyncValidators);
        const error = new ReactiveErrors.MissingFormException();
        this.form.asyncValidator = Validators.composeAsync([this.form.asyncValidator !, async !]);
    }

    checkFormPresent() {
        if (!this.form) {
            ReactiveErrors.missingFormException();
        }
    }
}

/**
 * @license
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 *
 * Use of this source code is governed by an MIT-style license that can be found in the LICENSE file at https://angular.io/license
 */

import {Directive, Host, Inject, Input, OnDestroy, OnInit, Optional, Self, SkipSelf, forwardRef} from '@angular/core';

import {FormArray} from '../../model';
import {NG_ASYNC_VALIDATORS, NG_VALIDATORS} from '../../validators';
import {AbstractFormGroupDirective} from '../abstract_form_group_directive';
import {ControlContainer} from '../control_container';
import {ReactiveErrors} from '../reactive_errors';
import {composeAsyncValidators, composeValidators, controlPath} from '../shared';
import {AsyncValidatorFn, ValidatorFn} from '../validators';

import {FormGroupDirective} from './form_group_directive';

export const formGroupNameProvider: any = {
    provide: ControlContainer,
    useExisting: forwardRef(() => FormGroupName)
};

/**
 * @description
 *
 * Syncs a nested 'FormGroup' to a DOM element.
 *
 * This directive can only be used with a parent 'FormGroupDirec

 * tive' and accepts the string name of the nested 'FormGroup' to link, and looks for a
 * 'FormGroup' registered with that name in the parent

 * instance you passed into 'FormGroupDirective'.
 *
 * Use nested form groups to validate a sub-group of a

 * form separately from the rest or to group the values of certain

 * controls into their own nested object.
 *
 * The following example uses the [ @link AbstractControl#get get] method to access the

 * associated 'FormGroup' to a DOM element.
 *
 * This directive can only be used with a parent 'FormGroupDirecti

 * ve'.
 *
 * The following example uses the [ @link AbstractControl#get get] method to access

 * the DOM element.
 *
 * The following example uses the [ @link AbstractControl#get get] method to access

 * the DOM element.
 *
 * The following example uses the [ @link AbstractControl#get get] method to access

 * the DOM element.
 *
 * The following example uses the [ @link AbstractControl#get get] method to access

 * the DOM element.
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 * the DOM element.
 *
 * The following example uses the [ @link AbstractControl#get get] method to access

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 * the DOM element.
 *
 * The following example uses the [ @link AbstractControl#get get] method to access

 * the DOM element.
export class FormGroupName extends AbstractFormGroupDirective implements OnInit, OnDestroy {
    /**
     * @description
     * Tracks the name of the `FormGroup` bound to the directive. The name
     * corresponds to a key in the parent 'FormGroup' or 'FormArray'.
     * Accepts a name as a string or a number.
     * The name in the form of a string is useful for individual forms,
     * while the numerical form allows for form groups to be bound
     * to indices when iterating over groups in a 'FormArray'.
     * @Todo(issue/24571): remove '!'.
     * @Input('formGroupName') name !: string | number | null;

    @Inject(NG_VALIDATORS) validators: any[],
    @Optional() @Self() @Inject(NG_ASYNC_VALIDATORS) asyncValidators: any[];

    constructor(
        @Optional() @Host() @SkipSelf() parent: ControlContainer,
        @Optional() @Self()
        @Inject(NG_VALIDATORS) validators: any[],
        @Optional() @Self() @Inject(NG_ASYNC_VALIDATORS) asyncValidators: any[];
    ) {
        super();
        this._parent = parent;
        this._validators = validators;
        this._asyncValidators = asyncValidators;
    }

    _checkParentType(): void {
        if (_hasInvalidParent(this._parent)) {
            ReactiveErrors.groupParentException();
        }
    }
}

export const formArrayNameProvider: any = {
    provide: ControlContainer,
    useExisting: forwardRef(() => FormArrayName)
};

/**
 * @description
 *
 * Syncs a nested `FormArray` to a DOM element.
 * This directive is designed to be used with a parent 'FormGroupDirective' (selector: `[@formGroupName]`).
 * It accepts the string name of the nested 'FormArray' you want to link, and will look for a 'FormArray' registered with that
 * name in the parent's 'FormGroup' instance you passed into 'FormGroupDirective'.
 *
 * ### Example
 *
 * `{@example forms/ts/nestedFormArray/nested_form_array_example.ts region='Component'}`
 *
 * @ngModule
 * ReactiveFormsModule
 * @publicApi
 */
@Directive({selector: '
    [formArrayName]'}, providers: [formArrayNameProvider])
export class FormArrayName extends ControlContainer implements OnInit, OnDestroy {
    /**
     * @description
     * Tracks the name of the `FormArray` bound to this directive. The name
     * corresponds to a key in the parent 'FormGroup' or 'FormArray'.
     * Accepts a name as a string or a number.
     * The name in the form of a string is useful for individual forms,
     * while the numerical form allows for form arrays to be bound
     * to indices when iterating over arrays in a 'FormArray'.
     * @Todo(issue/24571): remove '!'.
     * @Input('formArrayName') name !: string | number | null;

    @Inject(NG_VALIDATORS) validators: any[],
    @Optional() @Self()
    @Inject(NG_ASYNC_VALIDATORS) asyncValidators: any[];

    constructor(
        @Optional() @Host() @SkipSelf() parent: ControlContainer,
        @Optional() @Self()
        @Inject(NG_VALIDATORS) validators: any[],
        @Optional() @Self() @Inject(NG_ASYNC_VALIDATORS) asyncValidators: any[];
    ) {
        super();
        this._parent = parent;
        this._validators = validators;
        this._asyncValidators = asyncValidators;
    }

    ngOnInit(): void {
        this._checkParentType();
        this.formDirective !.addFormArray(this);
    }

    ngOnDestroy(): void {
        if (this.formDirective) {
            this.formDirective.removeFormArray(this);
        }
    }

    get control(): FormArray {
        return this.formDirective.getFormArray(this);
    }

    get formDirective(): FormGroupDirective|null {
        return this._parent ? <FormGroupDirective>this._parent.formDirective : null;
    }

    get path(): string[] {
        return controlPath(this.name == null ? this.name : this.name.toString(), this._parent);
    }

    get validator(): ValidatorFn|null {
        return composeValidators(this._validators);
    }

    get asyncValidator(): AsyncValidatorFn|null {
        return composeAsyncValidators(this._asyncValidators);
    }

    get _checkParentType(): void {
        if (_hasInvalidParent(this._parent)) {
            ReactiveErrors.arrayParentException();
        }
    }
}

function _hasInvalidParent(parent: ControlContainer): boolean {
    return parent instanceof FormGroupName || parent instanceof FormGroupDirective;}

  
Open Source Used In MSX vBranch Service Pack 3.9.0 3039
!(parent instanceof FormArrayName);
"*/\n * @license
 * Copyright Google Inc. All Rights Reserved.
 * Use of this source code is governed by an MIT-style license that can be
 * found in the LICENSE file at https://angular.io/license
 */

import {Directive, EventEmitter, Host, Inject, Input, OnChanges, OnDestroy,
Optional, Output, Self, SimpleChanges, SkipSelf, forwardRef} from '@angular/core';

import {FormControl} from '../../model';
import {NG_ASYNC_VALIDATORS, NG_VALIDATORS} from '../../validators';
import {AbstractFormGroupDirective} from './abstract_form_group_directive';
import {FormArrayName, FormGroupName} from './form_group_name';

export const controlNameBinding: any = {
  provide: NgControl,
  useExisting: forwardRef(() => FormControlName)
};

/**
 * @description
 * Syncs a `FormControl` in an existing `FormGroup` to a form control
 * element by name.
 * 
 * See 
 * `Reactive Forms Guide`
 * for more information.
 * @see `FormControl`
 * @see `AbstractControl`
 *
 * @usageNotes
 * 
 * ### Register `FormControl` within a group
 *
 * The following example shows how to register multiple form
 * controls within a form group
 * and set their value.
 *
 * ```html
 * <form [formGroup]='form'>
 *   <input formControlName='first' [(ngModel)='value']>
 * </form>
 * ```
 *
 * ```ts
 * this.value = 'some value';
 * ```
 *
 * This has been deprecated for a few reasons.
 * First, developers have found this pattern
 * confusing. It seems like the actual `ngModel` directive is being used,
 * but in fact it
 * allows getting/setting the value
 * and intercepting value
 * events. However, some of `ngModel`'s other features - like
 * delaying updates with `ngModelOptions` or
 * exporting the directive - simply don't work,
 * which has understandably caused some confusion.
 *
 * In
 * addition, this pattern mixes template-driven and reactive forms strategies, which
 * generally don't recommend
 * because it doesn't take advantage of the full benefits of
 * either strategy. Setting the value in the template violates
 * the template-agnostic
 * principles behind reactive forms, whereas adding a `FormControl`/`FormGroup` layer
 * in
 * the class removes the convenience of defining forms in the template.
 * To update your code before support is
 * removed, you'll want to decide whether to stick with
 * reactive form directives (and get/set values using reactive
 * forms patterns) or switch over to
 * template-driven directives.
 *
 * After (choice 1 - use reactive forms):
 *
 * ```html
 * <form [formGroup]='form'>
 *   <input formControlName='first'>
 * </form>
 * ```
 *
 * ```ts
 * this.form.get('first').setValue('some value');
 * ```
 *
 * Alternatively, you can choose to surface a separate warning for each instance of this
 * pattern with a config value
 * of `"always"`. This may help to track down where in the code
 * the pattern is being used as the code is being
 * updated.
 * @ngModule ReactiveFormsModule
 * @publicApi
 * @description
 * Internal reference to the
 * view model.
 * @internal
 * @visibility private
 * @visibility internal

```html

