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1.14 json-java 20140107

1.15 cpp 8.3.0-6

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Configuration.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/security/jacoco/JacocoProperties.java
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jar/org/springframework/boot/autoconfigure/couchbase/CouchbaseProperties.java
* /opt/ws_local/PERMITS_SQL/1023699190_1588775090.54/0/spring-boot-autoconfigure-2-2-4-release-sources-
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* /opt/ws_local/PERMITS_SQL/1023699190_1588775090.54/0/spring-boot-autoconfigure-2-2-4-release-sources-
jar/org/springframework/boot/autoconfigure/web/embedded/TomcatWebServerFactoryCustomizer.java
* /opt/ws_local/PERMITS_SQL/1023699190_1588775090.54/0/spring-boot-autoconfigure-2-2-4-release-sources-
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* /opt/ws_local/PERMITS_SQL/1023699190_1588775090.54/0/spring-boot-autoconfigure-2-2-4-release-sources-
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1.18 libbsd 0.8.3-1

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man/closefrom.3
man/flopen.3
man/getpeereid.3
man/pidfile.3
src/expand_number.c
src/hash/sha512.h
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man/strlcpy.3
man/strtonum.3
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src/arc4random_openbsd.h
src/arc4random_uniform.c
src/arc4random_unix.h
src/closefrom.c
src/getentropy_aix.c
src/getentropy_bsd.c
src/getentropy_hpux.c
src/getentropy_hurd.c
src/getentropy_hurd.c
src/getentropy_osx.c
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1.34 byte-buddy-dep 1.8.22

1.35 has-binary 0.1.7

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9.4.26.v20200117
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https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

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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
org.ow2.asm:asm

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org.apache.taglibs:taglibs-standard-impl

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org.apache.tomcat:tomcat-jasper
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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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https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

Assorted

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<signature of Ty Coon>, 1 April 1989
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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 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) = $output =~ /copyright 1987.*\b\d{4,}/i
            or die "Copyright statement not found in perl -v output '$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>.,"
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

1.43 spring-cloud-starter-sleuth 2.2.0
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/**
 * Create a transactional EntityManager proxy for the given EntityManagerFactory.
 * @param emf the EntityManagerFactory to obtain EntityManagers from as needed
 * @param properties the properties to be passed into the
 * { @code createEntityManager } call (may be { @code null })
 * @param entityManagerInterfaces the interfaces to be implemented by the
 * EntityManager. Allows the addition or specification of proprietary interfaces.
 * @return a shareable transactional EntityManager proxy
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* /opt/ws_local/PERMITS_SQL/1023699209_1588775814.66/0/spring-orm-5-2-3-release-sources-
  jar/org/springframework/orm/jpa/JpaTransactionManager.java
* /opt/ws_local/PERMITS_SQL/1023699209_1588775814.66/0/spring-orm-5-2-3-release-sources-
  jar/org/springframework/orm/jpa/ExtendedEntityManagerCreator.java
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  jar/org/springframework/orm/hibernate5/HibernateTransactionManager.java
* /opt/ws_local/PERMITS_SQL/1023699209_1588775814.66/0/spring-orm-5-2-3-release-sources-
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* /opt/ws_local/PERMITS_SQL/1023699209_1588775814.66/0/spring-orm-5-2-3-release-sources-
  jar/org/springframework/orm/hibernate5/support/OpenSessionInViewFilter.java
* /opt/ws_local/PERMITS_SQL/1023699209_1588775814.66/0/spring-orm-5-2-3-release-sources-
  jar/org/springframework/orm/hibernate5/support/OpenSessionInViewInterceptor.java
* /opt/ws_local/PERMITS_SQL/1023699209_1588775814.66/0/spring-orm-5-2-3-release-sources-
  jar/org/springframework/orm/jpa/support/AsyncRequestInterceptor.java
* /opt/ws_local/PERMITS_SQL/1023699209_1588775814.66/0/spring-orm-5-2-3-release-sources-
jar/org/springframework/orm/jpa/LocalContainerEntityManagerFactoryBean.java
* /opt/ws_local/PERMITS_SQL/1023699209_1588775814.66/0/spring-orm-5-2-3-release-sources-
jar/org/springframework/orm/ObjectOptimisticLockingFailureException.java
* /opt/ws_local/PERMITS_SQL/1023699209_1588775814.66/0/spring-orm-5-2-3-release-sources-
jar/org/springframework/orm/jpa/vendor/EclipseLinkJpaVendorAdapter.java
* /opt/ws_local/PERMITS_SQL/1023699209_1588775814.66/0/spring-orm-5-2-3-release-sources-
jar/org/springframework/orm/hibernate5/HibernateTemplate.java
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jar/org/springframework/orm/hibernate5/HibernateExceptionTranslator.java
* /opt/ws_local/PERMITS_SQL/1023699209_1588775814.66/0/spring-orm-5-2-3-release-sources-
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jar/org/springframework/orm/jpa/persistenceunit/PersistenceUnitReader.java
* /opt/ws_local/PERMITS_SQL/1023699209_1588775814.66/0/spring-orm-5-2-3-release-sources-
jar/org/springframework/orm/hibernate5/SessionFactoryUtils.java
* /opt/ws_local/PERMITS_SQL/1023699209_1588775814.66/0/spring-orm-5-2-3-release-sources-
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jar/org/springframework/orm/jpa/persistenceunit/PersistenceUnitReader.java
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jar/org/springframework/orm/jpa/EntityManagerFactoryAccesso.java
* /opt/ws_local/PERMITS_SQL/1023699209_1588775814.66/0/spring-orm-5-2-3-release-sources-
jar/org/springframework/orm/jpa/vendor/EclipseLinkJpaDialect.java
* /opt/ws_local/PERMITS_SQL/1023699209_1588775814.66/0/spring-orm-5-2-3-release-sources-
jar/org/springframework/orm/jpa/persistenceunit/PersistenceU
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* /opt/ws_local/PERMITS_SQL/1023699209_1588775814.66/0/spring-orm-5-2-3-release-sources-
  jar/org/springframework/orm/hibernate5/ConfigurableJtaPlatform.java
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  jar/org/springframework/orm/jpa/DefaultJpaDialect.java
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  jar/org/springframework/orm/jpa/persistenceunit/MutablePersistenceUnitInfo.java
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1.48 spring-data-jpa 2.2.4

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1.52 selinux 2.8-1+b1

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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
line to the DVB mailing list)

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Version 2, June 1991

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   {
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               || strcmp(license, "GPL v2") == 0
               || strcmp(license, "GPL and additional rights") == 0
               || strcmp(license, "Dual BSD/GPL") == 0
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   }

   #endif

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bigfoot <bigfoot@net-way.net>
Ragnar Hojland Espinosa <ragnar@macula.net>
ConferenceTV card
+ many more (please mail me if you are missing in this list and would
like to be mentioned)

/* 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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* $Id: JaxenException.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/JaxenException.java
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/*
$Id: ContextSupport.java 1157 2006-06-03 20:07:37Z elharo $

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 * $Revision: 1128 $
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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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 * $Header$
 * $Revision: 1162 $
 * $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 $
* /

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-
  jar/org/jaxen/jdom/XPathNamespace.java
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 * $Header$
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$Id: VariableContext.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/VariableContext.java
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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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* /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-jar/org/jaxen/function/FloorFunction.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: LowerFunction.java 1128 2006-02-05 21:49:04Z elharo $
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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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* /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-
jar/org/jaxen/SimpleVariableContext.java
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/ *
* $Header$
* $Revision: 1337 $
* $Date: 2008-12-02 17:58:10 -0800 (Tue, 02 Dec 2008) $
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  *
  $Id: XPathFactory.java 1337 2008-12-03 01:58:10Z elharo $
  */

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

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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-jar/org/jaxen/expr/DefaultPathExpr.java
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 * $Id: DefaultMinusExpr.java 1261 2006-11-30 18:49:27Z elharo $
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 * $Date: 2006-11-08 09:10:02 -0800 (Wed, 08 Nov 2006) $
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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/NameStep.java
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* $Revision: 1179 $
* $Date: 2006-07-16 04:07:25 -0700 (Sun, 16 Jul 2006) $
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* $Id: VariableReferenceExpr.java 1248 2006-11-08 19:20:29Z elharo $
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* $Id: RoundFunction.java 1128 2006-02-05 21:49:04Z elharo $
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* $Id: IterableNamespaceAxis.java 1162 2006-06-03 20:52:26Z elharo $
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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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Found in path(s):
* /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-
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 * $Header$
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 * $Date: 2006-11-08 08:37:59 -0800 (Wed, 08 Nov 2006) $
 * $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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* $Id: XPathReader.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/XPathReader.java
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* $Id: NormalizeSpaceFunction.java 1128 2006-02-05 21:49:04Z elharo $
* /

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

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* $Id: NoNodeTest.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/pattern/NoNodeTest.java
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* $Id: DefaultMultiplicativeExpr.java 1128 2006-02-05 21:49:04Z elharo $
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* $Id: PrecedingAxisIterator.java 1257 2006-11-13 22:10:09Z elharo $
*/

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

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 * $Id: DefaultRelationalExpr.java 1128 2006-02-05 21:49:04Z elharo $
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$Id: UpperFunction.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/ext/UpperFunction.java
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* *
* $Id: DOMXPath.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/dom/DOMXPath.java
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* $Id: ConcatFunction.java 1128 2006-02-05 21:49:04Z elharo $
*/

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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-
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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 $

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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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 * $Id: SimpleFunctionContext.java 1128 2006-02-05 21:49:04Z elharo $
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* $Id: DefaultRelativeLocationPath.java 1261 2006-11-30 18:49:27Z elharo $
* /

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* $Id: IterableParentAxis.java 1162 2006-06-03 20:52:26Z elharo $
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/*
$Id: DefaultNameStep.java 1290 2007-04-17 01:26:35Z bewins $
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* $Id: AdditiveExpr.java 1252 2006-11-09 16:21:05Z elharo $
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* $Id: Navigator.java 1157 2006-06-03 20:07:37Z elharo $
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-jar/org/jaxen/Navigator.java
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/*
 * $Header$
 * $Revision: 1161 $
 * $Date: 2006-06-03 13:36:00 -0700 (Sat, 03 Jun 2006) $
 * $Id: Navigator.java 1157 2006-06-03 20:07:37Z elharo $
*/

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*
* $Id: JDOMXPath.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/jdom/JDOMXPath.java

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 * $Revision: 1255 $
 * $Date: 2006-11-09 10:20:12 -0800 (Thu, 09 Nov 2006) $
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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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 * $Revision: 1128 $
 * $Date: 2006-02-05 13:49:04 -0800 (Sun, 05 Feb 2006) $
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$Id: DocumentFunction.java 1128 2006-02-05 21:49:04Z elharo $

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

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$Id: Operator.java 1128 2006-02-05 21:49:04Z elharo $
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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/saxpath/Operator.java
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/*
$Id: XPath.java 1304 2007-05-02 15:00:13Z elharo $

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

Found in path(s):
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  jar/org/jaxen/expr/BinaryExpr.java

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* $Id: RelationalExpr.java 1252 2006-11-09 16:21:05Z elharo $
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* $Id: DefaultLiteralExpr.java 1273 2007-01-03 20:47:42Z elharo $
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* jar/org/jaxen/expr/DefaultLiteralExpr.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/expr/DefaultLessThanEqualExpr.java

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* $Header$
* $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 $
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-
* jar/org/jaxen/expr/DefaultLocationPath.java
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*/
* $Header$
* $Revision: 1161 $
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* $Header$
* $Revision: 1251 $
* $Date: 2006-11-09 08:11:38 -0800 (Thu, 09 Nov 2006) $
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Found in path(s):
* /opt/ws_local/PERSIST_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-jar/org/jaxen/expr/DefaultXPathFactory.java
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* $Revision: 1128 $
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* $Id: Function.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.java

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 * $Header$
 * $Revision: 1370 $
 * $Date: 2012-05-06 19:52:12 -0400 (Sun, 06 May 2012) $
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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-
jar/org/jaxen/dom/NamespaceNode.java
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* $Id$
*/

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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 * $Header$
 * $Revision: 1258 $
 * $Date: 2006-11-13 14:38:17 -0800 (Mon, 13 Nov 2006) $
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$Id: FollowingAxisIterator.java 1255 2006-11-09 18:20:12Z elharo $

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* $Id: FalseFunction.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/FalseFunction.java

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Class
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* $Id: DefaultAbsoluteLocationPath.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: DefaultNavigator.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-
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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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 *
 * $Id: DefaultAllNodeStep.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/DefaultAllNodeStep.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/expr/DefaultGreaterThanEqualExpr.java

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 * $Revision: 1162 $
 * $Date: 2006-06-03 13:52:26 -0700 (Sat, 03 Jun 2006) $
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$Id: IterableFollowingSiblingAxis.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/IterableFollowingSiblingAxis.java

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* $Revision: 1253 $
* $Date: 2006-11-09 08:39:19 -0800 (Thu, 09 Nov 2006) $
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* $Id: SingletonList.java 1253 2006-11-09 16:39:19Z elharo $
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-
jar/org/jaxen/util/SingletonList.java
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* $Revision: 1128 $
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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/DefaultTextNodeStep.java
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 * $Header$
 * $Revision: 1324 $
 * $Date: 2008-04-26 18:48:59 -0700 (Sat, 26 Apr 2008) $
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* $Id: XPathReader.java 1334 2008-11-29 17:58:48Z elharo $
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-
  jar/org/jaxen/saxpath/base/XPathReader.java
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 * $Revision: 1128 $
 * $Date: 2006-02-05 13:49:04 -0800 (Sun, 05 Feb 2006) $
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* $Id: DefaultAdditiveExpr.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/DefaultAdditiveExpr.java

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

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 * $Revision: 1366 $
 * $Date: 2012-05-05 12:17:35 -0400 (Sat, 05 May 2012) $
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 * $Id: DefaultFunctionCallExpr.java 1366 2012-05-05 16:17:35Z elharo $
 */
Found in path(s):
* /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-jar/org/jaxen/expr/DefaultFunctionCallExpr.java
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* $Id: SubstringAfterFunction.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/SubstringAfterFunction.java
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*$Id: EndsWithFunction.java 1128 2006-02-05 21:49:04Z elharo $
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* jar/org/jaxen/function/ext/EndsWithFunction.java

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* $Id: TokenTypes.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/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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 * $Date: 2006-11-08 08:00:22 -0800 (Wed, 08 Nov 2006) $
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* $Id: UnionExpr.java 1228 2006-11-08 16:00:22Z elharo $
* /

Found in path(s):
*/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: LocaleFunctionSupport.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/ext/LocaleFunctionSupport.java
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  $Id: XPathExpr.java 1306 2007-05-02 15:04:46Z elharo $
  */

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  */opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-
  jar/org/jaxen/expr/XPathExpr.java
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 * $Id: BooleanFunction.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/BooleanFunction.java
No license file was found, but licenses were detected in source scan.

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 * Header
 * $Revision: 1162 $
 * $Date: 2006-06-03 13:52:26 -0700 (Sat, 03 Jun 2006) $
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* $Id: IterableDescendantOrSelfAxis.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/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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* /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-
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* $Id: PatternHandler.java 1128 2006-02-05 21:49:04Z elharo $
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 * $Revision: 1255 $
 * $Date: 2006-11-09 10:20:12 -0800 (Thu, 09 Nov 2006) $
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* $Id: SingleObjectIterator.java 1255 2006-11-09 18:20:12Z elharo $
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* $Id: JaxenHandler.java 1132 2006-03-30 13:53:11Z elharo $
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  *
  * $Id: LogicalExpr.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/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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 * $Id: IdFunction.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/IdFunction.java
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 * $Header$
 * $Revision: 1325 $
 * $Date: 2008-04-26 18:55:05 -0700 (Sat, 26 Apr 2008) $
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* $Id: MultiplicativeExpr.java 1325 2008-04-27 01:55:05Z elharo $
*/

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jar/org/jaxen/expr/MultiplicativeExpr.java
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* $Id: TranslateFunction.java 1128 2006-02-05 21:49:04Z elharo $
*/

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* jar/org/jaxen/function/TranslateFunction.java

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* $Header$
* $Revision: 1234 $
* $Date: 2006-11-08 08:47:30 -0800 (Wed, 08 Nov 2006) $
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* $Id: LiteralExpr.java 1234 2006-11-08 16:47:30Z 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: 1154 $
* $Date: 2006-06-01 06:19:30 -0700 (Thu, 01 Jun 2006) $
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$Id: QualifiedName.java 1154 2006-06-01 13:19:30Z elharo $

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* $Id: TrueFunction.java 1128 2006-02-05 21:49:04Z elharo $
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 * $Date: 2006-06-03 13:36:00 -0700 (Sat, 03 Jun 2006) $
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* $Id: XOMXPath.java 1161 2006-06-03 20:36:00Z elharo $
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* jar/org/jaxen/xom/XOMXPath.java
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* $Id: SumFunction.java 1128 2006-02-05 21:49:04Z elharo $
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* $Id: DefaultGreaterThanExpr.java 1396 2013-01-13 12:22:49Z elharo $
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$Id: StartsWithFunction.java 1128 2006-02-05 21:49:04Z elharo $

Found in path(s):

LOPT/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-jar/org/jaxen/function/StartsWithFunction.java
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$Header$
$Revision: 1128 $
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/*
$Id: DocumentNavigator.java 1161 2006-06-03 20:36:00Z elharo $

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

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* $Id: AnyChildNodeTest.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/AnyChildNodeTest.java

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 */ $Revision: 1235 $
* $Date: 2006-11-08 09:02:21 -0800 (Wed, 08 Nov 2006) $
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* $Id: LocationPath.java 1235 2006-11-08 17:02:21Z elharo $
*/

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

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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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* /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-jar/org/jaxen/pattern/NodeTypeTest.java
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* $Revision: 1171 $
* $Date: 2006-07-03 06:17:30 -0700 (Mon, 03 Jul 2006) $
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* $Id: DefaultTruthExpr.java 1335 2008-11-30 14:20:38Z elharo $
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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-
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* $Id: XPathSyntaxException.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/XPathSyntaxException.java
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 * $Revision: 1162 $
 * $Date: 2006-06-03 13:52:26 -0700 (Sat, 03 Jun 2006) $
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$Id: IterableSelfAxis.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/IterableSelfAxis.java

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* $Id: FilterExpr.java 1326 2008-04-27 01:56:10Z elharo $
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-
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/*
$Id: IterableAttributeAxis.java 1162 2006-06-03 20:52:26Z elharo $
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* $Id: FunctionContext.java 1128 2006-02-05 21:49:04Z elharo $
*/

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* $Id: DefaultPredicate.java 1261 2006-11-30 18:49:27Z elharo $
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$Id: CeilingFunction.java 1128 2006-02-05 21:49:04Z elharo $

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* $Id: LastFunction.java 1128 2006-02-05 21:49:04Z elharo $
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* $Id: SubstringBeforeFunction.java 1128 2006-02-05 21:49:04Z elharo $
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 * $Revision: 1134 $
 * $Date: 2006-04-07 10:11:52 -0700 (Fri, 07 Apr 2006) $
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* $Id: Pattern.java 1134 2006-04-07 17:11:52Z elharo $
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 * $Header$
 * $Revision: 1133 $
 * $Date: 2006-03-30 05:56:36 -0800 (Thu, 30 Mar 2006) $
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* $Id: Axis.java 1133 2006-03-30 13:56:36Z elharo $
* /

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-jar/org/jaxen/saxpath/Axis.java
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* $Header$
* $Revision: 1161 $
* $Date: 2006-06-03 13:36:00 -0700 (Sat, 03 Jun 2006) $
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* $Id: JavaBeanXPath.java 1161 2006-06-03 20:36:00Z elharo $
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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/javabean/JavaBeanXPath.java
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* $Header$
* $Revision: 1128 $
* $Date: 2006-02-05 13:49:04 -0800 (Sun, 05 Feb 2006) $
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* $Id: NameTest.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/NameTest.java
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 * $Header$
 * $Revision: 1168 $
 * $Date: 2006-07-03 04:58:31 -0700 (Mon, 03 Jul 2006) $
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* $Id: NamespaceContext.java 1168 2006-07-03 11:58:31Z elharo $
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-jar/org/jaxen/NamespaceContext.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/DefaultNotEqualsExpr.java
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* $Id: Predicated.java 1241 2006-11-08 18:07:25Z elharo $
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* /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-
jar/org/jaxen/expr/Predicated.java
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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-
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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/DefaultAndExpr.java

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6b.

@item Convey the object code by offering access from a designated place
(gratis or for a charge), and offer equivalent access to the
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further charge. You need not require recipients to copy the
Corresponding Source along with the object code. If the place to copy
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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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### 1.65 jackson-module-afterburner 2.10.2

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@@ -2,14 +2,15 @@
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index 1b5c1e2..6f8dc1f 100644
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diff --git a/src/topology/pcm.c b/src/topology/pcm.c
index 8f8a703..5568d57 100644
--- a/src/topology/pcm.c
+++ b/src/topology/pcm.c
@@ -2,14 +2,15 @@
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+++ b/src/topology/text.c
@@ -2,14 +2,15 @@
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Yao Jin <yao.jin@intel.com>
1.79 brave-instrumentation-kafka-clients 5.9.0

1.80 jsr305 3.0.2

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* /opt/ws_local/PERMITS_SQL/1019256554_1594204871.13/0/jsr305-3-0-2-sources-jar/jav annotation/concurrent/Immutable.java

1.81 ion-rangeslider 2.0.13

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# Ion.Range Slider 2.0.13

> English description | <a href="readme.ru.md"> </a>

Easy, flexible and responsive range slider
* <a href="http://ionden.com/a/plugins/ion.rangeSlider/en.html">Project page and demos</a>
* <a href="http://ionden.com/a/plugins/ion.rangeSlider/ion.rangeSlider-2.0.13.zip">Download ion.rangeSlider-2.0.13.zip</a>
## 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 &euro; etc.)
* Additional postfix for maximum value (eg. $0 — $100<b>+</b>)
* 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 demo</a>

## GitHub
* <a href="https://github.com/IonDen/ion.rangeSlider">GitHub page</a>
## Support

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

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### 1.82 spring-kafka 2.3.5

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* /opt/ws_local/PERMITS_SQL/1033178477_1591433486.7/0/spring-kafka-2-3-5-release-sources-jar/org/springframework/kafka/support/ProducerListenerAdapter.java
* /opt/ws_local/PERMITS_SQL/1033178477_1591433486.7/0/spring-kafka-2-3-5-release-sources-jar/org/springframework/kafka/listener/BatchErrorHandler.java
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* /opt/ws_local/PERMITS_SQL/1033178477_1591433486.7/0/spring-kafka-2-3-5-release-sources-jar/org/springframework/kafka/event/KafkaEvent.java
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* /opt/ws_local/PERMITS_SQL/1033178477_1591433486.70/spring-kafka-2-3-5-release-sources-jar/org/springframework/kafka/event/DeadLetterPublishingRecoverer.java
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* /opt/ws_local/PERMITS_SQL/1033178477_1591433486.70/spring-kafka-2-3-5-release-sources-jar/org/springframework/kafka/config/KafkaStreamsCustomizer.java
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* /opt/ws_local/PERMITS_SQL/1033178477_1591433486.7/0/spring-kafka-2-3-5-release-sources-
jar/org/springframework/kafka/config/KafkaListenerEndpoint.java
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* /opt/ws_local/PERMITS_SQL/1033178477_1591433486.7/0/spring-kafka-2-3-5-release-sources-
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jar/org/springframework/kafka/config/AbstractKafkaListenerEndpoint.java
* /opt/ws_local/PERMITS_SQL/1033178477_1591433486.7/0/spring-kafka-2-3-5-release-sources-
jar/org/springframework/kafka/config/KafkaListenerEndpointRegistrar.java
* /opt/ws_local/PERMITS_SQL/1033178477_1591433486.7/0/spring-kafka-2-3-5-release-sources-
jar/org/springframework/kafka/config/KafkaListenerEndpointRegistry.java
* /opt/ws_local/PERMITS_SQL/1033178477_1591433486.7/0/spring-kafka-2-3-5-release-sources-
jar/org/springframework/kafka/support/KafkaHeaders.java
* /opt/ws_local/PERMITS_SQL/1033178477_1591433486.7/0/spring-kafka-2-3-5-release-sources-
jar/org/springframework/kafka/config/KafkaListenerEndpointRegistrar.java
* /opt/ws_local/PERMITS_SQL/1033178477_1591433486.7/0/spring-kafka-2-3-5-release-sources-
jar/org/springframework/kafka/config/KafkaListenerContainerFactory.java
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jar/org/springframework/kafka/config/KafkaListenerEndpointRegistrar.java
* /opt/ws_local/PERMITS_SQL/1033178477_1591433486.7/0/spring-kafka-2-3-5-release-sources-
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*/opt/ws_local/PERMITS_SQL/1034709103_1588973853.27/0/flyway-core-6-4-0-sources-jar/org/flywaydb/core/internal/jdbc/WarningImpl.java
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ar/jar/org/flywaydb/core/api/migration/Context.java
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* /opt/ws_local/PERMITS_SQL/1034709103_1588973853.27/0/flyway-core-6-4-0-sources-
ar/jar/org/flywaydb/core/internal/database/sqlite/package-info.java

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The implementations of GSSAPI mechglue in GSSAPI-SPNEGO in the following files:

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- `lib/gssapi/mechglue/g_accept_sec_context.c`
- `lib/gssapi/mechglue/g_acquire_cred.c`
- `lib/gssapi/mechglue/g_acquire_cred.c`
- `lib/gssapi/mechglue/g_acquire_cred.c`
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- `lib/gssapi/mechglue/g_acquire_cred.c`
- `lib/gssapi/mechglue/g_acquire_c...
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- mechglue/g_canon_name.c
- mechglue/g_compare_name.c
- mechglue/g_context_time.c
- mechglue/g_delete_sec_context.c
- mechglue/g_dsp_name.c
- mechglue/g_dsp_status.c
- mechglue/g_dup_name.c
- mechglue/exp_sec_context.c
- mechglue/export_name.c
- mechglue/glue.c
- mechglue/imp_name.c
- mechglue/imp_sec_context.c
- mechglue/init_sec_context.c
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- mechglue/inquire_context.c
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and the initial implementation of incremental propagation, including
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```
include/spnego/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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.. parsed-literal::

   .. 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
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   lib/gssapi/mechglue/g_dup_name.c
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   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
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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    COLLAPSE_INDEX: false,
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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 != '-*-' 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())
        in_comment = False
    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)
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1.102 asn1.js 4.10.1

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1.103 angular-simple-logger 0.1.7

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1.104 fileapi 2.0.27

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1.106 jetty-util 9.4.26.v20200117

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

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org.eclipse.jetty.toolchain:jetty-schemas

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* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/operators/OperatorToObservableSortedList.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/functions/Action9.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/subjects/BehaviorSubject.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/observers/SafeSubscriber.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/operators/OperatorOnBackpressureDrop.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/exceptions/CompositeException.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/schedulers/NewThreadScheduler.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/operators/CompletableOnSubscribeMergeArray.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/operators/OperatorMaterialize.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/observables/GroupedObservable.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/operators/OperatorTakeUntil.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/functions/Action4.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/operators/CompletableOnSubscribeConcat.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/operators/OperatorZip.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/plugins/RxJavaErrorHandler.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/operators/OperatorToObservableList.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/util/RxRingBuffer.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/operators/OperatorToObservableSortedList.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/operators/OperatorToObservableSortedList.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/functions/Action5.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/functions/Func2.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/Observer.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/schedulers/CachedThreadScheduler.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/functions/Action5.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/plugins/RxJavaErrorHandler.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/operators/OperatorZip.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/util/RxRingBuffer.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/operators/OperatorToObservableList.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
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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
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/SingleEmitter.java
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core/src/main/java/org/jctools/queues/QueueProgressIndicators.java
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 * core/src/main/java/org/jctools/queues/atomic/AtomicReferenceArrayQueue.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/OperatorWindowWithSize.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/operators/OperatorSampleWithObservable.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/operators/OperatorOnBackpressureLatest.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/operators/OperatorEagerConcatMap.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/operators/OperatorWindowWithObservableFactory.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

JCTools has now published artifacts (https://github.com/JCTools/JCTools/issues/17) so RxJava could add JCTools as a "shadow" dependency (https://github.com/ReactiveX/RxJava/issues/1735). RxJava has a "zero dependency" policy for the core library, so if we do add it as a dependency, it won't be an externally visible dependency that results in a separate jar.

The license for the JCTools code is https://github.com/JCTools/JCTools/blob/master/LICENSE

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This plugin class provides 2 ways to customize [Scheduler] functionality
1. You may redefine entire schedulers, if you so choose. To do so, override
   the 3 methods that return Scheduler (io(), computation(), newThread()).
2. You may wrap/decorate an [Action0], before it is handed off to a Scheduler. The system-
   supplied Schedulers (Schedulers.ioScheduler, Schedulers.computationScheduler,
   Scheduler.newThreadScheduler) all use this hook, so it's a convenient way to
   modify Scheduler functionality without redefining Schedulers wholesale.

Also, when redefining Schedulers, you are free to use/not use the onSchedule decoration hook.

See [RxJavaPlugins] or the RxJava GitHub Wiki for information on configuring plugins:

https://github.com/ReactiveX/RxJava/wiki/Plugins

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/opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-
jar/rx/plugins/RxJavaSchedulersHook.java

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 */
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 * Set the max pool size of the ThreadPoolExecutor.
 */<strong>NOTE:</strong> When an unbounded
 * [ @link #queueCapacity(int) queueCapacity ] is configured (the default), the
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By default this is set to \{@code Integer.MAX_VALUE\}.

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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
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  jar/org/springframework/test/context/web/socket/MockServerContainerContextCustomizer.java
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jar/org/springframework/test/web/servlet/request/MockMultipartHttpServletRequestBuilder.java
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jar/org/springframework/test/context/junit/jupiter/EnabledIfCondition.java
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jar/org/springframework/test/context/junit/jupiter/AbstractExpressionEvaluatingCondition.java
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jar/org/springframework/test/context/web/ServletTestExecutionListener.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/context/support/AbstractDirtiesContextTestExecutionListener.java
* /opt/ws_local/PERMITS_SQL/1033212718_1591432933.35/0/spring-test-5-2-3-release-sources-jar/org/springframework/test/context/junit4/statements/RunBeforeTestMethodCallbacks.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/context/event/PrepareTestInstanceEvent.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/context/cache/DefaultCacheAwareContextLoaderDelegate.java
* /opt/ws_local/PERMITS_SQL/1033212718_1591432933.35/0/spring-test-5-2-3-release-sources-jar/org/springframework/mock/jndi/ExpectedLookupTemplate.java
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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 dso/aix/dso.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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<?xml version="1.0" encoding="UTF-8"?>
<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 char32At(). 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.

<p><code>Replaceable</code> also includes API to access characters
in the string: <code>length()</code>, <code>charAt()</code>,
<code>char32At()</code>, and <code>extractBetween()</code>.</p>

<p>For a subclass to support metadata, typical behavior of
<code>replace()</code> is the following:
<ul>
<li>Set the metadata of the new text to the metadata of the first
character replaced</li>
<li>If no characters are replaced, use the metadata of the
previous character</li>
<li>If there is no previous character (i.e. start == 0), use the
following character</li>
<li>If there is no following character (i.e. the replaceable was
empty), use default metadata</li>
<li>If the code point U+FFFF is seen, it should be interpreted as
a special marker having no metadata</li>
</ul>
If this is not the behavior, the subclass should document any differences.

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@author Alan Liu
@stable ICU 2.0

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<code>ReplaceableString</code> is an adapter class that implements the
<code>Replaceable</code> API around an ordinary <code>StringBuffer</code>.

<p>Note: This class does not support attributes and is not
intended for general use. Most clients will need to implement
{@link Replaceable} in their text representation class.

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@see Replaceable
@author Alan Liu
@stable ICU 2.0

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 */
package java.security;

import java.io.Serializable;

/**
 * Legacy security code; do not use.
 */
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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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
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1.176 x-is-array 0.1.0

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1.177 client-java-api 5.0.0

1.178 xmlsec-java 2.1.5
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1.180 rx-netty 0.4.9

1.181 saslprep 1.1

1.182 flatpickr 4.6.2
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1.183 zstd 1.4.4

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1.189 spring-beans 3.2.17

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2.2.4

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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/web/server/ManagementPortType.java
1.191 insserv 1.18.0-2

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  /opt/ws_local/PERMITS_SQL/1033178653_1591205810.04/0/reactor-extra-3-3-2-release-sources-
  jar/reactor/function/Predicate4.java
  /opt/ws_local/PERMITS_SQL/1033178653_1591205810.04/0/reactor-extra-3-3-2-release-sources-
  jar/reactor/math/MathSubscriber.java
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  jar/reactor/function/Function3.java
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  jar/reactor/function/Function4.java
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  jar/reactor/function/Function8.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/WorkQueueProcessor.java
  * /opt/ws_local/PERMITS_SQL/1033178653_1591205810.04/0/reactor-extra-3-3-2-release-sources-jar/reactor/extra/processor/WaitStrategy.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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 */
/**
 * Creates a new {@link AnalyzerAdapter}. Subclasses must not use this
 * constructor. Instead, they must use the
 * [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
 *   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.
*/

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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.
   */

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/**
* Constructs a new [Textifier]. <i>Subclasses must not use this
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* version.
* *
* @throws IllegalStateException
* @throws IllegalStateException
*     If a subclass calls this constructor.
*/

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 */
/**
 * Constructs a new [@link ClassNode]. Subclasses must not use this
 * constructor. Instead, they must use the [@link #ClassNode(int)]
 * version.
 *
 * @throws IllegalStateException
 *
 * @param name
 * @param module
 */

Found in path(s):
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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 {@link Type}).
* @param signature
  *     the method's signature. May be `<tt>null</tt>`.
* @param exceptions
  *     the internal names of the method's exception classes (see
  *     {@link Type#getInternalName() getInternalName}). May be
  *     `<tt>null</tt>`.
* @throws IllegalStateException
  *     If a subclass calls this constructor.
*/

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* /opt/ws_local/PERMITS_SQL/1018366213_1591904026.58/0/asm-5-0-3-sources-
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/***
* Creates a new [GeneratorAdapter]. <i>Subclasses must not use this
* constructor</i>. Instead, they must use the
* [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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1.204 vdom-virtualize 2.0.0

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1.206 spring-cloud-context 2.2.0

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1.207 engine.io-parser 1.3.2

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1.208 bcpkix-jdk15on 1.62

1.209 jetty-io 9.4.26.v20200117
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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

------

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

-----
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

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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* 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.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
org.apache.tomcat:tomcat-util

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1.237 javaparser-core 2.4.0

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Version 3, 29 June 2007

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* /opt/ws_local/PERMITS_SQL/1045861996_1589612082.77/0/gson-2-8-8-sources-jar/org/immutables/gson/stream/JsonGeneratorWriter.java
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1.250 e2fsprogs 1.43.4 2+deb9u1

1.250.1 Available under license:

#
# 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

depends = $(OBJS)

image: $(BSD_LIB)

$(BSD_LIB): $(depends)

$(cd pic; ld -Bshareable -o $(BSD_LIB) $(LDFLAGS_SHLIB) $(OBJS))
$(MV) pic/$(BSD_LIB) .
$(RM) -f ../$(BSD_LIB)

$(cd ..; $(LN) $(LINK_BUILD_FLAGS) `echo $(my_dir) | sed -e 's;lib/;;'`/$(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-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)

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and lib/e2p libraries, which are made available under the GNU Library
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Theodore Ts'o
23-June-2007

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

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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
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This package was put together by Yann Dirson <dirson@debian.org>,
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system utilities (e2fsck, mke2fs, etc.). The EXT2 utilities were
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Index: tdbsa/tdb.c
===================================================================
--- tdbsa.orig/tdb.c
+++ tdbsa/tdb.c

--- tdbsa.orig/tdb.c
+++ tdbsa/tdb.c
@@ -4,11 +4,11 @@ Rev: 23371
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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1.251 alsa 1.1.3 5
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1.253 jetty-plus 9.4.26.v20200117

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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

------

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

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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
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

Assorted

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1.270 orm-core 5.4.10

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Java ClassMate library was originally written by Tatu Saloranta (tatu.saloranta@iki.fi)

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1.273 jquery-ui-dist 1.12.1

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1.274 commons-lang3 3.9

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1.279 mime4j 0.8.3
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1.287 brave-instrumentation-httpsasyncclient

5.9.0
1.288 engine.io-client 1.8.5

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1.289 consul-api 1.4.1

1.290 readline 8.0.4

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1.296 reindex-client 6.8.0

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JUnit

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END OF TERMS AND CONDITIONS

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<one line to give the program's name and a brief idea of what it does.>
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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
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   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.