```ts

```
FormControl instance bound to the directive.

TODO(issue/24571): remove '!'.

readonly control: FormControl

* @description
* Tracks the name of the FormControl bound to the directive. The name corresponds to a key in the parent FormControl or FormControlArray.

Accepts a name as a string or a number.

The name in the form of a string is useful for individual forms, while the numerical form allows for form controls to be bound to indices when iterating over controls in a 'FormArray'.

TODO(issue/24571): remove '!'.

Input('formControlName') name: string | number | null;

* @description
* Triggers a warning that this input should not be used with reactive forms.

Input('disabled') set isDisabled(isDisabled: boolean) { ReactiveErrors.disabledAttrWarning(); }

TODO(kara): remove next 4 properties once deprecation period is over

Input('ngModel') model: any;

@Output('ngModelChange') update = new EventEmitter();

* @description
* Static property used to track whether any ngModel warnings have been sent across all instances of FormControlName.

Used to support warning config of 'always'.

* @internal
* static ngModelWarningSentOnce = false;

* @description
* Instance property used to track whether an ngModel warning has been sent out for this FormControl instance.

Used to support warning config of 'once'.

TODO(issue/24571): remove '!'.

* @internal
*

constructor(@Optional() @Host() @SkipSelf() parent: ControlContainer, @Optional() @Self() @Inject(NG_VALIDATORS) validators: Array<Validator|ValidatorFn>,

@Optional() @Self() @Inject(NG_ASYNC_VALIDATORS) asyncValidators: Array<AsyncValidator|AsyncValidatorFn>,

@Optional() @Self() @Inject(NG_VALUE_ACCESSOR) valueAccessors: ControlValueAccessor[],

@Optional() @Inject(NG_MODEL_WITH_FORM_CONTROL_WARNING) private _ngModelWarningConfig: string | null) {

super();

this._parent = parent;

this._rawValidators = validators || [];

this._rawAsyncValidators = asyncValidators || [];

this.valueAccessor = selectValueAccessor(this, valueAccessors);

private _checkParentType(): void {

if (!(this._parent instanceof FormGroupName) && this._parent instanceof AbstractFormGroupDirective) {

ReactiveErrors.ngModelGroupException();

} else if (!(this._parent instanceof FormGroupName) && !(this._parent instanceof FormGroupDirective) && !(this._parent instanceof FormArrayName)) {

ReactiveErrors.controlParentException();

}

}

private _setUpControl() {

this._checkParentType();

(this as{control: FormControl}).control = this.formDirective.addControl(this);

if (this.control.disabled && this.valueAccessor!.setDisabledState) {

this.valueAccessor!.setDisabledState !(true);

}

this._added = true;

}

ngOnChanges(changes: SimpleChanges) {

if (!this._added) this._setUpControl();

if (isPropertyUpdated(changes, this.viewModel)) {

.ngModelWarning('formControlName', FormControlName, this, this._ngModelWarningConfig);

this.viewModel = this.model;

this.formDirective.updateModel(this, this.model);

}

}

ngOnDestroy(): void {

if (this.formDirective) {

this.formDirective.removeControl(this);

}

}

viewToModelUpdate(newValue: any): void {

this.viewModel = newValue;

this.update.emit(newValue);

}

get path(): string[] {

return controlPath(this.name == null ? this.name : this.name.toString(), this._parent !)

* @description
* Returns an array that represents the path from the top-level form to this control.

Each index is the string name of the control on that level.

* @get(path): string[] {

return controlPath(this.name == null ? this.name : this.name.toString(), this._parent !)

* @description
* The top-level directive for this group if present, otherwise null.

* @get(formDirective): any {

return this._parent ? this._parent.formDirective : null;

}

* @get(validator): ValidatorFn
null {

return composeValidators(this._raw Validators);

}

* @get(asyncValidator): AsyncValidatorFn
null {

return composeAsyncValidators(this._raw AsyncValidators);

}

private _checkParentType(): void {

if (!this._parent instanceof FormGroupName) {

ReactiveErrors.ngModelGroupException();

} else if (!this._parent instanceof FormGroupDirective) {

ReactiveErrors.controlParentException();

}

this.formDirective.addControl(this); this.control = (this as FormControl).control = this.formDirective.addControl(this);

if (this.control.disabled && this.valueAccessor!.setDisabledState) {

this.valueAccessor!.setDisabledState !(true);

}

this._added = true;

}


import {Directive, Input, OnChanges, SimpleChanges, StaticProvider, forwardRef} from '@angular/core';
import {FormControl, Validators} from '@angular/forms';

/**
 * @description
 * An interface implemented by classes that perform synchronous validation.
 *
 * @usageNotes
 *
 * ### Provide a custom validator
 *
 * The following example implements the `Validator` interface to create an
 * validator directive with a custom error key.
 *
 * ```typescript
 * @Directive({
 *   selector: '[customValidator]',
 *   providers: [[provide:
 * NG_VALIDATORS, useExisting: CustomValidatorDirective, multi: true]]
 * })
 * class CustomValidatorDirective implements Validator {
 *   validate(control: AbstractControl): ValidationErrors|null {
 *     return {'custom': true};
 *   }
 * }
 * ```
 *
 * @publicApi
 */
export interface Validator {
  /**
   * @description
   * Method that performs synchronous validation against the provided control.
   *
   * @param control The control to validate against.
   *
   * @returns A map of validation errors if validation fails, otherwise null.
   */
  validate(control: AbstractControl): ValidationErrors|null;

  /**
   * @description
   * Registers a callback function to call when the validator inputs change.
   *
   * @param fn The callback function
   */
  registerOnValidatorChange?(fn: () => void): void;
}

/**
 * @description
 * An interface implemented by classes that perform asynchronous validation.
 *
 * @usageNotes
 *
 * ### Provide a custom async validator directive
 *
 * The following example implements the `AsyncValidator` interface to create an
 * async validator directive with a custom error key.
 *
 * ```typescript
 * import { of as observableOf } from 'rxjs';
 *
 * @Directive({
 *   selector: '[customAsyncValidator]',
 *   providers: [NG_ASYNC_VALIDATORS, useExisting: CustomAsyncValidatorDirective]
 * })
 * class CustomAsyncValidatorDirective implements AsyncValidator {
 *   validate(control: AbstractControl): Promise<ValidationErrors|null>|Observable<ValidationErrors|null> {
 *     return observableOf({'custom': true});
 *   }
 * }
 * ```
 *
 * @publicApi
 */
export interface AsyncValidator extends Validator {
  /**
   * @description
   * Method that performs async validation against the provided control.
   *
   * @param control The control to validate against.
   *
   * @returns A promise or observable that resolves a map of validation errors
   * if validation fails, otherwise null.
   */
  validate(control: AbstractControl):
      Promise<ValidationErrors|null>|Observable<ValidationErrors|null>;
}

/**
 * @description
 * A directive that adds the `required` validator to any controls marked with the
 * `required` attribute. The directive is provided with the `NG_VALIDATORS` multi-provider list.
 *
 * @see [Form Validation](guide/form-validation)
 *
 * @usageNotes
 * 
 * ### Adding a required validator using template-driven forms
 *
 * ```
 * <input
 * name="fullName" ngModel required>
 * ```
 *
 * @publicApi
 */
@Directive({
  selector: ':not([type=checkbox])[required][formControlName],:not([type=checkbox])[required][formControl],:not([type=checkbox])[required][ngModel],
  providers: [REQUIRED_VALIDATOR],
  host: {'attr.required': '"\n"'},
})
export class RequiredValidator implements Validator {
  // TODO(issue/24571): remove '!'.
  private _required !: boolean;
  // TODO(issue/24571): remove '!'.
  private _onChange !: () => void;

  /**
   * @description
   * Tracks changes to the required attribute bound to this directive.
   *
   * @param fn The callback function
   */
  registerOnValidatorChange?(fn: () => void): void;

  /**
   * @description
   * Method that validates whether the control is empty.
   *
   * @returns The validation result if enabled, otherwise null.
   */
  validate(control: AbstractControl): ValidationErrors|null {
    return this._required ?
    null : {'required': true};
  }
}
Validators.required(control) : null;

```

Validators.required(control) : null;

```
selector: '[minlength][formControlName], [minlength][formControl], [minlength][ngModel]',

providers:

[MIN_LENGTH_VALIDATOR],
host: '{attr.minlength': 'minlength ? minlength : null'}

export class

MinLengthValidator implements Validator,

OnChanges {

  private _validator !: ValidatorFn;

  ngOnChanges(changes: SimpleChanges): void {
    if ('minlength' in changes) {
      this._createValidator();
      if (this._onChange) this._onChange();
    }
  }

  validate(control: AbstractControl): ValidationErrors|null {
    return this.minlength != null ? this._validator(control) : null;
  }

  registerOnValidatorChange(fn: () => void): void {
    this._onChange = fn;
  }

  private _createValidator(): void {
    this._validator = Validators.minLength(
        typeof this.minlength === 'number' ? this.minlength : parseInt(this.minlength, 10));
  }
}

MAX_LENGTH_VALIDATOR: any = {
  provide: NG_VALIDATORS,
  useExisting: forwardRef(() => MaxLengthValidator),
  multi: true,
}

@Directive({
  selector:

[MAX_LENGTH_VALIDATOR],
host: '{attr.maxlength': 'maxlength ? maxlength : null'}

export class

MaxLengthValidator implements Validator,

OnChanges {

  private _validator !: ValidatorFn;

  ngOnChanges(changes: SimpleChanges): void {
    if ('maxlength' in changes) {
      this._createValidator();
      if (this._onChange) this._onChange();
    }
  }

  validate(control: AbstractControl): ValidationErrors|null {
    return this.maxlength != null ? this._validator(control) : null;
  }

  registerOnValidatorChange(fn: () => void): void {
    this._onChange = fn;
  }

  private _createValidator(): void {
    this._validator = Validators.maxLength(
        typeof this.maxlength === 'number' ? this.maxlength : parseInt(this.maxlength, 10));
  }
}

PATTERN_VALIDATOR: any = {
  provide: NG_VALIDATORS,
  useExisting: forwardRef(() => PatternValidator),
  multi: true,
}

@Directive({
  selector:

[_PATTERN_VALIDATOR],
host: '{attr.pattern': 'pattern ? pattern : null'}

export class

PatternValidator implements Validator,

OnChanges {

  private _validator !: ValidatorFn;

  ngOnChanges(changes: SimpleChanges): void {
    if ('pattern' in changes) {
      this._createValidator();
      if (this._onChange) this._onChange();
    }
  }

  validate(control: AbstractControl): ValidationErrors|null {
    return this.pattern != null ? this._validator(control) : null;
  }

  registerOnValidatorChange(fn: () => void): void {
    this._onChange = fn;
  }

  private _createValidator(): void {
    this._validator = Validators.pattern();
  }
}


```typescript
/**
 * @description
 * Tracks changes to the pattern bound to this directive.
 */
  @Input() pattern !: string | RegExp;

  /**
   * @description
   * A lifecycle method called when the directive's inputs change. For internal use
   * only.
   */
  ngOnChanges(changes: SimpleChanges): void {
    if ('pattern' in changes) {
      this._createValidator();
      if (this._onChange) this._onChange();
    }
  }

  /**
   * @description
   * Method that validates whether the value matches the
   * the pattern requirement.
   */
  validate(control: AbstractControl): ValidationErrors|null {
    return this._validator(control);
  }

  /**
   * @description
   * Registers a callback function to call when the validator inputs change.
   */
  registerOnValidatorChange(fn: () => void): void { this._onChange = fn; }

  private _createValidator(): void { this._validator = Validators.pattern(this.pattern); }
}
```

```typescript
export const SHARED_FORM_DIRECTIVES: Type<any>[] = [
  NgNoValidate,
  NgSelectOption,
```
NgSelectMultipleOption, DefaultValueAccessor, NumberValueAccessor, RangeValueAccessor, CheckboxControlValueAccessor, SelectControlValueAccessor, SelectMultipleControlValueAccessor, NgControlStatus, NgControlStatusGroup, RequiredValidator, MinLengthValidator, MaxLengthValidator, PatternValidator, CheckboxRequiredValidator, EmailValidator, ];

export const TEMPLATE_DRIVEN_DIRECTIVES: Type<any>[] = [NgModel, NgModelGroup, NgForm];

export const REACTIVE_DRIVEN_DIRECTIVES: Type<any>[] = [FormControlDirective, FormGroupDirective, FormControlName, FormGroupName, FormArrayName];

/**
 * Internal module used for sharing directives between FormsModule and ReactiveFormsModule
 */
@NgModule({
  declarations: SHARED_FORM_DIRECTIVES,
  exports: SHARED_FORM_DIRECTIVES,
})
export class ɵInternalFormsSharedModule {
}

export {ɵInternalFormsSharedModule as InternalFormsSharedModule};

/**
 * @license
 * Copyright Google Inc.
 * All Rights Reserved.
 *
 * Use of this source code is governed by an MIT-style license that can be found in the LICENSE file at https://angular.io/license
 */

import {Injectable} from '@angular/core';

import {AsyncValidatorFn, ValidatorFn} from './directives/validators';
import {AbstractControl, AbstractControlOptions, FormArray, FormControl, FormGroup, FormHooks} from './model';

function isAbstractControlOptions(options: AbstractControlOptions | { [key: string]: any }): options is AbstractControlOptions {
}

/**
 * @description
 * Creates an `AbstractControl` from a user-specified configuration.
 *
 * The `FormBuilder` provides syntactic sugar that shortens creating instances of a `FormControl`, `FormGroup`, or `FormArray`. It reduces the amount of boilerplate needed to build complex forms.
 *
 * @see [Reactive Forms Guide](/guide/reactive-forms)
 *
 * @publicApi
 */
@Injectable()
export class FormBuilder {
  /**
   * @description
   * Construct a new `FormGroup` instance.
   *
   * @param controlsConfig A collection of child controls. The key for each child is the name under which it is registered.
   * @param options Configuration options object for the `FormGroup`. The object can have two shapes:
   * 1) `AbstractControlOptions` object (preferred), which consists of:
   * * `validators`: A synchronous validator function, or an array of validator functions
   * * `asyncValidators`: A single async validator or array of async validator functions
   * * `updateOn`: The event upon which the control should be updated (options: 'change' | 'blur' | 'submit')
   *
   * 2) Legacy configuration object, which consists of:
   * * `validator`: A synchronous validator function, or an array of validator functions
   * * `asyncValidator`: A single async validator or array of async validator functions
   *
   */
  group(controlsConfig: { [key: string]: any }, options: AbstractControlOptions | { [key: string]: any } | null = null): FormGroup {
    const controls = this._reduceControls(controlsConfig);

    let validators: ValidatorFn | ValidatorFn[] | null = null;
    let asyncValidators: AsyncValidatorFn | AsyncValidatorFn[] | null = null;
    let updateOn: FormHooks | undefined = undefined;

    if (options != null) {
      if (isAbstractControlOptions(options)) {
        // `options` are `AbstractControlOptions`
        validators = options.validators != null ? options.validators : null;
        asyncValidators = options.asyncValidators != null ? options.asyncValidators : null;
      } else {
        // `options` are legacy form group options
        validators = options['validator'] != null ? options['validator'] : null;
        asyncValidators = options['asyncValidator'] != null ? options['asyncValidator'] : null;
      }
    }

    return new FormGroup(controls, {asyncValidators, updateOn, validators});
  }

  /**
   * @description
   * Construct a new `FormControl` with the given state, validators and options.
   *
   * @param formState Initializes the control with an initial state value, or with an object that contains both a value and a disabled status.
   *
   * @param validatorOrOpts A synchronous validator function, or an array of such functions, or an `AbstractControlOptions` object that contains validation functions and a validation trigger.
   *
   * @usageNotes
   *
   * ### Initialize a control as disabled
   *
   * The following example returns a control with an initial value in a disabled state.
   */
  control(formState: any, validatorOrOpts: any | AbstractControlOptions | { [key: string]: any }): FormControl {
    const validators = validatorOrOpts.validators || null;
    const asyncValidators = validatorOrOpts.asyncValidators || null;
    const updateOn = validatorOrOpts.updateOn || null;

    return new FormControl(formState.value, validators, asyncValidators, updateOn);
  }
}
```typescript
/**
 * @license
 * Copyright Google Inc. All Rights Reserved.
 *
 * Use of this source code is governed by an MIT-style license that can be
 * found in the LICENSE file at https://angular.io/license
 */

/**
 * @publicApi
 */
export const VERSION = new Version('9.0.7');

/**
 * @publicApi
 */
 export class FormsModule {
   /**
    * @description
    *
    * Provides options for configuring the reactive forms module.
    * *
    * @param options An object of configuration options
    * @param warnOnNgModelWithFormControl Configures when to emit a warning when an `ngModel`
    * binding is used with reactive form directives.
    */
   static withConfig(options: {
     /** @deprecated as of v6 */
     warnOnNgModelWithFormControl: 'never' | 'once' | 'always'
   }): ModuleWithProviders<ReactiveFormsModule> {
     return {
       ngModule: ReactiveFormsModule,
       providers: [{
         provide: NG_MODEL_WITH_FORM_CONTROL_WARNING,
         useValue: options.warnOnNgModelWithFormControl
       }]
     };
   }
 }
```

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This module is used for handling user input, by defining and building a `FormGroup` that consists of `FormControl` objects, and mapping them onto the DOM. `FormControl` objects can then be used to read information from the form DOM elements. Forms providers are not included in default providers; you must import these providers explicitly.