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

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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 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.

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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  jar/com/google/errorprone/annotations/MustBeClosed.java
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  jar/com/google/errorprone/annotations/concurrent/LockMethod.java

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  jar/com/google/errorprone/annotations/CanIgnoreReturnValue.java
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  jar/com/google/errorprone/annotations/concurrent/LazyInit.java
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  jar/com/google/errorprone/annotations/RequiredModifiers.java
* /opt/ws_local/PERMITS_SQL/1001654294_1592507239.29/0/error-prone-annotations-2-1-3-sources-3-
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DOCUMENTATION ROADMAP

This file contains the following sections:

OVERVIEW General description of JPEG and the IJG software.
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REFERENCES Where to learn more about JPEG.
ARCHIVE LOCATIONS Where to find newer versions of this software.
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Other documentation files in the distribution are:

User documentation:
install.doc How to configure and install the IJG software.
usage.doc Usage instructions for cjpeg, djpeg, jpegtran, rdjpgcom, and wrjpgcom.
The 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 same holds for its supporting scripts (config.guess, config.sub,
ltdconfig, ltdmain.sh). Another support script, install-sh, is copyright
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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

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:

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phone (408) 944-6300, fax (408) 944-6314

A PostScript version of this document is available by FTP at ftp://ftp.uu.net/graphics/jpeg/jfif.ps.gz. There is also a plain text version at ftp://ftp.uu.net/graphics/jpeg/jfif.txt.gz, but it is missing the figures.

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ARCHIVE LOCATIONS

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.

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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.
The Independent JPEG Group's JPEG software

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README for release 6b of 27-Mar-1998

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This distribution contains the sixth public release of the Independent JPEG Group's free JPEG software. You are welcome to redistribute this software and to use it for any purpose, subject to the conditions under LEGAL ISSUES, below.

Serious users of this software (particularly those incorporating it into larger programs) should contact IJG at jpeg-info@uunet.uu.net to be added to our electronic mailing list. Mailing list members are notified of updates and have a chance to participate in technical discussions, etc.

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

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.
usage.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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These conditions apply to any software derived from or based on the IJG code, not just to the unmodified library. If you use our work, you ought to acknowledge us.

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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.

We are required to state that
"The Graphics Interchange Format(c) is the Copyright property of CompuServe Incorporated. GIF(sm) is a Service Mark property of CompuServe Incorporated.

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.
1778 McCarthy Blvd.
Milpitas, CA 95035
phone (408) 944-6300, fax (408) 944-6314
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1.309 bzip2 1.0.6 8.1
1.309.1 Available under license :

--------------------------------------------------------------------------
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Julian Seward, jseward@acm.org
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Found in path(s):
* /opt/ws_local/PERMITS_SQL/1018334783_1594188426.05/0/servo-core-0-12-21-sources-jar/com/netflix/servo/monitor/AnnotatedNumberMonitor.java
* /opt/ws_local/PERMITS_SQL/1018334783_1594188426.05/0/servo-core-0-12-21-sources-jar/com/netflix/servo/monitor/StatsTimer.java
* /opt/ws_local/PERMITS_SQL/1018334783_1594188426.05/0/servo-core-0-12-21-sources-jar/com/netflix/servo/publish/RegexMetricFilter.java
* /opt/ws_local/PERMITS_SQL/1018334783_1594188426.05/0/servo-core-0-12-21-sources-jar/com/netflix/servo/monitor/MonitoredThreadPool.java
* /opt/ws_local/PERMITS_SQL/1018334783_1594188426.05/0/servo-core-0-12-21-sources-jar/com/netflix/servo/publish/JmxMetricPoller.java
* /opt/ws_local/PERMITS_SQL/1018334783_1594188426.05/0/servo-core-0-12-21-sources-jar/com/netflix/servo/tag/InjectableTag.java
* /opt/ws_local/PERMITS_SQL/1018334783_1594188426.05/0/servo-core-0-12-21-sources-jar/com/netflix/servo/publish/LocalJmxConnector.java
* /opt/ws_local/PERMITS_SQL/1018334783_1594188426.05/0/servo-core-0-12-21-sources-jar/com/netflix/servo/monitor/BasicCounter.java
* /opt/ws_local/PERMITS_SQL/1018334783_1594188426.05/0/servo-core-0-12-21-sources-jar/com/netflix/servo/tag/StandardTagKeys.java
* /opt/ws_local/PERMITS_SQL/1018334783_1594188426.05/0/servo-core-0-12-21-sources-jar/com/netflix/servo/monitor/ContextualCounter.java
* /opt/ws_local/PERMITS_SQL/1018334783_1594188426.05/0/servo-core-0-12-21-sources-jar/com/netflix/servo/tag/TagComparator.java
* /opt/ws_local/PERMITS_SQL/1018334783_1594188426.05/0/servo-core-0-12-21-sources-jar/com/netflix/servo/monitor/ManualClock.java
* /opt/ws_local/PERMITS_SQL/1018334783_1594188426.05/0/servo-core-0-12-21-sources-jar/com/netflix/servo/monitor/MonitorRegistry.java
* /opt/ws_local/PERMITS_SQL/1018334783_1594188426.05/0/servo-core-0-12-21-sources-jar/com/netflix/servo/monitor/BasicGauge.java

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* /opt/ws_local/PERMITS_SQL/1018334783_1594188426.05/0/servo-core-0-12-21-sources-jar/com/netflix/servo/monitor/CompositeMonitorWrapper.java
* /opt/ws_local/PERMITS_SQL/1018334783_1594188426.05/0/servo-core-0-12-21-sources-jar/com/netflix/servo/monitor/CompositeMonitor.java
* /opt/ws_local/PERMITS_SQL/1018334783_1594188426.05/0/servo-core-0-12-21-sources-jar/com/netflix/servo/monitor/ContextualTimer.java
* /opt/ws_local/PERMITS_SQL/1018334783_1594188426.05/0/servo-core-0-12-21-sources-jar/com/netflix/servo/monitor/MetricObserver.java
* /opt/ws_local/PERMITS_SQL/1018334783_1594188426.05/0/servo-core-0-12-21-sources-jar/com/netflix/servo/monitor/MetricFilter.java
* /opt/ws_local/PERMITS_SQL/1018334783_1594188426.05/0/servo-core-0-12-21-sources-jar/com/netflix/servo/monitor/StepCounter.java
* /opt/ws_local/PERMITS_SQL/1018334783_1594188426.05/0/servo-core-0-12-21-sources-jar/com/netflix/servo/monitor/NumericMonitor.java
* /opt/ws_local/PERMITS_SQL/1018334783_1594188426.05/0/servo-core-0-12-21-sources-jar/com/netflix/servo/monitor/StepLong.java
* /opt/ws_local/PERMITS_SQL/1018334783_1594188426.05/0/servo-core-0-12-21-sources-jar/com/netflix/servo/monitor/BasicInformational.java
* /opt/ws_local/PERMITS_SQL/1018334783_1594188426.05/0/servo-core-0-12-21-sources-jar/com/netflix/servo/util/ThreadCpuStats.java

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  * <p/>
* Interfaces for collecting metrics and publishing them to observers.
  * <p/>
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* Interfaces for collecting metrics and publishing them to observers.
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Found in path(s):
* /opt/ws_local/PERMITS_SQL/1018334783_1594188426.05/0/servo-core-0-12-21-sources-
  jar/com/netflix/servo/publish/package-info.java
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  jar/com/netflix/servo/jmx/OrderedObjectNameMapper.java
* /opt/ws_local/PERMITS_SQL/1018334783_1594188426.05/0/servo-core-0-12-21-sources-
  jar/com/netflix/servo/monitor/DurationTimer.java
* /opt/ws_local/PERMITS_SQL/1018334783_1594188426.05/0/servo-core-0-12-21-sources-
  jar/com/netflix/servo/tag/SmallTagMap.java
* /opt/ws_local/PERMITS_SQL/1018334783_1594188426.05/0/servo-core-0-12-21-sources-
  jar/com/netflix/servo/jmx/ObjectNameBuilder.java
* /opt/ws_local/PERMITS_SQL/1018334783_1594188426.05/0/servo-core-0-12-21-sources-
  jar/com/netflix/servo/monitor/BasicDistributionSummary.java
* /opt/ws_local/PERMITS_SQL/1018334783_1594188426.05/0/servo-core-0-12-21-sources-
  jar/com/netflix/servo/jmx/ObjectNameMapper.java
* /opt/ws_local/PERMITS_SQL/1018334783_1594188426.05/0/servo-core-0-12-21-sources-
  jar/com/netflix/servo/jmx/DefaultObjectNameMapper.java
* /opt/ws_local/PERMITS_SQL/1018334783_1594188426.05/0/servo-core-0-12-21-sources-
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 * <p/>
 * Primary interfaces for metrics.
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 * Primary interfaces for metrics.
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 * Primary interfaces for metrics.
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 * <p/>
* Subinterfaces and implementations for `{@link com.netflix.servo.monitor.Monitor}`.
* `<p/>
* Subinterfaces and implementations for `{@link com.netflix.servo.monitor.Monitor}`.
* `<p/>
* Subinterfaces and implementations for `{@link com.netflix.servo.monitor.Monitor}`.
*/

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 * `<p/>
 * Annotations to easily expose metrics from a class.
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 */

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* /opt/ws_local/PERMITS_SQL/1018334783_1594188426.05/0/servo-core-0-12-21-sources-jar/com/netflix/servo/monitor/DoubleCounter.java
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jar/com/netflix/servo/util/Iterables.java
* /opt/ws_local/PERMITS_SQL/1018334783_1594188426.05/0/servo-core-0-12-21-sources-
jar/com/netflix/servo/util/Throwables.java
* /opt/ws_local/PERMITS_SQL/1018334783_1594188426.05/0/servo-core-0-12-21-sources-
jar/com/netflix/servo/publish/FileMetricObserver.java
* /opt/ws_local/PERMITS_SQL/1018334783_1594188426.05/0/servo-core-0-12-21-sources-
jar/com/netflix/servo/util/VisibleForTesting.java
* /opt/ws_local/PERMITS_SQL/1018334783_1594188426.05/0/servo-core-0-12-21-sources-
jar/com/netflix/servo/BasicMonitorRegistry.java
* /opt/ws_local/PERMITS_SQL/1018334783_1594188426.05/0/servo-core-0-12-21-sources-
jar/com/netflix/servo/util/Memoizer.java
* /opt/ws_local/PERMITS_SQL/1018334783_1594188426.05/0/servo-core-0-12-21-sources-
jar/com/netflix/servo/publish/JvmMetricPoller.java
* /opt/ws_local/PERMITS_SQL/1018334783_1594188426.05/0/servo-core-0-12-21-sources-
jar/com/netflix/servo/publish/PollRunnable.java
* /opt/ws_local/PERMITS_SQL/1018334783_1594188426.05/0/servo-core-0-12-21-sources-
jar/com/netflix/servo/util/UnmodifiableSet.java
* /opt/ws_local/PERMITS_SQL/1018334783_1594188426.05/0/servo-core-0-12-21-sources-
jar/com/netflix/servo/util/Strings.java
* /opt/ws_local/PERMITS_SQL/1018334783_1594188426.05/0/servo-core-0-12-21-sources-
jar/com/netflix/servo/monitor/AbstractMonitor.java
* /opt/ws_local/PERMITS_SQL/1018334783_1594188426.05/0/servo-core-0-12-21-sources-
jar/com/netflix/servo/publish/PrefixMetricFilter.java
* /opt/ws_local/PERMITS_SQL/1018334783_1594188426.05/0/servo-core-0-12-21-sources-
jar/com/netflix/servo/publish/NormalizationTransform.java
* /opt/ws_local/PERMITS_SQL/1018334783_1594188426.05/0/servo-core-0-12-21-sources-
jar/com/netflix/servo/monitor/BucketConfig.java
* /opt/ws_local/PERMITS_SQL/1018334783_1594188426.05/0/servo-core-0-12-21-sources-
jar/com/netflix/servo/monitor/StatsMonitor.java
* /opt/ws_local/PERMITS_SQL/1018334783_1594188426.05/0/servo-core-0-12-21-sources-
jar/com/netflix/servo/publish/BaseMetricObserver.java
* /opt/ws_local/PERMITS_SQL/1018334783_1594188426.05/0/servo-core-0-12-21-sources-
jar/com/netflix/servo/monitor/MonitoredCache.java
* /opt/ws_local/PERMITS_SQL/1018334783_1594188426.05/0/servo-core-0-12-21-sources-
jar/com/netflix/servo/monitor/MonitorConfig.java
* /opt/ws_local/PERMITS_SQL/1018334783_1594188426.05/0/servo-core-0-12-21-sources-
jar/com/netflix/servo/monitor/TimedStopwatch.java
* /opt/ws_local/PERMITS_SQL/1018334783_1594188426.05/0/servo-core-0-12-21-sources-
jar/com/netflix/servo/publish/AsyncMetricObserver.java
* /opt/ws_local/PERMITS_SQL/1018334783_1594188426.05/0/servo-core-0-12-21-sources-
jar/com/netflix/servo/stats/StatsBuffer.java
* /opt/ws_local/PERMITS_SQL/1018334783_1594188426.05/0/servo-core-0-12-21-sources-
jar/com/netflix/servo/monitor/DynamicTimer.java
* /opt/ws_local/PERMITS_SQL/1018334783_1594188426.05/0/servo-core-0-12-21-sources-jar/com/netflix/servo/Metric.java
* /opt/ws_local/PERMITS_SQL/1018334783_1594188426.05/0/servo-core-0-12-21-sources-jar/com/netflix/servo/monitor/BucketTimer.java
* /opt/ws_local/PERMITS_SQL/1018334783_1594188426.05/0/servo-core-0-12-21-sources-jar/com/netflix/servo/util/TimeLimiter.java
* /opt/ws_local/PERMITS_SQL/1018334783_1594188426.05/0/servo-core-0-12-21-sources-jar/com/netflix/servo/util/ThreadFactories.java
* /opt/ws_local/PERMITS_SQL/1018334783_1594188426.05/0/servo-core-0-12-21-sources-jar/com/netflix/servo/tag/BasicTag.java
* /opt/ws_local/PERMITS_SQL/1018334783_1594188426.05/0/servo-core-0-12-21-sources-jar/com/netflix/servo/monitor/DynamicCounter.java
* /opt/ws_local/PERMITS_SQL/1018334783_1594188426.05/0/servo-core-0-12-21-sources-jar/com/netflix/servo/util/ExpiringCache.java
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* /opt/ws_local/PERMITS_SQL/1018334783_1594188426.05/0/servo-core-0-12-21-sources-jar/com/netflix/servo/monitor/NumberGauge.java
* /opt/ws_local/PERMITS_SQL/1018334783_1594188426.05/0/servo-core-0-12-21-sources-jar/com/netflix/servo/publish/BaseMetricPoller.java
* /opt/ws_local/PERMITS_SQL/1018334783_1594188426.05/0/servo-core-0-12-21-sources-jar/com/netflix/servo/publish/CounterToRateMetricTransform.java
* /opt/ws_local/PERMITS_SQL/1018334783_1594188426.05/0/servo-core-0-12-21-sources-jar/com/netflix/servo/tag/BasicTagList.java

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* Monitor registry and helper classes to expose monitored attributes to
* JMX.
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* Monitor registry and helper classes to expose monitored attributes to
* JMX.
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1.317 t-digest 3.2

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1.318 jetty-security 9.4.26.v20200117

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org.apache.tomcat:tomcat-jasper
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org.eclipse.jetty.toolchain:jetty-schemas

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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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#*+STARTUP: showall

* DNS resolver (dirmngr/dns.c)

dns.c - Recursive, Reentrant DNS Resolver.

--------------------------------------------------------------------------
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>>> org.eclipse.aether:aether-impl
>>> org.eclipse.aether:aether-spi
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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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```javascript
defaultValueAccessor: ts
  registerOnChange(fn: any): void;

  registerOnTouched(fn: any): void;

  setDisabledState(isDisabled: boolean): void;

  writeValue(value: any): void;

  // Other methods and properties...
```
called by the forms API on initialization to update the form model on blur. 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’.

* @usageNotes

### Store the callback function

* The following example stores the provided function as an internal method.

```typescript
registerOnTouched(fn: any): void {
  this._onTouched = fn;
}
```

* @usageNotes

### Writing the disabled property

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);
}
```

* @usageNotes

### Using a checkbox with a reactive form

The following example shows how to use a checkbox with a reactive form.

```typescript
constructor(private _renderer: Renderer2, private _elementRef: ElementRef) {
  this._renderer.setProperty(this._elementRef.nativeElement, 'checked', true);
}
```

* @usageNotes

---

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---

```typescript
import {Directive, ElementRef, Renderer2, forwardRef} from '@angular/core';
import {ControlValueAccessor, NG_VALUE_ACCESSOR} from './control_value_accessor';

export const CHECKBOX_VALUE_ACCESSOR:
```
We must check whether the agent is Android because composition events
* behave differently between iOS and Android.

```javascript
function _isAndroid(): boolean {
  const userAgent = getDOM() ? getDOM().getUserAgent() : '';
  return /android (\d+)/.test(userAgent.toLowerCase());
}

/**
 * @description
 * Provide this token to control
 * if form directives buffer IME input until * the "compositionend" event occurs.
 * The example shows how to use an input element that activates the default value accessor
 * (in this case, a text field).
 */
export const COMPOSITION_BUFFER_MODE = new InjectionToken<boolean>('CompositionEventMode');

/**
 * @description
 * The default 'ControlValueAccessor' for writing a value and listening to changes on input
 * elements. The accessor is used by the 'FormControlDirective', 'FormControlName', and
 * the 'NgModel' directives.
 */
export const DEFAULT_VALUE_ACCESSOR = new AbstractControlValueAccessor();
```

```typescript
// 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]',
Providers: [DEFAULT_VALUE_ACCESSOR]
@Directive({
  selector:
    'input:not([type=checkbox])[formControl],textarea[formControlName],input:not([type=checkbox])[formControl],input:not([type=checkbox])[formControlName],textarea[formControl],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 a blur event occurs on the input element.
   */
  onTouched = () => {};

  /**
   * Whether the user is creating a composition string (IME events).
   */
  private _composing = false;

  constructor(
    private _renderer: Renderer2, private _elementRef: ElementRef,
    @Optional()
    @Inject(COMPOSITION_BUFFER_MODE) private _compositionMode: boolean) {
    if (this._compositionMode == null) {
      this._compositionMode = !_isAndroid();
    }
  }

  /**
   * Sets the "value" property on the
   * input element.
   */
  writeValue(value: any): void {
    const normalizedValue = value == null ? '' : value;
    this._renderer.setProperty(this._elementRef.nativeElement, 'value', normalizedValue);
  }

  /**
   * Registers a function called when the control value
   * changes.
   */
  registerOnChange(fn: (_: any) => void): void {
    if (this._compositionMode == true) {
      this.onChange = fn;
    } else {
      this._renderer.setElementProperty(this._elementRef.nativeElement, 'value', value);
    }
  }

  /**
   * Sets the "disabled" property on the input element.
   */
  setDisabledState(isDisabled: boolean): void {
    if (this._compositionMode == true) {
      this._renderer.setElementProperty(this._elementRef.nativeElement, 'disabled', isDisabled);
    } else {
      this._renderer.setElementProperty(this._elementRef.nativeElement, 'disabled', isDisabled);
    }
  }

  /**
   * Reports the value of
   * the control if it is present, otherwise null.
   */
  get value(): any {
    return this.control ? this.control.value : null;
  }
```
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 valid(): boolean
- get invalid(): boolean
- get errors(): ValidationErrors
- get statusChanges(): Observable<any>
- get status(): string
- get touched(): boolean
- get dirty(): boolean
- get pristine(): boolean
- get untouched(): boolean
- get errors(): ValidationErrors
- get enabled(): boolean
- get disabled(): boolean
- get pending(): boolean
- get invalid(): boolean
- get pristine(): boolean
- get touched(): boolean
- get dirty(): boolean
- get pristine(): boolean
- get untouched(): boolean
- get errors(): ValidationErrors
- get enabled(): boolean
- get disabled(): boolean
- get pending(): boolean
- get invalid(): boolean
- get pristine(): boolean
- get touched(): boolean
- get dirty(): boolean
- get pristine(): boolean
- get untouched(): boolean
- get errors(): ValidationErrors
- get enabled(): boolean
- get disabled(): boolean
- get pending(): boolean
- get invalid(): boolean
- get pristine(): boolean
- get touched(): boolean
- get dirty(): boolean
- get pristine(): boolean
- get untouched(): boolean
- get errors(): ValidationErrors
- get enabled(): boolean
- get disabled(): boolean
- get pending(): boolean
- get invalid(): boolean
- get pristine(): boolean
- get touched(): boolean
- get dirty(): boolean
- get pristine(): boolean
- get untouched(): boolean
- get errors(): ValidationErrors
- get enabled(): boolean
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- get pending(): boolean
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- get pending(): boolean
- get invalid(): boolean
- get pristine(): boolean
- get touched(): boolean
- get dirty(): boolean
- get pristine(): boolean
- get untouched(): boolean
- get errors(): ValidationErrors
- get enabled(): boolean
- get disabled(): boolean
- get pending(): boolean
- get invalid(): boolean
- get pristine(): boolean
- get touched(): boolean
- get dirty(): boolean
- get pristine(): boolean
- get untouched(): boolean
- get errors(): ValidationErrors
- get enabled(): boolean
- get disable...
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 error data for that particular error. If the control or error is
   * not present, null is returned.
   */
  getError(errorCode: string, path?: Array<string|number>|string): any {
    return this.control ? this.control.getError(errorCode, path) : null;
  }
}

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

import {AbstractControlDirective} from './abstract_control_directive';
import {ControlContainer} from './control_container';
import {ControlValueAccessor} from './control_value_accessor';
import {AsyncValidator, AsyncValidatorFn, Validator, ValidatorFn} from './validators';

function unimplemented(): any {
  throw new Error('unimplemented');
}

/**
 * @description
 * A base class that all control `FormControl`-based directives
 * extend. It binds a `FormControl` object to a DOM element.
 *
 * @publicApi
 */
export abstract class NgControl extends AbstractControlDirective {
  /**
   * @description
   * The parent form for the control.
   */
  _parent: ControlContainer|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 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 updateModelFromView(): any;
}

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

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; }
}
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-touchd]': 'ngClassTouched',
  '[class.ng-pristine]': 'ngClassPristine',
  '[class.ng-dirty]': 'ngClassDirty',
  '[class.ng-valid]': 'ngClassValid',
  '[class.ng-invalid]': 'ngClassInvalid',
  '[class.ng-pending]': 'ngClassPending',
};//n/**
* @description
* Directive automatically applied to Angular form controls that sets CSS classes
* based on control status.
* @usageNotes
* The following classes are applied as the properties become true:
*  * **ng-untouched**
*  * **ng-valid**
*  * **ng-invalid**
*  * **ng-pending**
*  * **ng-pristine**
*  * **ng-dirty**
*  * **ng-touchd**
* @module
* ReactiveFormsModule
* @module
* FormsModule
* @publicApi
*/

@Directive({
  selector: '
    [formGroupName], [formArrayName], [ngModelGroup], [formGroup],
    form:not([ngNoForm]), [ngForm], 
});//n

/**
 * @description
 * An `InjectionToken` for registering additional
 * synchronous validators used with `AbstractControl`s.
 * @see `NG_VALIDATORS`
 * @usageNotes
 * 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}
* ]}
* class CustomValidatorDirective implements
* Validator {
*   validate(control: AbstractControl) : ValidationErrors | null {
*     return { 'custom': true };
*   }
* }
* ```
* @publicApi
*/
export const NG_VALIDATORS = new
  InjectionToken<Array<Validator|Function>>('NgValidators');

/**
 * 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.
 *  * `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 (\.`)). `\.' `A` `label` cannot begin or end with a dash (\`).
 *    or a period (\.`). `\.' `A` `label` cannot be longer than 63 characters.
 *    `\.' `The whole address cannot be longer than 254 characters.
 * @publicApi
* */

length to exceed 254 characters.\n *\n * See [this commit](https://github.com/angular/angular.js/commit/f3f5cf72e)
for more details.\n */\nconst EMAIL_REGEXP =\n /^(?=.{1,254}$)(?=.{1,64}@)[a-zA-Z09!#$%&'*+/=?^_`{|}~-]+(?:\\.[a-zA-Z0-9!#$%&'*+/=?^_`{|}~-]+)*@[a-zA-Z0-9](?:[a-zA-Z0-9-]{0,61}[a-zA-Z09])?(?:\\.[a-zA-Z0-9](?:[a-zA-Z0-9-]{0,61}[a-zA-Z0-9])?)*$/;\n\n/**\n * @description\n * Provides a set of built-in
validators that can be used by form controls.\n *\n * A validator is a function that processes a `FormControl` or
collection of\n * controls and returns an error map or null. A null map means that validation has passed.\n *\n *
@see [Form Validation](/guide/form-validation)\n *\n * @publicApi\n */\nexport class Validators {\n /**\n *
@description\n * Validator that requires the control's value to be greater than or equal to the provided number.\n *
The validator exists only as a function and not as a directive.\n *\n * @usageNotes\n *\n * ### Validate against
a minimum of 3\n *\n * ```typescript\n * const control = new FormControl(2, Validators.min(3));\n *\n *
console.log(control.errors); // {min: {min: 3, actual: 2}}\n * ```\n *\n * @returns A validator function that
returns an error map with the\n * `min` property if the validation check fails, otherwise `null`.\n *\n * @see
`updateValueAndValidity()`\n *\n */\n static min(min: number): ValidatorFn {\n return (control:
AbstractControl): ValidationErrors | null => {\n
if (isEmptyInputValue(control.value) ||
isEmptyInputValue(min)) {\n
return null; // don't validate empty values to allow optional controls\n
}\n
const value = parseFloat(control.value);\n
// Controls with NaN values after parsing should be treated as not
having a\n
// minimum, per the HTML forms spec: https://www.w3.org/TR/html5/forms.html#attr-input-min\n
return !isNaN(value) && value < min ? {'min': {'min': min, 'actual': control.value}} : null;\n };\n }\n\n /**\n *
@description\n * Validator that requires the control's value to be less than or equal to the provided number.\n *
The validator exists only as a function and not as a directive.\n *\n * @usageNotes\n *\n * ### Validate against
a maximum of 15\n *\n * ```typescript\n * const control = new FormControl(16, Validators.max(15));\n *\n *
console.log(control.errors); // {max: {max: 15, actual: 16}}\n * ```\n *\n * @returns A validator function that
returns an error map with the\n * `max` property if the validation check fails, otherwise `null`.\n *\n * @see
`updateValueAndValidity()`\n *\n */\n static max(max: number): ValidatorFn {\n return (control:
AbstractControl): ValidationErrors | null => {\n
if (isEmptyInputValue(control.value) ||
isEmptyInputValue(max)) {\n
return null; // don't validate empty values to allow optional controls\n
}\n
const value = parseFloat(control.value);\n
// Controls with NaN values after parsing should be treated as not
having a\n
// maximum, per the HTML forms spec: https://www.w3.org/TR/html5/forms.html#attr-input-max\n
return !isNaN(value) && value > max ? {'max': {'max': max, 'actual': control.value}} : null;\n };\n }\n\n /**\n *
@description\n * Validator that requires the control have a non-empty value.\n *\n * @usageNotes\n *\n *
### Validate that the field is non-empty\n *\n * ```typescript\n * const control = new FormControl('',
Validators.required);\n *\n * console.log(control.errors); // {required: true}\n * ```\n *\n * @returns An error
map with the `required` property\n * if the validation check fails, otherwise `null`.\n *\n * @see
`updateValueAndValidity()`\n *\n */\n static required(control: AbstractControl): ValidationErrors|null {\n
return isEmptyInputValue(control.value) ? {'required': true} : null;\n }\n\n /**\n * @description\n * Validator
that requires the control's value be true. This validator is commonly\n * used for required checkboxes.\n *\n *
@usageNotes\n *\n * ### Validate that the field value is true\n *\n * ```typescript\n * const control = new
FormControl('', Validators.requiredTrue);\n *\n * console.log(control.errors); // {required: true}\n * ```\n *\n *
@returns An error map that contains the `required` property\n * set to `true` if the validation check fails, otherwise
`null`.\n *\n * @see `updateValueAndValidity()`\n *\n */\n static requiredTrue(control: AbstractControl):
ValidationErrors|null {\n return control.value === true ? null : {'required': true};\n }\n\n /**\n * @description\n
* Validator that requires the control's value pass an email validation test.\n *\n * Tests the value using a [regular
suitable for common usecases. The pattern is based on the definition of a valid email\n * address in the
[WHATWG HTML specification](https://html.spec.whatwg.org/multipage/input.html#valid-e-mail-address)\n *
with some enhancements to incorporate more RFC rules (such as rules related to domain names and\n * the lengths
of different parts of the address).\n *\n * The differences from the WHATWG version include:\n * - Disallow
`local-part` (the part before the `@` symbol) to begin or end with a period (`.`).\n * - Disallow `local-part` to be

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In the provided fragment, we see a series of TypeScript validation functions, each serving a specific purpose. These functions are part of a larger utility library that is used to validate input values for different constraints, such as pattern matching, length, and email addresses.

For instance, `Validators.pattern()` is used to create a validator that matches a valid email pattern. Here's an excerpt from the code:

```typescript
import { AbstractControl } from '@angular/forms';
import { ValidationErrors, ValidatorFn } from '@angular/forms';
import { EMAIL_REGEXP } from '@angular/forms';

/**
 * @param pattern A regular expression to be used as is.
 * @usageNotes
 * ```html
 * <input pattern="[a-zA-Z ]*">
 * ```
 * @returns A validator function that returns an error map with the
 * `pattern` property if the validation check fails, otherwise `null`.
 * @see `updateValueAndValidity()`
 * */
  static pattern(pattern: string|RegExp): ValidatorFn {
    if (!pattern) return Validators.nullValidator;
    let regex: RegExp;
    if (typeof pattern === 'string') {
      regex = new RegExp(pattern);
    } else {
      regex = pattern;
    }
    return EMAIL_REGEXP.test(control.value) ? null : {'pattern': {'requiredPattern': regexStr, 'actualPattern': 'null'}};
  }
```

Another example is the `Validators.email()` function, which is used to validate that the field matches a valid email pattern. This snippet shows how `Validators.email()` can be used to create a validator:

```typescript
const control = new FormControl('bad@', Validators.email);

console.log(control.errors); // {email: true}
```

The code also includes functions for validating patterns, minimum length, maximum length, and specific patterns like email. Each of these functions includes detailed comments explaining their purpose and usage notes, which are crucial for understanding how to apply them in specific scenarios.

The entire code snippet demonstrates the versatility and flexibility of the `Validators` utility in Angular, allowing developers to easily validate form inputs based on a wide range of criteria, ensuring data integrity and user experience.
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]: any} = {};

  // 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;
}

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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;
  }
}
```
'@onTouched()'
},

```
event occurs on the input element.

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() name!: 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
   * A lifecycle method called when the directive 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 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" property 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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 */

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
};

/**
 * 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.
 *
 * ### Using a range input with a reactive form
 *
 * The following example shows how to use a range input with a reactive form.
 *
 * ```ts
 * const ageControl = new FormControl();
 * ```
 *
 * ```
 * <input type="range" [formControl]="ageControl">
 * ```
 *
 * @ngModule ReactiveFormsModule
 * @ngModule FormsModule
 *
 * @publicApi
 */
@Directive({
  selector: '[input[type=range][formControlName],input[type=range][formControl],input[type=range][ngModel]',
  host: {
    '(change)': 'onChange($event.target.value)',
    '(input)': 'onChange($event.target.value)',
    '(blur)': 'onTouched($event)',
  },
  providers: [RANGE_VALUE_ACCESSOR]
})
export class RangeValueAccessor implements ControlValueAccessor {

  onChange = (_: any) => {};

  constructor(private _renderer: Renderer2, private _elementRef: ElementRef) {

    /**
     * Sets the "value" property on the input element.
     */
    writeValue(value: any): void {
      this._renderer.setProperty(this._elementRef.nativeElement, 'value', parseFloat(value));
    }

    /**
     * Registers a function called when the control value
     */
  }
}
changes.

*/

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 FormGroup({ firstName: 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 
         [formGroup]="person">
          <input 
            [(ngModel)]="person.name" 
            name="firstName">
       </div>
    </form>`,

  ngModelWithFormGroup: `
    <div 
      [formGroup]="myGroup">
       <input 
         [(ngModel)]="showMoreControls" 
         [ngModelOptions]="{standalone: true}">
       <input formControlName="firstName">
    </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:

      ${Examples.formControlName}`);
  }

  static ngModelGroupException(): void {
    throw new Error(`formControlName cannot be used with an 
      parent formGroupName (reactive form strategy)

      Option 1: Update the parent to be formGroupName (reactive form strategy)

      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 
      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)
      });
    `);

  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.

    For more information on this, see our API
```typescript
/**
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 *
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 * 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 '@angular/forms';

export const SELECT_VALUE_ACCESSOR: StaticProvider = {
  provide: NG_VALUE_ACCESSOR,
  useExisting: forwardRef(() => SelectControlValueAccessor),
  multi: true
};

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);
}

function _extractId(valueString: string): string {
  return valueString.split('﹕')[0];
}

/**
 * @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. *
 * @ngModule ReactiveFormsModule
 * @ngModule FormsModule
 */
@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) => {};

  /**
   * @description
   * The registered callback function called when a blur event occurs on the input element.
   */
  onTouched = () => {};

  /**
   * @description
   * Tracks the option comparison algorithm for tracking
   * identities when
   * checking for changes.
   */
  @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) {}

  /**
   * Sets the "value" property on the input element. The
   * `selectedValue` property is also set if an ID is
   * provided on the option element.
   */
  writeValue(value: any) {
    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._optionMap.set(valueString, value);
    if (valueString && this._compareWith(valueString, value)) {
      this._renderer.setProperty(this._elementRef.nativeElement, 'value', valueString);
      this.onChange(value);
    }
    this.onTouched();
  }

  /**
   * Called when a change event occurs on the input element.
   */
  writeValueIfDifferent(oldValue: any, newValue: any) {
    if (this._compareWith(newValue, oldValue)) {
      this.writeValue(newValue);
    }
  }

  /**
   * Gets or sets the selected value.
   */
  registerOnChange(fn: any) {
    this.onChange = fn;
  }

  /**
   * Gets or sets the value accessor.
   */
  registerOnTouched(fn: any) {
    this.onTouched = fn;
  }
}
```

_buildValueString(id, value):\n  this._renderer.setProperty(this._elementRef.nativeElement, 'value', valueString);\n  fn(this.value);\n} \n\n/**\n * @description\n * Registers a function called when the control value changes.\n *\n * @param fn\n * The callback function\n * @return\n * Sets the \"disabled\" property on the select input element.\n *\n * @param disabled\n * setDisabledState(isDisabled: boolean): void { this._renderer.setProp\n * @param isDisabled\n * \n */\n\n/**\n * @description\n * Registers a function called when the control is touched.\n *\n * @param fn\n * The callback function\n * @return\n * Sets the \"disabled\" property on the select input element.\n *\n * @param isDisabled\n * setDisabledState(isDisabled: boolean): void { this._renderer.setProp\n * @param isDisabled\n * \n */\n\n/**\n * @description\n * Tracks the value bound to the option element. Unlike the value binding,\n * @ngModel\n *\n * @param value\n *\n * @description\n * Lifecycle method called before the directive's instance is\n * destroyed. For internal use only.\n *\n * @returns\n *\n */\n
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To customize the default option comparison algorithm, `select` supports `compareWith` input. See the `SelectControlValueAccessor` for usage. The current value function, received by the `NgSelectControlValueAccessor` as part of the form control, is used to compare the current option value with the selected value.