```typescript
export {InternalFormsSharedModule} from './directives';
export {AbstractControlDirective} from './directives/abstract_control_directive';
export {AbstractFormGroupDirective} from './directives/abstract_form_group_directive';
export {CheckboxControlValueAccessor} from './directives/checkbox_value_accessor';
export {COMPOSITION_BUFFER_MODE, DefaultValueAccess, {Form} from './directives/form_interface';
export {ControlValueAccessor, NG_VALUE_ACCESSOR} from './directives/control_value_accessor';
export {NumberValueAccessor} from './directives/number_value_accessor';
export {RadioControlValueAccessor} from './directives/radio_control_value_accessor';
export {FormsModule} from './form_builder';
export {AbstractControl, AbstractControlOptions, FormArray, FormControl, FormGroup} from './model';
export {NG_ASYNC_VALIDATORS, NG_VALIDATORS, Validators} from './validators';
export {VERSION} from './version';
```

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```

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./src/directives/ng_form';
export {formControlBinding as ɵangular_packages_forms_forms_j} from
./src/directives/ng_model';
export {modelGroupProvider as ɵangular_packages_forms_forms_k} from
./src/directives/ng_no_validate_directive';
export {NUMBER_VALUE_ACCESSOR as
ɵangular_packages_forms_forms_y} from
./src/directives/number_value_accessor';
export {RADIO_VALUE_ACCESSOR as ɵangular_packages_forms_forms_m, RadioControlRegistry as
ɵangular_packages_forms_forms_n} from
./src/directives/radio_control_value_accessor';
export {NgNoValidate as ɵangular_packages_forms_forms_y} from
./src/directives/radio_directives/form_control_directive';
export {NgSelectMultipleOption as ɵangular_packages_forms_forms_x, SELECT_MULTIPLE_VALUE_ACCESSOR as
ɵangular_packages_forms_forms_w} from
./src/directives/reactive_directives/form_group_directive';
export {NgSelectMultipleOption as ɵangular_packages_forms_forms_x, SELECT_MULTIPLE_VALUE_ACCESSOR as
ɵangular_packages_forms_forms_w} from
./src/directives/reactive_directives/form_group_name';
export {NgSelectMultipleOption as ɵangular_packages_forms_forms_x, SELECT_MULTIPLE_VALUE_ACCESSOR as
ɵangular_packages_forms_forms_w} from
./src/directives/reactive_directives/form_group_name';
export {NgSelectMultipleOption as ɵangular_packages_forms_forms_x, SELECT_MULTIPLE_VALUE_ACCESSOR as
ɵangular_packages_forms_forms_w} from
./src/directives/reactive_directives/form_group_name';
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* /opt/ws_local/PERMITS_SQL/1047774271_1590610393.22/0/forms-9-0-7-tgz/package/esm2015/src/directives/ng_control.js
* /opt/ws_local/PERMITS_SQL/1047774271_1590610393.22/0/forms-9-0-7-tgz/package/esm2015/src/directives/abstract_control_directive.js
* /opt/ws_local/PERMITS_SQL/1047774271_1590610393.22/0/forms-9-0-7-tgz/package/esm2015/src/directives/reactive_directives/form_control_directive.js
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* /opt/ws_local/PERMITS_SQL/1047774271_1590610393.22/0/forms-9-0-7-tgz/package/esm2015/src/directives/control_container.js
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* /opt/ws_local/PERMITS_SQL/1047774271_1590610393.22/0/forms-9-0-7-tgz/package/esm2015/src/directives/range_value_accessor.js
* /opt/ws_local/PERMITS_SQL/1047774271_1590610393.22/0/forms-9-0-7-tgz/package/esm5/src/directives/ng_control.js
* /opt/ws_local/PERMITS_SQL/1047774271_1590610393.22/0/forms-9-0-7-tgz/package/esm5/src/form_builder.js
* /opt/ws_local/PERMITS_SQL/1047774271_1590610393.22/0/forms-9-0-7-tgz/package/esm5/src/directives/error_examples.js
* /opt/ws_local/PERMITS_SQL/1047774271_1590610393.22/0/forms-9-0-7-tgz/package/esm5/src/directives/ng_model.js
1.286 sysv-init 2.88dsf 59.9

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Send patches to sysvinit-devel@nongnu.org

The of the start-stop-daemon

* A rewrite of the original Debian's start-stop-daemon Perl script
* in C (faster - it is executed many times during system startup).
*
* Written by Marek Michalkiewicz <marekm@i17linuxb.ists.pwr.wroc.pl>,
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1.296 springfox-spring-web 2.9.2

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1.300 adduser 3.118

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1.306 ns-popover 0.6.8

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1.309 cups 2.2.1-8+deb9u4

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

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

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The following artifacts are EPL and ASL2.
* org.eclipse.jetty.orbit:javax.security.auth.message

The following artifacts are EPL and CDDL 1.0.
* org.eclipse.jetty.orbit:javax.mail.glassfish

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Oracle

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https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

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Oracle OpenJDK

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module is selected.

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications
are hosted at github and both modified and original are under GPL v2 with
classpath exceptions.
http://openjdk.java.net/legal/gplv2+ce.html

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OW2
The following artifacts are licensed by the OW2 Foundation according to the terms of http://asm.ow2.org/license.html

org.ow2.asm:asm-commons
org.ow2.asm:asm

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Apache

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org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

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org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util
org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

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Mortbay

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https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

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* /opt/ws_local/PERMITS_SQL/1018366272_1591372384.79/jnr-x86asm-1-0-2-sources-jar/com/kenai/jnr/x86asm/HINT.java
1.320 spring-vault-core 2.2.0

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* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

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* java.sun.security.ssl

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http://openjdk.java.net/legal/gplv2+ce.html

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org.ow2.asm:asm-commons
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org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
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1.326 xlinkinclude 1.0.1

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1.327 buffer 4.9.2

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Eclipse

The following artifacts are EPL.
* org.eclipse.jetty.orbit:org.eclipse.jdt.core

The following artifacts are EPL and ASL2.
* org.eclipse.jetty.orbit:javax.security.auth.message

The following artifacts are EPL and CDDL 1.0.
* org.eclipse.jetty.orbit:javax.mail.glassfish

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Oracle

The following artifacts are CDDL + GPLv2 with classpath exception.
https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

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Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following
artifacts may be included in the distribution or downloaded when ALPN
module is selected.

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications
are hosted at github and both modified and original are under GPL v2 with
classpath exceptions.
http://openjdk.java.net/legal/gplv2+ce.html

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OW2
The following artifacts are licensed by the OW2 Foundation according to the terms of http://asm.ow2.org/license.html

org.ow2.asm:asm-commons
org.ow2.asm:asm

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Apache

The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

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MortBay

The following artifacts are ASL2 licensed. Based on selected classes from following Apache Tomcat jars, all ASL2 licensed.

org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util
org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

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Mortbay

The following artifacts are CDDL + GPLv2 with classpath exception.

https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

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1.331 cdebconf 0.249

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1.332 selinux 2.8-1+b1

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for the initial saa7146 driver and its recent overhaul

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for his contributions to the dvb-net driver

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for CyberLogin for Linux which allows logging onto EON
(in case you are wondering where CyberLogin is, EON changed its login procedure and CyberLogin is no longer used.)

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for the nxt2004 frontend driver

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for the or51211 and or51132 frontend drivers, and
for merging the nxt2002 and nxt2004 modules into a
single nxt200x frontend driver.

(If you think you should be in this list, but you are not, drop a
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        || strcmp(license, "GPL v2") == 0
        || strcmp(license, "GPL and additional rights") == 0
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/* nicstar.c v0.22  Jawaid Bazyar (bazyar@hypermall.com)
* nicstar.c, M. Welsh (matt.welsh@cl.cam.ac.uk)
* 
* Hacked October, 1997 by Jawaid Bazyar, Interlink Advertising Services Inc.
* http://www.hypermall.com/
* 10/1/97 - commented out CFG_PHYIE bit - we don't care when the PHY
* interrupts us (except possibly for removal/insertion of the cable?)
* 10/4/97 - began heavy inline documentation of the code. Corrected typos
* and spelling mistakes.
* 10/5/97 - added code to handle PHY interrupts, disable PHY on
* loss of link, and correctly re-enable PHY when link is
* re-established. (put back CFG_PHYIE)
* 
* Modified to work with the IDT7721 nicstar -- AAL5 (tested) only.
* 
* R. D. Rechenmacher <ron@fnal.gov>, Aug. 6, 1997
* 
* Linux driver for the IDT77201 NICStAR PCI ATM controller.
* PHY component is expected to be 155 Mbps S/UNI-Lite or IDT 77155;
* see init_nicstar() for PHY initialization to change this. This driver
* expects the Linux ATM stack to support scatter-gather lists
* (skb->atm.iovcnt !-0) for Rx skb's passed to vcc->push.
* 
* Implementing minimal-copy of received data:
* IDT always receives data into a small buffer, then large buffers
* as needed. This means that data must always be copied to create
* the linear buffer needed by most non-ATM protocol stacks (e.g. IP)
* Fix is simple: make large buffers large enough to hold entire
* SDU, and leave <small_buffer_data> bytes empty at the start. Then
* copy small buffer contents to head of large buffer.
* Trick is to avoid fragmenting Linux, due to need for a lot of large
* buffers. This is done by 2 things:
* 1) skb->destructor / skb->atm.recycle_buffer
*   combined, allow nicstar_free_rx_skb to be called to
*   recycle large data buffers
* 2) skb_clone of received buffers
* See nicstar_free_rx_skb and linearize_buffer for implementation
* details.

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*
* M. Welsh, 6 July 1996
*
* */

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1.335 cglib 3.2.9

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1.338 systemd 241-7~deb10u4

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* org.eclipse.jetty.orbit:org.eclipse.jdt.core

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* org.eclipse.jetty.orbit:javax.security.auth.message

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* org.eclipse.jetty.orbit:javax.mail.glassfish

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**Oracle**

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https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

-----

**Oracle OpenJDK**

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.
http://openjdk.java.net/legal/gplv2+ce.html

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org.ow2.asm:asm-commons
org.ow2.asm:asm

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org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

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org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util

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org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

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https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

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* /opt/ws_local/PERMITS_SQL/1033178653_1591205810.04/0/reactor-extra-3-3-2-release-sources-jar/reactor/function/Function4.java
* /opt/ws_local/PERMITS_SQL/1033178653_1591205810.04/0/reactor-extra-3-3-2-release-sources-jar/reactor/function/Function5.java
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* /opt/ws_local/PERMITS_SQL/1033178653_1591205810.04/0/reactor-extra-3-3-2-release-sources-jar/reactor/scheduler/forkjoin/ForkJoinPoolScheduler.java

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* /opt/ws_local/PERMITS_SQL/1033178653_1591205810.04/0/reactor-extra-3-3-2-release-sources-jar/reactor/math/MonoAverageBigDecimal.java
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* /opt/ws_local/PERMITS_SQL/1033178653_1591205810.04/0/reactor-extra-3-3-2-release-sources-jar/reactor/extra/processor/EventLoopProcessor.java

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

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

tools/shhopt.c, tools/shhopt.h:

Title: shhopt - library for parsing command line options.
Version: 1.1.2
Entered-date: 23MAR97
Description: C-functions for parsing command line options, both
    traditional one-character options, and GNU'ish
    --long-options.
Keywords: programming, library, lib, commandline, options
Author: s.h.huseby@usit.uio.no (Sverre H. Huseby)
Primary-site: http://www.ifi.uio.no/~sverrehu/pub-unix/
Alternate-site: sunsite.unc.edu /pub/Linux/libs
    shhopt-1.1.2.tar.gz
Platforms: Requires ANSI C-compiler.
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uses the Library", as object code and/or source code, so that the
user can modify the Library and then relink to produce a modified
executable containing the modified Library. (It is understood
that the user who changes the contents of definitions files in the
Library will not necessarily be able to recompile the application
to use the modified definitions.)

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

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

d) If distribution of the work is made by offering access to copy
from a designated place, offer equivalent access to copy the above
specified materials from the same place.

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

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reproducing the executable from it. However, as a special exception,
the materials to be distributed need not include anything that is
normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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1.380 libxau 1.0.8 1+b2

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1.382 tzdata 2020a-0+deb10u1

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1.389 libjpeg-turbo 1.5.2-2+b1

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README for release 6b of 27-Mar-1998

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This software is the work of Tom Lane, Philip Gladstone, Jim Boucher,
Lee Crocker, Julian Minguillon, Luis Ortiz, George Phillips, Davide Rossi, Guido Vollbeding, Ge’ Weijers, and other members of the Independent JPEG Group.

IJG is not affiliated with the official ISO JPEG standards committee.

DOCUMENTATION ROADMAP
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This file contains the following sections:

OVERVIEW General description of JPEG and the IJG software.
LEGAL ISSUES Copyright, lack of warranty, terms of distribution.
REFERENCES Where to learn more about JPEG.
ARCHIVE LOCATIONS Where to find newer versions of this software.
RELATED SOFTWARE Other stuff you should get.
FILE FORMAT WARS Software *not* to get.
TO DO Plans for future IJG releases.

Other documentation files in the distribution are:

User documentation:
install.doc How to configure and install the IJG software.
age.doc Usage instructions for cjpeg, djpeg, jpegtran, rdjpgcom, and wrjpgcom.
*.1 Unix-style man pages for programs (same info as usage.doc).
wizard.doc Advanced usage instructions for JPEG wizards only.
change.log Version-to-version change highlights.

Programmer and internal documentation:
libjpeg.doc How to use the JPEG library in your own programs.
example.c Sample code for calling the JPEG library.
structure.doc Overview of the JPEG library's internal structure.
filelist.doc Road map of IJG files.
coderules.doc Coding style rules --- please read if you contribute code.

Please read at least the files install.doc and usage.doc. Useful information can also be found in the JPEG FAQ (Frequently Asked Questions) article. See ARCHIVE LOCATIONS below to find out where to obtain the FAQ article.

If you want to understand how the JPEG code works, we suggest reading one or more of the REFERENCES, then looking at the documentation files (in roughly the order listed) before diving into the code.

OVERVIEW
========
This package contains C software to implement JPEG image compression and decompression. JPEG (pronounced "jay-peg") is a standardized compression method for full-color and gray-scale images. JPEG is intended for compressing "real-world" scenes; line drawings, cartoons and other non-realistic images are not its strong suit. JPEG is lossy, meaning that the output image is not exactly identical to the input image. Hence you must not use JPEG if you have to have identical output bits. However, on typical photographic images, very good compression levels can be obtained with no visible change, and remarkably high compression levels are possible if you can tolerate a low-quality image. For more details, see the references, or just experiment with various compression settings.

This software implements JPEG baseline, extended-sequential, and progressive compression processes. Provision is made for supporting all variants of these processes, although some uncommon parameter settings aren't implemented yet. For legal reasons, we are not distributing code for the arithmetic-coding variants of JPEG; see LEGAL ISSUES. We have made no provision for supporting the hierarchical or lossless processes defined in the standard.

We provide a set of library routines for reading and writing JPEG image files, plus two sample applications "cjpeg" and "djpeg", which use the library to perform conversion between JPEG and some other popular image file formats. The library is intended to be reused in other applications.

In order to support file conversion and viewing software, we have included considerable functionality beyond the bare JPEG coding/decoding capability; for example, the color quantization modules are not strictly part of JPEG decoding, but they are essential for output to colormapped file formats or colormapped displays. These extra functions can be compiled out of the library if not required for a particular application. We have also included "jpegtran", a utility for lossless transcoding between different JPEG processes, and "rdjpgcom" and "wrjpgcom", two simple applications for inserting and extracting textual comments in JFIF files.

The emphasis in designing this software has been on achieving portability and flexibility, while also making it fast enough to be useful. In particular, the software is not intended to be read as a tutorial on JPEG. (See the REFERENCES section for introductory material.) Rather, it is intended to be reliable, portable, industrial-strength code. We do not claim to have achieved that goal in every aspect of the software, but we strive for it.

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The Unix configuration script "configure" was produced with GNU Autoconf. It is copyright by the Free Software Foundation but is freely distributable. The same holds for its supporting scripts (config.guess, config.sub, ltconfig, ltmain.sh). Another support script, install-sh, is copyright by M.I.T. but is also freely distributable.

It appears that the arithmetic coding option of the JPEG spec is covered by patents owned by IBM, AT&T, and Mitsubishi. Hence arithmetic coding cannot legally be used without obtaining one or more licenses. For this reason, support for arithmetic coding has been removed from the free JPEG software. (Since arithmetic coding provides only a marginal gain over the unpatented Huffman mode, it is unlikely that very many implementations will support it.) So far as we are aware, there are no patent restrictions on the remaining code.

The IJG distribution formerly included code to read and write GIF files. To avoid entanglement with the Unisys LZW patent, GIF reading support has been removed altogether, and the GIF writer has been simplified to produce "uncompressed GIFs". This technique does not use the LZW algorithm; the resulting GIF files are larger than usual, but are readable by all standard GIF decoders.

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REFERENCES
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We highly recommend reading one or more of these references before trying to understand the innards of the JPEG software.

The best short technical introduction to the JPEG compression algorithm is Wallace, Gregory K. "The JPEG Still Picture Compression Standard", Communications of the ACM, April 1991 (vol. 34 no. 4), pp. 30-44. (Adjacent articles in that issue discuss MPEG motion picture compression, applications of JPEG, and related topics.) If you don't have the CACM issue
handy, a PostScript file containing a revised version of Wallace's article is available at ftp://ftp.uu.net/graphics/jpeg/wallace.ps.gz. The file (actually a preprint for an article that appeared in IEEE Trans. Consumer Electronics) omits the sample images that appeared in CACM, but it includes corrections and some added material. Note: the Wallace article is copyright ACM and IEEE, and it may not be used for commercial purposes.

A somewhat less technical, more leisurely introduction to JPEG can be found in “The Data Compression Book” by Mark Nelson and Jean-loup Gailly, published by M&T Books (New York), 2nd ed. 1996, ISBN 1-55851-434-1. This book provides good explanations and example C code for a multitude of compression methods including JPEG. It is an excellent source if you are comfortable reading C code but don't know much about data compression in general. The book's JPEG sample code is far from industrial-strength, but when you are ready to look at a full implementation, you've got one here...


The JPEG standard itself is not available electronically; you must order a paper copy through ISO or ITU. (Unless you feel a need to own a certified official copy, we recommend buying the Pennebaker and Mitchell book instead; it's much cheaper and includes a great deal of useful explanatory material.) In the USA, copies of the standard may be ordered from ANSI Sales at (212) 642-4900, or from Global Engineering Documents at (800) 854-7179. (ANSI doesn't take credit card orders, but Global does.) It's not cheap: as of 1992, ANSI was charging $95 for Part 1 and $47 for Part 2, plus 7% shipping/handling. The standard is divided into two parts, Part 1 being the actual specification, while Part 2 covers compliance testing methods. Part 1 is titled "Digital Compression and Coding of Continuous-tone Still Images, Part 1: Requirements and guidelines" and has document numbers ISO/IEC IS 10918-1, ITU-T T.81. Part 2 is titled "Digital Compression and Coding of Continuous-tone Still Images, Part 2: Compliance testing" and has document numbers ISO/IEC IS 10918-2, ITU-T T.83.

Some extensions to the original JPEG standard are defined in JPEG Part 3, a newer ISO standard numbered ISO/IEC IS 10918-3 and ITU-T T.84. IJG currently does not support any Part 3 extensions.

The JPEG standard does not specify all details of an interchangeable file format. For the omitted details we follow the "JFIF" conventions, revision 1.02. A copy of the JFIF spec is available from:

Literature Department
C-Cube Microsystems, Inc.
The TIFF 6.0 file format specification can be obtained by FTP from ftp://ftp.sgi.com/graphics/tiff/TIFF6.ps.gz. The JPEG incorporation scheme found in the TIFF 6.0 spec of 3-June-92 has a number of serious problems. IJG does not recommend use of the TIFF 6.0 design (TIFF Compression tag 6). Instead, we recommend the JPEG design proposed by TIFF Technical Note #2 (Compression tag 7). Copies of this Note can be obtained from ftp.sgi.com or from ftp://ftp.uu.net/graphics/jpeg/. It is expected that the next revision of the TIFF spec will replace the 6.0 JPEG design with the Note's design. Although IJG's own code does not support TIFF/JPEG, the free libtiff library uses our library to implement TIFF/JPEG per the Note. libtiff is available from ftp://ftp.sgi.com/graphics/tiff/.

ARCHIVE LOCATIONS
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The "official" archive site for this software is ftp.uu.net (Internet address 192.48.96.9). The most recent released version can always be found there in directory graphics/jpeg. This particular version will be archived as ftp://ftp.uu.net/graphics/jpeg/jpegsrc.v6b.tar.gz. If you don't have direct Internet access, UUNET's archives are also available via UUCP; contact help@uunet.uu.net for information on retrieving files that way.

Numerous Internet sites maintain copies of the UUNET files. However, only ftp.uu.net is guaranteed to have the latest official version.

You can also obtain this software in DOS-compatible "zip" archive format from the SimTel archives (ftp://ftp.simtel.net/pub/simtelnet/msdos/graphics/), or on CompuServe in the Graphics Support forum (GO CIS:GRAPHSUP), library 12 "JPEG Tools". Again, these versions may sometimes lag behind the ftp.uu.net release.

The JPEG FAQ (Frequently Asked Questions) article is a useful source of general information about JPEG. It is updated constantly and therefore is not included in this distribution. The FAQ is posted every two weeks to Usenet newsgroups comp.graphics.misc, news.answers, and other groups. It is available on the World Wide Web at http://www.faqs.org/faqs/jpeg-faq/ and other news.answers archive sites, including the official news.answers archive at rtfm.mit.edu: ftp://rtfm.mit.edu/pub/usenet/news.answers/jpeg-faq/.

If you don't have Web or FTP access, send e-mail to mail-server@rtfm.mit.edu.
RELATED SOFTWARE

Numerous viewing and image manipulation programs now support JPEG. (Quite a few of them use this library to do so.) The JPEG FAQ described above lists some of the more popular free and shareware viewers, and tells where to obtain them on Internet.

If you are on a Unix machine, we highly recommend Jef Poskanzer's free PBMPLUS software, which provides many useful operations on PPM-format image files. In particular, it can convert PPM images to and from a wide range of other formats, thus making cjpeg/djpeg considerably more useful. The latest version is distributed by the NetPBM group, and is available from numerous sites, notably ftp://wuarchive.wustl.edu/graphics/graphics/packages/NetPBM/. Unfortunately PBMPLUS/NETPBM is not nearly as portable as the IJG software is; you are likely to have difficulty making it work on any non-Unix machine.

A different free JPEG implementation, written by the PVRG group at Stanford, is available from ftp://havefun.stanford.edu/pub/jpeg/. This program is designed for research and experimentation rather than production use; it is slower, harder to use, and less portable than the IJG code, but it is easier to read and modify. Also, the PVRG code supports lossless JPEG, which we do not. (On the other hand, it doesn't do progressive JPEG.)

FILE FORMAT WARS

Some JPEG programs produce files that are not compatible with our library. The root of the problem is that the ISO JPEG committee failed to specify a concrete file format. Some vendors "filled in the blanks" on their own, creating proprietary formats that no one else could read. (For example, none of the early commercial JPEG implementations for the Macintosh were able to exchange compressed files.)

The file format we have adopted is called JFIF (see REFERENCES). This format has been agreed to by a number of major commercial JPEG vendors, and it has become the de facto standard. JFIF is a minimal or "low end" representation. We recommend the use of TIFF/JPEG (TIFF revision 6.0 as modified by TIFF Technical Note #2) for "high end" applications that need to record a lot of additional data about an image. TIFF/JPEG is fairly new and not yet widely supported, unfortunately.
The upcoming JPEG Part 3 standard defines a file format called SPIFF. SPIFF is interoperable with JFIF, in the sense that most JFIF decoders should be able to read the most common variant of SPIFF. SPIFF has some technical advantages over JFIF, but its major claim to fame is simply that it is an official standard rather than an informal one. At this point it is unclear whether SPIFF will supersede JFIF or whether JFIF will remain the de-facto standard. IJG intends to support SPIFF once the standard is frozen, but we have not decided whether it should become our default output format or not. (In any case, our decoder will remain capable of reading JFIF indefinitely.)

Various proprietary file formats incorporating JPEG compression also exist. We have little or no sympathy for the existence of these formats. Indeed, one of the original reasons for developing this free software was to help force convergence on common, open format standards for JPEG files. Don't use a proprietary file format!

TO DO
=====

The major thrust for v7 will probably be improvement of visual quality. The current method for scaling the quantization tables is known not to be very good at low Q values. We also intend to investigate block boundary smoothing, "poor man's variable quantization", and other means of improving quality-vs-file-size performance without sacrificing compatibility.

In future versions, we are considering supporting some of the upcoming JPEG Part 3 extensions --- principally, variable quantization and the SPIFF file format.

As always, speeding things up is of great interest.

Please send bug reports, offers of help, etc. to jpeg-info@uunet.uu.net.

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1.393 servo-core 0.12.21

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1.394 ca-certificates-java 20170929~deb9u3

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1.397 dgrid 1.3.0 1.3.0

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# Jackson JSON processor

Jackson is a high-performance, Free/Open Source JSON processing library. It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has been in development since 2007. It is currently developed by a community of developers, as well as supported commercially by FasterXML.com.

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1.404 libgcrypt 1.7.6 2+deb9u3

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mpi/hppa1.1/udiv-qrnd.S, mpi/hppa1.1/mpih-mul2.S,
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1.427 aspectj-tools 1.9.2

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

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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.)

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

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

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

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

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

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

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

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a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)
b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

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

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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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1.429 kryo-serializers 0.45

1.430 keyutils 1.5.9-9
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We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

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

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c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

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

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>>> ASM 4.0 (org.ow2.asm:asm)

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1.437 split-js 1.5.11
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1.439 backo2 1.0.2

1.440 core-js 1.2.7

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1.441 zlib 1.2.11.dfs 1
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File: src/main/java/org/apache/commons/ssl/ASN1Util.java
Changes: Removing Bouncy Castle classes and linking to the JAR instead.

File: src/main/java/org/apache/commons/ssl/KeyStoreBuilder.java
Changes: Fixing tryJKS to correctly return null for a potential PKCS12 file
with no key entry. This happens with cacerts in Java 9+ because of
the changes in JEP 229, because both JKS and PKCS12 files can now
be loaded using either the JKS or PKCS12 keystore type.
Replacing direct System.out calls with Logger calls.
Removing Bouncy Castle classes and linking to the JAR instead.

File: src/main/java/org/apache/commons/ssl/PKCS8Key.java
Changes: Removing Bouncy Castle classes and linking to the JAR instead.

File: src/main/java/org/apache/commons/ssl/*
Changes: Replacing direct printStackTrace calls with Logger calls, remove
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Files: src/main/java/org/apache/commons/ssl/org/bouncycastle/*
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The PKCS12 key derivation function was also developed by Bouncy Castle (Look for the "pkcs12()" method inside PKCS8.java).

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* org.eclipse.jetty.orbit:org.eclipse.jdt.core

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* org.eclipse.jetty.orbit:javax.security.auth.message

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* org.eclipse.jetty.orbit:javax.mail.glassfish

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The following artifacts are CDDL + GPLv2 with classpath exception.
https://glassfish.dev.java.net/nonav/public/CDDL/GPL.html

* javax.servlet;javax.servlet-api
* javax.annotation;javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

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Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.
http://openjdk.java.net/legal/gplv2+ce.html

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OW2

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org.ow2.asm:asm-commons
org.ow2.asm:asm

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Apache

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org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

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org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util
org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

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The following artifacts are CDDL + GPLv2 with classpath exception.

https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

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pnm2png / png2pnm --- conversion from PBM/PGM/PPM-file to PNG-file

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1.476 websocket-server 9.4.26.v20200117

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* org.eclipse.jetty.orbit:org.eclipse.jdt.core

The following artifacts are EPL and ASL2.
* org.eclipse.jetty.orbit:javax.security.auth.message

The following artifacts are EPL and CDDL 1.0.
* org.eclipse.jetty.orbit:javax.mail.glassfish

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Oracle

The following artifacts are CDDL + GPLv2 with classpath exception.
https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

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Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

* java.sun.security.ssl
These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.
http://openjdk.java.net/legal/gplv2+ce.html

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OW2

The following artifacts are licensed by the OW2 Foundation according to the terms of http://asm.ow2.org/license.html

org.ow2.asm:asm-commons
org.ow2.asm:asm

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Apache

The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

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MortBay

The following artifacts are ASL2 licensed. Based on selected classes from following Apache Tomcat jars, all ASL2 licensed.

org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

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Mortbay

The following artifacts are CDDL + GPLv2 with classpath exception.

https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain.jetty-schemas

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Assorted

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* /opt/ws_local/PERMITS_SQL/1001654294_1592507239.29/0/error-prone-annotations-2-1-3-sources-3-jar/com/google/errorprone/annotations/SuppressPackageLocation.java
1.492 component-bind 1.0.0

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1.493 animate 3.5.1
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#Animate.css

*Just-add-water CSS animation*

`animate.css` is a bunch of cool, fun, and cross-browser animations for you to use in your projects. Great for emphasis, home pages, sliders, and general just-add-water-awesomeness.

##Basic Usage

1. Include the stylesheet on your document's `<head>`

```html
<html>
<head>
    <link rel="stylesheet" href="animate.min.css">
</head>
</html>
```

2. Add the class `animated` to the element you want to animate.

You may also want to include the class `infinite` for an infinite loop.

3. Finally you need to add one of the following classes:

* `bounce`
* `flash`
* `pulse`
* `rubberBand`
* `shake`
* `headShake`
* `swing`
* `tada`
* `wobble`
* `jello`
* `bounceIn`
* `bounceInDown`
* `bounceInLeft`
* `bounceInRight`
* `bounceInUp`
* `bounceOut`
* `bounceOutDown`
* `bounceOutLeft`
* `bounceOutRight`
* `bounceOutUp`
* `fadeIn`
* `fadeInDown`
* `fadeInDownBig`
* `fadeInLeft`
* `fadeInLeftBig`
* `fadeInRight`
* `fadeInRightBig`
* `fadeInUp`
* `fadeInUpBig`
* `fadeOut`
* `fadeOutDown`
* `fadeOutDownBig`
* `fadeOutLeft`
* `fadeOutLeftBig`
* `fadeOutRight`
* `fadeOutRightBig`
* `fadeOutUp`
* `fadeOutUpBig`
* `flipInX`
* `flipInY`
* `flipOutX`
* `flipOutY`
* `lightSpeedIn`
* `lightSpeedOut`
* `rotateIn`
* `rotateInDownLeft`
* `rotateInDownRight`
* `rotateInUpLeft`
* `rotateInUpRight`
* `rotateOut`
* `rotateOutDownLeft`
* `rotateOutDownRight`
* `rotateOutUpLeft`
* `rotateOutUpRight`
* `hinge`
* `rollIn`
* `rollOut`
* `zoomIn`
* `zoomInDown`
* `zoomInLeft`
* `zoomInRight`
* `zoomInUp`
* `zoomOut`
* `zoomOutDown`
* `zoomOutLeft`
* `zoomOutRight`
* `zoomOutUp`
* `slideInDown`
* `slideInLeft`
* `slideInRight`
* `slideInUp`
* `slideOutDown`
* `slideOutLeft`
* `slideOutRight`
* `slideOutUp`

Full example:
```html
<h1 class="animated infinite bounce">Example</h1>
```

[Check out all the animations here!](https://daneden.github.io/animate.css/)

## Usage

To use animate.css in your website, simply drop the stylesheet into your document's `<head>`, and add the class `animated` to an element, along with any of the animation names. That's it! You've got a CSS animated element. Super!