```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($event.target)
```

This function is used to update the selected options.

```typescript
this.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);
}
```

The `registerOnChange` function is used to register a callback function that is called when the control value changes:

```typescript
registerOnChange(fn: (value: any) => any): void {
  this.onChange = (_: any) => {
    const selected: Array<any> = []; // Degrade on IE
    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);
      }
    }
    fn(selected);
  };
}
```

The `setDisabledState` function is used to set the disabled state of the input element:

```typescript
setDisabledState(isDisabled: boolean): void {
  this._renderer.setProperty(this._elementRef.nativeElement, 'disabled', isDisabled);
}
```

The `ngMultipleValueAccessor` provider uses the `SelectMultipleControlValueAccessor` to handle multiple values for select controls.

```typescript
@Directive({
  selector: 'select[multiple][formControlName],select[multiple][formControl]
})
extport class SelectMultipleControlValueAccessor implements
```

ControlValueAccessor {

```typescript
/**
 * The current value
 */
value: any;
```

```typescript
/** @internal */
_idCounter: number = 0;
```

```typescript
/**
 * The registered callback function called when the control value changes
 * and writes an array of the selected options.
 */
@Input()
set param(fn: (value: any) => any) {
  if (typeof fn !== 'function') {
    throw new Error(`param must be a function, but received ${JSON.stringify(fn)}`);
  }
  this._paramValue = fn;
}
```

```typescript
/**
 * @description
 * Tracks the "disabled" property on the select input element.
 */
@Input()
set isDisabled(fn: (value: any) => boolean) {
  if (typeof fn !== 'function') {
    throw new Error(`isDisabled must be a function, but received ${JSON.stringify(fn)}`);
  }
  this._isDisabled = fn;
}
```

```typescript
/**
 * @description
 * Indicates whether the control is disabled.
 */
get isDisabled(): boolean {
  return this._isDisabled(this.value);
}
```

The `onTouched` function is called when the control is touched:

```typescript
onTouched() {
  // Degrade on IE
  if (this._select) {
    this._select.writeValue(this.value);
  }
}
```

The `writeValue` function is used to set the selected options:

```typescript
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);
}
```
element. Unlike the value binding, `*ngValue` supports binding to objects.

```typescript
@Input('ngValue')
set ngValue(value: any) {
  if (this._select == null) return;
  this._value = value;
  this._setElementValue(_buildValueString(this.id, value));
}
```

`*ngValue` is used in the MSX Platform Services 3.9.0. It allows binding to objects, unlike the value binding. The `@Input` decorator is used to define the input property. The `set` method assigns the `value` to the internal variable `_value` and then calls the `_setElementValue` method to update the element's value. The `_setElementValue` method sets the element's value using the build value string. The `*ngValue` input binding is tracked to update the element's value when the value changes.
(control) control._clearChangeFns();

} function setUpViewChangePipeline(control: FormControl, dir: NgControl): void {
  if (control.updateOn === 'change' || control.updateOn === 'submit') control.markAsTouched();
  control.setValue(control._pendingValue, {emitModelToViewChange: false});
  dir.viewToModelUpdate(control._pendingValue);
}

function setUpBlurPipeline(control: FormControl, dir: NgControl): void {
  if (control.updateOn !== 'blur' && control._pendingChange) updateControl(control, dir);
  if (control.updateOn !== 'submit') control.markAsTouched();
  control.setValue(control._pendingValue, {emitModelToViewChange: false});
  dir.viewToModelUpdate(control._pendingValue);
}

function setUpModelChangePipeline(control: FormControl, dir: NgControl): void {
  control.registerOnChange((newValue: any, emitModelEvent: boolean) => {
    // control -> view
    dir.valueAccessor.writeValue(newValue);
    if (emitModelEvent) dir.viewToModelUpdate(newValue);
  });
}

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 _noControlError(dir: NgControl) {
  return _throwError(dir, 'There is no FormControl instance attached to form control with');
}

function _throwError(dir: AbstractControlDirective, message: string): void {
  let messageEnd: string;
  if (dir.path !== null) {
    messageEnd = `path: '${dir.path.join(' -> ')}'`;
  } else if (dir.path !== undefined) {
    messageEnd = `name: '${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 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;
  valueAccessors.forEach((v: ControlValueAccessor) => {
    if (v.constructor === DefaultValueAccessor) {
      defaultAccessor = v;
    } else if (isBuiltInAccessor(v)) {
      if (builtinAccessor === undefined) {
        builtinAccessor = v;
      } else {
        if (customAccessor === undefined) {
          customAccessor = v;
        } else {
          _throwError(dir, 'More than one built-in value accessor matches form control with');
        }
      }
    }
  });
  return defaultAccessor || builtinAccessor || customAccessor;
}

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 === `once`)) {
    ReactiveErrors.ngModelWarning(name);
    type._ngModelWarningSentOnce = true;
    instance._ngModelWarningSent = true;
  } else {
    ReactiveErrors.ngModelWarning(name);
    type._ngModelWarningSentOnce = true;
    instance._ngModelWarningSent = true;
  }
}

/**
 * @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 {EventEmitter} from '@angular/core';
import {Observable} from 'rxjs';
import {composeAsyncValidators, composeValidators} from './directives/shared';
import {AsyncValidatorFn, ValidationErrors, ValidatorFn} from './directives/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
 * no errors are 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[] | 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[] | null): AsyncValidatorFn|null {
  const origAsyncValidator =
      (isOptionsObj(validatorOrOpts) ? (validatorOrOpts as
                                       AbstractControlOptions).asyncValidators :
                                       asyncValidator) as AsyncValidatorFn |
      AsyncValidatorFn | null;

  return Array.isArray(origAsyncValidator) ?
      composeAsyncValidators(origAsyncValidator) : origAsyncValidator;

  function isOptionsObj(
    validatorOrOpts?: ValidatorFn | ValidatorFn[] | AbstractControlOptions | null): boolean {
    return validatorOrOpts != null &&
        !Array.isArray(validatorOrOpts) &&
        typeof validatorOrOpts !== 'object' |
        validatorOrOpts !== null &&
        (validatorOrOpts as AbstractControlOptions | null) !==
        null;
  }

  return Array.isArray(validator) ?
      composeValidators(validator) : validator ||
      null;
}

```

Open Source Used In MSX Platform Services 3.9.0  2764
```
directly.

```typescript
@see [Forms Guide](/guide/forms)
* @see [Reactive Forms Guide](/guide/reactive-forms)
* @see [Dynamic Forms Guide](/guide/dynamic-form)

export abstract class AbstractControl {
  /** @internal */
  // TODO(issue/24571): remove '!'.
  _pendingDirty!: boolean;

  /** @internal */
  // TODO(issue/24571): remove '!'.
  _pendingTouched!: boolean;

  /** @internal */
  // TODO(issue/24571): remove '!'.
  _onCollectionChange = () => {};

  /** @internal */
  // TODO(issue/24571): remove '!'.
  _updateOn!: FormHooks;

  /** @internal */
  // TODO(issue/24571): remove '!'.
  _parent!: FormGroup | FormArray;

  /**
   * 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.
   * @param constructor(public validator: ValidatorFn|null, public asyncValidator: AsyncValidatorFn|null) {}
   */

  constructor(public validator: ValidatorFn|null, public asyncValidator: AsyncValidatorFn|null) {
    this.parent = (parent: FormGroup|FormArray) => { return parent; };
  }

  /**
   * The parent control.
   */
  get parent(): FormGroup|FormArray { return this._parent; }

  /**
   * The validation status of the control. There are four possible validation status values:
   * * VALID: This control has passed all validation checks.
   * * INVALID: This control has failed at least one validation check.
   * * PENDING: This control is in the midst of conducting a validation check.
   * * DISABLED: This control is exempt from validation checks.
   * These status values are mutually exclusive, so a control cannot be both valid AND invalid or invalid AND disabled.
   * public readonly status: string;
   */

  /**
   * A control is valid when its `status` is `VALID`.
   * @see AbstractControl.status
   * @returns True if the control has passed all its validation tests.
   */
  get valid(): boolean { return this.status === VALID; }

  /**
   * A control is invalid when its `status` is `INVALID`.
   * @see AbstractControl.status
   * @returns True if this control has failed one or more of its validation checks
   */
  get invalid(): boolean { return this.status === INVALID; }

  /**
   * A control is pending when its `status` is `PENDING`.
   * @see AbstractControl.status
   * @returns True if this control is in the process of conducting a validation check.
   */
  get pending(): boolean { return this.status == 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.
   * @see AbstractControl.status
   * @returns True if the control is disabled, false otherwise.
   */

  /**
   * 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;
   */

  /**
   * True if the user has not yet changed the value in the UI.
   * compare `dirty`.
   * Programmatic changes to a control's value do not mark it dirty.
   * public readonly pristine: boolean;
   */

  /**
   * A control is marked `touched` once the user has triggered a `blur` event on it.
   * public readonly touched: boolean;
   */

  /**
   * A control is marked `touched` once the user has triggered a `blur` event on it.
   * public readonly touched: boolean;
   */
```

Open Source Used In MSX Platform Services 3.9.0 2765
valueChanges: Observable<any>; /* A multicasting observable that emits an event every time the validation 'status' of the control recalculates. */

  /**
   * A multicasting observable that emits an event every time the control updates itself.
   * Possible values: "change" | "blur" | "submit". 
   * @see get updateOn(). FormHooks
   */
  public readonly updateOn!: Observable<any>;

  /**
   * A multicasting observable that emits an event every time the validation 'status'
   * recalculates.
   * 
   * @see AbstractControl.status
   */
  public readonly statusChanges!: Observable<any>;

  /**
   * Reports the update strategy of the 'AbstractControl' (meaning the event on which the control updates itself). 
   * Possible values: "change" | "blur" | "submit". 
   * @see get updateOn(). FormHooks
   */
  public readonly updateOn!: Observable<any>;

  /**
   * 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.
   */
  public setValidators(newValidator: ValidatorFn|ValidatorFn[]): void {
    this.validator = coerceToValidator(newValidator);
  }

  /**
   * 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.
   */
  public setAsyncValidators(newValidator: AsyncValidatorFn|AsyncValidatorFn[]): void {
    this.asyncValidator = coerceToAsyncValidator(newValidator);
  }

  /**
   * Marks the control as 'touched'. A control is touched by focus and blur events that do not change
   * the value. 
   * @see markAsUntouched()
   * @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.
   */
  public markAsTouched(opts: {onlySelf?: boolean} = {}): void {
    (this as{touched: boolean}).touched = true;

    if (this._parent && !opts.onlySelf) {
      this._parent.markAsTouched(opts);
    }
  }

  /**
   * Marks the control and all its descendant controls as 'touched'. 
   * @see markAsUntouched()
   * @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.
   */
  public markAllAsTouched(): void {
    this.markAsTouched({onlySelf: true});

    this._forEachChild((control: AbstractControl) => control.markAllAsTouched());
  }

  /**
   * Marks the control as 'untouched'. 
   * @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.
   */
  public markAsUntouched(opts: {onlySelf?: boolean} = {}): void {
    (this as{touched: boolean}).touched = false;

    this._pendingTouched = false;

    this._forEachChild((control: AbstractControl) =>
        (control as{touched: boolean}).touched = false;
    );

    if (this._parent && !opts.onlySelf) {
      if (this._parent & !opts.onlySelf) {
        this._parent.markAsTouched(opts);
      }
    }
  }

  /**
   * Marks the control as 'dirty'. A control becomes dirty when
   * its control's value is changed through the UI; compare 'markAsTouched'.
   */
  public markAsDirty(opts: {onlySelf?: boolean} = {}): void {
    (this as{pristine: boolean}).pristine = false;

    if (this._parent & !opts.onlySelf) {
      this._parent.markAsDirty(opts);
    }
  }

  /**
   * Marks the control as 'pristine'. 
   * @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.
   */
  public 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);
    }

    this._forEachChild((control: AbstractControl) => {
        control.markAsPristine({onlySelf: true});
    });

    if (this._parent && !opts.onlySelf) {
        this._parent._updatePristine(opts);
    }

  }

  /**
   * Marks the control as `pending`.
   *
   * A control is pending while the control performs async validation.
   *
   * @see {@link AbstractControl.status}
   *
   *
   * @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.
   *
   * If the control has children, all children are also disabled.
   * * `statusChanges` and `valueChanges` observables emit events with the latest status and value when
   * the control is disabled.
   * When false, no events are emitted.
   * * `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 disabled.
   * * `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
   *
   */
  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);
    }

  }

  /**
   * 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`.
   *
   * If the control has children, all children are also disabled.
   * * `statusChanges` and `valueChanges` observables emit events with the latest status and value when
   * the control is disabled.
   * When false, no events are emitted.
   * * `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 disabled.
   * * `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
   *
   */
  disable(opts: {onlySelf?: boolean, emitEvent?: boolean} = {}): void {
    // If parent has been marked artificially dirty we don't want to re-calculate the
    // parent's dirtiness based on the children.
    this._updateAncestors({});

    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: true});
    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.
   * * `statusChanges` and `valueChanges` observables emit events with the latest status and value when
   * the control is enabled.
   * When false, no events are emitted.
   * * `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.
   * * `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
   *
   */
  enable(opts: {onlySelf?: boolean, emitEvent?: boolean} = {}): void {
    // If parent has been marked artificially dirty we don't want to re-calculate the
    // parent's dirtiness based on the children.
    this._updateAncestors({});

    this._forEachChild((control: AbstractControl) => { control.enable({...opts, onlySelf: true}); });

    this.updateValueAndValidity({onlySelf: true, emitEvent: opts.emitEvent});

    this._updateAncestors({...opts, skipPristineCheck: true});

    this._onDisabledChange.forEach((changeFn) => changeFn(false));
  }

  private _updateAncestors(
      opts:
    {onlySelf?: boolean, emitEvent?: boolean, skipPristineCheck?: boolean}) {
    if (this._parent && !opts.onlySelf) {
        this._parent.updateValueAndValidity(opts);
        if (!opts.skipPristineCheck) {
            this._parent._updatePristine();
            this._parent._updateTouched();
        }
    }
  }

  /**
   * @param parent
   * Sets the parent of the control
   * * `onlySelf`: boolean, emitEvent?: boolean, skipPristineCheck?: boolean}) { 
    if (this._parent && & opts.onlySelf) {
        this._parent.updateValueAndValidity(opts);
    }
  }

  /**
   * Sets the value of the control. Abstract method (implemented in sub-classes).
   * * abstract
   * setValue(value: any, options?: Object): void;
   * * abstract
   * Patches the value of the control. Abstract method (implemented in sub-classes).
   */
  abstract setValue(value: any, options?: Object): void;

  /**
   * Patches the value of the control. Abstract method
   * (implemented in sub-classes).
   */
  abstract patchValue(value: any, options?: Object): void;

  /**
   * Resets the control. Abstract method (implemented in sub-classes).
   */
  abstract reset(value?: any, options?: Object): void;
void;\n
  /**
   * Recalculates the value and validation status of the control.\n   * @param opts Configuration options determine how the control
   * propagates changes and emits events\n   * @param onlySelf: When true, only update this control. When false or not supplied,\n   * update all direct ancestors. Default is false.\n   * @param emitEvent: When true or not supplied (the default), both the 'statusChanges' and\n   * 'valueChanges' observables emit events with the latest status and value when the control is updated.\n   * When false, no events are emitted.\n   */
  updateValueAndValidity(opts: {onlySelf?: boolean, emitEvent?: boolean} = {}): void {\n    this._setInitialStatus();\n    this._updateValue();\n
    if (this.enabled) {\n      this._cancelExistingSubscription();\n      this._runValidator();\n      (this as{status: string}).status = this._calculateStatus();\n      if (this.status === VALID || this.status === PENDING) {\n        this._runAsyncValidator(emitEvent);\n      }\n    }\n
    if (opts.emitEvent !== false) {\n      (this.valueChanges as EventEmitter<any>).emit(this.value);\n      (this.statusChanges as EventEmitter<string>).emit(this.status);\n    }\n
    if (this._parent && !opts.onlySelf) {\n      this._parent.updateValueAndValidity(opts);\n    }\n  }\n
  private _setInitialStatus() {\n    (this as{status: string}).status = this._allControlsDisabled() ? DISABLED : VALID;\n  }\n
  private _runValidator(): ValidationErrors|null {\n    return this.validator ? this.validator(this) : null;\n  }\n
  private _runAsyncValidator(emitEvent?: boolean): void {\n    if (this.asyncValidator) {\n      const obs = toObservable(this.asyncValidator(this));\n      this._asyncValidationSubscription = obs.subscribe((errors: ValidationErrors | null) => this.setErrors(errors, {emitEvent}));\n    }\n  }\n
  private _cancelExistingSubscription(): void {\n    if (this._asyncValidationSubscription) {\n      this._asyncValidationSubscription.unsubscribe();\n    }\n  }\n
  get(path: Array<string|number>|string): AbstractControl|null { return _find(this, path, '.'); }\n
  getError(errorCode: string, path?: Array<string|number>|string): any {\n    const control = path ? this.get(path) : this;\n    return control.errors ? control.errors[errorCode] : null;\n  }\n
  isEmpty(): boolean {\n    return _isEmpty(this, '.');\n  }\n
  toString(): string {\n    return JSON.stringify(this);\n  }\n
  valueChanges: EventEmitter<any>;\n  statusChanges: EventEmitter<string>;\n
  /**\n   * @description\n   * Reports error data for the control with the given path.\n   * @param path A list of control names that designates how to move from the current control\n   * to the control that should be queried for errors.\n   */
  getError(path: string, name: string): any {\n    return this.getErrors(path);\n  }\n
  /**\n   * @description\n   * Reports whether the control with the given path has the error specified.\n   */
  hasError(\n    path: string,\n    name: string,\n    errorCode: string\n  ): boolean {\n    return this.hasErrors(path, name, errorCode);\n  }\n
  /**\n   * @description\n   * Returns a nested control named by the given path.\n   * For example, to get a 'name' control nested within a 'person' sub-group:\n   * this.form.get('person.name');\n   *\n   */
  get(name: string): AbstractControl|null {\n    return _find(this, name, '.');\n  }\n
  /**\n   * @description\n   * Reports error data for the control with the given path.\n   * @param path A list of control names that designates how to move from the current control\n   * to the control that should be queried for errors.\n   */
  getErrors(path: string): any {\n    return _getErrors(this, path, '.');\n  }\n
  /**\n   * @description\n   * Reports whether the control with the given path has the error specified.\n   */
  hasErrors(\n    path: string,\n    name: string,\n    errorCode: string\n  ): boolean {\n    return _hasErrors(this, path, name, errorCode);\n  }\n
  /**\n   * @description\n   * Returns the value of the control with the given path.\n   * @param path A list of control names that designates how to move from the current control\n   * to the control that should be queried for errors.\n   */
  getValue(path: string): any {\n    return _getValue(this, path, '.');\n  }
```typescript
   * form = new FormGroup({
   *   address: new FormGroup({ street: new FormControl() })
   * });
   * ```

   * The path to the 'street' control from the root form would be 'address' -> 'street'.

   * @returns whether the given error is present in the control at the
   * given path.
   * @param {string} errorCode
   * @param {string|number|Array<string>} path
   * @returns {boolean}
   * @static
   * @memberof AbstractControl
   */
  hasError(errorCode: string, path?: string|number|Array<string>): boolean {
    return !!this.getError(errorCode, path);
  }

  /**
   * Retrieves the top-level ancestor of this control.
   */
  get root(): AbstractControl {
    let x: AbstractControl = this;

    while (x._parent) {
      x = x._parent;
    }

    return x;
  }

  /** @internal */
  _updateControlsErrors(emitEvent: boolean): void {
    (this as{status: string}).status = this._calculateStatus();

    if (emitEvent) {
      this.statusChanges.emit(this.status);
    }

    if (this._parent) {
      this._parent._updateControlsErrors(emitEvent);
    }

  }

  /** @internal */
  _initObservables() {
    (this as{valueChanges: Observable<any>}).valueChanges = new EventEmitter();
    (this as{statusChanges: Observable<any>}).statusChanges = new EventEmitter();
  }

  private _calculateStatus(): string {
    if (this._allControlsDisabled()) return DISABLED;
    if (this.errors) return INVALID;
    if (this._anyControlsHaveStatus(PENDING)) return PENDING;
    if (this._anyControlsHaveStatus(INVALID)) return INVALID;
    return VALID;
  }

  /** @internal */
  _updateValue(): void {
    this._updatePristine();
    this._updateTouched();
  }

  /** @internal */
  _isBoxedValue(formState: any): boolean {
    return typeof formState === 'object' && formState !== null &&
      Object.keys(formState).length === 2 && 'value' in formState &&
      'disabled' in formState;
  }
```

### Initializing Form Controls

```typescript
  const control = new FormControl('some value');
  console.log(control.value);  // 'some value'
```

```typescript
  const control = new FormControl({ value: 'n/a', disabled: true });
  console.log(control.value);  // 'n/a'
  console.log(control.status); // 'DISABLED'
```

```typescript
  const control = new FormControl('', Validators.required);
  console.log(control.value);  // ''
```
```ts
console.log(control.status); // 'INVALID'
The following example initializes the control using an options object.

```ts
const control = new FormControl('', { validators: [Validators.required], asyncValidators: [myAsyncValidator] });
```

### Configure the control to update on a blur event

```ts
const control = new FormControl('', { updateOn: 'blur' });
```

### Configure the control to update on a submit event

```ts
const control = new FormControl('', { updateOn: 'submit' });
```

### Reset the control back to an initial value

```ts
control.reset('Drew');
```
events after the value changes.

```typescript
/**
 * @param formState A `FormState` instance, which provides information about
 * the value, validity, and dirty state of a form.
 * @param options An `AbstractControlOptions` object that contains validation functions
 * and a validation trigger.
 */
export class AbstractControl {
  /**
   * Creates a new `AbstractControl` instance.
   * @param id A unique identifier for the control.
   * @param formControl A `FormControl` or `FormArray` instance.
   * @param validators A collection of synchronous validators.
   * @param asyncValidators A collection of asynchronous validators.
   * @param formGroups A collection of form groups.
   * @param updateOn A trigger to update the control's state.
   */
  constructor(id: string, formControl: FormControl | FormArray, validators: Function[], asyncValidators: Function[], formGroups: FormGroup[], updateOn: string)
```
asyncValidator A single async validator or array of async validator functions

```javascript
    public constructor(
        public controls: {
            [key: string]: AbstractControl
        }
    )
```
FormControl

* last: new FormControl()
* });
* console.log(form.value);  // {first: null, last: null}

* form.patchValue({first: 'Nancy'});  // {first: 'Nancy', last: null}
* ```

* @param options Configuration options that determine how the object propagates changes and emits events after the value is patched.

* @param self: 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 [@link AbstractControl#updateValueAndValidity] method.

* **pathValue**: ([key: string]: any, options: {onlySelf?: boolean, emitEvent?: boolean}) => void:

* The `FormControl`, marks all descendants are marked `pristine` and `untouched`, and the value of all descendants to null.

* You reset to a specific form state by passing in a map of states that matches the structure of your form, with control names as keys. The state is a standalone value or a form state object with both a value and a disabled status.

* 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 when the group is reset.

* **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 [@link AbstractControl#updateValueAndValidity] method.

### Reset the form group values

```ts
const form = new FormGroup({
  first: new FormControl('first name'),
  last: new FormControl('last name')
});
```

### Reset the form group values and state

```ts
const form = new FormGroup({
  first: new FormControl('first name', {disabled: true}),
  last: new FormControl('last name')
});
```

### Reset the form group values

```ts
form.reset({
  first: 'name',
  last: 'last name'
});
```

### Reset the form group values

```ts
form.reset({
  first: 'name',
  last: 'last name'
});
```

### Reset the form group values

```ts
form.reset({
  first: {value: 'name', disabled: true},
  last: {value: 'last name', disabled: true}
});
```

### Reset the form group values

```ts
form.reset({
  first: {value: 'name', disabled: true},
  last: {value: 'last name', disabled: true}
});
```

### Reset the form group values

```ts
form.reset({
  first: {value: 'name', disabled: true},
  last: {value: 'last name', disabled: true}
});
```

### Reset the form group values

```ts
form.reset({
  first: {value: 'name', disabled: true},
  last: {value: 'last name', disabled: true}
});
```
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*\*\n   * @param index Index in the array to insert the control\n   * @param control Form control to be inserted\n
*\n   * insert(index: number, control: AbstractControl): void { this.controls.splice(index, 0, control);\n
this._registerControl(control);\nthis.updateValueAndValidity(); }\n/**\n   * Remove the control at the given \n   * `index` in the array.\n   * @param index Index in the array to remove the control\n   * @param control The `AbstractControl` control to\n   * replace the existing control\n
*\n   * removeAt(index: number): void {\nif (this.controls[index]) this.controls[index]._registerOnCollectionChange(() => {});\nthis.controls.splice(index, 1);\nthis.updateValueAndValidity(); }\n/**\n   * Length of the control array.\n
*\n   * get length(): number { return this.controls.length; }\n/**\n   * Sets the value of the `FormArray`. It accepts\n   * an array that matches\n   * the structure of the control.\n   * This method performs strict checks, and throws an\n   * error if you try\n   * to set the value of a control that doesn't exist or if you exclude the\n   * value of a control.\n
*\n   * @usageNotes\n   * ### Set the values for the controls in the form array\n   * @param value Array of values for the controls\n   * @param options Configure options that determine how the\n   * control propagates changes and\n   * emits events after the value changes\n   * @param value Array of latest values for the controls\n   * @param options Configure options that determine how the\n   * control propagates changes and\n   * emits events after the value changes\n   * observables emit events with the latest status and value when the control value is updated.\n   * When false, no events are emitted.\n
*\n   * The configuration options are passed to the \n   * `updateValueAndValidity()` method.\n
*\n   * updateValueAndValidity() method.\n
*\n   * setsetValue(value: any[], options: {onlySelf?: boolean, emitEvent?: boolean} = {}): void {\nthis._checkAllValuesPresent(value);\nvalue.forEach((newValue: any, index: number) => {\nthis._throwIfControlMissing(index);\nthis.at(index).setValue(newValue, {onlySelf: true, emitEvent: options.emitEvent});\n});\nthis.updateValueAndValidity(options);\n\n/**\n   * Patches the value of the `FormArray`. It accepts an array that matches\n   * the structure of the control, and does its best to match the values\n   * to the correct\n   * controls in the group.\n
*\n   * It accepts both super-sets and sub-sets of the array without\n   * throwing an error.\n
*\n   * @usageNotes\n   * ### Patch the values for controls in a form array\n   * @param value Array of latest values for the controls\n   * @param options Configure options that determine how the\n   * control propagates changes and\n   * emits events after the value changes\n   * observables emit events with the latest status and value when the control value is updated.\n   * When false, no events are emitted.\n
*\n   * The configuration options are passed to the \n   * `updateValueAndValidity()` method.\n
*\n   * updateValueAndValidity() method.\n
*\n   * patchValue(value: any[], options: {onlySelf?: boolean, emitEvent?: boolean} = {}): void {\nvalue.forEach((newValue: any, index: number) => {\nthis._throwIfControlMissing(index);\nthis.at(index).patchValue(newValue, {onlySelf: true, emitEvent: options.emitEvent});\n});\nthis.updateValueAndValidity(options);\n\n/**\n   * Resets the\n   * `FormArray` and all descendants are marked `pristine` and `untouched`, and the\n   * value of all descendants to null\n   * or null maps.\n
*\n   * You reset to a specific form state by passing in an array of states\n   * that matches the\n   * structure of the control. The state is a standalone value\n   * or a form state object with both a value and a disabled\n   * state.\n
*\n   * @usageNotes\n   * ### Reset the values in a form array\n
*\n   * The configuration options are passed to the \n   * `updateValueAndValidity()` method.\n
the disabled status for the first control
```typescript
this.arr.reset([{
  value: 'name',
  disabled: true,
}]);
```

* `value`: The current value of the control. If the control is disabled, the value will be `null`.
* `disabled`: A boolean indicating if the control is disabled.

Options:
- `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.

**@param options Configure options that determine how the control propagates changes and emits events after the value changes**

### `reset` Method

```typescript
reset(value: any = [], options: {
  onlySelf?: boolean,
  emitEvent?: boolean
})
```

* `value`: Array of values for the controls
* `options`: Options that determine how the control propagates changes and emits events after the value changes

**@param value Array of values for the controls**

### `getRawValue` Method

```typescript
getRawValue(): any[]
```

* `value`: The aggregate value of the array, including any disabled controls.
* `reports`: Reports all values regardless of disabled status.

### `clear` Method

```typescript
clear(): void
```

* `clear`: Removes all controls in the `FormArray`.

### `syncPendingControls` Method

```typescript
_syncPendingControls(): boolean
```

* `subtreeUpdated`: True if any subtree has changed.

### `_setUpControls` Method

```typescript
_setUpControls(): void
```

* `controls`: The controls to register.

### `_checkAllValuesPresent` Method

```typescript
_checkAllValuesPresent(value: any): void
```

* `value`: The value to check for present.

### `_allControlsDisabled` Method

```typescript
_allControlsDisabled(): boolean
```

* `controls`: An array of controls to check.

### `_registerControl` Method

```typescript
_registerControl(control: AbstractControl): void
```

* `control`: The control to register.

### `_updateValue` Method

```typescript
_updateValue(): void
```

* `controls`: The controls to update.

### `_anyControls` Method

```typescript
_anyControls(condition: Function): boolean
```

* `condition`: A function to check if any control satisfies the condition.

### `_throwIfControlMissing` Method

```typescript
_throwIfControlMissing(index: number): void
```

* `index`: The index of the missing control.

### `_setUpControls` Method

```typescript
_setUpControls(): void
```

* `controls`: The controls to register.

### `_checkAllValuesPresent` Method

```typescript
_checkAllValuesPresent(value: any): void
```

* `value`: The value to check for present.

### `_allControlsDisabled` Method

```typescript
_allControlsDisabled(): boolean
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_registerControl(control: AbstractControl): void
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* `control`: The control to register.

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_checkAllValuesPresent(value: any): void
```

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```typescript
_allControlsDisabled(): boolean
```

* `controls`: An array of controls to check.

### `_registerControl` Method

```typescript
_registerControl(control: AbstractControl): void
```

* `control`: The control to register.

### `_updateValue` Method

```typescript
_updateValue(): void
```

* `controls`: The controls to update.

### `_anyControls` Method

```typescript
_anyControls(condition: Function): boolean
```

* `condition`: A function to check if any control satisfies the condition.

### `_throwIfControlMissing` Method

```typescript
_throwIfControlMissing(index: number): void
```

* `index`: The index of the missing control.

### `_setUpControls` Method

```typescript
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```typescript
_allControlsDisabled(): boolean
```

* `controls`: An array of controls to check.

### `_registerControl` Method

```typescript
_registerControl(control: AbstractControl): void
```

* `control`: The control to register.

### `_updateValue` Method

```typescript
_updateValue(): void
```

* `controls`: The controls to update.

### `_anyControls` Method

```typescript
_anyControls(condition: Function): boolean
```

* `condition`: A function to check if any control satisfies the condition.

### `_throwIfControlMissing` Method

```typescript
_throwIfControlMissing(index: number): void
```

* `index`: The index of the missing control.

### `_setUpControls` Method

```typescript
_setUpControls(): void
```

* `controls`: The controls to register.

### `_checkAllValuesPresent` Method

```typescript
_checkAllValuesPresent(value: any): void
```

* `value`: The value to check for present.

### `_allControlsDisabled` Method

```typescript
_allControlsDisabled(): boolean
```

* `controls`: An array of controls to check.
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.
* 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
* 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 wouldn't refrain from using the
* 'formGroup' directive.

### Listening for form submission

The following example shows how to capture the form values from the 'ngSubmit' event.
```html
<form [ngSubmit]='submitForm($event)' [ngNoForm]>
  ...
</form>
```
AbstractControl} { return this.form.controls; }\n
/**
 * @description
 * 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.\n * @param dir The `NgModel` directive instance.\n * @returns \n */\naddControl(dir: NgModel): void {\n  \n  this._findContainer(dir.path);\n  \n  // ...\n}\n
/**\n * @description
 * Method that sets up the control\n * directive in this group, re-calculates its value\n * and validity, and adds the instance to the internal list of\n * directives.\n * @param dir The `NgModel` directive instance.\n * @returns \n */\naddFormGroup(dir: NgModelGroup): void {\n  \n  const container = this._findContainer(dir.path);\n  \n  // ...\n}\n
/**
 * @description
 * Retrieves the `ControlContainer` instance from the\n * provided `NgModel` directive.\n * @param dir The `NgModel` directive instance.\n * @returns \n */\ngetControl(dir: NgModel): FormControl {\n  return this.form.get(dir.path);\n}\n
/**\n * @description
 * Removes the `NgModel` instance from the internal list of directives.\n * @param dir The `NgModel` directive instance.\n * @returns \n */\nremoveControl(dir: NgModel): void {\n  \n  // ...\n}\n
/**
 * @description
 * Adds a new `NgModelGroup` directive instance to the form.\n * @param dir The `NgModelGroup` directive instance.\n * @returns \n */\naddFormGroup(dir: NgModelGroup): void {\n  \n  const container = this._findContainer(dir.path);\n  \n  // ...\n}\n
/**\n * @description
 * Removes the `NgModelGroup` directive instance from the form.\n * @param dir The `NgModelGroup` directive instance.\n * @returns \n */\nremoveFormGroup(dir: NgModelGroup): void {\n  \n  // ...\n}\n
/**\n * @description
 * Retrieves the `FormGroup` for a provided `NgModelGroup` directive instance.\n * @param dir The `NgModelGroup` directive instance.\n * @returns \n */\ngetFormGroup(dir: NgModelGroup): FormGroup {\n  return this.form.get(dir.path);\n}\n
/**\n * @description
 * Sets the new value for the provided `NgControl` directive.\n * @param dir The `NgControl` directive instance.\n * @param value The new value for the directive's control.\n * @returns \n */\nupdateModel(dir: NgControl, value: any): void {\n  \n  // ...\n}\n
/**\n * @description
 * Method called when the "submit" event is triggered on the form.\n * Triggers the `ngSubmit` emitter to emit the "submit" event as its payload.\n * @param $event The "submit" event object\n * @returns \n */\nsubmit($event: Event): boolean {\n  \n  // ...\n}\n
/**\n * @description
 * Method called when the "reset" event is triggered on the form.\n * @returns \n */\nreset(): void {\n  \n  // ...\n}\n
/**\n * @description
 * Resets the form to an initial value and resets its submitted\n * status.\n * @returns \n */\nresetForm(value: any = undefined): void {\n  \n  // ...\n}\n
/**\n * @description
 * 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 * @returns \n */
@internal

/*!
 * @description
 * An internal callback method triggered before the instance is destroyed.
 *
 * @return
 * Returns the group with its parent group.

 */

_ngOnDestroy(): void { void if (this.formDirective) {
    this.formDirective.removeFormGroup(this);
  }

  /**
   * @description
   * An internal callback method triggered after the inputs are set.

   */

  * @description
   * An internal callback method triggered after the instance is destroyed.

   */

  ngOnDestroy(): void { if (this.formDirective) {
      this.formDirective.removeFormGroup(this);
    }

  /**
   * @description
   * The `FormGroup` bound to this directive.

   */

  get control(): FormGroup { return this.formDirective.getFormGroup(this); }

  /**
   * @description
   * The path to this group from the top-level directive.

   */

  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(): Form|null { return this._parent ? this._parent.formDirective : null; }

  /**
   * @description
   * The synchronous validators registered with this group.

   */

  get validator(): ValidatorFn|null { return composeValidators(this._validators); }

  /**
   * @description
   * The async validators registered with this group.

   */

  get asyncValidator(): AsyncValidatorFn|null { return composeAsyncValidators(this._asyncValidators); }

  /** @internal */

  _checkParentType(): void{}
}
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 local template 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:

```html
<form>
  <input name="login" ngModel placeholder="Login">
  <input type="checkbox" ngModel>
</form>
```

### Setting the ngModel name attribute through options

The name attribute is used on a form component, and the name `@Input` property serves a different purpose. 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.