```html
<head>
  <link rel="stylesheet" href="animate.min.css">
</head>
```

You can do a whole bunch of other stuff with animate.css when you combine it with jQuery or add your own CSS rules. Dynamically add animations using jQuery with ease:

```javascript
$('#yourElement').addClass('animated bounceOutLeft');
```

You can also detect when an animation ends:

```javascript
$('#yourElement').one('webkitAnimationEnd mozAnimationEnd MSAnimationEnd oanimationend animationend', doSomething);
```

[View a video tutorial](https://www.youtube.com/watch?v=CBQGl6zokMs) on how to use Animate.css with jQuery here.

**Note:** `jQuery.one()` is used when you want to execute the event handler at most *once*. More information [here](http://api.jquery.com/one/).

You can change the duration of your animations, add a delay or change the number of times that it plays:
```css
#yourElement {
  -vendor-animation-duration: 3s;
  -vendor-animation-delay: 2s;
  -vendor-animation-iteration-count: infinite;
}
```

*Note: be sure to replace "vendor" in the CSS with the applicable vendor prefixes (webkit, moz, etc)*

## Custom Builds

Animate.css is powered by [gulp.js](http://gulpjs.com/), and you can create custom builds pretty easily. First of all, you'll need Gulp and all other dependencies:

```sh
$ cd path/to/animate.css/
$ sudo npm install
```

Next, run `gulp` to compile your custom builds. For example, if you want only some of the attention seekers, simply edit the `animate-config.json` file to select only the animations you want to use.

```javascript
"attention_seekers": {
  "bounce": true,
  "flash": false,
  "pulse": false,
  "shake": true,
  "headShake": true,
  "swing": true,
  "tada": true,
  "wobble": true,
  "jello": true
}
```

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## Contributing

Pull requests are the way to go here. I apologise in advance for the slow action on pull requests and issues. I only have two rules for submitting a pull request: match the naming convention (camelCase, categorised [fades, bounces, etc]) and let us see a demo of submitted animations in a [pen](http://codepen.io). That last one is important.

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*
* Copyright (c) 2016 Daniel Eden
*/

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* /opt/ws_local/PERMITS_SQL/1047774661_1591200005.48/0/animate-css-3-5-1-src-zip/animate.css

1.494 nv-d3 1.8.6

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1.495 angular-uuid-secure 0.0.6

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1.496 boot-starter 2.2.4

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1.497 commons-lang3 3.8.1

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* /opt/ws_local/PERMITS_SQL/1023699204_1590037521.28/0/spring-integration-core-5-2-3-release-sources-jar/org/springframework/integration/dsl/FluxMessageChannelSpec.java
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* /opt/ws_local/PERMITS_SQL/1023699204_1590037521.28/0/spring-integration-core-5-2-3-release-sources-jar/org/springframework/integration/gateway/AnnotationGatewayProxyFactoryBean.java
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* /opt/ws_local/PERMITS_SQL/1023699204_1590037521.28/0/spring-integration-core-5-2-3-release-sources-jar/org/springframework/integration/transformer/MessageConverter.java
* /opt/ws_local/PERMITS_SQL/1023699204_1590037521.28/0/spring-integration-core-5-2-3-release-sources-jar/org/springframework/integration/transformer/PayloadSerializingTransformer.java
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* /opt/ws_local/PERMITS_SQL/1023699204_1590037521.28/0/spring-integration-core-5-2-3-release-sources-jar/org/springframework/integration/config/xml/AbstractXmlMessageBuilder.java
jar/org/springframework/integration/mapping/OutboundMessageMapper.java
* /opt/ws_local/PERMITS_SQL/1023699204_1590037521.28/0/spring-integration-core-5-2-3-release-sources-
jar/org/springframework/integration/core/AsyncMessagingOperations.java
* /opt/ws_local/PERMITS_SQL/1023699204_1590037521.28/0/spring-integration-core-5-2-3-release-sources-
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jar/org/springframework/integration/support/management/LifecycleMessageSourceMetrics.java
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jar/org/springframework/integration/gateway/GatewayMethodInboundMessageMapper.java
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engine - the jsr223 engine, some files need to be removed (sun javax stuff)
   peter jodeleit: these files are obsolete if java 1.5 support is dropped, the file are part of the jdk since 1.6

JUnit
   Common Public License - v 1.0

Deal with docs and build files, READMEs?
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* @author rob@iharder.net
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* org.eclipse.jetty.orbit:javax.mail.glassfish

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https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

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Oracle OpenJDK

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* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.
http://openjdk.java.net/legal/gplv2+ce.html

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org.ow2.asm:asm

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org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

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Mortbay

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https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

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1.527 spring-cloud-vault-config 2.2.0

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1.528 jaxb-runtime 2.3.1

1.529 xerces-j 2.11.0-17.el7_0

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lconfig, ltmain.sh). Another support script, install-sh, is copyright
by M.I.T. but is also freely distributable.

It appears that the arithmetic coding option of the JPEG spec is covered
by patents owned by IBM, AT&T, and Mitsubishi. Hence arithmetic coding
cannot legally be used without obtaining one or more licenses. For this
reason, support for arithmetic coding has been removed from the free
JPEG software. (Since arithmetic coding provides only a marginal gain
over the unpatented Huffman mode, it is unlikely that very many
implementations will support it.) So far as we are aware, there are
no patent restrictions on the remaining code.

The IJG distribution formerly included code to read and write GIF files.
To avoid entanglement with the Unisys LZW patent, GIF reading support
has been removed altogether, and the GIF writer has been simplified to
produce "uncompressed GIFs". This technique does not use the LZW algorithm;
the resulting GIF files are larger than usual, but are readable by all
standard GIF decoders.
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/* OPENBSD ORIGINAL: sys/sys/poll.h */

#if !defined(HAVE_POLL) && !defined(HAVE_POLL_H)
#ifndef _COMPAT_POLL_H_
#define _COMPAT_POLL_H_

typedef struct pollfd {
  int fd;
  short events;
  short revents;
} pollfd_t;

typedef unsigned int nfds_t;

#define POLLIN0x0001
#define POLLOUT0x0004
#define POLLERR0x0008
#define POLLHUP0x0010
#define POLLNVAL0x0020
#if 0
/* the following are currently not implemented */
#define POLLPRI0x0002
#define POLLRDNORM0x0040
#define POLLNORMPOLLRDNORM
#define POLLWRNORM POLLOUT
#define POLLRDBAND0x0080
#define POLLWRBAND0x0100
#endif

#define INFTIM(-1)/* not standard */

int poll(struct pollfd *, nfds_t, int);
#endif /* !_COMPAT_POLL_H_ */
#endif /* !HAVE_POLL_H */

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*
*/

#ifndef _BSD_WAITPID_H
#define _BSD_WAITPID_H

#ifndef HAVE_WAITPID
/* Clean out any potential issues */
#undef WIFEXITED
#undef WIFSTOPPED
#undef WIFSIGNALED

/* Define required functions to mimic a POSIX look and feel */
#define _W_INT(w) (*(int*)&(w)) /* convert union wait to int */
#define WIFEXITED(w) (!(_W_INT(w)) & 0377)
#define WIFSTOPPED(w) ((_W_INT(w)) & 0100)
#define WIFSIGNALED(w) (!WIFEXITED(w) && !WIFSTOPPED(w))
#define WEXITSTATUS(w) (int)(WIFEXITED(w) ? ((_W_INT(w) >> 8) & 0377) : -1)
#define WTERMSIG(w) (int)(WIFSIGNALED(w) ? (_W_INT(w) & 0177) : -1)
#define WCOREFLAG 0x80
#define WCOREDUMP(w) ((_W_INT(w)) & WCOREFLAG)

/* Prototype */
pid_t waitpid(int, int *, int);
#endif /* HAVE_WAITPID */
#endif /* _BSD_WAITPID_H */

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* @author Antoon Bosselaers <antoon.bosselaers@esat.kuleuven.ac.be>
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 */

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intsetresgid(gid_t, gid_t, gid_t);
#endif
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#endif
1.537 whatwg-fetch 3.0.0

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1.546 e2fsprogs 1.43.4 2+deb9u1

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#
# This is a Makefile stub which handles the creation of BSD shared libraries.
# In order to use this stub, the following makefile variables must be defined.
# BSDLIB_VERSION = 1.0
# BSDLIB_IMAGE = libce
# BSDLIB_MYDIR = et
# BSDLIB_INSTALL_DIR = $(SHLIBDIR)
#
all:: image

real-subdirs:: Makefile
@echo "MKDIR pic"
@mkdir -p pic

BSD_LIB = $(BSDLIB_IMAGE).so.$(BSDLIB_VERSION)
BSDLIB_PIC_FLAG = -fpic

image:$(BSD_LIB)

$(BSD_LIB): $(OBJ)
(cd pic; ld -Bshareable -o $((SHLIBS_SHLIB) $(LDFLAGS_SHLIB) $(OBJ)))
$(MV) pic/$((BSD_LIB) .
$(RM) -f ../$(BSD_LIB)
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Theodore Ts'o
23-June-2007

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Gadi Oxman, August 1995

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This is the Debian GNU/Linux prepackaged version of the Common Error Description library. It is currently distributed together with the EXT2 file system utilities, which are otherwise packaged as "e2fsprogs".

This package was put together by Yann Dirson <dirson@debian.org>, from sources obtained from a mirror of:
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This is the Debian GNU/Linux prepackaged version of the EXT2 file system utilities (e2fsck, mke2fs, etc.). The EXT2 utilities were written by Theodore Ts'o <tytso@mit.edu> and Remy Card <card@masi.ibp.fr>.

Sources were obtained from http://sourceforge.net/projects/e2fsprogs

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This is the Debian GNU/Linux prepackaged version of the ss command-line interface parsing library. It is currently distributed together with the EXT2 file system utilities, which are otherwise packaged as "e2fsprogs".
This package was put together by Yann Dirson <dirson@debian.org>,
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tsx-11.mit.edu:/pub/linux/packages/ext2fs/

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+++ tdbsa/tdb.c
@@ -4,11 +4,11 @@
Last Changed Date: 2007-06-06 20:14:06 -0400 (Wed, 06 Jun 2007)
*/
/*
- Unix SMB/CIFS implementation.
+ trivial database library - standalone version

- trivial database library - private includes
-  
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1.549 debianutils 4.8.6.1

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* org.eclipse.jetty.orbit:javax.mail.glassfish

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https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

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Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.
http://openjdk.java.net/legal/gplv2+ce.html

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org.ow2.asm:asm-commons
org.ow2.asm:asm

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Apache

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org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

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org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

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The following artifacts are CDDL + GPLv2 with classpath exception.

https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

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1.556 enum34 1.1.6-1

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1.562 adduser 3.115

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1.572 swagger-annotations 1.5.22

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 */

package io.swagger.annotations;

import java.lang.annotation.ElementType;
import java.lang.annotation.Retention;
import java.lang.annotation.RetentionPolicy;
import java.lang.annotation.Target;

/**
 * License metadata available within the info section of a Swagger definition, see
 * https://github.com/OAI/OpenAPI-Specification/blob/master/versions/2.0.md#licenseObject
 * @since 1.5.0
 */

@Target(ElementType.ANNOTATION_TYPE)
@Retention(RetentionPolicy.RUNTIME)
public @interface License {

/**
 * The name of the license.
 */

@Retention(RetentionPolicy.RUNTIME)
@Target(ElementType.ANNOTATION_TYPE)
public interface License {

/**
 * The name of the license.
 */
```
String name();