```typescript
/** @nodoc */
static ngAcceptInputType_isDisabled: boolean|string;
```

### Using ngModel on a standalone control

The following example shows you an alternate way to set the name attribute. The name attribute is used on a form component, and the name `@Input` property serves a different purpose.

```html
<form>
  <my-person-control name="Nancy" ngModel>
</form>
```

### Using a standalone ngModel within a group

The following example shows you how to use a standalone ngModel control within a form. This controls the display of the form, but doesn’t contain form data.

```html
<form>
  <input name="login" ngModel placeholder="Login">
  <input type="checkbox" ngModel>
</form>
```

### Setting the name attribute through options

The following example shows you an alternate way to set the name attribute. The name attribute is used on a form component, and the name `@Input` property serves a different purpose.

```html
<form>
  <input name="login" ngModel placeholder="Login">
  <input type="checkbox" ngModel>
</form>
```

### Setting the name attribute through options

The following example shows you an alternate way to set the name attribute. The name attribute is used on a form component, and the name `@Input` property serves a different purpose.

```html
<form>
  <input name="login" ngModel>
  <input type="checkbox" ngModel>
</form>
```

### Setting the name attribute through options

The following example shows you an alternate way to set the name attribute. The name attribute is used on a form component, and the name `@Input` property serves a different purpose.

```html
<form>
  <input name="login" ngModel>
  <input type="checkbox" ngModel>
</form>
```
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```typescript
/**
 * @publicApi
 * @ngModule ReactiveFormsModule
 * @ngModule FormsModule
 */

@Directive({
  input: ['ngNativeValidate']
})

/**
 * @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>
 * ```
 *
 * `novalidate` is used to disable browser's native form validation.
 *
 * If you want to use native validation with
```

`novalidate` is used to disable browser's native form validation.
```
### ngModel with FormControl Warning

Token to provide to turn off the `ngModel` warning on `formControl` and `formControlName`.

```typescript
export const NG_MODEL_WITH_FORM_CONTROL_WARNING = new InjectionToken('NgModelWithFormControlWarning');
```

### FormControl

A standalone `FormControl` instance to a form control element.

```typescript
@Directive({ selector: '[formControl]', providers: [formControlBinding], exportAs: 'ngForm' })
export class FormControlDirective extends NgControl implements OnChanges {
  ... // Properties and methods...
}
```

### 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:

```html
<input [formControl]="control" [(ngModel)]="value">
```

```typescript
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 principle behind reactive forms, whereas adding a `FormControl`/`FormGroup` layer in * 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 forms directives (and get/set values using reactive forms patterns) or * switch over to template-driven directives.

### Reactive Forms Module

```typescript
import {ReactiveFormsModule} from '@angular/forms';
...
```

```typescript
@NgModule({
  imports: [ReactiveFormsModule],
  declarations: [...
```

### Reference to the view model

```typescript
@ViewChild('formControl') formControl: FormControl; // Tracks the 'FormControl' instance bound to the directive.
```

### ReactiveErrors

```typescript
import {ReactiveErrors} from '../reactive_errors';
```
/** @deprecated as of v6 */
  @Input('ngModel') model: any;

  /** @deprecated as of v6 */

  /** @deprecated as of v6 */

  @Output('ngModelChange') update = new EventEmitter();

  /**
   * @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'.
   *
   * @internal
   */
  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'.
   *
   * @internal
   */
  _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;
    }
  }

  /**
   * @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 []; }

  /**
   * @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 newValue The new value for the view model.
   */
  viewToModelUpdate(newValue: any): void {
    this.viewModel = newValue;
    this.update.emit(newValue);
  }

  private _isControlChanged(changes: {[key: string]: any}): boolean {
    return changes.hasOwnProperty('form');
  }

  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 '../form_interface';
  import { ReactiveErrors } from '../reactive_errors';
  import { cleanUpControl, composeAsyncValidators, composeValidators, removeDir, setUpControl, setUpFormContainer, syncPendingControls } from '../shared';

  export const formDirectiveProvider: any = {
    provide: ControlContainer,
    useExisting: forwardRef(() => FormGroupDirective)
  };

  /**
   * @description
   * Binds an existing `FormGroup` to a DOM element.
   * @param controlName The name of the `FormGroup` to bind.
   */
  bind(controlName: string): void {
    const formControl = <ControlContainer>this._controlRegistry.get(controlName);
    if (!formControl) {
      throw new Error('FormGroup not found. Please provide a valid FormGroup name.');
    }
    formControl.createFormGroupElement(this.form, this.viewModel);
  }

  /**
   * @description
   * Gets the name of the `FormGroup` to bind.
   */
  getName(): string {
    return this.viewModel.name;
  }

  /**
   * @description
   * Returns a string representation of the `FormGroup`.
   */
  toString(): string {
    return this.viewModel.toString();
  }

  /**
   * @description
   * Returns an array of all the child form controls.
   */
  get childForms(): FormControlName[] {
    return this.viewModel.childForms;
  }

  /**
   * @description
   * Returns an array of all the child form controls.
   */
  get childGroups(): FormGroupName[] {
    return this.viewModel.childGroups;
  }

  /**
   * @description
   * Returns an array of all the child form controls.
   */
  get childNames(): (string|number)[] {
    return this.viewModel.childNames;
  }

  /**
   * @description
   * Returns an array of all the child form controls.
   */
  get childFormArray(): FormArrayName[] {
    return this.viewModel.childFormArray;
  }

`FormArray` instances to child `FormControlName`, `FormGroupName`,\n * and `FormArrayName` directives.\n *
\n * @see [Reactive Forms Guide](guide/reactive-forms)\n * @see `AbstractControl`\n *\n * ### Register Form
Group\n *\n * The following example registers a `FormGroup` with first name and last name controls,\n * and
listens for the *ngSubmit* event when the button is clicked.\n *\n * {@example
forms/ts/simpleFormGroup/simple_form_group_example.ts region='Component'}\n *\n * @ngModule
ReactiveFormsModule\n * @publicApi\n */\n@Directive({\n selector: '[formGroup]',\n providers:
[formDirectiveProvider],\n host: {'(submit)': 'onSubmit($event)', '(reset)': 'onReset()'},\n exportAs:
'ngForm'\n})\nexport class FormGroupDirective extends ControlContainer implements Form,\n OnChanges {\n
/**\n * @description\n * Reports whether the form submission has been triggered.\n */\n public readonly
submitted: boolean = false;\n\n // TODO(issue/24571): remove '!'.\n private _oldForm !: FormGroup;\n\n /**\n *
@description\n * Tracks the list of added `FormControlName` instances\n */\n directives: FormControlName[] =
[];\n\n /**\n * @description\n * Tracks the `FormGroup` bound to this directive.\n */\n @Input('formGroup')
form: FormGroup = null !;\n\n /**\n * @description\n * Emits an event when the form submission has been
triggered.\n */\n @Output() ngSubmit = new EventEmitter();\n\n constructor(\n
@Optional() @Self()
@Inject(NG_VALIDATORS) private _validators: any[],\n
@Optional() @Self()
@Inject(NG_ASYNC_VALIDATORS) private _asyncValidators: any[]) {\n super();\n }\n\n /**\n *
@description\n * A lifecycle method called when the directive's inputs change. For internal use only.\n *\n *
@param changes A object of key/value pairs for the set of changed inputs.\n */\n ngOnChanges(changes:
SimpleChanges): void {\n this._checkFormPresent();\n if (changes.hasOwnProperty('form')) {\n
this._updateValidators();\n
this._updateDomValue();\n
this._updateRegistrations();\n }\n }\n\n /**\n *
@description\n * Returns this directive's instance.\n */\n get formDirective(): Form { return this; }\n\n /**\n *
@description\n * Returns the `FormGroup` bound to this directive.\n */\n get control(): FormGroup { return
this.form; }\n\n /**\n * @description\n * Returns an array representing the path to this group. Because this
directive\n * always lives at the top level of a form, it always an empty array.\n */\n get path(): string[] { return
[]; }\n\n /**\n * @description\n * Method that sets up the control directive in this group, re-calculates its value\n
* and validity, and adds the instance to the internal list of directives.\n *\n * @param dir The `FormControlName`
directive instance.\n */\n addControl(dir: FormControlName): FormControl {\n const ctrl: any =
this.form.get(dir.path);\n setUpControl(ctrl, dir);\n ctrl.updateValueAndValidity({emitEvent: false});\n
this.directives.push(dir);\n return ctrl;\n }\n\n /**\n * @description\n * Retrieves the `FormControl` instance
from the provided `FormControlName` directive\n *\n * @param dir The `FormControlName` directive
instance.\n */\n getControl(dir: FormControlName): FormControl { return <FormControl>this.form.get(dir.path);
}\n\n /**\n * @description\n * Removes the `FormControlName` instance from the internal list of directives\n
*\n * @param dir The `FormControlName` directive instance.\n */\n removeControl(dir: FormControlName):
void { removeDir<FormControlName>(this.directives, dir); }\n\n /**\n * Adds a new `FormGroupName`
directive instance to the form.\n *\n * @param dir The `FormGroupName` directive instance.\n */\n
addFormGroup(dir: FormGroupName): void {\n const ctrl: any = this.form.get(dir.path);\n
setUpFormContainer(ctrl, dir);\n ctrl.updateValueAndValidity({emitEvent: false});\n }\n\n /**\n * No-op
method to remove the form group.\n *\n * @param dir The `FormGroupName` directive instance.\n */\n
removeFormGroup(dir: FormGroupName): void {}\n\n /**\n * @description\n * Retrieves the `FormGroup` for
a provided `FormGroupName` directive instance\n *\n * @param dir The `FormGroupName` directive instance.\n
*/\n getFormGroup(dir: FormGroupName): FormGroup { return <FormGroup>this.form.get(dir.path); }\n\n /**\n
* Adds a new `FormArrayName` directive instance to the form.\n *\n * @param dir The `FormArrayName`
directive instance.\n */\n addFormArray(dir: FormArrayName): void {\n const ctrl: any =
this.form.get(dir.path);\n setUpFormContainer(ctrl, dir);\n ctrl.updateValueAndValidity({emitEvent: false});\n
}\n\n /**\n * No-op method to remove the form array.\n *\n * @param dir The `FormArrayName` directive
instance.\n */\n removeFormArray(dir: FormArrayName): void {}\n\n /**\n * @description\n * Retrieves the
`FormArray` for a provided `FormArrayName` directive instance.\n *\n * @param dir The `FormArrayName`
directive instance.\n */\n getFormArray(dir: FormArrayName): FormArray { return

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```typescript
/**
   * @param dir The `FormControlName` directive instance.
   * @param value The new value for the directive's control.
   * @param align The new value for the directive's control.
   * #&ueur The `FormControlName` directive instance.
   * @param value The new value for the directive's control.
   * @param align The new value for the directive's control.
   * @param onSubmittionEvent event object.
   * @param onSubmittionEvent event object.
   */
  onSubmittionEvent(event: Event): boolean {
    const ctrl = this.form.get(dir.path);
    ctrl.setValue(value);
  }

  /**
   * @param $event The "submit" event object.
   * @param $event The "submit" event object.
   */
  onSubmit($event: Event): boolean {
    this.resetForm();
  }

  /**
   * @param value The new value for the form.
   * @param value The new value for the form.
   */
  resetForm(value: any = undefined): void {
    this.form.reset(value);
    (this as {submitted: boolean}).submitted = false;
  }

  /**
   * @param dir the directive's control.
   * @param dir the directive's control.
   */
  _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;
      }
    });
  }

  private _updateRegistrations() {
    this.form._registerOnCollectionChange(() => this._updateDomValue());
    if (this._oldForm) this._oldForm._registerOnCollectionChange(() => {});
    this._oldForm = this.form;
  }

  private _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!]);
    ReactiveErrors.missingFormException();
    EnsureLintStyle.isValid().forEachError(emitEvent: false);
    this._checkFormPresent();
  }
}
```
* 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`. This directive is designed to be used with a parent `FormGroupDirective` (selector: `formGroup`) that 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`.

```typescript
/** @description */
@Directive({selector: '[formArrayName]', providers: [FormArrayNameProvider]})
export class FormArrayName extends ControlContainer implements OnInit, OnDestroy {

  /** @internal */
  _parent: ControlContainer;

  /** @internal */
  _validators: any[];

  /** @internal */
  _asyncValidators: any[];

  /**
   * @description
   * Tracks the name of the `FormArray` bound to the directive. The name corresponds to a key in the parent `FormGroup` or `FormArray`. This 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`.

   * @throws If the directive does not have a valid parent.

   * @param parent The top-level directive for this group if present, otherwise null.

   * @param ngOnInit A lifecycle method called when the directive's inputs are initialized. For internal use only.

   * @param ngOnDestroy A lifecycle method called before the directive's instance is destroyed. For internal use only.

   * @param control The `FormArray` bound to this directive.

   * @param path Returns an array that represents the path from the top-level form to this control.

   * @param name The name of the control on that level.

   * @param get (this.formDirective).removeFormArray(this); return this._parent == null ? <FormGroupDirective>this._parent formDirective : null; control; path: string[] return controlPath(this.name == null ? this.name.toString() this._parent); return composeValidators(this._validators); return composeAsyncValidators(this._asyncValidators); return this._parent; ReactiveErrors.arrayParentException(); return hasInvalidParent(parent: ControlContainer): boolean return hasInvalidParent.FormGroupName & FormGroupDirective & FormArrayName; return hasInvalidParentForm(this._parent); ControlContainer: return true if parent instanceof FormGroupName && parent instanceof FormGroupDirective && parent instanceof FormArrayName; return function hasInvalidParent(parent: ControlContainer): boolean return hasInvalidParentForm(this._parent); ControlContainer: return true if parent instanceof FormGroupName && parent instanceof FormGroupDirective && parent instanceof FormArrayName; return hasInvalidParentForm(this._parent); ControlContainer: return true if parent instanceof FormGroupName && parent instanceof FormGroupDirective && parent instanceof FormArrayName; return hasInvalidParentForm(this._parent); ControlContainer: return true if parent instanceof FormGroupName && parent instanceof FormGroupDirective && parent instanceof FormArrayName; return hasInvalidParentForm(this._parent); ControlContainer: return true if parent instanceof FormGroupName && parent instanceof FormGroupDirective && parent instanceof FormArrayName; return hasInvalidParentForm(this._parent); ControlContainer: return true if parent instanceof FormGroupName && parent instanceof FormGroupDirective && parent instanceof FormArrayName; return hasInvalidParentForm(this._parent); ControlContainer: return true if parent instanceof FormGroupName && parent instanceof FormGroupDirective && parent instanceof FormArrayName; return hasInvalidParentForm(this._parent); ControlContainer: return true if parent instanceof FormGroupName && parent instanceof FormGroupDirective && parent instanceof FormArrayName; return hasInvalidParentForm(this._parent); ControlContainer: return true if parent instanceof FormGroupName && parent instanceof FormGroupDirective && parent instanceof FormArrayName; return hasInvalidParentForm(this._parent); ControlContainer: return true if parent instanceof FormGroupName && parent instanceof FormGroupDirective && parent instanceof FormArrayName; return hasInvalidParentForm(this._parent); ControlContainer: return true if parent instanceof FormGroupName && parent instanceof FormGroupDirective && parent instanceof FormArrayName; return hasInvalidParentForm(this._parent); ControlContainer: return true if parent instanceof FormGroupName && parent instanceof FormGroupDirective && parent instanceof FormArrayName; return hasInvalidParentForm(this._parent); ControlContainer: return true if parent instanceof FormGroupName && parent instanceof FormGroupDirective && parent instanceof FormArrayName; return hasInvalidParentForm(this._parent); ControlContainer: return true if parent instanceof FormGroupName && parent instanceof FormGroupDirective && parent instanceof FormArrayName; return hasInvalidParentForm(this._parent); ControlContainer: return true if parent instanceof FormGroupName && parent instanceof FormGroupDirective && parent instanceof FormArrayName; return hasInvalidParentForm(this._parent); ControlContainer: return true if parent instanceof FormGroupName && parent instanceof FormGroupDirective && parent instanceof FormArrayName; return hasInvalidParentForm(this._parent); ControlContainer: return true if parent instanceof FormGroupName && parent instanceof FormGroupDirective && parent instanceof FormArrayName; return hasInvalidParentForm(this._parent); ControlContainer: return true if parent instanceof FormGroupName && parent instanceof FormGroupDirective && parent instanceof FormArrayName; return hasInvalidParentForm(this._parent); ControlContainer: return true if parent instanceof FormGroupName && parent instanceof FormGroupDirective && parent instanceof FormArrayName; return hasInvalidParentForm(this._parent); ControlContainer: return true if parent instanceof FormGroupName && parent instanceof FormGroupDire
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 {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.
 *
 * ```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/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
 * 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
 * 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, 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
 * 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):
 * ```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
 * a `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
 * ```ts
 * updated
 * ```
 * @example

```html
<form [formGroup]="form">
  
</form>
```
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`.

@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(); };

@internal

* static _ngModelWarningSentOnce = 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\`.

* @internal

* static _ngModelWarningSent = false;

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() @Inject(NG_VALUE_ACCESSOR) valueAccessors: ControlValueAccessor[][],

      @Optional() @Self() @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);

    this.viewModel = this.model;

    this.formDirective.updateModel(this, this.model);

    if (isPropertyUpdated(changes, this.viewModel)) {
      _ngModelWarning('formControlName', FormControlName,
                       this, this._ngModelWarningConfig);

      this.viewModel = this.model;

      this.formDirective.updateModel(this, this.model);

    }

    if (this.formDirective) {
      this.formDirective.removeControl(this);
    } else {

      this._setUpControl();

      (this as{control: FormControl}).control =

      this.formDirective.addControl(this);

      if (this.control.disabled &&

           this.valueAccessor !.setDisabledState) {

        this.valueAccessor !.setDisabledState !(true);

        this._added = true;

        "*/ *" @license

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        can be

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

        */

        import {Directive, Input, OnChanges, StaticProvider, forwardRef} from '@angular/core';

        import
import { NG_VALIDATORS, Validators } from '../validators';

/**
 * Defines the map of errors returned from failed validation checks.
 *
 * @publicApi
 */
export type ValidationErrors = {
  [key: string]: any
};

/**
 * An interface implemented by classes that perform synchronous validation.
 *
 * @usageNotes
 *
 * ### Provide a custom validator
 *
 * The following example implements the `Validator` interface to create a validator directive with a custom error key.
 *
 * @publicApi
 */
export interface Validator {
  /**
   * 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;

  /**
   * Registers a callback function to call when the validator inputs change.
   *
   * @param fn The callback function
   */
  registerOnValidatorChange?(fn: () => void): void;
}

/**
 * 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 a validator directive with a custom error key.
 *
 * @publicApi
 */
export interface AsyncValidator extends Validator {
  /**
   * Method that performs async validation against the provided control.
   *
   * @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>;
}

/**
 * Provider which adds `RequiredValidator` to the `NG_VALIDATORS` multi-provider list.
 */
export const REQUIRED_VALIDATOR: StaticProvider = {
  provide: NG_VALIDATORS,
  useExisting: forwardRef(() => RequiredValidator),
  multi: true
};

/**
 * Provider which adds `CheckboxRequiredValidator` to the `NG_VALIDATORS` multi-provider list.
 */
export const CHECKBOX_REQUIRED_VALIDATOR: StaticProvider = {
  provide: NG_VALIDATORS,
  useExisting: forwardRef(() => CheckboxRequiredValidator),
  multi: true
};

/**
 * 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)
 *
 * @ngModule FormsModule
 * @ngModule ReactiveFormsModule
 * @publicApi
 */
@Directive({
  selector: ':not([type=checkbox])[+required][formControlName],:not([type=checkbox])[+required][formControl],:not([type=checkbox])[+required][ngModel]
})
export class RequiredValidator implements Validator {
  // TODO(issue/24571): remove '!'.
  private _required !: boolean;
  // TODO(issue/24571): remove '!'.
  private _onChange !: () => void;

  /**
   * Tracks changes to the required attribute bound to this directive.
   */
  @Input()
  get required(): boolean|string { return this._required; }

  set required(value: boolean|string) {
    this._required = value != null && value !== false && `${value}` !== 'false';
    if (this._onChange) this._onChange();
  }

  /**
   * 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;
  }

  /**
   * Registers a callback function to call when the validator inputs change.
   *
   * @param fn The callback function
   */
  registerOnValidatorChange?(fn: () => void): void {
    this._onChange = fn;
  }
}
controls marked with the `required` attribute. The directive is provided with the `NG_VALIDATORS` multi-provider list. The following example shows how to add a required checkbox validator using template-driven forms:

```html
<input type="checkbox" name="active" required>
```

The directive is provided with the `NG_VALIDATORS` multi-provider list. The following example shows how to add a required checkbox validator using template-driven forms:

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```

The directive is provided with the `NG_VALIDATORS` multi-provider list. The following example shows how to add a required checkbox validator using template-driven forms:

```html
<input type="checkbox" name="active" required>
```

The directive is provided with the `NG_VALIDATORS` multi-provider list. The following example shows how to add a required checkbox validator using template-driven forms:

```html
<input type="checkbox" name="active" required>
```
```typescript
_validator!: ValidatorFn;

/* @description */ /* Tracks changes to the minimum length bound to this directive. */

/* @description */ /* TODO(issue/24571): remove '!'. */

/* @description */ /* Method that validates whether the value meets a minimum length requirement. */

Returns the validation result if enabled, otherwise null.

/* @description */ /* A lifecycle method called when the directive's inputs change. For internal use only. */

/* @description */ /* A lifecycle method called when the validator inputs change. */

TODO(issue/24571): remove '!'.

/**
 * @description
 * Tracks changes to the the minimum length bound to this directive.
 */

/* @description */ /* TODO(issue/24571): remove '!'. */

/**
 * @description
 * Tracks changes to the the maximum length bound to this directive.
 */

/* @description */ /* Method that validates whether the value exceeds the maximum length requirement. */

/* @description */ /* Registers a callback function to call when the validator inputs change. */

Todo(issue/24571): remove '!'.

/**
 * @description
 * Registers a callback function to call when the validator inputs change.
 */

MAX_LENGTH_VALIDATOR: any = {
  provide: NG_VALIDATORS,
  useExisting: forwardRef(() => MaxLengthValidator),
  multi: true
};

/* @description */ /* A directive that adds max length validation to controls marked with the `maxlength` attribute. The directive is provided with the 'NG_VALIDATORS' multi-provider list. */

/* @description */ /* A directive that adds regex pattern validation to controls marked with the `pattern` attribute. The regex must match the entire control value. */

```
private _onChange!: () => void;

/**
 * @description
 * Tracks changes to the pattern bound to this directive.
 */

@Input()
ngOnChanges(changes: SimpleChanges): void {
  if ('pattern' in changes) {
    this._createValidator();
    if (this._onChange) this._onChange();
  }
}

validate(control: AbstractControl): ValidationErrors|null {
  return this._validator(control);
}

registerOnValidatorChange(fn: () => void): void {
  this._onChange = fn;
}

private _createValidator(): void {
  this._validator = Validators.pattern(this.pattern);
}

export const SHARED_FORM_DIRECTIVES: Type<any>[] = [
  NgNoValidate,
  NgSelectOption,
  NgSelectMultipleOption,
  DefaultValueAccessor,
  NumberValueAccessor,
  RangeValueAccessor,
  CheckboxControlValueAccessor,
  SelectControlValueAccessor,
  SelectMultipleControlValueAccessor,
  RadioControlValueAccessor,
  NgControlStatus,
  NgControlStatusGroup,
  RequiredValidator,
  CheckboxRequiredValidator,
  EmailValidator,
  MaxLengthValidator,
  MinLengthValidator,
  PatternValidator,
  RequiredValidator,
  FormControlDirective,
  FormControlName,
  FormGroupDirective,
  FormArrayName,
  FormGroupName,
  NgSelectMultipleOption,
  ControlValueAccessor,
  NumberValueAccessor,
  RangeValueAccessor,
  CheckboxControlValueAccessor,
  SelectControlValueAccessor,
  SelectMultipleControlValueAccessor,
  RadioControlValueAccessor,
  FormControlDirective,
  NG_MODEL_WITH_FORM_CONTROL_WARNING,
];
MinLengthValidator,
MaxLengthValidator,
PatternValidator,
CheckboxRequiredValidator,
EmailValidator,

export const TEMPLATE_DRIVEN_DIRECTIVES: Type<any>[] =
[FormControlDirective, FormGroupDirective, FormControlName, FormGroupName, FormArrayName];

export const REACTIVE_DRIVEN_DIRECTIVES: Type<any>[] =
[FormControlDirective, FormGroupDirective, FormControlName, FormGroupName, FormArrayName];

/**
 * @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.
 *
 * @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>
 */
export class FormBuilder {
  /**
   * @description
   * Construct a new `FormGroup` instance
   */
constructor(private compiler: ng.ICompileService) {
  // ...
validatorOrOpts, asyncValidator);
}/**
 * Constructs a new `FormArray` from the given array of
 * configurations.
 *
 * @param controlsConfig An array of child controls or control
 * configs. Each
 * child control is given an index when 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.
 */

validatorOrOpts?: ValidatorFn|ValidatorFn[]|AbstractControlOptions|null,
asyncValidator?:
AsyncValidatorFn|AsyncValidatorFn[]|null): FormArray {
  const controls = controlsConfig.map(c =>
    this._createControl(c));
  return new FormArray(controls, validatorOrOpts, asyncValidator);
}/**
 * @internal */

_validatorOrOpts, asyncValidator)

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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 '@angular/core';

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

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

import {ModuleWithProviders, NgModule} from '@angular/core';

import {InternalFormsSharedModule, NG_MODEL_WITH_FORM_CONTROL_WARNING,
.TemplateDrivenDirectives, ReactiveDrivenDirectives} from './directives';
import {RadioControlRegistry} from './directives/radio_control_value_accessor';
import {FormBuilder} from './form_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)
 *
 * @see [Reactive Forms Guide](/guide/reactive-forms)
 *
 * @publicApi
 */
@NgModule({
  declarations: [TemplateDrivenDirectives,
  ReactiveFormsModule ];
  providers: [RadioControlRegistry],
  exports: [InternalFormsSharedModule,
  TemplateDrivenDirectives,
  ReactiveFormsModule ];
  useValue: opts.warnOnNgModelWithFormControl
})
@NgModule({
  declarations: [ReactiveDrivenDirectives,
  ReactiveFormsModule ];
  providers: [FormBuilder, RadioControlRegistry];
  exports: [InternalFormsSharedModule,
  ReactiveDrivenDirectives,
  ReactiveFormsModule ];
})
export class FormsModule {
  /**
   * @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.
   */
  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
      }]
    };
  }

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

  /**
   * @module
   * @description
   * 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
   */

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   * found in
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   * @description
   * 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

```typescript
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 {ControlValueAccessor, NG_VALUE_ACCESSOR} from './directives/control_value_accessor';
export {COMPOSITION_BUFFER_MODE, DefaultValueAccessor} from './directives/default_value_accessor';
export {Form} from './directives/form_interface';
export {NgControl} from './directives/ng_control';
export {NgControlStatus, NgControlStatusGroup} from './directives/ng_control_status';
export {NgForm} from './directives/ng_form';
export {NgModel} from './directives/ng_model';
export {NgSelectOption, SelectControlValueAccessor} from './directives/select_control_value_accessor';
export {SelectMultipleControlValueAccessor} from './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';
```

*/

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 * can be
 * 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

```typescript
export * from './public_api';
```

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

```typescript
export * 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';
export {CHECKBOX_VALUE_ACCESSOR as ɵangular_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 {CHECKBOX_VALUE_ACCESSOR as ɵangular_packages_forms_forms_g, ngControlStatusHost as ɵangular_packages_forms_forms_h} from './src/directives/checkbox_value_accessor';
export {DEFAULT_VALUE_ACCESSOR as ɵangular_packages_forms_forms_i} from './src/directives/default_value_accessor';
export {AbstractControlDirective} from './src/directives/abstract_control_directive';
export {AbstractFormGroupDirective} from './src/directives/abstract_form_group_directive';
export {CheckboxControlValueAccessor} from './src/directives/checkbox_value_accessor';
export {ControlValueAccessor, NG_VALUE_ACCESSOR} from './src/directives/control_value_accessor';
export {COMPOSITION_BUFFER_MODE, DefaultValueAccessor} from './src/directives/default_value_accessor';
export {Form} from './src/directives/form_interface';
export {NgControl} from './src/directives/ng_control';
export {NgControlStatus, NgControlStatusGroup} from './src/directives/ng_control_status';
export {NgForm} from './src/directives/ng_form';
export {NgModel} from './src/directives/ng_model';
export {NgSelectOption, SelectControlValueAccessor} from './src/directives/select_control_value_accessor';
export {SelectMultipleControlValueAccessor} from './src/directives/select_multiple_control_value_accessor';
export {AsyncValidator, AsyncValidatorFn, CheckboxRequiredValidator, EmailValidator, MaxLengthValidator, MinLengthValidator, PatternValidator, RequiredValidator, ValidationErrors, Validator, ValidatorFn} from './src/directives/validators';
export {FormBuilder} from './src/form_builder';
export {AbstractControl, AbstractControlOptions, FormArray, FormControl, FormGroup} from './src/model';
export {NG_ASYNC_VALIDATORS, NG_VALIDATORS, Validators} from './src/validators';
export {VERSION} from './src/version';

// This file is not used to build this module. It is only used during editing

export * 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';
export {CHECKBOX_VALUE_ACCESSOR as ɵangular_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 {AbstractControlDirective} from './src/directives/abstract_control_directive';
export {AbstractFormGroupDirective} from './src/directives/abstract_form_group_directive';
export {CheckboxControlValueAccessor} from './src/directives/checkbox_value_accessor';
export {ControlValueAccessor, NG_VALUE_ACCESSOR} from './src/directives/control_value_accessor';
export {COMPOSITION_BUFFER_MODE, DefaultValueAccessor} from './src/directives/default_value_accessor';
export {Form} from './src/directives/form_interface';
export {NgControl} from './src/directives/ng_control';
export {NgControlStatus, NgControlStatusGroup} from './src/directives/ng_control_status';
export {NgForm} from './src/directives/ng_form';
export {NgModel} from './src/directives/ng_model';
export {NgSelectOption, SelectControlValueAccessor} from './src/directives/select_control_value_accessor';
export {SelectMultipleControlValueAccessor} from './src/directives/select_multiple_control_value_accessor';
export {AsyncValidator, AsyncValidatorFn, CheckboxRequiredValidator, EmailValidator, MaxLengthValidator, MinLengthValidator, PatternValidator, RequiredValidator, ValidationErrors, Validator, ValidatorFn} from './src/directives/validators';
export {FormBuilder} from './src/form_builder';
export {AbstractControl, AbstractControlOptions, FormArray, FormControl, FormGroup} from './src/model';
export {NG_ASYNC_VALIDATORS, NG_VALIDATORS, Validators} from './src/validators';
export {VERSION} from './src/version';
"./src/directives/ng_no_validate_directive';
export {NUMBER_VALUE_ACCESSOR as
  ɵangular_packages_forms_forms_l} 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 {RANGE_VALUE_ACCESSOR as ɵangular_packages_forms_forms_o} from
'./src/directives/range_value_accessor';
export {NG_MODEL_WITH_FORM_CONTROL_WARNING as
  ɵangular_packages_forms_forms_p,formControlBinding as ɵangular_packages_forms_forms_q} from
'./src/directives/reactive_directives/form_control_directive';
export {controlNameBinding as ɵangular_packages_forms_forms_r} from './src/directives/reactive_directives/form_control_name';
export {formDirectiveProvider as ɵangular_packages_forms_forms_s} from
'./src/directives/reactive_directives/form_group_directive';
export {formArrayNameProvider as ɵangular_packages_forms_forms_u,formGroupNameProvider as ɵangular_packages_forms_forms_t} from
'./src/directives/reactive_directives/form_group_name';
export {SELECT_VALUE_ACCESSOR as ɵangular_packages_forms_forms_v} from './src/directives/select_control_value_accessor';
export {NgSelectMultipleOption as ɵangular_packages_forms_forms_x,SELECT_MULTIPLE_VALUE_ACCESSOR as
  ɵangular_packages_forms_forms_y} from './src/directives/select_control_value_accessor';
export {NgSelectMultipleOption as ɵangular_packages_forms_forms_y,SELECT_MULTIPLE_VALUE_ACCESSOR as
  ɵangular_packages_forms_forms_z} from
'./src/directives/selectors/selector';;
"}
Open Source Used In MSX Platform Services 3.9.0

2798
AAG,gBAAE,QAAQ,IAAI,GAAG,CAAC,YAE/C,QAQQ,IAAI,OAAO,CAAC,YAEpB,IAAI,OAAC,CAAC,MA
AM,CAAC,OAAC,CAAC,MAAM,GAAG,CAAC,CAAC,KAAC,GAAG,bBAAE,QAAQ,IAAI,GAAG,CAAC,YA
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Object.defineProperty(cooked, "raw", { value: raw }); else { cooked.raw = raw; }
/**
 * @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 const NG_VALUE_ACCESSOR = new core.InjectionToken('NgValueAccessor');

export const CHECKBOX_VALUE_ACCESSOR = {
    provide: NG_VALUE_ACCESSOR,
    useExisting: core.forwardRef(() => CheckboxControlValueAccessor),
    multi: true,
};

export const DEFAULT_VALUE_ACCESSOR = {
    provide: NG_VALUE_ACCESSOR,
    useExisting: core.forwardRef(() => DefaultValueAccessor),
    multi: true,
};

/**
 * @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 class CheckboxControlValueAccessor {
    constructor(_renderer, _elementRef) {
        this._renderer = _renderer;
        this._elementRef = _elementRef;

        this.onChange = function (_) { };
        this.onTouched = function () { };

        this.writeValue = function (value) {
            this._renderer.setProperty(this._elementRef.nativeElement, 'checked', value);
        };

        this.registerOnChange = function (fn) {
            this.onChange = fn; };

        this.registerOnTouched = function (fn) {
            this.onTouched = fn; };

        this.setDisabledState = function (isDisabled) {
            this._renderer.setProperty(this._elementRef.nativeElement, 'disabled', isDisabled);
        };

    }

    static __decorate(decorators) {
        const target = this.constructor;
        decorators.forEach(decorator => decorator(target));
        return this;
    }

    __proto__ = CheckboxControlValueAccessor;
}

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        this._elementRef = _elementRef;