/**
 * An optional URL for the license.
 *
 * @return an optional URL for the license.
 */
String url() default "";
}

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X-ExtLoop1: 1
X-IronPort-AV: E=Sophos;i="5.33,278,1477983600";
d="scan208";a="812723074"
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src/topology/builder.c | 17 +++++++++++-
src/topology/channel.c | 17 +++++++++++-
src/topology/ctl.c     | 17 +++++++++++-
src/topology/dapm.c    | 17 +++++++++++-
src/topology/data.c    | 17 +++++++++++-
src/topology/elem.c    | 17 +++++++++++-
src/topology/ops.c     | 17 +++++++++--
src/topology/parser.c  | 17 +++++++++--
src/topology/pcm.c     | 17 +++++++++--
src/topology/text.c    | 17 +++++++++--
10 files changed, 90 insertions(+), 80 deletions(-)

diff --git a/src/topology/builder.c b/src/topology/builder.c
index 20fa925..dcd9e2a 100644
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index c2f1fea..8516b23 100644
--- a/src/topology/channel.c
+++ b/src/topology/channel.c
@@ -2,14 +2,15 @@
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        Yao Jin <yao.jin@intel.com>

diff --git a/src/topology/ops.c b/src/topology/ops.c
index 1b5c1e2..6f8dc1f 100644
--- a/src/topology/ops.c
+++ b/src/topology/ops.c
@@ -2,14 +2,15 @@
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index 303fbeb..cba6887 100644
--- a/src/topology/text.c
+++ b/src/topology/text.c
@@ -2,14 +2,15 @@
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2.9.3

1.590 engine.io-parser 1.3.2

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1.593 jnr-ffi 2.1.7

1.594 libcap-ng 0.7.9-2
1.594.1 Available under license:

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Version 2.1, February 1999

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* /opt/ws_local/PERMITS_SQL/1031928377_1588775188.2/0/spring-boot-actuator-autoconfigure-2-2-4-release-sources-jar/org/springframework/boot/actuate/autoconfigure/metrics/NoOpMeterRegistryConfiguration.java
* /opt/ws_local/PERMITS_SQL/1031928377_1588775188.2/0/spring-boot-actuator-autoconfigure-2-2-4-release-sources-jar/org/springframework/boot/actuate/autoconfigure/health/CompositeReactiveHealthIndicatorConfiguration.java
* /opt/ws_local/PERMITS_SQL/1031928377_1588775188.2/0/spring-boot-actuator-autoconfigure-2-2-4-release-
  sources-jar/org/springframework/boot/actuate/autoconfigure/metrics/export/prometheus/package-info.java
* /opt/ws_local/PERMITS_SQL/1031928377_1588775188.2/0/spring-boot-actuator-autoconfigure-2-2-4-release-
  sources-jar/org/springframework/boot/actuate/autoconfigure/metrics/export/graphite/GraphiteProperties.java
* /opt/ws_local/PERMITS_SQL/1031928377_1588775188.2/0/spring-boot-actuator-autoconfigure-2-2-4-release-
  sources-jar/org/springframework/boot/actuate/autoconfigure/metrics/MeterRegistryCustomizer.java
* /opt/ws_local/PERMITS_SQL/1031928377_1588775188.2/0/spring-boot-actuator-autoconfigure-2-2-4-release-
  sources-jar/org/springframework/boot/actuate/autoconfigure/ldap/LdapHealthContributorAutoConfiguration.java
* /opt/ws_local/PERMITS_SQL/1031928377_1588775188.2/0/spring-boot-actuator-autoconfigure-2-2-4-release-
  sources-jar/org/springframework/boot/actuate/autoconfigure/health/HealthContributorAutoConfiguration.java
* /opt/ws_local/PERMITS_SQL/1031928377_1588775188.2/0/spring-boot-actuator-autoconfigure-2-2-4-release-
  sources-jar/org/springframework/boot/actuate/autoconfigure/security/servlet/package-info.java
* /opt/ws_local/PERMITS_SQL/1031928377_1588775188.2/0/spring-boot-actuator-autoconfigure-2-2-4-release-
  sources-jar/org/springframework/boot/actuate/autoconfigure/couchbase/CouchbaseHealthContributorAutoConfiguration.java
* /opt/ws_local/PERMITS_SQL/1031928377_1588775188.2/0/spring-boot-actuator-autoconfigure-2-2-4-release-
  sources-jar/org/springframework/boot/actuate/autoconfigure/endpoint/web/reactive/package-info.java
* /opt/ws_local/PERMITS_SQL/1031928377_1588775188.2/0/spring-boot-actuator-autoconfigure-2-2-4-release-
  sources-jar/org/springframework/boot/actuate/autoconfigure/health/OnEnabledHealthIndicatorCondition.java
* /opt/ws_local/PERMITS_SQL/1031928377_1588775188.2/0/spring-boot-actuator-autoconfigure-2-2-4-release-
  sources-jar/org/springframework/boot/actuate/autoconfigure/influx/package-info.java
* /opt/ws_local/PERMITS_SQL/1031928377_1588775188.2/0/spring-boot-actuator-autoconfigure-2-2-4-release-
  sources-jar/org/springframework/boot/actuate/autoconfigure/web/servlet/ManagementServletContext.java
* /opt/ws_local/PERMITS_SQL/1031928377_1588775188.2/0/spring-boot-actuator-autoconfigure-2-2-4-release-
  sources-jar/org/springframework/boot/actuate/autoconfigure/cloudfoundry/CloudFoundryEndpointFilter.java
* /opt/ws_local/PERMITS_SQL/1031928377_1588775188.2/0/spring-boot-actuator-autoconfigure-2-2-4-release-
  sources-jar/org/springframework/boot/actuate/autoconfigure/metrics/JvmMetricsAutoConfiguration.java
* /opt/ws_local/PERMITS_SQL/1031928377_1588775188.2/0/spring-boot-actuator-autoconfigure-2-2-4-release-
  sources-jar/org/springframework/boot/actuate/autoconfigure/metrics/export/elastic/ElasticMetricsExportAutoConfiguration.java
* /opt/ws_local/PERMITS_SQL/1031928377_1588775188.2/0/spring-boot-actuator-autoconfigure-2-2-4-release-
  sources-jar/org/springframework/boot/actuate/autoconfigure/redis/RedisReactiveHealthContributorAutoConfiguration.java
* /opt/ws_local/PERMITS_SQL/1031928377_1588775188.2/0/spring-boot-actuator-autoconfigure-2-2-4-release-
  sources-jar/org/springframework/boot/actuate/autoconfigure/health/HealthAggregatorStatusAggregatorAdapter.java
* /opt/ws_local/PERMITS_SQL/1031928377_1588775188.2/0/spring-boot-actuator-autoconfigure-2-2-4-release-sources-jar/org/springframework/boot/actuate/autoconfigure/flyway/package-info.java

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sources-jar/org/springframework/boot/actuate/autoconfigure/metrics/export/simple/SimpleProperties.java
* /opt/ws_local/PERMITS_SQL/1031928377_1588775188.2/0/spring-boot-actuator-autoconfigure-2-2-4-release-
sources-jar/org/springframework/boot/actuate/autoconfigure/info/package-info.java
* /opt/ws_local/PERMITS_SQL/1031928377_1588775188.2/0/spring-boot-actuator-autoconfigure-2-2-4-release-
sources-jar/org/springframework/boot/actuate/autoconfigure/metrics/export/ganglia/GangliaProperties.java
* /opt/ws_local/PERMITS_SQL/1031928377_1588775188.2/0/spring-boot-actuator-autoconfigure-2-2-4-release-
sources-jar/org/springframework/boot/actuate/autoconfigure/management/ThreadDumpEndpointAutoConfiguration.java
* /opt/ws_local/PERMITS_SQL/1031928377_1588775188.2/0/spring-boot-actuator-autoconfigure-2-2-4-release-
sources-jar/org/springframework/boot/actuate/autoconfigure/metrics/orm/jpa/HibernateMetricsAutoConfiguration.java
* /opt/ws_local/PERMITS_SQL/1031928377_1588775188.2/0/spring-boot-actuator-autoconfigure-2-2-4-release-
sources-jar/org/springframework/boot/actuate/autoconfigure/web/servlet/ManagementErrorEndpoint.java
* /opt/ws_local/PERMITS_SQL/1031928377_1588775188.2/0/spring-boot-actuator-autoconfigure-2-2-4-release-
sources-jar/org/springframework/boot/actuate/autoconfigure/web/server/ManagementWebServerFactoryCustomizer.java
* /opt/ws_local/PERMITS_SQL/1031928377_1588775188.2/0/spring-boot-actuator-autoconfigure-2-2-4-release-
sources-jar/org/springframework/boot/actuate/autoconfigure/session/SessionsEndpointAutoConfiguration.java
* /opt/ws_local/PERMITS_SQL/1031928377_1588775188.2/0/spring-boot-actuator-autoconfigure-2-2-4-release-
sources-jar/org/springframework/boot/actuate/autoconfigure/metrics/export/humio/HumioProperties.java
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* /opt/ws_local/PERMITS_SQL/1031928377_1588775188.2/0/spring-boot-actuator-autoconfigure-2-2-4-release-sources-jar/org/springframework/boot/actuate/autoconfigure/trace/http/HttpTraceProperties.java
* /opt/ws_local/PERMITS_SQL/1031928377_1588775188.2/0/spring-boot-actuator-autoconfigure-2-2-4-release-sources-
jar/org/springframework/boot/actuate/autoconfigure/metrics/web/client/HttpClientMetricsAutoConfiguration.java
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* /opt/ws_local/PERMITS_SQL/1031928377_1588775188.2.jar/org/springframework/boot/actuate/autoconfigure/metrics/web/client/HttpClientMetricsAutoConfiguration.java
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org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
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org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
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* /opt/ws_local/PERMITS_SQL/1026753737_1591204582.11/0/spring-oxm-5-2-3-release-sources-jar/org/springframework/oxm/Marshaller.java
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* /opt/ws_local/PERMITS_SQL/1026753737_1591204582.11/0/spring-oxm-5-2-3-release-sources-
jar/org/springframework/oxm/GenericUnmarshaller.java
* /opt/ws_local/PERMITS_SQL/1026753737_1591204582.11/0/spring-oxm-5-2-3-release-sources-jar/org/springframework/oxm/GenericMarshaller.java
* /opt/ws_local/PERMITS_SQL/1026753737_1591204582.11/0/spring-oxm-5-2-3-release-sources-jar/org/springframework/oxm/mime/MimeContainer.java
* /opt/ws_local/PERMITS_SQL/1026753737_1591204582.11/0/spring-oxm-5-2-3-release-sources-jar/org/springframework/oxm/mime/MimeMarshaller.java
* /opt/ws_local/PERMITS_SQL/1026753737_1591204582.11/0/spring-oxm-5-2-3-release-sources-jar/org/springframework/oxm/mime/MimeUnmarshaller.java
* /opt/ws_local/PERMITS_SQL/1026753737_1591204582.11/0/spring-oxm-5-2-3-release-sources-jar/org/springframework/oxm/XmlMappingException.java
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* /opt/ws_local/PERMITS_SQL/1026753737_1591204582.11/0/spring-oxm-5-2-3-release-sources-jar/org/springframework/oxm/UnmarshallingFailureException.java
* /opt/ws_local/PERMITS_SQL/1026753737_1591204582.11/0/spring-oxm-5-2-3-release-sources-jar/org/springframework/oxm/MarshallingFailureException.java
* /opt/ws_local/PERMITS_SQL/1026753737_1591204582.11/0/spring-oxm-5-2-3-release-sources-jar/org/springframework/oxm/MarshallingException.java
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* /opt/ws_local/PERMITS_SQL/1026753737_1591204582.11/0/spring-oxm-5-2-3-release-sources-jar/org/springframework/oxm/mime/MimeUnmarshaller.java
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* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