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        this.set DisabledState = function (isDisabled) {
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            this.onTouched = fn; };

        this.set DisabledState = function (isDisabled) {
            this._renderer.setProperty(this._elementRef.nativeElement, 'disabled', isDisabled);
        };

    }

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    }

    __proto__ = CheckboxControlValueAccessor;
}

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            this._renderer.setProperty(this._elementRef.nativeElement, 'checked', value);
        };

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            this.onChange = fn; };

        this.registerOnTouched = function (fn) {
            this.onTouched = fn; };

        this.set DisabledState = function (isDisabled) {
            this._renderer.setProperty(this._elementRef.nativeElement, 'disabled', isDisabled);
        };

    }

    static __decorate(decorators) {
        const target = this.constructor;
        decorators.forEach(decorator => decorator(target));
        return this;
    }

    __proto__ = CheckboxControlValueAccessor;
}

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        this.onTouched = function () { };

        this.writeValue = function (value) {
            this._renderer.setProperty(this._elementRef.nativeElement, 'checked', value);
        };

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            this.onChange = fn; };

        this.registerOnTouched = function (fn) {
            this.onTouched = fn; };

        this.set DisabledState = function (isDisabled) {
            this._renderer.setProperty(this._elementRef.nativeElement, 'disabled', isDisabled);
        };

    }

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        decorators.forEach(decorator => decorator(target));
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        this._renderer = _renderer;
        this._elementRef = _elementRef;

        this.onChange = function (_) { };
        this.onTouched = function () { };

        this.writeValue = function (value) {
            this._renderer.setProperty(this._elementRef.nativeElement, 'checked', value);
        };

        this.registerOnChange = function (fn) {
            this.onChange = fn; };

        this.registerOnTouched = function (fn) {
            this.onTouched = fn; };

        this.set DisabledState = function (isDisabled) {
            this._renderer.setProperty(this._elementRef.nativeElement, 'disabled', isDisabled);
        };

    }

    static __decorate(decorators) {
        const target = this.constructor;
        decorators.forEach(decorator => decorator(target));
        return this;
    }

    __proto__ = CheckboxControlValueAccessor;
}

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        this._renderer = _renderer;
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        this.onChange = function (_) { };
        this.onTouched = function () { };

        this.writeValue = function (value) {
            this._renderer.setProperty(this._elementRef.nativeElement, 'checked', value);
        };

        this.registerOnChange = function (fn) {
            this.onChange = fn; };

        this.registerOnTouched = function (fn) {
            this.onTouched = fn; };

        this.set DisabledState = function (isDisabled) {
            this._renderer.setProperty(this._elementRef.nativeElement, 'disabled', isDisabled);
        };

    }

    static __decorate(decorators) {
        const target = this.constructor;
        decorators.forEach(decorator => decorator(target));
        return this;
    }

    __proto__ = CheckboxControlValueAccessor;
}
core.forwardRef(function () { return DefaultValueAccessor; });

multi: true

/**
 * We must check whether the agent is Android because composition events
 * behave differently between iOS and Android.
 */
function _isAndroid() {
    var userAgent = common.getDOM() ? common.getDOM().getUserAgent() : '';
    return /android (\d+)/.test(userAgent.toLowerCase());
}

/**
 * @publicApi
 * var COMPOSITION_BUFFER_MODE = new core.InjectionToken('CompositionEventMode');

function _compositionStart() {
    this._composing = true;
}

/**
 * The default 'CompositionEventMode' for writing a value and listening to changes on input elements.
 *
* @description
* Provide this token to control if form directives buffer IME input until the \"compositionend\" event occurs.
* @publicApi
*/
function _compositionEnd(value) {
    this._composing = false;
    this.onChange && this.onChange(value);
}

DefaultValueAccessor = /** @class */ (function () {
    function DefaultValueAccessor(_renderer, _elementRef) {
        this._renderer = _renderer;
        this._elementRef = _elementRef;
        this.onChange = function (_) { };
        this.onTouched = function () { };
        this._composing = false;
        if (this._compositionMode == null) {
            this._compositionMode = !_isAndroid();
        }
    }

    /**
     * Sets the \"value\" property on the input element.
     *
     * @param value The checked value
     */
    DefaultValueAccessor.prototype.writeValue = function (value) {
        var normalizedValue = value == null ? '' : value;
        this._renderer.setProperty(this._elementRef.nativeElement, 'value', normalizedValue);
    };

    /**
     * Registers a function called when the control value changes.
     *
     * @param fn The callback function
     */
    DefaultValueAccessor.prototype.registerOnChange = function (fn) {
        this.onChange = fn;
    };

    /**
     * Registers a function called when the control is touched.
     *
     * @param fn The callback function
     */
    DefaultValueAccessor.prototype.registerOnTouched = function (fn) {
        this.onTouched = fn;
    };

    /**
     * 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);
    };

    /**
     * The registered callback function called when an input event occurs on the input element.
     *
     * @param value The checked value
     */
    DefaultValueAccessor.prototype.onChange = function (_) {
        this.onChange && this.onChange(_);
    };

    /**
     * The registered callback function called when a blur event occurs on the input element.
     *
     * @param fn The callback function
     */
    DefaultValueAccessor.prototype.onTouched = function (fn) {
        this.onTouched = fn;
    };

    /**
     * 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.
     *
     * @param fn The callback function
     */
    DefaultValueAccessor.prototype.registerOnCompostionStart = function (fn) {
        this._compositionStart = fn;
    };

    /**
     * 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.
     *
     * @param fn The callback function
     */
    DefaultValueAccessor.prototype.registerOnCompostionEnd = function (fn) {
        this._compositionEnd = fn;
    };

    /**
     * The registered callback function called when a blur event occurs on the input element.
     *
     * @param fn The callback function
     */
    DefaultValueAccessor.prototype.registerOnBlur = function (fn) {
        this.onTouched = fn;
    };

    /**
     * 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.
     *
     * @param fn The callback function
     */
    DefaultValueAccessor.prototype.registerOnFocus = function (fn) {
        this._compositionStart = fn;
    };

    /**
     * The registered callback function called when an input event occurs on the input element.
     *
     * @param fn The callback function
     */
    DefaultValueAccessor.prototype._handleInput = function (value) {
        if (!this._compositionMode || (this._compositionMode && !this._composing)) {
            this.onChange(value);
        }
    };

    /**
     * The registered callback function called when a blur event occurs on the input element.
     *
     * @param fn The callback function
     */
    DefaultValueAccessor.prototype._compositionStart = function (value) {
        this._composing = true;
    };

    /**
     * The registered callback function called when an input event occurs on the input element.
     *
     * @param fn The callback function
     */
    DefaultValueAccessor.prototype._compositionEnd = function (value) {
        this._composing = false;
        this.onChange && this.onChange(value);
    };

    /**
     * The registered callback function called when a blur event occurs on the input element.
     *
     * @param fn The callback function
     */
    DefaultValueAccessor.prototype._onTouched = function (fn) {
        this.onTouched = fn;
    };

    /**
     * The registered callback function called when a blur event occurs on the input element.
     *
     * @param fn The callback function
     */
    DefaultValueAccessor.prototype._onFocus = function (fn) {
        this._compositionStart = fn;
    };

    /**
     * The registered callback function called when a blur event occurs on the input element.
     *
     * @param fn The callback function
     */
    DefaultValueAccessor.prototype._onBlur = function (fn) {
        this.onTouched = fn;
    };

    /**
     * The registered callback function called when a blur event occurs on the input element.
     *
     * @param fn The callback function
     */
    DefaultValueAccessor.prototype._onCompositionStart = function (fn) {
        this._compositionStart = fn;
    };

    /**
     * The registered callback function called when a blur event occurs on the input element.
     *
     * @param fn The callback function
     */
    DefaultValueAccessor.prototype._onCompositionEnd = function (fn) {
        this._compositionEnd = fn;
    };

    DefaultValueAccessor = __decorate([core.Directive({
        selector: 'input:not([type=checkbox])[formControlName],textarea[formControl]
    }]
});
* Reports the validation status of the control. Possible values include:
  * 'VALID', 'INVALID',

```javascript
Object.defineProperty(AbstractControlDirective.prototype, "status", {
            /**
             * @description
             * This control is not present, null is returned.
             */
            get: function () { return this.control ? this.control.touched : null; },
            enumerable: true,
            configurable: true
        });

* 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
Object.defineProperty(AbstractControlDirective.prototype, "dirty", {
            /**
             * @description
             * This control is not present, null is returned.
             */
            get: function () { return this.control ? this.control.dirty : null; },
            enumerable: true,
            configurable: true
        });
```

* 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
Object.defineProperty(AbstractControlDirective.prototype, "pristine", {
            /**
             * @description
             * This control is not present, null is returned.
             */
            get: function () { return this.control ? this.control.pristine : null; },
            enumerable: true,
            configurable: true
        });
```

* 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
Object.defineProperty(AbstractControlDirective.prototype, "enabled", {
            /**
             * @description
             * This control is not present, null is returned.
             */
            get: function () { return this.control ? this.control.enabled : null; },
            enumerable: true,
            configurable: true
        });
```

* Reports whether the control is disabled, meaning that the control is disabled
  * in the UI and is exempt from validation checks and excluded from aggregate
  * values of ancestor controls. If the control is not present, null is returned.

```javascript
Object.defineProperty(AbstractControlDirective.prototype, "disabled", {
            /**
             * @description
             * This control is not present, null is returned.
             */
            get: function () { return this.control ? this.control.disabled : null; },
            enumerable: true,
            configurable: true
        });
```

* Reports whether a control is pending, meaning that that async validation is occurring and
  * errors are not yet available for the input value. If the control is not present, null is

```javascript
Object.defineProperty(AbstractControlDirective.prototype, "pending", {
            /**
             * @description
             * This control is not present, null is returned.
             */
            get: function () { return this.control ? this.control.pending : null; },
            enumerable: true,
            configurable: true
        });
```

* Reports whether the control is invalid, meaning that an error exists in the input value.
  * If the control is not present, null is returned.

```javascript
Object.defineProperty(AbstractControlDirective.prototype, "invalid", {
            /**
             * @description
             * This control is not present, null is returned.
             */
            get: function () { return this.control ? this.control.invalid : null; },
            enumerable: true,
            configurable: true
        });
```

* Reports whether the control is valid. A control is considered valid if no
  * validation errors exist with the current value.

```javascript
Object.defineProperty(AbstractControlDirective.prototype, "value", {
            /**
             * @description
             * This control is not present, null is returned.
             */
            get: function () { return this.control ? this.control.value : null; },
            enumerable: true,
            configurable: true
        });
```

* Reports whether the control's validation errors. If the control is not present, null is returned.

```javascript
Object.defineProperty(AbstractControlDirective.prototype, "errors", {
            /**
             * @description
             * This control is not present, null is returned.
             */
            get: function () { return this.control ? this.control.errors : null; },
            enumerable: true,
            configurable: true
        });
```

* Reports whether a control is pending, meaning that that async validation is occurring and
  * errors are not yet available for the input value. If the control is not present, null is

```javascript
Object.defineProperty(AbstractControlDirective.prototype, "pending", {
            /**
             * @description
             * This control is not present, null is returned.
             */
            get: function () { return this.control ? this.control.pending : null; },
            enumerable: true,
            configurable: true
        });
```

* Reports whether the control is invalid, meaning that an error exists in the input value.
  * If the control is not present, null is returned.

```javascript
Object.defineProperty(AbstractControlDirective.prototype, "invalid", {
            /**
             * @description
             * This control is not present, null is returned.
             */
            get: function () { return this.control ? this.control.invalid : null; },
            enumerable: true,
            configurable: true
        });
```

* Reports whether the control is valid. A control is considered valid if no
  * validation errors exist with the current value.

```javascript
Object.defineProperty(AbstractControlDirective.prototype, "value", {
            /**
             * @description
             * This control is not present, null is returned.
             */
            get: function () { return this.control ? this.control.value : null; },
            enumerable: true,
            configurable: true
        });
```

* Reports whether the control's validation errors. If the control is not present, null is returned.

```javascript
Object.defineProperty(AbstractControlDirective.prototype, "errors", {
            /**
             * @description
             * This control is not present, null is returned.
             */
            get: function () { return this.control ? this.control.errors : null; },
            enumerable: true,
            configurable: true
        });
```

* Reports whether a control is pending, meaning that that async validation is occurring and
  * errors are not yet available for the input value. If the control is not present, null is

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            /**
             * @description
             * This control is not present, null is returned.
             */
            get: function () { return this.control ? this.control.pending : null; },
            enumerable: true,
            configurable: true
        });
```

* Reports whether the control is invalid, meaning that an error exists in the input value.
  * If the control is not present, null is returned.

```javascript
Object.defineProperty(AbstractControlDirective.prototype, "invalid", {
            /**
             * @description
             * This control is not present, null is returned.
             */
            get: function () { return this.control ? this.control.invalid : null; },
            enumerable: true,
            configurable: true
        });
```

* Reports whether the control is valid. A control is considered valid if no
  * validation errors exist with the current value.

```javascript
Object.defineProperty(AbstractControlDirective.prototype, "value", {
            /**
             * @description
             * This control is not present, null is returned.
             */
            get: function () { return this.control ? this.control.value : null; },
            enumerable: true,
            configurable: true
        });
```

* Reports whether the control's validation errors. If the control is not present, null is returned.

```javascript
Object.defineProperty(AbstractControlDirective.prototype, "errors", {
            /**
             * @description
             * This control is not present, null is returned.
             */
            get: function () { return this.control ? this.control.errors : null; },
            enumerable: true,
            configurable: true
        });
```

* Reports whether a control is pending, meaning that that async validation is occurring and
  * errors are not yet available for the input value. If the control is not present, null is

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Object.defineProperty(AbstractControlDirective.prototype, "pending", {
            /**
             * @description
             * This control is not present, null is returned.
             */
            get: function () { return this.control ? this.control.pending : null; },
            enumerable: true,
            configurable: true
        });
```

* Reports whether the control is invalid, meaning that an error exists in the input value.
  * If the control is not present, null is returned.

```javascript
Object.defineProperty(AbstractControlDirective.prototype, "invalid", {
            /**
             * @description
             * This control is not present, null is returned.
             */
            get: function () { return this.control ? this.control.invalid : null; },
            enumerable: true,
            configurable: true
        });
```

* Reports whether the control is valid. A control is considered valid if no
  * validation errors exist with the current value.

```javascript
Object.defineProperty(AbstractControlDirective.prototype, "value", {
            /**
             * @description
             * This control is not present, null is returned.
             */
            get: function () { return this.control ? this.control.value : null; },
            enumerable: true,
            configurable: true
        });
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             * This control is not present, null is returned.
             */
            get: function () { return this.control ? this.control.errors : null; },
            enumerable: true,
            configurable: true
        });
```

* Reports whether a control is pending, meaning that that async validation is occurring and
  * errors are not yet available for the input value. If the control is not present, null is

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Object.defineProperty(AbstractControlDirective.prototype, "pending", {
            /**
             * @description
             * This control is not present, null is returned.
             */
            get: function () { return this.control ? this.control.pending : null; },
            enumerable: true,
            configurable: true
        });
```

* Reports whether the control is invalid, meaning that an error exists in the input value.
  * If the control is not present, null is returned.

```javascript
Object.defineProperty(AbstractControlDirective.prototype, "invalid", {
            /**
             * @description
             * This control is not present, null is returned.
             */
            get: function () { return this.control ? this.control.invalid : null; },
            enumerable: true,
            configurable: true
        });
```

* Reports whether the control is valid. A control is considered valid if no
  * validation errors exist with the current value.
'DISABLED', and 'PENDING' | * If the control is not present, null is returned.*

```javascript
function () { return this.control ? this.control.status : null; },
```

```javascript
*/
```n
```javascript
* @description
   * Reports whether the control is present, null is returned.*
   * If the control is not present, null is returned.*

```javascript
* @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.*

```javascript
* if (value === void 0) { value = undefined; } return (this.control) ? this.control.reset(value) : this.control;
```

```javascript
*/
```n
```javascript
* Resets the control with the provided value*
   * if the control is present.*

```javascript
* 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:*

```javascript
* * The path to the street control from the root form would be 'address'.* * 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.*

```javascript
* @returns whether the given error is present in the control at the given path.*
   * If the control is not present, false is returned.*

```javascript
* AbstractControlDirective.prototype.hasError = function (errorCode, path) { return (this.control) ? this.control.hasError(errorCode, path) : false; },
```

```javascript
*/
```n
```javascript
* Reports error data for the control with the given path.*

```javascript
* @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.*

```javascript
* if (value === void 0) { value = undefined; } return (this.control) ? this.control.reset(value) : this.control;
```

```javascript
*/
```n
```javascript
* Resets the control with the provided value*
   * if the control is present.*

```javascript
* 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:*
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```
/*
 * The path to this group.
 */
            get: function () { return null; },
            enumerable: true,
            configurable: true
        });
        Object.defineProperty(ControlContainer.prototype, "formDirective", {
            /**
             * The top-level form directive for the control.
             */
            get: function () { return null; },
            enumerable: true,
            configurable: true
        });
        Object.defineProperty(ControlContainer.prototype, "path", {
            /**
             * @description
             * The parent form for the control.
             */
            get: function () { return null; },
            enumerable: true,
            configurable: true
        });
        Object.defineProperty(ControlContainer.prototype, "this", {
            /**
             * @description
             * The value accessor for the control
             */
            get: function () { return null; },
            enumerable: true,
            configurable: true
        });
        Object.defineProperty(ControlContainer.prototype, "@internal", {
            /**
             * @description
             * The name for the control
             */
            get: function () { return null; },
            enumerable: true,
            configurable: true
        });
        Object.defineProperty(ControlContainer.prototype, "this._parent = null;", {
            /**
             * @description
             * The name for the control
             */
            get: function () { return null; },
            enumerable: true,
            configurable: true
        });
        Object.defineProperty(ControlContainer.prototype, "@internal", {
            /**
             * @description
             * The name for the control
             */
            get: function () { return null; },
            enumerable: true,
            configurable: true
        });
        Object.defineProperty(ControlContainer.prototype, "this._name = null;", {
            /**
             * @description
             * The name for the control
             */
            get: function () { return null; },
            enumerable: true,
            configurable: true
        });
        Object.defineProperty(ControlContainer.prototype, "this._valueAccessor = null;", {
            /**
             * @description
             * The value accessor for the control
             */
            get: function () { return null; },
            enumerable: true,
            configurable: true
        });
        Object.defineProperty(ControlContainer.prototype, "@internal", {
            /**
             * @description
             * The name for the control
             */
            get: function () { return null; },
            enumerable: true,
            configurable: true
        });
        Object.defineProperty(ControlContainer.prototype, "this._rawValidators = [];", {
            /**
             * @description
             * The uncomposed array of async validators for the control
             */
            get: function () { return null; },
            enumerable: true,
            configurable: true
        });
        Object.defineProperty(ControlContainer.prototype, "@internal", {
            /**
             * @description
             * The name for the control
             */
            get: function () { return null; },
            enumerable: true,
            configurable: true
        });
        Object.defineProperty(ControlContainer.prototype, "this._rawAsyncValidators = [];", {
            /**
             * @description
             * The uncomposed array of async validators for the control
             */
            get: function () { return null; },
            enumerable: true,
            configurable: true
        });
```

```
Directive automatically applied to Angular form controls that sets CSS classes based on control status.

The following classes are applied as the properties become true:

- `ng-valid`
- `ng-invalid`
- `ng-dirty`
- `ng-untouched`
- `ng-pending`
- `ng-pristine`

**Directive automatically applied to Angular form groups that sets CSS classes based on control status (valid/invalid/dirty/etc).**

The following classes are applied as the properties become true:

- `ng-valid`
- `ng-invalid`
- `ng-dirty`
- `ng-untouched`
- `ng-pending`
- `ng-pristine`

NgControlStatus = _decorate((ngControlStatusHost, _super));

NgControlStatusGroup = _decorate((NgControlStatusGroupHost, _super));

isEmptyInputValue(value) {
    // we don't check for string here so it also works with arrays
    return value == null || value.length === 0;
}

`@Directive` for registering additional synchronous validators used with `AbstractControl`s.

`@Directive` for registering additional asynchronous validators used with `AbstractControl`s.

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).
- `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 (`.`)).
- A `label` cannot begin or end with a dash (`-`) or a period (`.`).
- The whole address cannot be longer than 254 characters.

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 `tld` to be longer than 64 characters.
total address length to exceed 254 characters.

* `@publicApi` * @param value {
        @type string
        @description A string to add to the value.
        @returns string
      } * @see `addValueToValidity()`

    * `isNaive(value)` * @param value {
        @type string
        @description The value to check.
        @returns boolean
      } * @see 

```typescript
    * `isNaive(value)` * @param value {
        @type string
        @description The value to check.
        @returns boolean
      } * @see `isNaive()`
```
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.

```typescript
* @usageNotes
* # Validate that the field matches a valid email pattern
* const control = new FormControl(email);
* @returns An error map with the ‘email’ property
* if the validation check fails, otherwise null.
* # Validate that the field matches a valid email pattern
* const control = new FormControl(email);
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* if the validation check fails, otherwise null.
* # Validate that the field matches a valid email pattern
* const control = new FormControl(email);
* @returns An error map with the ‘email’ property
* if the validation check fails, otherwise null.
The following example shows how to use a number input with a reactive form.

```ts
const
```

The `ControlValueAccessor` for writing a number value and listening to number input changes.

The value accessor is used by the `FormControlDirective`, `FormControlName`, and `NgModel` directives.

### Using a number input with a reactive form.

```ts
const
```
this._elementRef = _elementRef; /* */

/* @description */

/* element */

/* this.onChange = */

function (_) { };

/* @description */

/* this.onTouched = function () { } */

/* * Sets the 'value' property on the input element */

/* * @param value The checked value */

NumberValueAccessor.prototype.writeValue = function (value) {
    // The value needs to be normalized for IE9, otherwise it is set to 'null' when null
    var normalizedValue = value === null ? '' : value;
    this._renderer.setProperty(this._elementRef.nativeElement, 'value', normalizedValue);
};

/* @description */

/* * Registers a function called when the control value changes. */

NumberValueAccessor.prototype.registerOnChange = function (fn) {
    this.onChange = function (value) { fn(value == '' ? null : parseFloat(value)); };
};

/* @description */

/* * Registers a function called when the control is touched. */

NumberValueAccessor.prototype.registerOnTouched = function (fn) {
    this.onTouched = fn; };

/* * Sets the 'disabled' property on the input element */

NumberValueAccessor.prototype.setDisabledState = function (isDisabled) {
    this._renderer.setProperty(this._elementRef.nativeElement, 'disabled', isDisabled);
};

NumberValueAccessor = __decorate([
    core.Directive({
        selector: 'input[type=number][formControlName], input[type=number][formControl], input[type=number][ngModel]',
        host: {
            '(change)': 'onChange($event.target.value)',
            '(blur)': 'onTouched()'
        },
        providers: [NUMBER_VALUE_ACCESSOR]
    }),
    __metadata("design:paramtypes", [core.Renderer2, core.ElementRef])
], NumberValueAccessor);

return NumberValueAccessor;

};

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 */

RADIO_VALUE_ACCESSOR = {
    provide: NG_VALUE_ACCESSOR,
    useExisting: core.forwardRef(function () { return RadioControlValueAccessor; }),
    multi: true
};

/**
 * Class used by Angular to track radio buttons. For internal use only.
 */

RadioControlRegistry = /** @class */ (function () {
    function RadioControlRegistry() {
        this._accessors = [];
    }

    /* @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 */

    /* * Class used by Angular to track radio buttons. For internal use only. */

    RadioControlRegistry = __decorate([core.Injectable()], RadioControlRegistry);
    return RadioControlRegistry;
});

/**
 * The `ControlValueAccessor` for writing radio control values and listening to radio control
 * changes. The value accessor is used by the `FormControlDirective`, `FormControlName`, and
 * `NgModel` directives.
 *
 * @usageNotes
 * ### 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`. Providing a 'name' attribute is optional.
 */
RadioControlValueAccessor = /** @class */ (function () {
    function RadioControlValueAccessor(_renderer, _elementRef, _registry, _injector) {
        this._renderer = _renderer;
        this._elementRef = _elementRef;
        this._registry = _registry;
        this._injector = _injector;
        /**
         * @description
         * The registered callback function called when a blur event occurs on the input element.
         */
        this.onTouched = function () {);
        /**
         * @description
         * The registered callback function called when a change event occurs on the input element.
         */
        this.onChange = function () {)
            this._checkName();
            this._registry.add(this._control, this);
        };
        /**
         * @description
         * Lifecycle method called before the directive's instance is destroyed. For internal use only.
         */
        this.onDestroy = function () {
            this._registry.remove(this);
        };
        /**
         * @description
         * Sets the "checked" property value on the radio input element.
         */
        this.writeValue = function (value) {
            this._state = value === this.value; this._renderer.setProperty(this._elementRef.nativeElement, 'checked', this._state);
        };
        /**
         * @description
         * Registers a function called when the control value changes.
         *
         * @param fn The callback function
         */
        this.registerOnChange = function (fn) {
            this._fn = fn;
            this.onChange = function () {
                fn(_this.value);
                _this._registry.select(_this);
            };
        };
        /**
         * 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.
         *
         * @param fn The callback function
         */
        this.registerOnTouched = function (fn) {
            this.onTouched = fn;
        };
        /**
         * @description
         * Sets the "disabled" property on the input element.
         */
        this.setDisabledState = function (isDisabled) {
            this._renderer.setProperty(this._elementRef.nativeElement, 'disabled', isDisabled);
        };
        this._checkName = function () {
            if (this.name && this.formControlName && this.name !== this.formControlName) {
                this._throwNameError();
            }
            if (!this.name && this.formControlName)
                this.name = this.formControlName;
        };
        this._throwNameError = function () {
            throw new Error("If you define both a name and a formControlName attribute on your radio button, their values\nmust match. Ex: <input type="radio" formControlName="food" name="food">\n");
        };
        __decorate([core.Input(),
            __metadata("design:type", String)
        ], RadioControlValueAccessor.prototype, "name", void 0);
        __decorate([core.Input(),
            __metadata("design:type", String)
        ], RadioControlValueAccessor.prototype, "formControlName", void 0);
        __decorate([core.Input(),
            __metadata("design:type", Object)
        ], RadioControlValueAccessor.prototype, "value", void 0);
        __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:type", Object)
        ], RadioControlValueAccessors, void 0);
        __decorate([
          core.Input(),
          __metadata("design:type", String)
        ], RadioControlValueAccessor.prototype, "value", void 0);
        __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:type", Object)
        ], RadioControlValueAccessors, void 0);
        return
    }());

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     */
    var RANGE_VALUE_ACCESSOR = {
        provide: NG_VALUE_ACCESSOR,
        useExisting: core.forwardRef(function () { return RangeValueAccessor; }),
        multi: true
    };

    return
RadioControlValueAccessor;
}());

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 */
var RANGE_VALUE_ACCESSOR = {
    provide: NG_VALUE_ACCESSOR,
    useExisting: core.forwardRef(function () { return RangeValueAccessor; }),
    multi: true
};
listening to range input changes.

The value accessor is used by the `FormControlDirective`, `FormControlName`, and `NgModel`. A range input with a reactive form:

```typescript
const ageControl = new FormControl();
```

```typescript
input type="range" [formControl]="ageControl">
```

```typescript
@ngModule ReactiveFormsModule
@ngModule FormsModule
```

```typescript
function RangeValueAccessor(_renderer, _elementRef) {

  this._renderer = _renderer;
  this._elementRef = _elementRef;

  this.onChange = function (_) { };
  this.onTouched = function () { };

  this.writeValue = function (value) {
    this._renderer.setProperty(this._elementRef.nativeElement, 'value', parseFloat(value));
  };

  this.registerOnChange = function (fn) {
    this.onChange = function (value) { fn(value == '' ? null : parseFloat(value)); };
  };

  this.registerOnTouched = function (fn) {
    this.onTouched = fn;
  };

  this.setDisabledState = function (isDisabled) {
    this._renderer.setProperty(this._elementRef.nativeElement, 'disabled', isDisabled);
  };

  RangeValueAccessor = __decorate([core.Directive({
    selector: '[type=range][formControlName], [type=range][formControl], [type=range][ngModel]',
    host: {
      '(change)': 'onChange($event.target.value)',
      '(input)': 'onChange($event.target.value)',
      '(blur)': 'onTouched()'
    },
    providers: [RANGE_VALUE_ACCESSOR]
  }),
  __metadata("design:paramtypes", [core.Renderer2, core.ElementRef])], RangeValueAccessor);
```

```typescript
FormErrorExamples = {

  formControlName: "\n    <div [formGroup]=\"myGroup\">\n      <input formControlName=\"firstName\">\n    </div>\n
    In your class:\n\n    this.myGroup = new FormGroup({\n      firstName: new FormControl()\n    });",

  formGroupName: "\n    <div [formGroup]=\"myGroup\">\n      <div formGroupName=\"person\">\n        <input formControlName=\"firstName\">\n      </div>\n    </div>\n
    In your class:\n\n    this.myGroup = new FormGroup({\n      person: new FormGroup({ firstName: new FormControl() })\n    });",

  formArrayName: "\n    <div [formGroup]=\"myGroup\">\n      <div *ngFor=\"let city of cityArray.controls; index as i\">\n        <input [formControlName]=\"i\">\n      </div>\n    </div>\n
    In your class:\n\n    this.cityArray = new FormArray([new FormControl('SF')]);\n    this.myGroup = new FormGroup({\n      cityArray: this.cityArray\n    });",

  ngModelGroup: "\n    <form>
      <div ngModelGroup=\"person\">\n        <input [(ngModel)]=\"person.name\" name=\"firstName\">\n      </div>
    </form>

    In your class:\n\n    this.person = new FormGroup({\n      name: new FormControl()\n    });",

  ngModelWithFormGroup: "\n    <div [formGroup]=\"myGroup\">\n      <div>
        <input (ngModel)="showMoreControls()">
      </div>
    </div>

    In your class:\n\n    this.myGroup = new FormGroup({\n      showMoreControls: new FormControl()\n    });
```

```typescript
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```
add a formGroup
   directive and pass it an existing FormGroup instance (you can create one in your
class):

Example:

   `

   + FormErrorExamples.formControlName);
   `)

ReactiveErrors.ngModelGroupException = function () {
  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)

Example:

   `

   + FormErrorExamples.formGroupName + "\n   + FormErrorExamples.ngModelGroup);
   `)

ReactiveErrors.missingFormException = function () {
  throw new Error("formGroup 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:

   `

   + FormErrorExamples.formGroupName);
   `)

ReactiveErrors.groupParentException = function () {
  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:

   `

   + FormErrorExamples.formGroupName);
   `)

ReactiveErrors.arrayParentException
   = function () {
  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:

   `

   + FormErrorExamples.formArrayName);
   `)

ReactiveErrors.disabledAttrWarning = function () {
  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 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)});

last: new FormControl(Drew',
   Validators.required)});

})

ReactiveErrors.ngModelGroupWarning = function (directiveName)
   {
  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.

For more information on this, see our API docs here:
https://angular.io/api/forms" + (directiveName === 'formControl' ? 'FormControlDirective' : 'FormControlName') + "#use-with-ngmodel"

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```typescript
let country = { country: 'US', name: 'United States' }

const select = document.createElement('select')
select.setAttribute('name', 'country')
select.setAttribute('value', country.country)
select.innerHTML = `${country.name}

const countries = [{
  id: 1,
  country: 'US',
  name: 'United States'
}, {
  id: 2,
  country: 'CA',
  name: 'Canada'
},

const selectControlValueAccessor = new SelectControlValueAccessor(reactiveFormsModule, @publicApi); VAR VAR

this._renderer.setProperty(select, 'value', country.country);
this._renderer.setProperty(select, 'name', 'country')
```
`<select not=[multiple]>
<option *ngFor="let country of countries" [ngValue]="country">
  {{ country.name }}
</option>
</select>`

```
/**
 * @description
 * Marks `<option>` as dynamic, so Angular can be notified when options change.
 * @see `SelectControlValueAccessor`
 *
 * @ngModule ReactiveFormsModule
 * @ngModule FormsModule
 * @publicApi
 */
    var NgSelectOption = /** @class */ (function () {
        function 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", {
            /**
             * @description
             * Tracks the value bound to the option element. Unlike the value binding,
             * ngValue supports binding to objects.
             */
            set: function (value) {
                if (this._select == null)
                    return;
                this._select._optionMap.set(this.id, value);
                this._setElementValue(_buildValueString(this.id, value));
                this._select.writeValue(this._select.value);
            },
            enumerable: true,
            configurable: true
        });
        Object.defineProperty(NgSelectOption.prototype, "value", {
            /**
             * @description
             * Tracks simple string values bound to the option element.
             * For objects, use the `ngValue` input binding.
             */
            set: function (value) {
                this._setElementValue(value);
                if (this._select)
                    this._select.writeValue(this._select.value);
            },
            enumerable: true,
            configurable: true
        });
        NgSelectOption.prototype._setElementValue = function (value) {
            this._renderer.setProperty(this._element.nativeElement, 'value', value);
        };
        NgSelectOption.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])
            ], NgSelectOption.prototype, "ngValue", null);
    __decorate([core.Input('value'),
                __metadata("design:type", Object),
                __metadata("design:paramtypes", [Object])
            ], NgSelectOption.prototype, "value", null);
    NgSelectOption = __decorate([core.Directive({ selector: 'option' }),
                                  __param(2, core.Optional()),
                                  __param(2, core.Host()),
                                  __metadata("design:paramtypes", [core.ElementRef, core.Renderer2,
                                                               SelectControlValueAccessor])
                              ], NgSelectOption);
```
function (valueString) {
    var id = _extractId$1(valueString);
    return this._optionMap.has(id) ?
        this._optionMap.get(id)._value : valueString;
}

<SelectMultipleControlValueAccessor.prototype, \'compareWith\', null>;

SelectMultipleControlValueAccessor = __decorate([
    core.Input(),
    __metadata("design:type", Function),
    __metadata("design:paramtypes", [Function])
], SelectMultipleControlValueAccessor.prototype);

SelectMultipleControlValueAccessor = __decorate([
    core.Directive({
        selector: 'select[multiple][formControlName],select[multiple][formControl],select[multiple][ngModel]',
        host: {
            'change': 'onChange(Sevenet.target)',
            'blur': 'onTouched()
        },
        providers: [SELECT_MULTIPLE_VALUE_ACCESSOR]
    }),
    __metadata("design:paramtypes", [core.Renderer2, core.ElementRef])
], SelectMultipleControlValueAccessor);

NgSelectMultipleOption = /** @class */ (function () {
    function NgSelectMultipleOption(_element, _renderer,
        _select) {
        this._element = _element;
        this._renderer = _renderer;
        this._select = _select;
        if (this._select) {
            this.id = this._select._registerOption(this);
        }
    }

    Object.defineProperty(NgSelectMultipleOption.prototype, "ngValue", {
        set: function (value) {
            if (this._select == null)
                return;
            this._value = value;
            this._setElementValue(_buildValueString$1(this.id, value));
            this._select.writeValue(this._select.value);
        },
        enumerable: true,
        configurable: true
    });
    Object.defineProperty(NgSelectMultipleOption.prototype, "value", {
        set: function (value) {
            if (this._select) {
                this._value = value;
                this._setElementValue(_buildValueString$1(this.id, value));
                this._select.writeValue(this._select.value);
            }
            else {
                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);
        }
        setUpViewChangePipeline(this._select, this._rendered);
    }
    __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, core.SelectMultipleControlValueAccessor])
], NgSelectMultipleOption.prototype);

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     */
    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(value(control.value));
        setUpViewChangePipeline(control, dir);
    }

    setUpControl(control, dir)

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    *
setUpModelChangePipeline(control, dir);
    setUpBlurPipeline(control, dir);
    if (dir.valueAccessor.setDisabledState) {
        dir.valueAccessor.setDisabledState(isDisabled);  
        // re-run validation when validator binding changes, e.g. minlength=3 -&gt; 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(); });
            }
        });
    }
    function cleanUpControl(control, dir) {
        dir.valueAccessor.registerOnChange(function () { return _noControlError(dir); });
        dir.valueAccessor.registerOnTouched(function () { return _noControlError(dir); });
        dir._rawValidators.forEach(function (validator) {
            if (validator.registerOnValidatorChange) {
                validator.registerOnValidatorChange(null);
            }
        });
        dir._rawAsyncValidators.forEach(function (validator) {
            if (validator.registerOnValidatorChange) {
                validator.registerOnValidatorChange(null);
            }
        });
        if (control) control._clearChangeFns();
    }
    function setUpViewChangePipeline(control, dir) {
        dir.valueAccessor.registerOnChange(function (newValue) {
            control._pendingValue = newValue;
            control._pendingDirty = true;
            control._pendingChange = true;
            control.updateValueAndValidity();
        });
    }
    function setUpBlurPipeline(control, dir) {
        dir.valueAccessor.registerOnTouched(function () {
            control._pendingTouched = true;
            if (control.updateOn === 'blur' &amp;& control._pendingChange)
                updateControl(control, dir);
            if (control.updateOn !== 'submit')
                control.markAsTouched();
        });
    }
    function updateControl(control, dir) {
        if (control._pendingDirty)
            control.markAsDirty();
        control.setValue(control._pendingValue, { emitModelToViewChange: false });
        dir.viewToModelUpdate(control._pendingValue);
        control._pendingChange = false;
    }
    function setUpModelChangePipeline(control, dir) {
        control.registerOnChange(function (newValue, emitModelEvent) {
            // control &lt;- view
            dir.valueAccessor.writeValue(newValue);
            // control &lt;- ngModel
            if (emitModelEvent)
                dir.viewToModelUpdate(newValue);
        });
    }
    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 _noControlError(dir, message) {
            var messageEnd;
            if (dir.path.length &gt; 1) {
                messageEnd = 'path: ' + dir.path.join(' &gt; ') + ' in ';
            } else if (dir.path[0]) {
                messageEnd = 'name: ' + dir.path + ' in ';
            } 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 syncPendingControls(form, directives) {
            form._syncPendingControls();
            directives.forEach(function (dir) {
                var control = dir.control;
                if (control.updateOn === 'submit' &amp;&amp; control._pendingChange)
                    dir.viewToModelUpdate(control._pendingValue);
                    control._pendingChange = false;
            });
        }
    }
    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) {
        directives.forEach(function (dir) {
            var control = dir.control;
            if (control.updateOn === 'submit' &amp;&amp; control._pendingChange)
                dir.viewToModelUpdate(control._pendingValue);
                control._pendingChange = false;
        });
    }
    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) {
        directives.forEach(function (dir) {
            var control = dir.control;
            if (control.updateOn === 'submit' &amp;&amp; control._pendingChange)
                dir.viewToModelUpdate(control._pendingValue);
                control._pendingChange = false;
        });
    }
    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) {
        directives.forEach(function (dir) {
            var control = dir.control;
            if (control.updateOn === 'submit' &amp;&amp; control._pendingChange)
                dir.viewToModelUpdate(control._pendingValue);
                control._pendingChange = false;
        });
    }
    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);
    }
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        CheckboxControlValueAccessor,
        RangeValueAccessor,
        NumberValueAccessor,
        SelectControlValueAccessor,
        SelectMultipleControlValueAccessor,
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    function isBuiltInAccessor(valueAccessor) {
        return BUILTIN_ACCESSORS.some(function (a) { return valueAccessor.constructor === a; });
    }
    function syncPendingControls(form, directives) {
        directives.forEach(function (dir) {
            var control = dir.control;
            if (control.updateOn === 'submit' &amp;&amp; control._pendingChange)
                dir.viewToModelUpdate(control._pendingValue);
                control._pendingChange = false;
        });
    }
    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);
    }
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        CheckboxControlValueAccessor,
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    function isBuiltInAccessor(valueAccessor) {
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    }
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        directives.forEach(function (dir) {
            var control = dir.control;
            if (control.updateOn === 'submit' &amp;&amp; control._pendingChange)
                dir.viewToModelUpdate(control._pendingValue);
                control._pendingChange = false;
        });
    }
    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) {
        directives.forEach(function (dir) {
            var control = dir.control;
            if (control.updateOn === 'submit' &amp;&amp; control._pendingChange)
                dir.viewToModelUpdate(control._pendingValue);
                control._pendingChange = false;
        });
    }
    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);
    }
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* 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.
* control
  The control.
* function
  AbstractControl(validator, asyncValidator) {
    this.validator = validator;
    this.asyncValidator = asyncValidator;
    this.disabled = false;
    this.dirty = false;
    this.pristine = true;
    this.untouched = true;
    this.touched = false;
    this._parent = null;
    this._updateOn = 'change';
    this._onDisabledChange = function () {};
    this._onCollectionChange = function () {};
  }

  /**
   * Sets the synchronous validators that are active on this control.
   * Calling
   * @returns True if this control has passed all of its validation tests,
   * @ see {@link AbstractControl.status}
   */
  function
  get: function () { return this.status === VALID; },
  enumerable: true,
  configurable: true

  Object.defineProperty(AbstractControl.prototype, "status", {
    /**
     * A control is `valid` when its `status` is `VALID`.
     * @ see {@link AbstractControl.status}
     */
    get: function () { return this.status === VALID; },
    enumerable: true,
    configurable: true
  });

  Object.defineProperty(AbstractControl.prototype, "dirty", {
    /**
     * A control is `dirty` if the user has changed the value
     * in the UI; compare `pristine`.
     */
    get: function () { return !this.pristine; },
    enumerable: true,
    configurable: true
  });

  Object.defineProperty(AbstractControl.prototype, "valid", {
    /**
     * A control is `valid` if the user has not yet changed the value
     * in the UI; compare `dirty`.
     */
    get: function () { return this.status === VALID; },
    enumerable: true,
    configurable: true
  });

  Object.defineProperty(AbstractControl.prototype, "pristine", {
    /**
     * A control is `pristine` if the user has not yet changed the value
     * in the UI; compare `dirty`.
     */
    get: function () { return this.pristine === true; },
    enumerable: true,
    configurable: true
  });

  Object.defineProperty(AbstractControl.prototype, "untouched", {
    /**
     * A control is `untouched` if the user has not yet changed the value
     * in the UI; compare `dirty`.
     */
    get: function () { return this.untouched === true; },
    enumerable: true,
    configurable: true
  });

  Object.defineProperty(AbstractControl.prototype, "touched", {
    /**
     * A control is `touched` once the user has triggered
     * a `blur` event on it.
     */
    get: function () { return this.touched === true; },
    enumerable: true,
    configurable: true
  });

  Object.defineProperty(AbstractControl.prototype, "disabled", {
    /**
     * A control is `disabled` when its `status` is `DISABLED`.
     */
    get: function () { return this.status === DISABLED; },
    enumerable: true,
    configurable: true
  });

  Object.defineProperty(AbstractControl.prototype, "enabled", {
    /**
     * A control is `enabled` as long as its `status` is not `DISABLED`.
     */
    get: function () { return this.status !== DISABLED; },
    enumerable: true,
    configurable: true
  });

  Object.defineProperty(AbstractControl.prototype, "invalid", {
    /**
     * A control is `invalid` when its `status` is `INVALID`.
     */
    get: function () { return this.status === INVALID; },
    enumerable: true,
    configurable: true
  });

  Object.defineProperty(AbstractControl.prototype, "pending", {
    /**
     * A control is `pending` when its `status` is `PENDING`.
     */
    get: function () { return this.status === PENDING; },
    enumerable: true,
    configurable: true
  });

  Object.defineProperty(AbstractControl.prototype, "disabledReason", {
    /**
     * A control is `disabledReason` when its `status` is `DISABLED`.
     */
    get: function () { return this.disabledReason || null; },
    enumerable: true,
    configurable: true
  });

  Object.defineProperty(AbstractControl.prototype, "asyncValidator", {
    /**
     * A control is `asyncValidator` when its `status` is `PENDING`.
     */
    get: function () { return asyncValidator || null; },
    enumerable: true,
    configurable: true
  });

  Object.defineProperty(AbstractControl.prototype, "disabledReason", {
    /**
     * A control is `disabledReason` when its `status` is `DISABLED`.
     */
    get: function () { return this.disabledReason || null; },
    enumerable: true,
    configurable: true
  });

  Object.defineProperty(AbstractControl.prototype, "asyncValidator", {
    /**
     * A control is `asyncValidator` when its `status` is `PENDING`.
     */
    get: function () { return asyncValidator || null; },
    enumerable: true,
    configurable: true
  });
overwrites any existing async validators.

* @see `markAsUntouched()` when the control is `touched`. A control is `touched` by focus and blur events that do not change the value.

* @see `markAsPristine()` on the control.

* @see `markAsDirty()` when the control has any children, also marks all children as `untouched` and recalculates the `touched` status of all parent controls.

* @see `markAsPristine()` on the control.

* @see `markAsDirty()` when the control has any children, also marks all children as `untouched` and recalculates the `touched` status of all parent controls.

* @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.

* @param opts Configuration options that determine how the control propagates changes and emits events after marking is applied.

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  * `onlySelf`: When true, mark only this control. When false or not supplied, marks all direct ancestors. Default is false.
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A control is pending while the control performs async validation. 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. If the control has been marked artificially dirty we don't want to re-calculate the parent's dirtiness based on the children's.

The `statusChanges` observable emits an event with the latest status after marking is applied.

* `onlySelf`: When true, mark only this control. When false or not supplied, marks all direct ancestors. Default is false.

* `skipPristineCheck`: When true or not supplied (the default), the `statusChanges` observable emits an event with the latest status the control is marked pending.

* `statusChanges`: 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.

* `valueChanges`: When true or not supplied (the default), the `statusChanges` observable emits an event with the latest status after marking is applied.

* `validateAndMarkAsDirty`: When true or not supplied (the default), the `validateAndMarkAsDirty` function is called.

* `validateAndMarkAsPristine`: When true or not supplied (the default), the `validateAndMarkAsPristine` function is called.

* `validateAndMarkAsTouched`: When true or not supplied (the default), the `validateAndMarkAsTouched` function is called.

* `validateAndMarkAsPending`: When true or not supplied (the default), the `validateAndMarkAsPending` function is called.

* `validateAndMarkAsUndefined`: When true or not supplied (the default), the `validateAndMarkAsUndefined` function is called.

* `validateAndMarkAsUntouched`: When true or not supplied (the default), the `validateAndMarkAsUntouched` function is called.

* `validateAndMarkAsValid`: When true or not supplied (the default), the `validateAndMarkAsValid` function is called.

* `validateAndMarkAsInvalid`: When true or not supplied (the default), the `validateAndMarkAsInvalid` function is called.

* `validateAndMarkAsDirty`: When true or not supplied (the default), the `validateAndMarkAsDirty` function is called.

* `validateAndMarkAsPristine`: When true or not supplied (the default), the `validateAndMarkAsPristine` function is called.

* `validateAndMarkAsTouched`: When true or not supplied (the default), the `validateAndMarkAsTouched` function is called.

* `validateAndMarkAsPending`: When true or not supplied (the default), the `validateAndMarkAsPending` function is called.

* `validateAndMarkAsUndefined`: When true or not supplied (the default), the `validateAndMarkAsUndefined` function is called.

* `validateAndMarkAsUntouched`: When true or not supplied (the default), the `validateAndMarkAsUntouched` function is called.

* `validateAndMarkAsValid`: When true or not supplied (the default), the `validateAndMarkAsValid` function is called.

* `validateAndMarkAsInvalid`: When true or not supplied (the default), the `validateAndMarkAsInvalid` function is called.
@param opts Configuration options determine how the control propagates changes and emits events
        * after updates and validity checks are applied.
        * * onlySelf*: When true, only update this control. When false or not supplied, update 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 updated.
        * When false, no events are emitted.

AbstractControl.prototype.updateValueAndValidity = function (opts) {
    if (opts === void 0) { opts = {}; }
    this._setInitialStatus();
    this._updateValue();
    if (this.enabled) {
        this._cancelExistingSubscription();
        this.errors = this._runValidator();
        this.status = this._calculateStatus();
        if (this.status === VALID || this.status === PENDING) {
            this._runAsyncValidator(opts.emitEvent); //emit valueChanges and statusChanges, update all direct ancestors
            if (this.validator) {
                this.validator(this); //emit valueChanges when the control is manual and has an onValueChange
                this.updateValueAndValidity({ onlySelf: true, emitEvent: opts.emitEvent });
            }
        }
    }
    if (opts.onlySelf) {
        this._updateChildren();
        var obs = toObservable(this.asyncValidator(this));
        this._asyncValidationSubscription = obs.subscribe(function (errors) { return this.setErrors(errors, { emitEvent: opts.emitEvent }); });
    } else {
        this._forallChildren(function (ctrl) { return ctrl._updateTreeValidity({ onlySelf: opts.onlySelf, emitEvent: opts.emitEvent }); });
    }
}
/** @internal */
AbstractControl.prototype._updateTreeValidity = function (opts) {
    if (opts === void 0) { opts = { emitEvent: true }; }
    if (this.enabled) {
        this._forEachChild(function (ctrl) { return ctrl._updateTreeValidity({ onlySelf: opts.onlySelf, emitEvent: opts.emitEvent }); });
    } else {
        this._cancelExistingSubscription();
    }
}

AbstractControl.prototype.setErrors = function (errors, opts) {
    if (opts === void 0) { opts = {}; }
    this.errors = errors;
    this._updateControlsErrors(opts.emitEvent !== false);
}

AbstractControl.prototype._setInitialStatus = function () {
    this.status = this._allControlsDisabled() ? DISABLED : VALID;
    this._cancelExistingSubscription();
    this.errors = errors;
    this._updateControlsErrors(true);
    this.valueChanges.emit(this.value);
    this.statusChanges.emit(this.status);
    if (this._parent && !opts.onlySelf) {
        this._parent.updateValueAndValidity(opts); //emit valueChanges and statusChanges when the given path has the error specified.
    }
}

expect(login.valid).toEqual(false);
expect(login.errors).toEqual({ notUnique: true });

const login = new FormControl('someLogin');
login.setErrors({
    notUnique: true
});
expect(login.valid).toEqual(false);

### Retrieve 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']);
```

### Manually set the errors for a control

```
FormControl('someLogin');
```

* login.setErrors({
    notUnique: true
});

* ### Retrieve 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']);
```

### Retrieve a nested control

```
AbstractControl.prototype.get = function (path) { return this._find(this, path, '.'); };
```

* @description

* Reports whether the control with the given path has the error specified.

```
this.get(path): this;
```
* @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.

The path to the ‘street’ control from the root form would be ‘address’ -> ‘street’.

Example of a path:
`['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.

* @returns whether the given error is present in the control at the given path.

*/

AbstractControl.prototype.hasError = function (errorCode, path) {
    return !!this.getError(errorCode, path);
}

/**
 * Retrieves the top-level ancestor of this control.
 */

AbstractControl.prototype._updateControlsErrors = function (emitEvent) {
    this.status = this._calculateStatus();
    if (emitEvent) {
        this.statusChanges.emit(this.status);
    }
    if (this._parent) {
        this._parent._updateControlsErrors(emitEvent);
    }
}

AbstractControl.prototype._initObservables = function () {
    this.valueChanges = new core.EventEmitter();
    this.statusChanges = new core.EventEmitter();
}

AbstractControl.prototype._calculateStatus = function () {
    if (this._allControlsDisabled())
        return DISABLED;
    if (this.errors)
        return INVALID;
    if (this._anyControlsHaveStatus(PENDING))
        return PENDING;
    if (this._anyControlsHaveStatus(INVALID))
        return INVALID;
    return VALID;
}

AbstractControl.prototype._anyControlsHaveStatus = function (status) {
    return this._anyControls(function (control) { return control.status === status; });
}

AbstractControl.prototype._anyControlsDirty = function () {
    return this._anyControls(function (control) { return control.dirty; });
}

AbstractControl.prototype._anyControlsTouched = function () {
    return this._anyControls(function (control) { return control.touched; });
}

AbstractControl.prototype._updatePristine = function (opts) {
    this.pristine = !this._anyControlsDirty();
    if (this._parent && !opts.onlySelf) {
        this._parent._updatePristine(opts);
    }
}

AbstractControl.prototype._updateTouched = function (opts) {
    this.touched = this._anyControlsTouched();
    if (this._parent && !opts.onlySelf) {
        this._parent._updateTouched(opts);
    }
}

AbstractControl.prototype._isBoxedValue = function (formState) {
    return typeof formState === 'object'
        && formState !== null &&
        Object.keys(formState).length === 2 && 'value' in formState && 'disabled' in formState;
}

AbstractControl.prototype._registerOnCollectionChange = function (fn) { this._onCollectionChange = fn; }

AbstractControl.prototype._setUpdateStrategy = function (opts) {
    if (isOptionsObj(opts) && opts.updateOn != null) {
        this._updateOn = opts.updateOn;
    }
}

AbstractControl.prototype._parentMarkedDirty = function (onlySelf) {
    var parentDirty = this._parent && this._parent.dirty;
    return !onlySelf && parentDirty && !this._parent._anyControlsDirty();
}

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These come in handy when you want to perform validation that considers the value of more than one child. You include group-level validators as the second arg, or group-level async validators as the third arg.

```typescript
last: new FormControl('Drew'),
```
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```javascript
/**
 * Sets the value of the `FormGroup`.
 * It accepts an object that matches
 * the structure of the group,
 */
FormGroup.prototype.contains = function (controlName)

    @param controlName The control name to check for existence in the collection
    *
    * @returns

there is an enabled control with the given name in the group.

* Reports false for disabled controls. If
you'd like to check for existence in the group
only, use `_link AbstractControl#get get` instead.

* @param controlName The control name to check for existence in the collection
  *
  * @returns false for disabled controls, true otherwise.

return this.controls.hasOwnProperty(controlName) && this.controls[controlName].enabled;

*/

/*

function passwordMatchValidator(g) {

    return g.get('password').value === g.get('passwordConfirm').value;
}

*/

passwordMatchValida```
with control names as keys.

```javascript
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 });
        });
    };
    const form = new FormGroup(
        new FormControl(),
        last: new FormControl());
    console.log(form.value);
    if (first: null, last: null) {
        form.setValue({first: 'Nancy', last: 'Drew'});
        console.log(form.value);
    };
    form.reset();
```
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```
* `FormControl`, `FormGroup` or `FormArray` instances.
*
* A `FormArray` aggregates the values of
* it excludes disabled controls in the `FormGroup`.

```
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 `FormGroup` and `FormControl`.

### Create an array of form controls

```javascript
var arr = new FormArray([new FormControl('Nancy'), new FormControl('Drew')]);
```

### Adding or removing controls from a form array

```javascript
arr.push(new FormControl('Bobby'));
arr.removeAt(1);
```

### Change detection

The changes to the child controls are tracked in the form 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.

```javascript
```

### Set the updateOn property for all controls in a form array

```javascript
arr.setUpdateOn('blur');
```

### Set the updateOn property for each child control

```javascript
arr.controls[0].setUpdateOn('blur');
```

### Set the updateOn property for an array of controls

```javascript
arr.controls.setUpdateOn('blur');
```

### Different updateOn values

Each child control is given an index where it is registered. The two types of validators are passed in separately as the second and third argument, respectively, or together as an options object.

```javascript
arr = new FormArray([new FormControl('Nancy'), new FormControl('Drew')], { validators: myValidator, asyncValidators: myAsyncValidator });
```

### Set the updateOn property for the array

```javascript
arr.setUpdateOn('blur');
```

### Using `FormArray` as a synchronous validator function

```javascript
arr = new FormControl('Nancy', Validators.minLength(2));
```

### Using `FormArray` as an async validator

```javascript
arr = new FormControl('Nancy', [Validators.minLength(2), asyncValidator]);
```

### Using `FormArray` with async validators

```javascript
arr = new FormControl('Nancy', [Validators.minLength(2), myAsyncValidator]);
```

### Create a form array with array-level validators

```javascript
arr = new FormArray([new FormControl('Nancy'), new FormControl('Drew')], { validators: myValidator, asyncValidators: myAsyncValidator });
```

### Create a form array with array-level validators and async validators

```javascript
arr = new FormArray([new FormControl('Nancy'), new FormControl('Drew')], { validators: myValidator, asyncValidators: myAsyncValidator });
```
### Patch the values for controls in a form array

```ts
const arr = new FormArray([new FormControl(), new FormControl()]);
console.log(arr.value); // [null, null]
arr.patchValue(['Nancy', 'Drew']);
console.log(arr.value); // ['Nancy', 'Drew']
```
control.setParent(this);` control._registerOnCollectionChange(this._onCollectionChangeChange);` return FormArray;`
` (AbstractControl));` `/*@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 formDirectiveProvider = {
` var: provide:
` ControlContainer,
` useExisting: core.forwardRef(function () { return NgForm; })
`;` var 0 = function ()
` { return Promise.resolve(null); }`
`;` var resolvedPromise = (0);`
` /**
` * @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 elements, which can be changed through the `formGroup` option. It
` * is intended to be used in cases where you need to manually track the
` * validity of a form. For example, when using the `AngularForm` directive
` * you may want 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
` * event, not the form's native DOM submission.
` * In template driven forms, all `<form>` tags are automatically tagged as `NgForm`.
` * To import the `FormsModule` but skip its usage in some forms, you may use the
` * `formGroup` option to control the `FormGroup` instance.

## Setting the update options

The following example shows how to capture the form values from the `ngSubmit` event:
```javascript
* @example
* ```html
* <form>
*   ...
* </form>
* ```
* ### Native DOM validation

In order to prevent the native DOM form validation UI from interfering with Angular's form
* validation, Angular automatically adds the `novalidate` attribute on any `<form>` when

* `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:
```html
* ```
* Change the `updateOn` option from its default using the
* `formOptions` option:
```javascript
* ```html
* ```
* 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
* */
* return FormArray;
* }(`AbstractControl`));
* /**
* @description
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* found in the LICENSE file at https://angular.io/license
* */
* var formDirectiveProvider = {
* var: provide:
* ControlContainer,
* useExisting: core.forwardRef(function () { return NgForm; })
* var 0 = function ()
* { return Promise.resolve(null); }
* var resolvedPromise = (0);
* /**
* * @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 elements, which can be changed through the `formGroup` option. It
* * is intended to be used in cases where you need to manually track the
* * validity of a form. For example, when using the `AngularForm` directive
* * you may want 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
* * event, not the form's native DOM submission.
* * In template driven forms, all `<form>` tags are automatically tagged as `NgForm`.
* * To import the `FormsModule` but skip its usage in some forms, you may use the
* * `formGroup` option to control the `FormGroup` instance.
```

## Setting the update options

The following example shows how to capture the form values from the `ngSubmit` event:
```javascript
* @example
* ```html
* <form>
*   ...
* </form>
* ```
* ### Native DOM validation

In order to prevent the native DOM form validation UI from interfering with Angular's form
* validation, Angular automatically adds the `novalidate` attribute on any `<form>` whenever


Object.defineProperty(NgForm.prototype, 'controls', { get: function () { return this.form.controls; }, enumerable: true, configurable: true });

NgForm.prototype.addControl = function (dir) {
    var _this = this;
    resolvedPromise.then(function () {
        var container = _this._findContainer(dir.path);
        dir.control = container.registerControl(dir.name, dir.control);
        container.updateValueAndValidity({ emitEvent: false });
        _this._directives.push(dir);
    });
}

NgForm.prototype.removeFormGroup = function (dir) {
    var _this = this;
    resolvedPromise.then(function () {
        var container = _this._findContainer(dir.path);
        container.removeControl(dir.name);
    });
}

NgForm.prototype.addFormGroup = function (dir) {
    var _this = this;
    resolvedPromise.then(function () {
        var container = _this._findContainer(dir.path);
        container.registerControl(dir.name, dir.control);
        setUpControl(dir.control, dir);
    });
}

NgForm.prototype.addControl = function (dir) {
    var _this = this;
    resolvedPromise.then(function () {
        var ctrl = _this.form.get(dir.path);
        ctrl.setValue(value);
    });
}

NgForm.prototype.removeControl = function (dir) {
    var _this = this;
    resolvedPromise.then(function () {
        var container = _this._findContainer(dir.path);
        container.removeControl(dir.name);
    });
}

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        setUpControl(dir.control, dir);
    });
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        setUpControl(dir.control, dir);
    });
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        setUpControl(dir.control, dir);
    });
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        ctrl.setValue(value);
    });
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    resolvedPromise.then(function () {
        var container = _this._findContainer(dir.path);
        container.removeControl(dir.name);
    });
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        container.registerControl(dir.name, dir.control);
        setUpControl(dir.control, dir);
    });
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        setUpControl(dir.control, dir);
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        setUpControl(dir.control, dir);
    });
}

NgForm.prototype.removeFormGroup = function (dir) {
    var _this = this;
    resolvedPromise.then(function () {
        var container = _this._findContainer(dir.path);
        container.removeControl(dir.name);
    });
}
function AbstractFormDirective() {
    return _super !== null && _super.apply(this, arguments) || this;
}

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\n\n      " + FormErrorExamples.ngModelWithFormGroup);}

TemplateDrivenErrors.modelParentException = function () {
    throw new Error("\n      ngModel cannot be used to register form controls with a parent formGroup directive. Try using\n      formGroup's partner directive \"formControlName\" instead. Example:\n\n      " + FormErrorExamples.formControlName + "\n\n      Or, if you'd like to avoid registering this form control, indicate that it's standalone in ngModelOptions:\n\n      " + FormErrorExamples.ngModelWithFormGroup);}

TemplateDrivenErrors.ngModelIsInvalid = function () {
    throw new Error("The ngModel is invalid.\n\n      Example:\n\n      " + FormErrorExamples.ngModelIsInvalid);}

TemplateDrivenErrors.ngModelIsInvalidAfterRequest = function () {
    throw new Error("The ngModel is invalid after a request.\n\n      Example:\n\n      " + FormErrorExamples.ngModelIsInvalidAfterRequest);
formControlName instead of ngModel (reactive strategy):

  Option 2: Update ngModel's parent be NgModelGroup (template-driven strategy):

      "templateDrivenErrors.formGroupName
      
      Option 2: Update ngModel's parent be ngModelGroup (template-driven strategy):

      " + FormErrorExamples.ngModelGroup

      Option 1: Use formGroupName instead of ngModelGroup (reactive strategy):

        " + FormErrorExamples.formGroupName + 

        Option 2: Use a regular form tag instead of the formGroup directive (template-driven strategy):

      " + FormErrorExamples.ngModelGroup

      return TemplateDrivenErrors; })();

    /**
     * @license
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     * https://angular.io/license
     */
    var modelGroupProvider = {
        provide: ControlContainer,
        useExisting: core.forwardRef(function () { return 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:

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    * https://angular.io/license
    */
    var formControlBinding = {
        provide: NgControl,
        useExisting: core.forwardRef(function () { return NgModel; })
    };

    var 0$1 = function () { return Promise.resolve(null); };

    /**
     * `ngModel` forces an additional change detection run when its inputs change:
     * E.g.:
     * ```
     * <div>{{myModel.valid}}</div>
     * <input 

     * 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 old value as they have been dirty checked before. As this is a very common case for `ngModel`, we added this second change

     * - this is just one extra run no matter how many `ngModel` have been changed.
this is a general problem when using `exportAs` for directives
* in a form control element.
* The `FormControl` 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 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), export the directive into a local template variable using `ngModel` as the key (ex: `#myVar=\$\{ngModel\}`).
* You then access the control using the directive's `control` property, but most properties are used (like `valid` and `dirty`) fall through to the control anyway for direct access.
* See a full list of properties directly available in `AbstractControlDirective`.
* `@see RadioControlValueAccessor` * `@see SelectControlValueAccessor` * `@usageNotes` * `## Using ngModel on a standalone control`
* The following examples show a simple standalone control using `ngModel`:
* 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 local template variable using `ngForm` such as (`#f=\$\{ngForm\}`). Use the variable where
* needed on form submission.
* If you don't 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.
* `### Using ngModel within a form`
* The following example shows controls using `ngModel` within a form:
* The following example shows you how to use a standalone ngModel control within a form. This controls the display of the form, but doesn't contain form data.
* If you 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.
* `### Setting the ngModel name attribute through options`
* The following example shows 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.
* `### Using ngModel on a standalone control`
* `## Using ngModel within a form`
* The following examples show a simple standalone control using `ngModel`:
* `## Setting the ngModel name attribute through options`
* `### Using ngModel within a form`
* This controls the display of the form, but doesn't contain form data.
* `### Setting the ngModel name attribute through options`
* `### Using ngModel within a form`
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* This controls the display of the form, but doesn't contain form data.
* `### Setting the ngModel name attribute through options`
* `### Using ngModel within a form`
* This controls the display of the form, but doesn't contain form data.
@description
* Lifecycle method called before the directive's instance is destroyed. For internal
use only.

NgModel.prototype.ngOnDestroy = function () { this.formDirective &&
this.formDirective.removeControl(this); };

Object.defineProperty(NgModel.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 this._parent ? controlPath(this.name, this._parent) : [this.name];
},

enumerable: true,
configurable: true

Object.defineProperty(NgModel.prototype, "\"validator\"");

/**
* @description
* The top-level directive for this control if present, otherwise null.
*/
get: function () { return this._parent ? this._parent.formDirective : null; },

enumerable: true,
configurable: true

Object.defineProperty(NgModel.prototype, "\"asyncValidator\"");

/**
* @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(NgModel.prototype, "\"asyncValidator\"");

/**
* @description
* Async validator function composed of all the
* async validators registered with this directive.
*/
get: function () {
    return composeAsyncValidators(this._rawAsyncValidators);
},

enumerable: true,
configurable: true

NgModel.prototype.viewToModelUpdate = function (newValue) {
    this.viewModel = newValue;
    this.update.emit(newValue);
}

NgModel.prototype._setUpControl = function () {
    this._setUpdateStrategy();
    this._isStandalone() ? this._setUpStandalone() :
    this.formDirective.addControl(this);
    this._registered = true;
}

NgModel.prototype._setUpdateStrategy = function () {
    if (this.options && this.options.updateOn != null)
    {
        this.control._updateOn = this.options.updateOn;
    }
}

NgModel.prototype._isStandalone = function () {
    return !this._parent || !!(this.options &&
    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();
}

NgModel.prototype._checkParentType = function () {
    if (!(this._parent instanceof NgModelGroup) &&
this._parent instanceof AbstractFormGroupDirective) {
        TemplateDrivenErrors.formGroupNameException();
    }
    else if (!(this._parent instanceof NgModelGroup) &&
!(this._parent instanceof NgForm)) {
        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 disabledValue = changes['isDisabled'].currentValue;
    var isDisabled = disabledValue === '' ||
    (disabledValue && disabledValue !== 'false');
    resolvedPromise$1.then(function () { if
    (isDisabled && !_this.control.disabled) {
        _this.control.disable();
    }
    else if (!isDisabled && _this.control.disabled) {
        _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('ngModelOptions'),
    __metadata("design:type", Object)
], NgModel.prototype, "ngModelOptions", void 0);

__decorate([
    core.Input('ngModel'),
    __metadata("design:type", Object)
], NgModel.prototype, "model", void 0);

__decorate([
    core.Input('name'),
    __metadata("design:type", String)
], NgModel.prototype, "name", void 0);

__decorate([
    core.Input('asyncValidator'),
    __metadata("design:type", Object)
], NgModel.prototype, "asyncValidator", void 0);

__decorate([
    core.Input('validator'),
    __metadata("design:type", Object)
], NgModel.prototype, "validator", void 0);

__decorate([
    core.Input('asyncValidator'),
    __metadata("design:type", Object)
], NgModel.prototype, "asyncValidator", void 0);
function NgModel() {
    return NgModel;
}

/**
 * @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
 */
/**
 * @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
 */
var NgNoValidate = /** @class */ (function () {
    function NgNoValidate() {
    }
    NgNoValidate = __decorate([
        core.Directive({
            selector: 'form:not([ngNoForm]):not([ngNativeValidate])',
            host: { 'novalidate': '' },
        })
    ], NgNoValidate);
    return NgNoValidate;
}());

/**
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 *
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 */
/**
 * 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; })
};
By default, when you use this pattern, you will see a deprecation warning once in dev.

You can choose to silence this warning by providing a config

`ReactiveFormsModule` at import time:

```ts
@NgModule
export class AppModule {
    @NgModule({
        imports: [ReactiveFormsModule, ...
```

Alternatively, you can choose to silence the warning by providing a config

```ts
import { NgModule, ModuleWithImports } from '@angular/core';
import { BrowserModule } from '@angular/platform-browser';

@NgModule({
    imports: [
        BrowserModule
    ]
})
export class AppModule {
}
```

Instance property used to track whether an ngModel warning has been sent out for this

```ts
@Input()
private _ngModelWarningSent: boolean = false;
```

Alternatively, you can choose to surface a separate warning for each instance of this

```ts
@Input()
private _ngModelWarningSent = false;
```

Triggers a warning that this input should not be used with reactive forms.

```ts
set: function value {
    if (value.isDisabled) {
        ReactiveErrors.disabledAttrWarning();
    }
}
```

A lifecycle method called when the directive's inputs change. For internal use

```ts
 ngOnChanges(changes: {[key: string]: any}) {
    if (this._isControlChanged(changes)) {
        setUpControl(this.form, this);
    }
}
```

Returns an array that represents the path from the top-level form to this

```ts
Object.defineProperty(FormControlDirective.prototype, "path", {
    get: function () {
        return [];
    }
});
```

Synchronous validator function composed of all the synchronous validators registered with this

```ts
Object.defineProperty(FormControlDirective.prototype, "validator", {
    get: function () {
        return composeValidators(this._rawValidators);
    }
});
```

Async validator function composed of all the async validators registered with this

```ts
Object.defineProperty(FormControlDirective.prototype, "asyncValidator", {
    get: function () {
        return composeAsyncValidators(this._rawAsyncValidators);
    }
});
```

The `FormControl` bound to this directive.

```ts
get: function () {
    return this.form;
}
```

Sets the new value for the view model and emits an `ngModelChange` event.

```ts
set: function (newValue) {
    this.viewModel = newValue;
    this.viewToModelUpdate();
}
```

Static property used to track whether any ngModel warnings have been sent across

```ts
@Input()
private _ngModelWarningConfig: FormGroup = { /* config */ };
```
FormControlDirective. Used to support warning config of "once".