* java.sun.security.ssl

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org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util

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1.606 vdom-virtualize 2.0.0
1.606.1 Available under license:
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Found in path(s):
* /opt/ws_local/PERMITS_SQL/1047774556_1590612060.18/0/vdom-virtualize-2-0-0-1-tgz/package/index.js

1.607 e2fsprogs 1.45.5-2~bpo10+1

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Theodore Ts'o
23-June-2007

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That's all there is to it!
This is the Debian GNU/Linux prepackaged version of the static EXT2 file system consistency checker (e2fsck.static). The EXT2 utilities were written by Theodore Ts'o <tytso@mit.edu> and Remy Card <card@masi.ibp.fr>.

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#
# In order to use this stub, the following makefile variables must be defined.
#
# BSDLIB_VERSION = 1.0
# BSDLIB_IMAGE = libce
# BSDLIB_MYDIR = et
# BSDLIB_INSTALL_DIR = $(SHLIBDIR)
#
all:: image

real-subdirs:: Makefile
@echo "MKDIR pic"
@mkdir -p pic

BSD_LIB = $(BSDLIB_IMAGE).so.$(BSDLIB_VERSION)
BSDLIB_PIC_FLAG = -fpic

image:$(BSD_LIB)

$(BSD_LIB): $(OBJS)
(cd pic; ld -Bshareable -o $(BSD_LIB) $(LDFLAGS_SHLIB) $(OBJS))
$(MV) pic/$(BSD_LIB) .
$(RM) -f ../$(BSD_LIB)
(cd ..; $(LN) $(LINK_BUILD_FLAGS) "$(my_dir) | sed -e 's;lib/;;'" $(BSD_LIB) $(BSD_LIB))

install-shlibs install:: $(BSD_LIB)
@echo "INSTALL_PROGRAM $(BSDLIB_INSTALL_DIR)/$(BSD_LIB)"
@$(INSTALL_PROGRAM) $(BSD_LIB) \$(DESTDIR)$BSDLIB_INSTALL_DIR/$(BSD_LIB)
@-$(LDCONFIG)

install-strip: install

install-shlibs-strip:: install-shlibs

uninstall-shlibs uninstall::
$(RM) -f $(DESTDIR)$BSDLIB_INSTALL_DIR/$(BSD_LIB)

clean::
$(RM) -rf pic
$(RM) -f $(BSD_LIB)
$(RM) -f ../$(BSD_LIB)

This package was added to the e2fsprogs debian source package by Theodore Ts'o <tytso@mit.edu> on Sat Mar 15 15:33:37 EST 2003

It is part of the main e2fsprogs distribution, which can be found at:
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Index: tdbsa/tdb.c

===================================================================
--- tdbsa.orig/tdb.c
+++ tdbsa/tdb.c
@@ -4,11 +4,11 @@
Last Changed Date: 2007-06-06 20:14:06 -0400 (Wed, 06 Jun 2007)
*/
/*
- Unix SMB/CIFS implementation.
+ trivial database library - standalone version

- trivial database library - private includes
-
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This is the Debian GNU/Linux prepackaged version of the Common Error Description library. It is currently distributed together with the EXT2 file system utilities, which are otherwise packaged as "e2fsprogs".

This package was put together by Yann Dirson <dirson@debian.org>,
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Gadi Oxman, August 1995

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This is the Debian GNU/Linux prepackaged version of the ss command-line interface parsing library. It is currently distributed together with the EXT2 file system utilities, which are otherwise packaged as "e2fsprogs".

This package was put together by Yann Dirson <dirson@debian.org>, from sources obtained from a mirror of:
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This package was added to the e2fsprogs debian source package by Theodore Ts'o <tytso@mit.edu> on Fri Dec 14 22:24:35 EST 2007

It is part of the main e2fsprogs distribution, which can be found at:

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This is the Debian GNU/Linux prepackaged version of the EXT2 file system utilities (e2fsck, mke2fs, etc.). The EXT2 utilities were written by Theodore Ts'o <tytso@mit.edu> and Remy Card <card@masi.ibp.fr>.

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1.608 apt 1.4.9

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* org.eclipse.jetty.orbit:javax.mail.glassfish

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https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

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OpenJDK
If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions. http://openjdk.java.net/legal/gplv2+ce.html

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OW2

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org.ow2.asm:asm-commons
org.ow2.asm:asm

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Apache

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org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

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MortBay

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org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
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org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util
org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

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https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

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1.629 jul-to-slf4j 1.7.30

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1.630 cdebconf 0.227

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1.631 accessors-smart 1.2

1.632 react-lifecycles-compat 3.0.4

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1.633 brave-instrumentation-rpc 5.9.0

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* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

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* java.sun.security.ssl

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org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util
org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

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https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

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1.643 style-loader 0.19.1

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## Install
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```

## Usage
```
```
```

## Selective hash usage
```
```
```

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1.665 ms 2.1.2
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1.666 process-nextick-args 2.0.1

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1.668 apache-xml-rpc-client-library 3.1.2

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1.669 spring-context 5.2.3

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1.677 netty-handler-proxy 4.1.32

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1.679 jnr-posix 3.0.44

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combination of the three, merge those two alternatives to suit the
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@c Local Variables:
@c ispell-local-pdict: "ispell-dict"
@c End:

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Version 2.1, February 1999

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Version 3, 29 June 2007

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Eclipse

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* org.eclipse.jetty.orbit:org.eclipse.jdt.core

The following artifacts are EPL and ASL2.
* org.eclipse.jetty.orbit:javax.security.auth.message

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* org.eclipse.jetty.orbit:javax.mail.glassfish

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Oracle

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https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

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Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following
artifacts may be included in the distribution or downloaded when ALPN
module is selected.

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications
are hosted at github and both modified and original are under GPL v2 with
classpath exceptions.
http://openjdk.java.net/legal/gplv2+ce.html

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OW2

The following artifacts are licensed by the OW2 Foundation according to the terms of http://asm.ow2.org/license.html

org.ow2.asm:asm-commons
org.ow2.asm:asm

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Apache

The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

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MortBay

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org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

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Mortbay

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1.688 sed 4.7 1

1.688.1 Available under license :

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implementations will support it.) So far as we are aware, there are
no patent restrictions on the remaining code.

The IJG distribution formerly included code to read and write GIF files.
To avoid entanglement with the Unisys LZW patent, GIF reading support
has been removed altogether, and the GIF writer has been simplified to
produce "uncompressed GIFs". This technique does not use the LZW algorithm;
the resulting GIF files are larger than usual, but are readable by all
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1.709 minimalistic-crypto-utils 1.0.1

1.710 libsemanage 2.6-2

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1.711 bzip2 1.0.6 9.2~deb10u1
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bzip2/libbzip2 version 1.0.8 of 13 July 2019

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1.712 apt 1.8.2
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1.713 quartz 2.3.0

1.714 micrometer-registry-prometheus 1.3.2

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1.715 glibc 2.28-10

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1.753 xz 5.2.4 1

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1.754 httpcomponents-client 4.5.9

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1.755 wtf-8 1.0.0

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1.756 angular-compiler 9.0.7

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1.757 feign-hystrix 10.4.0

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1.758 base-passwd 3.5.43

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    var w = document.getElementById("searchmenu");
    if( w.style.display=="block" ){
        w.style.display = "none";
    } else {
        w.style.display = "block";
        setTimeout(function(){
            document.getElementById("searchbox").focus()
        }, 30);
    }
}

function div_off(nm){document.getElementById(nm).style.display="none";}
window.onbeforeunload = function(e){div_off("submenu");}

/* Disable the Search feature if we are not operating from CGI, since */
/* Search is accomplished using CGI and will not work without it. */
if( !location.origin.match || !location.origin.match(/http/) ){
    document.getElementById("search_menubutton").style.display = "none";
}

/* Used by the Hide/Show button beside syntax diagrams, to toggle the */
function hideorshow(btn,obj){
    var x = document.getElementById(obj);
    var b = document.getElementById(btn);
    if( x.style.display!='none' ){
        x.style.display = 'none';
        b.innerHTML='show';
    }else{
        x.style.display = "";
        b.innerHTML='hide';
    }
    return false;
}
</script>
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1.767 isomorphic-fetch 2.2.1
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  jar/org/springframework/messaging/core/DestinationResolver.java
* /opt/ws_local/PERMITS_SQL/1023699194_1590036959.83/0/spring-messaging-5-2-3-release-sources-
  jar/org/springframework/messaging/simp/broker/AbstractBrokerMessageHandler.java
* /opt/ws_local/PERMITS_SQL/1023699194_1590036959.83/0/spring-messaging-5-2-3-release-sources-
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/* /opt/ws_local/PERMITS_SQL/1023699194_1590036959.83/0/spring-messaging-5-2-3-release-sources-jar/org/springframework/messaging/support/MessageHeaderAccessor.java */
/* /opt/ws_local/PERMITS_SQL/1023699194_1590036959.83/0/spring-messaging-5-2-3-release-sources-jar/org/springframework/messaging/simp/broker/OrderedMessageSender.java */
/* /opt/ws_local/PERMITS_SQL/1023699194_1590036959.83/0/spring-messaging-5-2-3-release-sources-jar/org/springframework/messaging/handler/invocation/reactive/ArgumentResolverConfigurer.java */
/* /opt/ws_local/PERMITS_SQL/1023699194_1590036959.83/0/spring-messaging-5-2-3-release-sources-jar/org/springframework/messaging/handler/invocation/reactive/HandlerMethodArgumentResolver.java */
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/* /opt/ws_local/PERMITS_SQL/1023699194_1590036959.83/0/spring-messaging-5-2-3-release-sources-jar/org/springframework/messaging/support/ExecutorSubscribableChannel.java */
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/* /opt/ws_local/PERMITS_SQL/1023699194_1590036959.83/0/spring-messaging-5-2-3-release-sources-jar/org/springframework/messaging/core/DestinationResolutionException.java */
/* /opt/ws_local/PERMITS_SQL/1023699194_1590036959.83/0/spring-messaging-5-2-3-release-sources-jar/org/springframework/messaging/core/MessageDeliveryException.java */
/* /opt/ws_local/PERMITS_SQL/1023699194_1590036959.83/0/spring-messaging-5-2-3-release-sources-jar/org/springframework/messaging/PollableChannel.java */
/* /opt/ws_local/PERMITS_SQL/1023699194_1590036959.83/0/spring-messaging-5-2-3-release-sources-jar/org/springframework/messaging/support/ExecutorSubscribableChannel.java */
jar/org/springframework/messaging/core/MessagePostProcessor.java

* /opt/ws_local/PERMITS_SQL/1023699194_1590036959.83/0/spring-messaging-5-2-3-release-sources-
jar/org/springframework/messaging/simp/stomp/StompConversionException.java

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* /opt/ws_local/PERMITS_SQL/1023699194_1590036959.83/0/spring-messaging-5-2-3-release-sources-jar/org/springframework/messaging/handler/annotation/reactive/AbstractNamedValueMethodArgumentResolver.java
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* /opt/ws_local/PERMITS_SQL/1023699194_1590036959.83/0/spring-messaging-5-2-3-release-sources-jar/org/springframework/messaging/simp/SimpMessagingTemplate.java
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* /opt/ws_local/PERMITS_SQL/1023699194_1590036959.83/0/spring-messaging-5-2-3-release-sources-jar/org/springframework/messaging/handler/annotation/support/MessageHandlerMethodFactory.java
* /opt/ws_local/PERMITS_SQL/1023699194_1590036959.83/0/spring-messaging-5-2-3-release-sources-jar/org/springframework/messaging/convertor/SimpleMessageConverter.java
* /opt/ws_local/PERMITS_SQL/1023699194_1590036959.83/0/spring-messaging-5-2-3-release-sources-jar/org/springframework/messaging/handler/invocation/reactive/InvocableHandlerMethod.java
* /opt/ws_local/PERMITS_SQL/1023699194_1590036959.83/0/spring-messaging-5-2-3-release-sources-jar/org/springframework/messaging/handler/annotation/reactive/AbstractNamedValueMethodArgumentResolver.java
* /opt/ws_local/PERMITS_SQL/1023699194_1590036959.83/0/spring-messaging-5-2-3-release-sources-jar/org/springframework/messaging/rsocket/annotation/support/RSocketMessageHandler.java
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* /opt/ws_local/PERMITS_SQL/1023699194_1590036959.83/0/spring-messaging-5-2-3-release-sources-jar/org/springframework/messaging/handler/invocation/reactive/ChannelSendOperator.java
* /opt/ws_local/PERMITS_SQL/1023699194_1590036959.83/0/spring-messaging-5-2-3-release-sources-jar/org/springframework/messaging/converter/MarshallingMessageConverter.java
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* /opt/ws_local/PERMITS_SQL/1023699194_1590036959.83/0/spring-messaging-5-2-3-release-sources-jar/org/springframework/messaging/tcp/TcpOperations.java
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 */
/**
 * Set the max pool size of the ThreadPoolExecutor.
 * <p><strong>NOTE:</strong> When an unbounded
 * <strong>@link queueCapacity(int) queueCapacity</strong> is configured (the default), the
 * max pool size is effectively ignored. See the "Unbounded queues" strategy
 * <strong>@link java.util.concurrent.ThreadPoolExecutor ThreadPoolExecutor</strong> for
 * more details.
 * <p>By default this is set to <strong>@code Integer.MAX_VALUE</strong>.
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1.772 hoist-non-react-statics 3.3.0

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1.773 java-getopt 1.0.13

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

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

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

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

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

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* DNS resolver (dirmngr/dns.c)

dns.c - Recursive, Reentrant DNS Resolver.