```
FormControlDirective._ngModelWarningSentOnce = false;
```

```
__decorate([],
    core.Input('formControl'),
    core.Input('disabled'),
    core.Input('ngModel'),
    core.Output('ngModelChange'),
)
```

```
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)),
)
```

```
return FormControlDirective;
```

```
FormGroupDirective = /** @class */ (function (_super) {
    __extends(FormGroupDirective, _super);

    function FormGroupDirective(_validators, _asyncValidators) {
        var _this = _super.call(this) || this;
        _this._validators = _validators;
        _this._asyncValidators = _asyncValidators;

        /* @description
         * Reports whether the form submission has been triggered.
         */
        _this.submitted = false;

        /* @description
         * Tracks the list of added 'FormControlName' instances
         */
        _this.directives = [];

        /* @description
         * Tracks the 'FormGroup' bound to this directive.
         */
        _this.form = null;

        /* @description
         * Emits an event when the form submission has been triggered.
         */
        _this.ngSubmit = new core.EventEmitter();
        return _this;
    }
```
    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.
   * @param dir The `FormControlName` directive instance.
   */
  FormGroupDirective.prototype.addControl = function (dir) {
    var ctrl = this.form.get(dir.path);
    setUpControl(ctrl, dir);
    ctrl.updateValueAndValidity({ emitEvent: false });
    this.directives.push(dir);
  };
  /**
   * Retrieves the `FormControl` instance from the provided `FormControlName` directive
   * @param dir The `FormControlName` directive instance.
   */
  FormGroupDirective.prototype.getControl = function (dir) { return this.form.get(dir.path); };
  /**
   * Removes the `FormControlName` instance from the internal list of directives
   * @param dir The `FormControlName` directive instance.
   */
  FormGroupDirective.prototype.removeControl = function (dir) { removeDir(this.directives, dir); };
  /**
   * Adds a new `FormGroupName` directive instance to the form.
   * @param dir The `FormGroupName` directive instance.
   */
  FormGroupDirective.prototype.addFormGroup = function (dir) {
    var ctrl = this.form.get(dir.path);
    setUpFormContainer(ctrl, dir);
    ctrl.updateValueAndValidity({ emitEvent: false });
  };
  /**
   * No-op method to remove the form group.
   * @param dir The `FormGroupName` directive instance.
   */
  FormGroupDirective.prototype.removeFormGroup = function (dir) { };
  /**
   * 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.
   * @param dir The `FormArrayName` directive instance.
   */
  FormGroupDirective.prototype.addFormArray = function (dir) {
    var ctrl = this.form.get(dir.path);
    setUpFormContainer(ctrl, dir);
    ctrl.updateValueAndValidity({ emitEvent: false });
  };
  /**
   * No-op method to remove the form array.
   * @param dir The `FormArrayName` directive instance.
   */
  FormGroupDirective.prototype.removeFormArray = function (dir) { };
  /**
   * 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.
   */
  FormGroupDirective.prototype.updateModel = function (dir, value) {
    var ctrl = this.form.get(dir.path);
    ctrl.setValue(value);
  };
  /**
   * Method called with the "submit" event is triggered on the form.
   * Triggers the ngSubmit emitter to emit the "submit" event as its payload.
   * @param $event The "submit" event object
   */
  FormGroupDirective.prototype.onSubmit = function ($event) {
    this.submitted = true;
    syncPendingControls(this.form, this.directives);
    this.ngSubmit.emit($event);
    return false;
  };
  /**
   * Method called when the "reset" event is triggered on the form.
   * @param value The new value for the directive's control.
   */
  FormGroupDirective.prototype.onReset = function () { this.resetForm(); };
  /**
   * Resets the form to an initial value and resets its submitted status.
   * @param value The new value for the form.
   */
  FormGroupDirective.prototype.resetForm = function (value) {
    if (value === void 0) { value = undefined; }
    this.form.reset(value);
    this.submitted = false;
  };
  /** @internal */
  FormGroupDirective.prototype._updateDomValue = function () {
    var _this = this;
    this.directives.forEach(function (dir) {
      var newCtrl = _this.form.get(dir.path);
      if (dir.control !== newCtrl) {
        cleanUpControl(dir.control, dir);
        if (newCtrl)
          setUpControl(newCtrl, dir);
        dir.control = newCtrl;
      }
    });
    this.form._updateTreeValidity({ emitEvent: false });
  };
  /**
   * Method called when the "reset" event is triggered on the form.
   * @param value The new value for the form.
   */
  FormGroupDirective.prototype._updateRegistrations = function () { var _this = this;
    this.directives.forEach(function (dir) {
      var newCtrl = _this.form.get(dir.path);
      if (newCtrl) 
      setUpControl(newCtrl, dir);
      dir.control = newCtrl;
    });
    this.form._updateTreeValidity({ emitEvent: false });
  };
this.form._registerOnCollectionChange(function () { return this._updateDomValue(); });
if (this._oldForm)
    this._oldForm._registerOnCollectionChange(function () { });
this._oldForm = this.form;
FormGroupDirective.prototype._updateValidators = function () { var sync = composeValidators(this._validators);
    this.form.validator = Validators.compose([this.form.validator, sync]);
    var async = composeAsyncValidators(this._asyncValidators);
    this.form.asyncValidator = Validators.composeAsync([this.form.asyncValidator, async]);
};
FormGroupDirective.prototype._checkFormPresent = function () { if (!this.form)
    ReactiveErrors.missingFormException();
};
FormGroupDirective.prototype._checkParentType = function () { if (_hasInvalidParent(this._parent))
    ReactiveErrors.groupParentException();
};
FormGroupDirective.prototype._updateValidators = function () { var sync = composeValidators(this._validators);
    this.form.validator = Validators.compose([this.form.validator, sync]);
    var async = composeAsyncValidators(this._asyncValidators);
    this.form.asyncValidator = Validators.composeAsync([this.form.asyncValidator, async]);
};
FormGroupDirective = __decorate([core.Directive({
    selector: '[formGroup]',
    providers: [formDirectiveProvider$1],
    host: { '(submit)': 'onSubmit($event)', '(reset)': 'onReset()' },
    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)),
    __metadata("design:paramtypes", [Array, Array])
], FormGroupDirective);
FormGroupName = /** @class */ (function (_super) {
    __extends(FormGroupName, _super);
    function FormGroupName(parent, validators, asyncValidators) {
        var _this = _super.call(this) || this;
        _this._parent = parent;
        _this._validators = validators;
        _this._asyncValidators = asyncValidators;
        return _this;
    }
    /** @internal */
    FormGroupName.prototype._checkParentType = function () { if (_hasInvalidParent(this._parent))
        ReactiveErrors.groupParentException();
    };
    __decorate([core.Input('formGroupName'),
        __metadata("design:type", Object)
    ], FormGroupName.prototype, "name", void 0);
    FormGroupName = __decorate([core.Directive({ selector: '[formGroupName]',
        providers: [formGroupNameProvider]
    }),
        __param(0, core.Optional()), __param(0, core.SkipSelf()),
        __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)),
        __metadata("design:paramtypes", [ControlContainer, Array, Array])
    ], FormGroupName);
    return FormGroupName;
return FormArrayName; })
    };
    /**
     * @description
     *
     * Syncs a nested `FormArray` to a DOM element.
     */
    var FormArrayName = /** @class */ (function (_super) {
        function FormArrayName(parent, validators, asyncValidators) {
            var _this = _super.call(this) || this;
            _this._parent = parent;
            _this._validators = validators;
            _this._asyncValidators = asyncValidators;
            return _this;
        }
        /**
         * @description
         * A lifecycle method called when the directive's inputs are initialized. For internal use only.
         */
        FormArrayName.prototype.ngOnInit = function () {
            this._checkParentType();
            this.formDirective.addFormArray(this);
        };
        /**
         * @description
         * A lifecycle method called before the directive's instance is destroyed. For internal use only.
         */
        FormArrayName.prototype.ngOnDestroy = function () {
            if (this.formDirective) {
                this.formDirective.removeFormArray(this);
            }
        };
        Object.defineProperty(FormArrayName.prototype, "control", {
            /**
             * @description
             * The `FormArray` bound to this directive.
             */
            get: function () { return this.formDirective.getFormArray(this); },
            enumerable: true,
            configurable: true
        });
        Object.defineProperty(FormArrayName.prototype, "formDirective", {
            /**
             * @description
             * The top-level directive for this group if present, otherwise null.
             */
            get: function () {
                return this._parent ? this._parent.formDirective : null;
            },
            enumerable: true,
            configurable: true
        });
        Object.defineProperty(FormArrayName.prototype, "path", {
            /**
             * Returns an array that represents the path from the top-level form to this control.
             */
            get: function () {
                return controlPath(this.name == null ? this.name : this.name.toString(), this._parent);
            },
            enumerable: true,
            configurable: true
        });
        Object.defineProperty(FormArrayName.prototype, "validator", {
            /**
             * Synchronous validator function composed of all the synchronous
             * validators registered with this directive.
             */
            get: function () { return composeValidators(this._validators); },
            enumerable: true,
            configurable: true
        });
        Object.defineProperty(FormArrayName.prototype, "asyncValidator", {
            /**
             * Async validator function composed of all the async validators registered with this directive.
             */
            get: function () {
                return composeAsyncValidators(this._asyncValidators);
            },
            enumerable: true,
            configurable: true
        });
        FormArrayName.prototype._checkParentType = function () {
            if (_hasInvalidParent(this._parent)) {
                ReactiveErrors.arrayParentException();
            }
        };
        __decorate(
            [core.Input('formArrayName'),
            __metadata("design:type", Object)
        ], FormArrayName.prototype, "name", void 0);
        FormArrayName = __decorate(
            [core.Directive({ selector: '[formArrayName]', providers: [FormArrayNameProvider] })], FormArrayName);
        return FormArrayName;
    }(ControlContainer));
    function _hasInvalidParent(parent) {
        return !(parent instanceof FormGroupName) && !(parent instanceof FormGroupDirective) &&
            !(parent instanceof FormArrayName);
    }

    /**
     * @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 controlNameBinding = {
        provide: NgControl,
        useExisting: FormArrayName,
        decorators: [NgControl
core.forwardRef(function () { return FormControlName; }));

/**
 * @description
 * Syncs a 'FormControl' in an existing 'FormGroup' to a form control element by name.
 *
 * @see [Reactive Forms Guide](guide/reactive-forms)
 * @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.

 * [@example forms/ts/simpleFormGroup/simple_form_group_example.ts region='Component']

 * To see 'FormControlName' examples with different form control types, see:

 * * Radio buttons:
 * * Selects:
 * * ### 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:

 * * `RadioControlValueAccessor`

 * ### Register 'FormControl' within a form

 * The following example shows how to register multiple form controls within a form group and set their value.

 * [example forms/ts/simpleFormGroup/simple_form_group_example.ts region='Component']

 * To see 'FormControlName' examples with different form control types, see:

 * * Radio buttons:
 * * Selects:

 */

var FormControlName = /** @class */ (function (_super) {
    __extends(FormControlName, _super);

    function FormControlName(parent, validators, asyncValidators, valueAccessors, _ngModelWarningConfig) {
        var _this = _super.call(this) || this;

        _this._ngModelWarningConfig = _ngModelWarningConfig;

        _this._added = false;

        /** @deprecated as of v6 */

        _this.update = new core.EventEmitter();

        _this._parent = parent;

        _this._rawValidators = validators || [];

        _this.valueAccessor = selectValueAccessor(_this, valueAccessors);

        return _this;
    }

    FormControlName_1 = FormControlName;
    Object.defineProperty(FormControlName.prototype, "isDisabled", {
        /**
         * @description
         * Triggers a warning that this input should not be used with reactive forms.
         */

        set: function (isDisabled) {
            ReactiveErrors.disabledAttrWarning();
        },

        enumerable: true,

        configurable: true
    });

    /**
     * @description
     * A lifecycle method called when the directive's inputs change. For internal use only.
     */

    reactiveFormsModule.withConfig({warnOnNgModelWithFormControl: 'never'}));

    FormControlName = /** @class */ (function (_super) { return FormControlName; });
A object of key/value pairs for the set of changed inputs.

FormControlName.prototype.ngOnChanges = function (changes) {
    if (!this._added)
        this._setUpControl();
    if (isPropertyUpdated(changes, this.viewModel)) {
        _ngModelWarning('formControlName', FormControlName_1, this, this._ngModelWarningConfig);
        this.viewModel = this.model;
        this.formDirective.updateModel(this, this.model);
    }
}

/**
 * Lifecycle method called before the directive's instance is destroyed. For internal use only.
 */
FormControlName.prototype.ngOnDestroy = function () {
    if (this.formDirective)
        this.formDirective.removeControl(this);
};

/**
 * Sets the new value for the view model and emits an `ngModelChange` event.
 */
FormControlName.prototype.viewToModelUpdate = function (newValue) {
    this.viewModel = newValue;
    this.update.emit(newValue);
};

Object.defineProperty(FormControlName.prototype, "path", {
    /**
     * 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 controlPath(this.name == null ? this.name : this.name.toString(), this._parent);
    },
    enumerable: true,
    configurable: true
});

Object.defineProperty(FormControlName.prototype, "formDirective", {
    /**
     * The top-level directive for this group if present, otherwise null.
     */
    get: function () { return this._parent ? this._parent.formDirective : null; },
    enumerable: true,
    configurable: true
});

Object.defineProperty(FormControlName.prototype, "validator", {
    /**
     * 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(FormControlName.prototype, "asyncValidator", {
    /**
     * Async validator function composed of all the async validators registered with this
     * directive.
     */
    get: function () {
        return composeAsyncValidators(this._rawAsyncValidators);
    },
    enumerable: true,
    configurable: true
});

FormControlName.prototype._checkParentType = function () {
    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();
    }
    this.control = this.formDirective.addControl(this);
    if (this.control.disabled && this.valueAccessor.setDisabledState)
        this.valueAccessor.setDisabledState(true);
    this._added = true;
};

FormControlName.prototype._setUpControl = function () {
    this._checkParentType();
    this.control = this.formDirective.addControl(this);
    if (this.control.disabled &&
        this.valueAccessor.setDisabledState)
        this.valueAccessor.setDisabledState(true);
    this._added = true;
};

Object.defineProperty(FormControlName.prototype, "path", {
    /**
     * 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 controlPath(this.name == null ? this.name : this.name.toString(), this._parent);
    },
    enumerable: true,
    configurable: true
});

Object.defineProperty(FormControlName.prototype, "formDirective", {
    /**
     * The top-level directive for this group if present, otherwise null.
     */
    get: function () { return this._parent ? this._parent.formDirective : null; },
    enumerable: true,
    configurable: true
});

Object.defineProperty(FormControlName.prototype, "validator", {
    /**
     * 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(FormControlName.prototype, "asyncValidator", {
    /**
     * Async validator function composed of all the async validators registered with this
     * directive.
     */
    get: function () {
        return composeAsyncValidators(this._rawAsyncValidators);
    },
    enumerable: true,
    configurable: true
});

FormControlName.prototype._checkParentType = function () {
    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();
    }
    this.control = this.formDirective.addControl(this);
    if (this.control.disabled &&
        this.valueAccessor.setDisabledState)
        this.valueAccessor.setDisabledState(true);
    this._added = true;
};

FormControlName.prototype._setUpControl = function () {
    this._checkParentType();
    this.control = this.formDirective.addControl(this);
    if (this.control.disabled &&
        this.valueAccessor.setDisabledState)
        this.valueAccessor.setDisabledState(true);
    this._added = true;
};

Object.defineProperty(FormControlName.prototype, "path", {
    /**
     * 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 controlPath(this.name == null ? this.name : this.name.toString(), this._parent);
    },
    enumerable: true,
    configurable: true
});

Object.defineProperty(FormControlName.prototype, "formDirective", {
    /**
     * The top-level directive for this group if present, otherwise null.
     */
    get: function () { return this._parent ? this._parent.formDirective : null; },
    enumerable: true,
    configurable: true
});

Object.defineProperty(FormControlName.prototype, "validator", {
    /**
     * 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(FormControlName.prototype, "asyncValidator", {
    /**
     * Async validator function composed of all the async validators registered with this
     * directive.
     */
    get: function () {
        return composeAsyncValidators(this._rawAsyncValidators);
    },
    enumerable: true,
    configurable: true
});

FormControlName.prototype._checkParentType = function () {
    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();
    }
    this.control = this.formDirective.addControl(this);
    if (this.control.disabled &&
        this.valueAccessor.setDisabledState)
        this.valueAccessor.setDisabledState(true);
    this._added = true;
};

FormControlName.prototype._setUpControl = function () {
    this._checkParentType();
    this.control = this.formDirective.addControl(this);
    if (this.control.disabled &&
        this.valueAccessor.setDisabledState)
        this.valueAccessor.setDisabledState(true);
    this._added = true;
};

Object.defineProperty(FormControlName.prototype, "path", {
    /**
     * 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 controlPath(this.name == null ? this.name : this.name.toString(), this._parent);
    },
    enumerable: true,
    configurable: true
});

Object.defineProperty(FormControlName.prototype, "formDirective", {
    /**
     * The top-level directive for this group if present, otherwise null.
     */
    get: function () { return this._parent ? this._parent.formDirective : null; },
    enumerable: true,
    configurable: true
});

Object.defineProperty(FormControlName.prototype, "validator", {
    /**
     * 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(FormControlName.prototype, "asyncValidator", {
    /**
     * Async validator function composed of all the async validators registered with this
     * directive.
     */
    get: function () {
        return composeAsyncValidators(this._rawAsyncValidators);
    },
    enumerable: true,
    configurable: true
});

FormControlName.prototype._checkParentType = function () {
    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();
    }
    this.control = this.formDirective.addControl(this);
    if (this.control.disabled &&
        this.valueAccessor.setDisabledState)
        this.valueAccessor.setDisabledState(true);
    this._added = true;
};

FormControlName.prototype._setUpControl = function () {
    this._checkParentType();
    this.control = this.formDirective.addControl(this);
    if (this.control.disabled &&
        this.valueAccessor.setDisabledState)
        this.valueAccessor.setDisabledState(true);
    this._added = true;
};
kbox][required][ngModel] providers: [CHECKBOX_REQUIRED_VALIDATOR],
host: {
'attr.required': 'required ? "" : null' },{ }, CheckboxRequiredValidator);}
return CheckboxRequiredValidator;}, (RequiredValidator));

/**
 * A directive that adds the 'email' validator to controls marked with the
 * 'email' attribute. The directive is provided with the 'NG_VALIDATORS'
 * multi-provider list.
 */

exports = Object.assign({}, CheckboxRequiredValidator, EMAIL_VALIDATOR, MIN_LENGTH_VALIDATOR, {});
exports[EMAIL_VALIDATOR] = EMAIL_VALIDATOR;
exports[MIN_LENGTH_VALIDATOR] = MIN_LENGTH_VALIDATOR;

exports = exports;
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```typescript
Validators.minLength(typeof this.minlength === 'number' ? this.minlength : parseInt(this.minlength, 10));

MaxLengthValidator.prototype, 
    
MinLengthValidator = __decorate([
    core.Directive({
        selector: [
            '[minlength][formControlName], [minlength][formControl], [minlength][ngModel]',
        ]
    }, MinLengthValidator.prototype, 
    providers: [
        [MIN_LENGTH_VALIDATOR],
    ], 
    return MinLengthValidator;]
    )

MAX_LENGTH_VALIDATOR = {
    provide: NG_VALIDATORS,
    useExisting: 
    core.forwardRef(function () { return MaxLengthValidator; }),
    multi: true
}

var MaxLengthValidator = /** @class */ (function () {
    function MaxLengthValidator() {
    }

    /**
     * @description
     * Method that validates whether the value exceeds the maximum length requirement.
     * The following example shows how to add a maximum length validator to an input attached to an
     * directive.
     *
     * ```html
     * <input name="firstName" ngModel maxlength="25">
     * ```
     *
     * @ngModule ReactiveFormsModule
     * @ngModule FormsModule
     * @publicApi
     */
    MaxLengthValidator.prototype.ngOnChanges = function (changes) {
        if ('maxlength' in changes) {
            this._createValidator();
            if (this._onChange)
                this._onChange();
        }
    };

    /**
     * @description
     * Registers a callback function to call when the validator inputs change. For internal use
     * only.
     * The callback function on
     * @param fn The callback function
     * @param changes A object of key/value pairs for the set of changed inputs.
     */
    MaxLengthValidator.prototype.registerOnValidatorChange = function (fn) {
        this._onChange = fn;
    };

    MaxLengthValidator.prototype._createValidator = function () {
        this._validator = 
    };

    __decorate([
        core.Directive({
            selector: [
                '[maxlength][formControlName], [maxlength][formControl], [maxlength][ngModel]',
            ]
        }, MaxLengthValidator.prototype, 
        providers: [
            [MAX_LENGTH_VALIDATOR],
        ], 
        return MaxLengthValidator;]
    )

PATTERN_VALIDATOR = {
    provide: NG_VALIDATORS,
    useExisting: 
    core.forwardRef(function () { return PatternValidator; }),
    multi: true
}

var PatternValidator = /** @class */ (function () {
    function PatternValidator() {
    }

    /**
     * A lifecycle method called when the directive's inputs change. For internal use
     * only.
     * The following example shows how to add a pattern validator to an input attached to an
     * directive.
     *
     * ```html
     * <input name="firstName" ngModel pattern="[a-zA-Z \]*">
     * ```
     *
     * @ngModule ReactiveFormsModule
     * @ngModule FormsModule
     * @publicApi
     */
    PatternValidator.prototype.ngOnChanges = function (changes) {
        if ('pattern' in changes) {
            this._createValidator();
            if (this._onChange)
                this._onChange();
        }
    };
```
/**\n
* @description\n
* Method that validates whether the value matches the\n
* the pattern
requirement.\n
*/\n
PatternValidator.prototype.validate = function (control) { return
this._validator(control); };\n
/**\n
* @description\n
* Registers a callback function to call when the
validator inputs change.\n
*\n
* @param fn The callback function\n
*/\n
PatternValidator.prototype.registerOnValidatorChange = function (fn) { this._onChange = fn; };\n
PatternValidator.prototype._createValidator = function () { this._validator = Validators.pattern(this.pattern); };\n
__decorate([\n
core.Input(),\n
__metadata(\"design:type\", Object)\n
], PatternValidator.prototype,
\"pattern\", void 0);\n
PatternValidator = __decorate([\n
core.Directive({\n
selector:
'[pattern][formControlName],[pattern][formControl],[pattern][ngModel]',\n
providers:
[PATTERN_VALIDATOR],\n
host: { '[attr.pattern]': 'pattern ? pattern : null' }\n
})\n
],
PatternValidator);\n
return PatternValidator;\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 SHARED_FORM_DIRECTIVES = [\n
NgNoValidate,\n
NgSelectOption,\n
NgSelectMultipleOption,\n
DefaultValueAccessor,\n
NumberValueAccessor,\n
RangeValueAccessor,\n
CheckboxControlValueAccessor,\n
SelectControlValueAccessor,\n
SelectMultipleControlValueAccessor,\n
RadioControlValueAccessor,\n
NgControlStatus,\n
NgControlStatusGroup,\n
RequiredValidator,\n
MinLengthValidator,\n
MaxLengthValidator,\n
PatternValidator,\n
CheckboxRequiredValidator,\n
EmailValidator,\n ];\n
var TEMPLATE_DRIVEN_DIRECTIVES = [NgModel, NgModelGroup, NgForm];\n var
REACTIVE_DRIVEN_DIRECTIVES = [FormControlDirective, FormGroupDirective, FormControlName,
FormGroupName, FormArrayName];\n /**\n * Internal module used for sharing directives between
FormsModule and ReactiveFormsModule\n */\n var InternalFormsSharedModule = /** @class */ (function ()
{\n
function InternalFormsSharedModule() {\n
}\n
InternalFormsSharedModule = __decorate([\n
core.NgModule({\n
declarations: SHARED_FORM_DIRECTIVES,\n
exports:
SHARED_FORM_DIRECTIVES,\n
})\n
], InternalFormsSharedModule);\n
return
InternalFormsSharedModule;\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 function isAbstractControlOptions(options) {\n
return
options.asyncValidators !== undefined ||\n
options.validators !== undefined ||\n
options.updateOn !==
undefined;\n }\n /**\n * @description\n * Creates an `AbstractControl` from a user-specified
configuration.\n *\n * The `FormBuilder` provides syntactic sugar that shortens creating instances of a
`FormControl`,\n * `FormGroup`, or `FormArray`. It reduces the amount of boilerplate needed to build complex\n
* forms.\n *\n * @see [Reactive Forms Guide](/guide/reactive-forms)\n *\n * @publicApi\n */\n
var FormBuilder = /** @class */ (function () {\n
function FormBuilder() {\n
}\n
/**\n
*
@description\n
* Construct a new `FormGroup` instance.\n
*\n
* @param controlsConfig A
collection of child controls. The key for each child is the name\n
* under which it is registered.\n
*\n
* @param options Configuration options object for the `FormGroup`. The object can\n
* have two shapes:\n
*\n
* 1) `AbstractControlOptions` object (preferred), which consists of:\n
* * `validators`: A
synchronous validator function, or an array of validator functions\n
* * `asyncValidators`: A single async
validator or array of async validator functions\n
* * `updateOn`: The event upon which the control should be
updated (options: 'change' | 'blur' |\n
* submit')\n
*\n
* 2) Legacy configuration object, which consists
of:\n
* * `validator`: A synchronous validator function, or an array of validator functions\n
**
`asyncValidator`: A single async validator or array of async validator functions\n
*\n
*/\n
FormBuilder.prototype.group = function (controlsConfig, options) {\n
if (options === void 0) { options =
null; }\n
var controls = this._reduceControls(controlsConfig);\n
var validators = null;\n
var
asyncValidators = null;\n
var updateOn = undefined;\n
if (options != null) {\n
if
(isAbstractControlOptions(options)) {\n
// `options` are `AbstractControlOptions`\n
validators = options.validators != null ? options.validators : null;\n
asyncValidators =

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import by NgModules that import this module.

```typescript
* @see Forms Guide
* @publicApi
*/
```

- @module
  * Exports the required infrastructure and directives for reactive forms, making them available for template-driven forms, an array of
  * such functions, or an `AbstractControlOptions` object that contains
  
  * validation functions and a validation trigger.

```typescript
* @param controlsConfig An array of child controls or control configs. Each
  * child control is given an index when it is registered.

```typescript
* @param validatorOrOpts A synchronous validator function, or an array of
  * such functions, or an `AbstractControlOptions` object that contains
  
  * validation functions and a validation trigger.

```typescript
* @param asyncioValidatorOrOpts A single synchronous validator
  * or array of asynchronously validates.

```typescript
* <code-example path="forms/ts/formBuilder/form_builder_example.ts" region="disabled-control">

```typescript
as disabled

```typescript
array of async validator

```typescript
* function, or an array of
  * such functions, or an `AbstractControlOptions` object that contains
  
  * validation functions and a validation trigger.

```typescript
* @param asyncioValidatorOrOpts A single asynchronous validator
  * or array of asynchronously validates.

```typescript
* functions.

```typescript
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  * such functions, or an `AbstractControlOptions` object that contains
  
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```typescript
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```typescript
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  * such functions, or an `AbstractControlOptions` object that contains
  
  * validation functions and a validation trigger.

```typescript
* @param asyncioValidatorOrOpts A single asynchronous validator
  * or array of asynchronously validates.

```typescript
* functions.
```
/**
 * @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.
 */
ReactiveFormsModule.withConfig = function (opts) {
    return {
        ngModule: ReactiveFormsModule_1,
        providers: [
            
        ]
    };
};

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// This file only reexports content of the `src` folder. Keep it that way.
*/
exports.AbstractControl = AbstractControl;
exports.COMPOSITION_BUFFER_MODE = COMPOSITION_BUFFER_MODE;
exports.CheckboxControlValueAccessor = CheckboxControlValueAccessor;
exports.CheckboxRequiredValidator = CheckboxRequiredValidator;
exports.ControlContainer = ControlContainer;
exports.DefaultValueAccessor = DefaultValueAccessor;
exports.EmailValidator = EmailValidator;
exports.FormArray = FormArray;
exports.FormArrayName = FormArrayName;
exports.FormBuilder = FormBuilder;
exports.FormControl = FormControl;
exports.FormControlDirective = FormControlDirective;
exports.FormControlName = FormControlName;
exports.FormGroup = FormGroup;
exports.FormGroupDirective = FormGroupDirective;
exports.FormGroupName = FormGroupName;
exports.FormsModule = FormsModule;
exports.MaxLengthValidator = MaxLengthValidator;
exports.MinLengthValidator = MinLengthValidator;
exports.NG_ASYNC_VALIDATORS = NG_ASYNC_VALIDATORS;
exports.NG_VALIDATORS = NG_VALIDATORS;
exports.NG_VALUE_ACCESSOR = NG_VALUE_ACCESSOR;
exports.NgControl = NgControl;
exports.NgControlStatus = NgControlStatus;
exports.NgControlStatusGroup = NgControlStatusGroup;
exports.NumberValueAccessor = NumberValueAccessor;
exports.NgSelectOption = NgSelectOption;
exports.PatternValidator = PatternValidator;
exports.RangeValueAccessor = RangeValueAccessor;
exports.ReactiveFormsModule = ReactiveFormsModule;
exports.RequiredValidator = RequiredValidator;
exports.SelectControlValueAccessor = SelectControlValueAccessor;
exports.SelectMultipleControlValueAccessor = SelectMultipleControlValueAccessor;
exports.VERSION = VERSION;
exports.Validators = Validators;
exports.Validators = Validators;
exports.InternalFormsSharedModule = InternalFormsSharedModule;
exports.NgNoValidate = NgNoValidate;
exports.NgSelectMultipleOption = NgSelectMultipleOption;
exports.angular_packages_forms_forms_a = SHARED_FORM_DIRECTIVES;
exports.angular_packages_forms_forms_b = TEMPLATE_DRIVEN_DIRECTIVES;
exports.angular_packages_forms_forms_bb = EMAIL_VALIDATOR;
exports.angular_packages_forms_forms_bc = MIN_LENGTH_VALIDATOR;
```
/**
 * @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 {InjectionToken} from '@angular/core';

/**
 *
 * Defines an interface that acts as a bridge between the Angular forms API and a
 * native element in the DOM.
 * @description
 * Implement this interface to create a custom form control directive
 * that integrates with Angular forms.
 *
 * @see DefaultValueAccessor
 *
 * @publicApi
 */
export interface ControlValueAccessor {
  /**
   * 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.
   *
   * @param value
   * The new value for the element
   */
  writeValue(value: any): void;

  /**
   * Registers a callback function that is called when the control's value
   * changes in the UI.
   *
   * When implementing the `registerOnChange` method in your own value accessor,
   * save the given
   * function so your class calls it at the appropriate time.
   *
   * @param fn The callback function to register
   */
  registerOnChange(fn: any): void;

  /**
   * Registers a callback function is called by the forms API on initialization
   * to update the form model on blur.
   *
   * 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\".
   *
   * @param fn The callback function to register
   */
  registerOnTouched(fn: any): void;

  /**
   * 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.
   *
   * @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');
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* style license that can be
* found in the LICENSE file at https://angular.io/license
*/

import {Directive,
  ElementRef, Renderer2, forwardRef} from '@angular/core';

import {ControlValueAccessor,
  NG_VALUE_ACCESSOR} from './control_value_accessor';

export const CHECKBOX_VALUE_ACCESSOR:
any = {provide: NG_VALUE_ACCESSOR,
useExisting: forwardRef(() =>
CheckboxControlValueAccessor),
multi: true};

/**
 * @description
 * A `ControlValueAccessor` for
 * writing a value and listening to changes on a checkbox input element.
 * The following example shows how to use a checkbox with a reactive form.
 */

@Directive({
  selector:
    '[type=checkbox][formControl]',
  host: {'(change)': 'onChange($event.target.checked)', '(blur)': 'onTouched()'},
  providers: [CHECKBOX_VALUE_ACCESSOR]
})
export class CheckboxControlValueAccessor 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 = () => {};

  constructor(private _renderer: Renderer2, private _elementRef: ElementRef) {}

  /**
   * Sets the "checked" property on the input element.
   */
  writeValue(value: boolean): void {
    this._renderer.setProperty(this._elementRef.nativeElement, 'checked', value);
  }

  /**
   * @description
   * Registers a function called when the control value changes.
   */
  registerOnChange(fn: (_: any) => {}): void { this.onChange = fn; }

  /**
   * @description
   * 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);
  }
}

/**
 * @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.
 */

@Directive({
  selector:
    '[type=checkbox][formControl][textarea]',
  host: {'(change)': 'onChange($event.target.checked)', '(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 = () => {};

  constructor(private _renderer: Renderer2, private _elementRef: ElementRef) {}

  /**
   * Sets the "checked" property on the input element.
   */
  writeValue(value: boolean): void {
    this._renderer.setProperty(this._elementRef.nativeElement, 'checked', value);
  }

  /**
   * @description
   * Registers a function called when the control value changes.
   */
  registerOnChange(fn: (_: any) => {}): void { this.onChange = fn; }

  /**
   * @description
   * 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);
  }
}