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1.780 httpcomponents-core 4.4.13

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1.781 spring-data-cassandra 2.2.4

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man/funopen.3bsd
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1.790 debianutils 4.8.1.1

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1.791 nss 3.26.2 1.1+deb9u1

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1.802 python-cffi 1.9.1-2

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1.803 netty-buffer 4.1.45

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1.804 string_decoder 1.1.1

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1.805 webapp-runner-main 8.5.15.1

1.806 spring-beans 5.2.3

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

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

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

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

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

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

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

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1.810 init-system-helpers 1.56+nmu1

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1.816 javax-websocket-client-impl

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* org.eclipse.jetty.orbit:javax.security.auth.message

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https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

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Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

* java.sun.security.ssl

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org.ow2.asm:asm-commons
org.ow2.asm:asm

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org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

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org.apache.tomcat:tomcat-jasper
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org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util
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org.apache.tomcat:tomcat-jasper-el
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org.eclipse.jetty.toolchain:jetty-schemas
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1.819 acl 2.2.53-4

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 */
```

Found in path(s):
- `/opt/ws_local/PERMITS_SQL/1018366213_1591904026.58/0/asm-5-0-3-sources-jar/org/objectweb/asm/ClassVisitor.java`
- `/opt/ws_local/PERMITS_SQL/1018366213_1591904026.58/0/asm-5-0-3-sources-jar/org/objectweb/asm/MethodWriter.java`
* /opt/ws_local/PERMITS_SQL/1018366213_1591904026.58/0/asm-5-0-3-sources-jar/org/objectweb/asm/Context.java
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* /opt/ws_local/PERMITS_SQL/1018366213_1591904026.58/0/asm-5-0-3-sources-jar/org/objectweb/asm/tree/AnnotationNode.java
* /opt/ws_local/PERMITS_SQL/1018366213_1591904026.58/0/asm-5-0-3-sources-jar/org/objectweb/asm/commons/LocalVariablesSorter.java
* /opt/ws_local/PERMITS_SQL/1018366213_1591904026.58/0/asm-5-0-3-sources-jar/org/objectweb/asm/util/TraceSignatureVisitor.java
* /opt/ws_local/PERMITS_SQL/1018366213_1591904026.58/0/asm-5-0-3-sources-jar/org/objectweb/asm/tree/analysis/Interpreter.java
* /opt/ws_local/PERMITS_SQL/1018366213_1591904026.58/0/asm-5-0-3-sources-jar/org/objectweb/asm/ByteVector.java
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* /opt/ws_local/PERMITS_SQL/1018366213_1591904026.58/0/asm-5-0-3-sources-jar/org/objectweb/asm/tree/AbstractInsnNode.java
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* /opt/ws_local/PERMITS_SQL/1018366213_1591904026.58/0/asm-5-0-3-sources-jar/org/objectweb/asm/commons/StaticInitMerger.java
* /opt/ws_local/PERMITS_SQL/1018366213_1591904026.58/0/asm-5-0-3-sources-jar/org/objectweb/asm/optimizer/Constant.java
* /opt/ws_local/PERMITS_SQL/1018366213_1591904026.58/0/asm-5-0-3-sources-jar/org/objectweb/asm/Frame.java
* /opt/ws_local/PERMITS_SQL/1018366213_1591904026.58/0/asm-5-0-3-sources-jar/org/objectweb/asm/Handler.java
* /opt/ws_local/PERMITS_SQL/1018366213_1591904026.58/0/asm-5-0-3-sources-jar/org/objectweb/asm/tree/FrameNode.java
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* /opt/ws_local/PERMITS_SQL/1018366213_1591904026.58/0/asm-5-0-3-sources-jar/org/objectweb/asm/ASMifier.java
* /opt/ws_local/PERMITS_SQL/1018366213_1591904026.58/0/asm-5-0-3-sources-jar/org/objectweb/asm/tree/InvokeDynamicInsnNode.java
* /opt/ws_local/PERMITS_SQL/1018366213_1591904026.58/0/asm-5-0-3-sources-jar/org/objectweb/asm/signature/SignatureVisitor.java
* /opt/ws_local/PERMITS_SQL/1018366213_1591904026.58/0/asm-5-0-3-sources.jar/org/objectweb/asm/tree/analysis/SourceInterpreter.java
* /opt/ws_local/PERMITS_SQL/1018366213_1591904026.58/0/asm-5-0-3-sources.jar/org/objectweb/asm/optimizer/ClassOptimizer.java
* /opt/ws_local/PERMITS_SQL/1018366213_1591904026.58/0/asm-5-0-3-sources.jar/org/objectweb/asm/tree/LocalVariableNode.java
* /opt/ws_local/PERMITS_SQL/1018366213_1591904026.58/0/asm-5-0-3-sources.jar/org/objectweb/asm/tree/analysis/BasicVerifier.java
* /opt/ws_local/PERMITS_SQL/1018366213_1591904026.58/0/asm-5-0-3-sources.jar/org/objectweb/asm/signature/Sig
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 */
/**
 * Creates a new {@link AnalyzerAdapter}. <i>Subclasses must not use this
 * constructor</i>. Instead, they must use the
 * [ @link #AnalyzerAdapter(int, String, int, String, String, MethodVisitor) ]
 * version.
 *
 * @param owner
 * the owner's class name.
 * @param access
 * the method's access flags (see [ @link Opcodes ]).
 * @param name

* /opt/ws_local/PERMITS_SQL/1018366213_1591904026.58/0/asm-5-0-3-sources-jar/org/objectweb/asm/FieldVisitor.java
* /opt/ws_local/PERMITS_SQL/1018366213_1591904026.58/0/asm-5-0-3-sources-jar/org/objectweb/asm/tree/analysis/Analyzer.java
* /opt/ws_local/PERMITS_SQL/1018366213_1591904026.58/0/asm-5-0-3-sources-jar/org/objectweb/asm/tree/TryCatchBlockNode.java
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/***
* the method's name.
* @param desc
  * the method's descriptor (see [@link Type Type]).
* @param mv
  * the method visitor to which this adapter delegates calls. May
  * be <tt>null</tt>.
* @throws IllegalStateException
  * If a subclass calls this constructor.
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1018366213_1591904026.58/0/asm-5-0-3-sources-
  jar/org/objectweb/asm/commons/AnalyzerAdapter.java

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  jar/org/objectweb/asm/xml/SAXClassAdapter.java
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*/
/**
* Constructs a new [ @link LocalVariableAnnotationNode ] . <i>Subclasses must
* not use this constructor</i> . Instead, they must use the
* [ @link #LocalVariableAnnotationNode(int, TypePath, LabelNode[], LabelNode[], int[], String) ]
* version.
*/
* @param typeRef
*          a reference to the annotated type. See {@link TypeReference}.
* @param typePath
*          the path to the annotated type argument, wildcard bound, array
*          element type, or static inner type within 'typeRef'. May be
*          <tt>null</tt> if the annotation targets 'typeRef' as a whole.
* @param start
*          the first instructions corresponding to the continuous ranges
*          that make the scope of this local variable (inclusive).
* @param end
*          the last instructions corresponding to the continuous ranges
*          that make the scope of this local variable (exclusive). This
*          array must have the same size as the 'start' array.
* @param index
*          the local variable's index in each range. This array must have
*          the same size as the 'start' array.
* @param desc
*          the class descriptor of the annotation class.
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1018366213_1591904026.58/0/asm-5-0-3-sources-
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/**
 * Constructs a new [@link Textifier]. <i>Subclasses must not use this
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 *
 * @throws IllegalStateException
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 */
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jar/org/objectweb/asm/util/ASMifiable.java
* /opt/ws_local/PERMITS_SQL/1018366213_1591904026.58/0/asm-5-0-3-sources-
jar/org/objectweb/asm/util/Textifiable.java
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* /opt/ws_local/PERMITS_SQL/1018366213_1591904026.58/0/asm-5-0-3-sources-jar/org/objectweb/asm/TypeReference.java

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/**
 * Constructs a new [@link ClassNode]. <i>Subclasses must not use this
 * constructor</i>. Instead, they must use the [@link #ClassNode(int)]
 * version.
 *
 * @throws IllegalStateException
 * If a subclass calls this constructor.
 */
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/**
 * Creates a new JSRInliner. <i>Subclasses must not use this
 * constructor</i>. Instead, they must use the
 * [ @link JSRInlinerAdapter(int, MethodVisitor, int, String, String, String, String[])]
 * version.
 *
 * @param mv
 * the <code>MethodVisitor</code> to send the resulting inlined
 * method code to (use <code>null</code> for none).
 * @param access
 * the method's access flags (see [ @link Opcodes]). This
 * parameter also indicates if the method is synthetic and/or
 * deprecated.
 * @param name
* the method's name.
* @param desc
* the method’s descriptor (see [Type]).
* @param signature
* the method's signature. May be <tt>null</tt>.
* @param exceptions
* the internal names of the method's exception classes (see
* getInternalName). May be <tt>null</tt>.
* @throws IllegalStateException
* If a subclass calls this constructor.
*/

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/**
* Creates a new {@link GeneratorAdapter}. <i>Subclasses must not use this
* constructor</i>. Instead, they must use the
* [ {@link #GeneratorAdapter(int, MethodVisitor, int, String, String)}]
* version.
*
* @param mv
* the method visitor to which this adapter delegates calls.
* @param access
* the method's access flags (see {@link Opcodes}).
* @param name
* the method's name.
* @param desc
* the method's descriptor (see {@link Type Type}).
* @throws IllegalStateException
* If a subclass calls this constructor.
*/

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1.821 diffutils 3.7 3

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1.822 ms 2.0.0

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1.823 to-array 0.1.4

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1.824 angular-breadcrumb 0.4.1

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1.825 fast-infoset 1.2.15

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These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.
3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

   a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

   b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

   c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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Appendix: How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) 19yy  <name of author>

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

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Also add information on how to contact you by electronic and paper mail.

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

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[This is the first released version of the library GPL. It is numbered 2 because it goes with version 2 of the ordinary GPL.]

Preamble

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To protect your rights, we need to make restrictions that forbid
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Most GNU software, including some libraries, is covered by the ordinary GNU General Public License, which was designed for utility programs. This license, the GNU Library General Public License, applies to certain designated libraries. This license is quite different from the ordinary one; be sure to read it in full, and don't assume that anything in it is the same as in the ordinary license.

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

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

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

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

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

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A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.
Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

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You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) The modified work must itself be a software library.

b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)
These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

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

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

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

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

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

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

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

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

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

c) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

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

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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Appendix: How to Apply These Terms to Your New Libraries

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Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the library, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the library `Frob' (a library for tweaking knobs) written by James Random Hacker.

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

That's all there is to it!

1.831 gmp 6.1.2+dfsg 1

1.831.1 Available under license:

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* /opt/ws_local/PERMITS_SQL/1026753736_1590037547.45/0/spring-context-support-5-2-3-release-sources-
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Eclipse

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* org.eclipse.jetty.orbit:org.eclipse.jdt.core

The following artifacts are EPL and ASL2.
* org.eclipse.jetty.orbit:javax.security.auth.message

The following artifacts are EPL and CDDL 1.0.
* org.eclipse.jetty.orbit:javax.mail.glassfish

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Oracle

The following artifacts are CDDL + GPLv2 with classpath exception.
https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

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Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.
http://openjdk.java.net/legal/gplv2+ce.html
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OW2

The following artifacts are licensed by the OW2 Foundation according to the terms of http://asm.ow2.org/license.html

org.ow2.asm:asm-commons
org.ow2.asm:asm

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Apache

The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

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MortBay

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org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

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Mortbay

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https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html
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1.840 parseuri 0.0.5
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