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```
ologists: [DEFAULT_VALUE_ACCESSOR]}\n)\n
@Inject(COMPOSITION_BUFFER_MODE) private _compositionMode: boolean) {

  publicApi
  export abstract class AbstractControlDirective {
    
    get value(): any { return this.control ? this.control.value : null; }

    get valid(): boolean|null { return this.control ? this.control.valid : null; }

    get invalid(): boolean|null { return this.control ? this.control.invalid : null; }

    get pending(): boolean|null { return this.control ? this.control.pending : null; }

    get disabled(): boolean|null { return this.control ? this.control.disabled : null; }

    get enabled(): boolean|null { return this.control ? this.control.enabled : null; }

    get errors(): ValidationErrors|null { return this.control ? this.control.errors : null; }

    get pristine(): boolean { return this.control && this.control.pristine; }

    get touched(): boolean { return this.control && this.control.touched; }

    get dirty(): boolean { return this.control && this.control.dirty; }

    get enabled(): boolean { return this.control && this.control.enabled; }

    get disabled(): boolean { return this.control && this.control.disabled; }

    get errors(): ValidationErrors|null { return this.control ? this.control.errors : null; }

    get pristine(): boolean { return this.control && this.control.pristine; }

    get touched(): boolean { return this.control && this.control.touched; }

    get dirty(): boolean { return this.control && this.control.dirty; }

    get enabled(): boolean { return this.control && this.control.enabled; }

    get disabled(): boolean { return this.control && this.control.disabled; }

    get errors(): ValidationErrors|null { return this.control ? this.control.errors : null; }

    get pristine(): boolean { return this.control && this.control.pristine; }

    get touched(): boolean { return this.control && this.control.touched; }

    get dirty(): boolean { return this.control && this.control.dirty; }

    get enabled(): boolean { return this.control && this.control.enabled; }

    get disabled(): boolean { return this.control && this.control.disabled; }

    get errors(): ValidationErrors|null { return this.control ? this.control.errors : null; }

    get pristine(): boolean { return this.control && this.control.pristine; }

    get touched(): boolean { return this.control && this.control.touched; }

    get dirty(): boolean { return this.control && this.control.dirty; }

    get enabled(): boolean { return this.control && this.control.enabled; }

    get disabled(): boolean { return this.control && this.control.disabled; }

    get errors(): ValidationErrors|null { return this.control ? this.control.errors : null; }

    get pristine(): boolean { return this.control && this.control.pristine; }

    get touched(): boolean { return this.control && this.control.touched; }

    get dirty(): boolean { return this.control && this.control.dirty; }

    get enabled(): boolean { return this.control && this.control.enabled; }

    get disabled(): boolean { return this.control && this.control.disabled; }

    get errors(): ValidationErrors|null { return this.control ? this.control.errors : null; }

    get pristine(): boolean { return this.control && this.control.pristine; }

    get touched(): boolean { return this.control && this.control.touched; }

    get dirty(): boolean { return this.control && this.control.dirty; }

    get enabled(): boolean { return this.control && this.control.enabled; }

    get disabled(): boolean { return this.control && this.control.disabled; }

    get errors(): ValidationErrors|null { return this.control ? this.control.errors : null; }

    get pristine(): boolean { return this.control && this.control.pristine; }

    get touched(): boolean { return this.control && this.control.touched; }

    get dirty(): boolean { return this.control && this.control.dirty; }

    get enabled(): boolean { return this.control && this.control.enabled; }

    get disabled(): boolean { return this.control && this.control.disabled; }

    get errors(): ValidationErrors|null { return this.control ? this.control.errors : null; }

    get pristine(): boolean { return this.control && this.control.pristine; }

    get touched(): boolean { return this.control && this.control.touched; }

    get dirty(): boolean { return this.control && this.control.dirty; }

    get enabled(): boolean { return this.control && this.control.enabled; }

    get disabled(): boolean { return this.control && this.control.disabled; }

    get errors(): ValidationErrors|null { return this.control ? this.control.errors : null; }

    get pristine(): boolean { return this.control && this.control.pristine; }

    get touched(): boolean { return this.control && this.control.touched; }

    get dirty(): boolean { return this.control && this.control.dirty; }

    get enabled(): boolean { return this.control && this.control.enabled; }

    get disabled(): boolean { return this.control && this.control.disabled; }

    get errors(): ValidationErrors|null { return this.control ? this.control.errors : null; }

    get pristine(): boolean { return this.control && this.control.pristine; }

    get touched(): boolean { return this.control && this.control.touched; }

    get dirty(): boolean { return this.control && this.control.dirty; }

    get enabled(): boolean { return this.control && this.control.enabled; }

    get disabled(): boolean { return this.control && this.control.disabled; }

    get errors(): ValidationErrors|null { return this.control ? this.control.errors : null; }

    get pristine(): boolean { return this.control && this.control.pristine; }

    get touched(): boolean { return this.control && this.control.touched; }

    get dirty(): boolean { return this.control && this.control.dirty; }

    get enabled(): boolean { return this.control && this.control.enabled; }

    get disabled(): boolean { return this.control && this.control.disabled; }

    get errors(): ValidationErrors|null { return this.control ? this.control.errors : null; }

    get pristine(): boolean { return this.control && this.control.pristine; }

    get touched(): boolean { return this.control && this.control.touched; }

    get dirty(): boolean { return this.control && this.control.dirty; }

    get enabled(): boolean { return this.control && this.control.enabled; }

    get disabled(): boolean { return this.control && this.control.disabled; }

    get errors(): ValidationErrors|null { return this.control ? this.control.errors : null; }

    get pristine(): boolean { return this.control && this.control.pristine; }

    get touched(): boolean { return this.control && this.control.touched; }

    get dirty(): boolean { return this.control && this.control.dirty; }

    get enabled(): boolean { return this.control && this.control.enabled; }

    get disabled(): boolean { return this.control && this.control.disabled; }

    get errors(): ValidationErrors|null { return this.control ? this.control.errors : null; }

    get pristine(): boolean { return this.control && this.control.pristine; }

    get touched(): boolean { return this.control && this.control.touched; }

    get dirty(): boolean { return this.control && this.control.dirty; }

    get enabled(): boolean { return this.control && this.control.enabled; }

    get disabled(): boolean { return this.control && this.control.disabled; }

    get errors(): ValidationErrors|null { return this.control ? this.control.errors : null; }

    get pristine(): boolean { return this.control && this.control.pristine; }

    get touched(): boolean { return this.control && this.control.touched; }

    get dirty(): boolean { return this.control && this.controldirty; }
in the UI. If the control is not present, null is returned.

```typescript
  @description
   * The name for the control.
   */
  name !: string | number |

  /**
   * Returns a multicasting observable that emits a validation status whenever it is
   * calculated for the control.
   */
  get status(): string|null {
    return this.control ? this.control.status : null; }

  /**
   * Reports the validation status of the control. Possible values include:
   * 'VALID', 'INVALID', 'DISABLED', and 'PENDING'.
   */
  get statusChanges(): Observable<any>|null {
    return this.control ? this.control.statusChanges : null; }

  /**
   * 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[]|null { return null; }

  /**
   * Reports whether the control is dirty, meaning that the user has changed the value in
   * the UI.
   */
  get dirty(): boolean

  /**
   * 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.
   */
  get untouched(): boolean

  /**
   * Reports whether the control is touched, meaning that the user has triggered
   * a 'blur' event on it. If the control is not present, null is returned.
   */
  get touched(): boolean

  /**
   * 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.
   */
  get dirty(): boolean

  /**
   * 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.
   */
  get untouched(): boolean

  /**
   * Reports whether the control is touched, meaning that the user has triggered
   * a 'blur' event on it. If the control is not present, null is returned.
   */
  get touched(): boolean

  /**
   * 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.
   */
  get dirty(): boolean

  /**
   * 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.
   */
  get untouched(): boolean

  /**
   * Reports whether the control is touched, meaning that the user has triggered
   * a 'blur' event on it. If the control is not present, null is returned.
   */
  get touched(): boolean
Form|null { return null; }\n\n/**\n * @description\n * The path to this group\n */\nget path(): string|null { return null; }\n
/**\n * @description\n * object to a DOM element\n */\nget path(): string|null { return null; }

/**\n * @description\n * The path to this group.
 */
get path(): string|null {
return null; }

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

import {AbstractControlDirective} from './abstract_control_directive';
import {ControlContainer} from './control_container';
import {ControlValueAccessor} from './control_value_accessor';
import {AsyncValidator, AsyncValidatorFn, Validator, ValidatorFn} from './validators';

function unimplemented(): any {
  throw new Error('unimplemented');
}

/**
 * @description
 * A base class that all control `FormControl`-based directives
 * extend. It binds a `FormControl` object to a DOM element.
 */
export abstract class NgControl extends AbstractControlDirective {
  /**
   * @description
   * The parent form for the control.
   *
   * @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;
}

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

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
 * (valid/invalid/dirty/etc) based on control status.
 */
@Directive({
  selector: '[formControl], [ngModel], [formControl], host: ngControlStatusHost()\n}
export class NgControlStatusGroup extends AbstractControlStatus {
  constructor(@Self() cd: NgControl) {
    super(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
*/

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constructor(@Self() cd: ControlContainer) { super(cd); }

/**
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 * LICENSE file at https://angular.io/license
 */

import {InjectionToken, ɵisObservable as isObservable,
  ɵisPromise as isPromise} from '@angular/core';
import {Observable, forkJoin, from} from 'rxjs';
import {map}
from 'rxjs/operators';
import {AsyncValidatorFn, ValidationErrors, Validator, ValidatorFn} from
'@angular/core';
import {AbstractControl, FormControl} from './model';

function isEmptyInputValue(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).
 * - `tld` consists of one or more `labels` separated by periods (`.`).
 * - A `label` consists of one or more of the allowed characters (alphanumeric, dashes ( `- `) and
 *   periods (`.`)).
 * - The whole address cannot be longer than 254 characters.
 *
 * ## Implementation
 * Background
 *
 * This regexp was ported over from AngularJS (see there for git history):
 * https://github.com/angular/angular.js/blob/c133ef836/src/ng/directive/input.js#L27
 * It is based on the
 * [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 then
 * lengths 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` cannot begin or end with a period (`.`).
 * - Disallow total address length to exceed 254 characters.
 *
 * See [this commit](https://github.com/angular/angular.js/commit/f3f5cf72e) for more details.
 */
const EMAIL_REGEXP =

/**
 * @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 controls and returns an error map or null. A null map means that validation has
 * passed.
 *
 * @see 
 * [Form Validation](/guide/form-validation)
 * @publicApi
 */
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);
      // Controls with NaN values after parsing should be treated as not
having a\n
// minimum, per the HTML forms spec: https://www.w3.org/TR/html5/forms.html#attr-input-min\n
return !isNaN(value) && value < min ? {'min': {'min': min, 'actual': control.value}} : null;\n };\n }\n\n /**\n *
@description\n * Validator that requires the control's value to be less than or equal to the provided number.\n *
The validator exists only as a function and not as a directive.\n *\n * @usageNotes\n *\n * ### Validate against
a maximum of 15\n *\n * ```typescript\n * const control = new FormControl(16, Validators.max(15));\n *\n *
console.log(control.errors); // {max: {max: 15, actual: 16}}\n * ```\n *\n * @returns A validator function that
returns an error map with the\n * `max` property if the validation check fails, otherwise `null`.\n *\n * @see
`updateValueAndValidity()`\n *\n */\n static max(max: number): ValidatorFn {\n return (control:
AbstractControl): ValidationErrors | null => {\n
if (isEmptyInputValue(control.value) ||
isEmptyInputValue(max)) {\n
return null; // don't validate empty values to allow optional controls\n
}\n
const value = parseFloat(control.value);\n
// Controls with NaN values after parsing should be treated as not
having a\n
// maximum, per the HTML forms spec: https://www.w3.org/TR/html5/forms.html#attr-input-max\n
return !isNaN(value) && value > max ? {'max': {'max': max, 'actual': control.value}} : null;\n };\n }\n\n /**\n *
@description\n * Validator that requires the control have a non-empty value.\n *\n * @usageNotes\n *\n *
### Validate that the field is non-empty\n *\n * ```typescript\n * const control = new FormControl('',
Validators.required);\n *\n * console.log(control.errors); // {required: true}\n * ```\n *\n * @returns An error
map with the `required` property\n * if the validation check fails, otherwise `null`.\n *\n * @see
`updateValueAndValidity()`\n *\n */\n static required(control: AbstractControl): ValidationErrors|null {\n
return isEmptyInputValue(control.value) ? {'required': true} : null;\n }\n\n /**\n * @description\n * Validator
that requires the control's value be true. This validator is commonly\n * used for required checkboxes.\n *\n *
@usageNotes\n *\n * ### Validate that the field value is true\n *\n * ```typescript\n * const control = new
FormControl('', Validators.requiredTrue);\n *\n * console.log(control.errors); // {required: true}\n * ```\n *\n *
@returns An error map that contains the `required` property\n * set to `true` if the validation check fails, otherwise
`null`.\n *\n * @see `updateValueAndValidity()`\n *\n */\n static requiredTrue(control: AbstractControl):
ValidationErrors|null {\n return control.value === true ? null : {'required': true};\n }\n\n /**\n * @description\n
* Validator that requires the control's value pass an email validation test.\n *\n * Tests the value using a [regular
suitable for common usecases. The pattern is based on the definition of a valid email\n * address in the
[WHATWG HTML specification](https://html.spec.whatwg.org/multipage/input.html#valid-e-mail-address)\n *
with some enhancements to incorporate more RFC rules (such as rules related to domain names and\n * the lengths
of different parts of the address).\n *\n * The differences from the WHATWG version include:\n * - Disallow
`local-part` (the part before the `@` symbol) to begin or end with a period (`.`).\n * - Disallow `local-part` to be
longer than 64 characters.\n * - Disallow the whole address to be longer than 254 characters.\n *\n * If this
pattern does not satisfy your business needs, you can use `Validators.pattern()` to\n * validate the value against a
different pattern.\n *\n * @usageNotes\n *\n * ### Validate that the field matches a valid email pattern\n *\n
* ```typescript\n * const control = new FormControl('bad@', Validators.email);\n *\n *
console.log(control.errors); // {email: true}\n * ```\n *\n * @returns An error map with the `email` property\n *
if the validation check fails, otherwise `null`.\n *\n * @see `updateValueAndValidity()`\n *\n */\n static
email(control: AbstractControl): ValidationErrors|null {\n if (isEmptyInputValue(control.value)) {\n
return
null; // don't validate empty values to allow optional controls\n }\n return EMAIL_REGEXP.test(control.value)
? null : {'email': true};\n }\n\n /**\n * @description\n * Validator that requires the length of the control's value
to be greater than or equal\n * to the provided minimum length. This validator is also provided by default if you
use the\n * the HTML5 `minlength` attribute.\n *\n * @usageNotes\n *\n * ### Validate that the field has a
minimum of 3 characters\n *\n * ```typescript\n * const control = new FormControl('ng',
Validators.minLength(3));\n *\n * console.log(control.errors); // {minlength: {requiredLength: 3, actualLength:
2}}\n * ```\n *\n * ```html\n * <input minlength=\"5\">\n * ```\n *\n * @returns A validator function that
returns an error map with the\n * `minlength` if the validation check fails, otherwise `null`.\n *\n * @see
`updateValueAndValidity()`\n *\n */\n static minLength(minLength: number): ValidatorFn {\n return (control:

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```javascript
return function(control: AbstractControl) {
  return _mergeErrors(_executeValidators(control, presentValidators));
}
```
import {Directive, ElementRef, Injectable, Injector, Input, OnDestroy, OnInit, Renderer2, forwardRef} from '@angular/core';

import {ControlValueAccessor, NG_VALUE_ACCESSOR} from './control_value_accessor';

export const RADIO_VALUE_ACCESSOR: any = {
  provide: NG_VALUE_ACCESSOR,
  useExisting: forwardRef(() => RadioControlValueAccessor),
  multi: true
};

/**
 * @description
 * Class used by Angular to track radio buttons. For internal use only.
 */
@Injectable()
export class RadioControlRegistry {
  private _accessors: any[] = [];

  /**
   * @description
   * Adds a control to the internal registry. For internal use only.
   */
  add(control: NgControl, accessor: RadioControlValueAccessor) {
    this._accessors.push([control, 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) {
    this._accessors.forEach((c) => {
      if (this._isSameGroup(c, accessor) && c[1] !== accessor) {
        c[1].fireUncheck(accessor.value);
      }
    });
  }

  private _isSameGroup(controlPair: [NgControl, RadioControlValueAccessor], accessor: RadioControlValueAccessor): boolean {
    if (!controlPair[0].control) return false;
    return controlPair[0]._parent === accessor._control._parent && controlPair[1].name === accessor.name;
  }
}

/**
 * @description
 * The `ControlValueAccessor` for writing radio control values and listening to radio control
 * changes. The value accessor is used by the `FormControlDirective`, `FormControlName`, and
 * `NgModel` directives.
 * @usageNotes
 * ### Using radio buttons with reactive form directives
 * The follow 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`.
 * Providing a `name` attribute is optional.
 */
@Directive({
  selector: 'input[type=radio][formControlName],input[type=radio][ngModel]',
  host: {'(change)': 'onChange()', '(blur)': 'onTouched()'},
  providers: [RADIO_VALUE_ACCESSOR]
})
export class RadioControlValueAccessor implements ControlValueAccessor, OnDestroy, OnInit {
  /** @internal */
  // TODO(issue/24571): remove '!'.
  _state !: boolean;
  /** @internal */
  // TODO(issue/24571): remove '!'.
  _control !: NgControl;
  /** @internal */
  // TODO(issue/24571): remove '!'.
  _fn !: Function;

  /**
   * The registered callback function called when a change event occurs on the input element.
   */
  onChange = () => {};

  /**
   * The registered callback function called when a blur event occurs on the input element.
   */
  onTouched = () => {};

  /**
   * Tracks the name of the radio input element.
   */
  // TODO(issue/24571): remove '!'.
  @Input() name !: string;

  /**
   * Tracks the name of the `FormControl` bound to the directive. The name corresponds to a
   * key in the parent `FormGroup` or `FormArray`.
   */
  // TODO(issue/24571): remove '!'.
  @Input()
  formControlName !: string;

  /**
   * Tracks the value of the radio input element.
   */
  @Input(value: any)
  constructor() {
    // Render the directive
    this._renderer = Renderer2; this._elementRef = ElementRef; this._registry = RadioControlRegistry; this._injector = Injector
  }

  /**
   * Lifecycle method called when the directive is initialized. For internal use only.
   */
  ngOnInit(): void {
    this._control = this._injector.get(NgControl);
    this._checkName();
    this._registry.add(this._control, this);
    this._fn = null;
    this._fn = null;
  }

  /**
   * Lifecycle method called before the directive's instance is destroyed. For internal use only.
   */
  ngOnDestroy(): void {
    this._control = null;
    this._fn = null;
  }

  /**
   * Sets the checked property value on the radio input element.
   */
  writeValue(value: any) {
    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 of the radio input element.
   */
  registerOnTouched(fn: (_: any) => {}): void {
    this._fn = fn;
    this._onBlur = () => {
      fn(this.value);
    };
    this._registry.select(this);
  }
}

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on the radio input element and unchecks it.

```typescript
  private _checkName(): void {
    if (this.name && this.formControlName && this.name !== this.formControlName) {
      this._throwNameError();
    }
    if (!this.name && this.formControlName) this.name = this.formControlName;
  }
```

```typescript
  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">
    `);
  }
```

```typescript
}
```
Customizing option selection

`compareWith` takes a **function** which has two arguments: `option1` and `option2`. If `compareWith` is given, Angular selects option by the return value of the function.

```ts
const selectedCountriesControl = new FormControl();
```

```ts
select 
    (change): onChange(Sevent.target.value), (blur): onTouched();
```

```ts
constructor(private _renderer: Renderer2, private _elementRef: ElementRef) {}
```
* @description
 * 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.writeValue(value);
}

/**
 * @description
 * Tracks simple string values bound to
 * the option element.
 */
@Input('value')
set value(value: any) {
  this._setElementValue(value);
  if (this._select) 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);
  }
}

@Directive({
  selector: 'select[multiple][formControlName], select[multiple][formControl]
            , select[multiple][ngModel]',
  host: '(change): onChange($event.target)',
  providers: [SELECT_MULTIPLE_VALUE_ACCESSOR]
})
export class SelectMultipleControlValueAccessor implements ControlValueAccessor {
  value: any;

  _optionMap: Map<string, ɵNgSelectMultipleOption> = new Map<string, ɵNgSelectMultipleOption>();
  _idCounter: number = 0;

  onChange = (_: any) => {};
  onTouched = () => {};

  @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) {}

```ts
const countryControl = new FormControl();
```

```
<select multiple name="countries" [formControl]="countryControl">
  <option *ngFor="let country of countries" [ngValue]="country">
    {{ country.name }}
  </option>
</select>
```
```typescript
the `\"value\"` property on one or more of the select's options.\n *param value\n *param value\n writeValue(value: any): void \n this.value = value;\n let optionSelectedStateSetter: (opt: \n ɵNgSelectMultipleOption, 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) => {\n opt._setSelected(ids.indexOf(o.toString()) > -1); \n } \n else \n optionSelectedStateSetter = (opt, o) => {\n opt._setSelected(false); \n }\n this._optionMap.forEach(optionSelectedStateSetter);\n }\n /**\n * Registers a function called when the control value changes\n * and writes an array of the selected options.\n *param fn\nThe callback function\n *param fn\n registerOnChange(fn: (value: any) => any): void \n this.onChange = (_: any) => {\n const selected: Array<any> = [];\n if (\n this._optionMap.set(id, value);\n this._getOptionValue(valueString): any {\n const id: string = _extractId(valueString);
 return this._optionMap.has(id) ? this._optionMap.get(id) !._value : valueString;\n }\n this._setElementValue(_buildValueString(this.id, value));\n this._select.writeValue(this._select.value);
 }\n ngOnDestroy(): void {\n if (this._select) {\n this._optionMap.delete(this.id);
 this._select.writeValue(this._select.value);\n }\n }\n```
import {FormArray, FormControl, FormGroup} from './model';
import {Validators} from './validators';
import {AbstractControlDirective} from './abstract_control_directive';
import {CheckboxControlValueAccessor} from './checkbox_value_accessor';
import {ControlValueAccessor} from './control_value_accessor';
import {DefaultValueAccessor} from './default_value_accessor';
import {NgControl} from './ng_control';
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';

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]);
  dir.valueAccessor!.writeValue(control.value);

  setUpViewChangePipeline(control, dir);
  setUpModelChangePipeline(control, dir);

  setUpBlurPipeline(control, dir);

  if (dir.valueAccessor!.setDisabledState) {
    control.registerOnDisabledChange((isDisabled: boolean) => {
      dir.valueAccessor!.setDisabledState(!isDisabled);
    });
  }

  // re-run validation when validator binding changes, e.g. minlength=3 -> minlength=4
  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) => {
    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;
  });
}

function updateControl(control: FormControl, dir: NgControl): void {
  if (control._pendingDirty) control.markAsDirty();
  control.setValue(control._pendingValue, {emitModelToViewChange: false});
}

function setUpModelChangePipeline(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 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]);
}
_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 && dir.path.length > 1) {
    messageEnd = `$dir.path.join(' -> ')`;
  } else if (dir.path) {
    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 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,
  RangeControlValueAccessor,
  RadioControlValueAccessor,
  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
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;
  }
}

/**
 * @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 {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 `markAsPending`
 */
@see `status`

```typescript
export const PENDING = 'PENDING';

/**
 * Reports that a FormControl is disabled,
 * meaning that the control is exempt from ancestor
 * calculations of validity or value.
 */
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;
}
```

```typescript
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;
}
```

```typescript
export type FormHooks = 'change' | 'blur' | 'submit';

/**
 * Interface for options provided to an AbstractControl.
 */
export interface AbstractControlOptions {
  /**
   * The list of validators applied to a control.
   */
  validators?: ValidatorFn|ValidatorFn[]|null;
  /**
   * The list of async validators applied to control.
   */
  asyncValidators?: AsyncValidatorFn|AsyncValidatorFn[]|null;
  /**
   * The event name for control to update upon.
   */
  updateOn?: 'change'|'blur'|'submit';
}
```

```typescript
function isOptionsObj(
    validatorOrOpts?: ValidatorFn |
        ValidatorFn[] | AbstractControlOptions | null): boolean {
  return validatorOrOpts != null &&
      !Array.isArray(validatorOrOpts) &&
      typeof validatorOrOpts === 'object';
}
```

```typescript
/**
 * This is the base class for FormControl, FormGroup, and FormArray.
 */
export abstract class AbstractControl {
  /**
   * The current value of the control.
   */
  public readonly value: any;

  constructor(public validator: ValidatorFn|null, public asyncValidator: AsyncValidatorFn|null) {}
```

```typescript
function _onCollectionChange = () => {};
```

```typescript
abstractControl[ln /* @internal */ @internal /* @internal */ @TODO(issue/24571): remove `!`.ln _pendingDirty !: boolean;ln /* @internal */ @TODO(issue/24571): remove `!`.ln _pendingTouched !: boolean;ln /* @internal */ @TODO(issue/24571): remove `!`.ln _updateOn !: FormHooks;ln /* @internal */ @TODO(issue/24571): remove `!`.ln private _parent !: FormGroup | FormArray;ln private _asyncValidationSubscription: any;ln /* @internal */ @TODO(issue/24571): remove `!`.ln get parent(): FormGroup | FormArray { return this._parent; }ln /* @param */ @param validator The function that determines the synchronous validity of this control.
```

```typescript
@constructor(public validator: ValidatorFn|null, public asyncValidator: AsyncValidatorFn|null) |
```
passed all validation checks.

This control has failed at least one validation check. This control is in the midst of conducting a validation check. These status values are mutually exclusive, so a control cannot be both valid AND invalid or invalid AND disabled. 

A control is `valid` when its `status` is `VALID`. A control is `invalid` when its `status` is `INVALID`. A control is `pending` when its `status` is `PENDING`. A control is `enabled` as long as its `status` is not `DISABLED`. A control is `pristine` if the user has not yet changed the value in the UI. A control is `dirty` if the user has changed the value since the last time the control was touched. A control is `touched` once the user has triggered a `blur` event on it. A control is `untouched` if the user has not yet triggered a `blur` event on it. A control is `enabled` if the status of the control is `ENABLED`. A control is `disabled` when its `status` is `DISABLED`. A control is `pending` when its `status` is `PENDING`. A control is `enabled` as long as its `status` is not `DISABLED`. A control is `pristine` if the user has not yet changed the value in the UI.

Programmatic changes to a control's value do not mark it dirty. A control is `pristine` if the user has not yet changed the value in the UI. A control is `dirty` if the user has changed the value since the last time the control was touched. A control is `touched` once the user has triggered a `blur` event on it. A control is `untouched` if the user has not yet triggered a `blur` event on it. A control is `enabled` if the status of the control is `ENABLED`. A control is `disabled` when its `status` is `DISABLED`. A control is `pending` when its `status` is `PENDING`. A control is `enabled` as long as its `status` is not `DISABLED`. A control is `pristine` if the user has not yet changed the value in the UI. A control is `dirty` if the user has changed the value since the last time the control was touched. A control is `touched` once the user has triggered a `blur` event on it. A control is `untouched` if the user has not yet triggered a `blur` event on it. A control is `enabled` if the status of the control is `ENABLED`. A control is `disabled` when its `status` is `DISABLED`. A control is `pending` when its `status` is `PENDING`. A control is `enabled` as long as its `status` is not `DISABLED`. A control is `pristine` if the user has not yet changed the value in the UI. A control is `dirty` if the user has changed the value since the last time the control was touched. A control is `touched` once the user has triggered a `blur` event on it. A control is `untouched` if the user has not yet triggered a `blur` event on it. A control is `enabled` if the status of the control is `ENABLED`. A control is `disabled` when its `status` is `DISABLED`. A control is `pending` when its `status` is `PENDING`. A control is `enabled` as long as its `status` is not `DISABLED`. A control is `pristine` if the user has not yet changed the value in the UI. A control is `dirty` if the user has changed the value since the last time the control was touched. A control is `touched` once the user has triggered a `blur` event on it. A control is `untouched` if the user has not yet triggered a `blur` event on it. A control is `enabled` if the status of the control is `ENABLED`. A control is `disabled` when its `status` is `DISABLED`. A control is `pending` when its `status` is `PENDING`. A control is `enabled` as long as its `status` is not `DISABLED`. A control is `pristine` if the user has not yet changed the value in the UI. A control is `dirty` if the user has changed the value since the last time the control was touched. A control is `touched` once the user has triggered a `blur` event on it. A control is `untouched` if the user has not yet triggered a `blur` event on it.
list.

* When you add or remove a validator at run time, you must call `updateValueAndValidity()` for
the new validation to take effect.

* `clearAsyncValidators()` : void (this.asyncValidator = null; )

** Marks the control as `touched`. A control is touched by focus and blur events that do not change the
value.

* `markAsUntouched()` : @see `markAsDirty()` * @see `markAsPristine()` 

* param options 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.

* `markAsTouched(opts: {onlySelf?: boolean} = {}) : void {

  (this as {touched: boolean}).touched = true;
}

* If the control has any children, also marks all children as `untouched`
* and recalculate the `touched` status of all parent controls.

* `markAsDirty(opts: {onlySelf?: boolean} = {}) : void {

  (this as {pristine: boolean}).pristine = false;
}

* `markAsPristine(opts: {onlySelf?: boolean} = {}) : void {

  (this as {pristine: boolean}).pristine = true;
}

* `markAsPending(opts: {onlySelf?: boolean, emitEvent?: boolean} = {} : void {

  (this as {pending: boolean}).pending = true;
}

* `disable()` : void (this as {enabled: boolean}).enabled = false; 

* `enable()` : void (this as {enabled: boolean}).enabled = true; 

* `markAsEnabled(opts: {onlySelf?: boolean} = {}) : void {

  (this as {enabled: boolean}).enabled = true;
}

* `markAsDisabled(opts: {onlySelf?: boolean} = {}) : void {

  (this as {enabled: boolean}).enabled = false;
}

* `clearAsyncValidators()` : void (this.asyncValidator = null; )

* `markAsTouched()` : @see `markAsDirty()` * @see `markAsPristine()` 

* @param options 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()` : @see `markAsDirty()` * @see `markAsPristine()` 

* @param options 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.

* `markAsDirty()` : @see `markAsPristine()` 

* @param options 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.

* `markAsPristine()` : @param options 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()` : @param options 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()` : @param options Configuration options that determine how the control propagates changes and emits events after
marking is applied.

* `enable()` : @param options Configuration options that determine how the control propagates changes and emits events after
marking is applied.

* `markAsEnabled()` : @param options Configuration options that determine how the control propagates changes and emits events after
marking is applied.

* `markAsDisabled()` : @param options Configuration options that determine how the control propagates changes and emits events after
marking is applied.
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 disabled. * When false, no events are emitted.
* `disable(optimizer: {onlySelf?: boolean, emitEvent?: boolean} = {}): void {` If parent has been marked artificially dirty we don't want to re-calculate the
parent's dirtiness based on the children. * const skipPristineCheck = this._parentMarkedDirty(optimizes(self), 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 disabled. * When false, no events are emitted.
* `enable(optimizer: {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. * `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.
* `disable(optimizer: {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. * `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(optimizer: {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. * `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.
* `disable(optimizer: {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. * `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(optimizer: {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. * `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.
* `disable(optimizer: {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. * `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(optimizer: {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. * `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.
* `disable(optimizer: {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. * `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.
* `disable(optimizer: {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. * `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.
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```javascript
private _runValidator(): ValidationErrors|null {
  return this.validator ? this.validator(this) : null;
}

private _runAsyncValidator(emitEvent?: boolean): void {
  if (this.asyncValidator)
  return this._runAsyncValidator(emitEvent);
}

private _cancelExistingSubscription(): void {
  if (this._asyncValidationSubscription)
  this._asyncValidationSubscription.unsubscribe();
}

/**
 * Sets errors on a form control when running validations manually, rather than automatically.
 * Calling `setErrors` also updates the validity of the parent control.

 * @param value The value to set on the control
 * @param errors An object containing the error data

 * @usageNotes
 * Example:
 * ```
 *     const value = 'someValue';
 *     control.setErrors({
 *         notUnique: true
 *     });
 * ```
 * @returns The control
 */
setErrors(errors: ValidationErrors|null, opts: {emitEvent?: boolean} = {}): void {
  (this as{errors: ValidationErrors | null}).errors = errors;
  this._updateControlsErrors(opts.emitEvent !== false);
}

/**
 * Retrieves a child control given the control's name or path.
 *
 * @param path A dot-delimited string or array of string/number values that define the path to the control
 * @param options An object containing options for retrieving the child control

 * @usageNotes
 * Example:
 * ```
 *     const login = new FormControl('someLogin');
 *     login.setErrors({
 *         notUnique: true
 *     });
 * ```
 * @returns The child control
 */
get(path: Array<string|number>|string):AbstractControl|null {
  return _find(this, path, '.');
}

/**
 * retrieve error data for the control with the given path.
 * @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.

 * @usageNotes
 * Example:
 * ```
 *     const error = this.getError('notUnique', ['address', 'street']);
 * ```
 * @returns The error data
 */
getError(errorCode: string, path?: Array<string|number>|string): any {
  const control = path ? this.get(path) : this;
  return control && control.errors ? control.errors[errorCode] : null;
}

/**
 * Checks whether the control with the given path has the error specified.
 * @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.

 * @usageNotes
 * Example:
 * ```
 *     const hasError = this.hasError('notUnique', ['address', 'street']);
 * ```
 * @returns Whether the given error is present in the control at the given path.
 */
hasError(errorCode: string, path?: Array<string|number>|string): boolean {
  return !!this.getError(errorCode, path);
}

/**
 * Retrieves the top-level ancestor of this control.
 */
get root(): AbstractControl {
  let x: AbstractControl = this;

  while (x._parent) {
    x = x._parent;
  }

  return x;
}

/** @internal */
_initObservables() {
  (this as{valueChanges: Observable<any>}).valueChanges = new EventEmitter();
  (this as{statusChanges: Observable<any>}).statusChanges = new EventEmitter();
}
```

return INVALID;

return VALID;

/** @internal */
abstract _updateValue(): void;

/** @internal */
abstract _updateTouched(): boolean;

/** @internal */
abstract _forEachChild(cb: Function): void;

/** @internal */
abstract _anyControls(condition: Function): boolean;

/** @internal */
abstract _allControlsDisabled(): boolean;

/** @internal */
abstract _syncPendingControls(): boolean;

/** @internal */
abstract _anyControlsHaveStatus(status: string): boolean;

/** @internal */
abstract _allControlsDisabled(): boolean;

/** @internal */
abstract _onDisabledChange: Function[] = [];

/** @internal */
abstract _isBoxedValue(formState: any): boolean;

/** @internal */
abstract _registerOnCollectionChange(fn: () => void): void;

/** @internal */
abstract _setUpdateStrategy(opts?: ValidatorFn|ValidatorFn[]|AbstractControlOptions|null): void;

/**
 * Tracks the value and validation status of an individual form control.
 *
 * This is one of the three fundamental building blocks of Angular forms, along with `FormGroup` and `FormArray`. It extends the
 * `AbstractControl` class that implements most of the base functionality for accessing the value, validation status, user
 * interactions and events.
 *
 * @publicApi
 */
export class FormControl extends AbstractControl {
  /** @internal */
  _onChange: Function[] = [];

  /**
  * Creates a new

Open Source Used In MSX Platform Services 3.9.0  2919

```javascript
(this._pendingChange) {
  return true;
}

return false;
private _applyFormState(formState: any) {
  if (this._isBoxedValue(formState)) {
    (this as {value: any}).value = this._pendingValue = formState.value;
  } else {
    (this as {value: any}).value = this._pendingValue = formState;
  }
}

return false;
}

private _applyFormState(formState: any) {
  if (this._isBoxedValue(formState)) {
    (this as {value: any}).value = this._pendingValue = formState.value;
    formState.disabled ? this.disable({onlySelf: true, emitEvent: false}) : this.enable({onlySelf: true, emitEvent: false});
  } else {
    (this as {value: any}).value = this._pendingValue = formState;
  }
}

/**
 * Tracks the value and validity state of a group of `FormControl` instances.
 * A `FormGroup` aggregates the values of each child `FormControl` into one object, with each control name as the key. It calculates its status by reducing the status values of its children. For example, if one of the controls in a group is invalid, the entire group becomes invalid. 
 * `FormGroup` is one of the three fundamental building blocks 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.
 * You include group-level validators as the second argument, or group-level async validators as validators as the third argument. These come in handy when you want to perform validation that considers the value of more than one child control.
 * `FormGroup` extends AbstractControl with a method to update the value and validity of a group of controls, the `updateValueAndValidity` method.
 * `FormGroup` also has a method to add a control to the group, the `addControl` method.
 */

export class FormGroup extends AbstractControl {
  constructor(
      public controls: { [key: string]: AbstractControl },
      validatorOrOpts?: ValidatorFn|ValidatorFn[]|AbstractControlOptions|null,
      asyncValidator?: AsyncValidatorFn|AsyncValidatorFn[]|null) {
    super(coerceToValidator(validatorOrOpts),
          coerceToAsyncValidator(asyncValidator, validatorOrOpts));
    this._initObservables();
    this._setUpControls();
    this.updateValueAndValidity({onlySelf: true, emitModelToViewChange: false});
  }

  private registerControl(name: string, control: AbstractControl) {
    if (this.controls[name]) return this.controls[name];
    this.controls[name] = control;
    control.setParent(this);
    control._registerOnCollectionChange(this._onCollectionChange);
    return true;
  }

  private addControl(name: string, control: AbstractControl) {
    return this.registerControl(name, control);
  }

  /**
   * 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
   * @param registerControl(name: string, control: AbstractControl): AbstractControl
   * @param return this.controls[name];
   * @param control.setParent(this);
   * @param this._registerOnCollectionChange(this._onCollectionChange);
   * @param return control;
   */

  this._onCollectionChange();
}

/**
 * A `FormGroup` aggregates the values of each child `FormControl` into one object, with each control name as the key. It calculates its status by reducing the status values of its children. For example, if one of the controls in a group is invalid, the entire group becomes invalid. 
 * `FormGroup` is one of the three fundamental building blocks 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.
 * You include group-level validators as the second argument, or group-level async validators as validators as the third argument. These come in handy when you want to perform validation that considers the value of more than one child control.
 * `FormGroup` extends AbstractControl with a method to update the value and validity of a group of controls, the `updateValueAndValidity` method.
 * `FormGroup` also has a method to add a control to the group, the `addControl` method.
 */

export class FormGroup {
  constructor(
      public controls: { [key: string]: AbstractControl },
      validatorOrOpts?: ValidatorFn|ValidatorFn[]|AbstractControlOptions|null,
      asyncValidator?: AsyncValidatorFn|AsyncValidatorFn[]|null) {
    super(coerceToValidator(validatorOrOpts),
          coerceToAsyncValidator(asyncValidator, validatorOrOpts));
    this._initObservables();
    this._setUpControls();
    this.updateValueAndValidity({onlySelf: true, emitModelToViewChange: false});
  }

  private registerControl(name: string, control: AbstractControl) {
    if (this.controls[name]) return this.controls[name];
    this.controls[name] = control;
    control.setParent(this);
    control._registerOnCollectionChange(this._onCollectionChange);
    return true;
  }

  private addControl(name: string, control: AbstractControl) {
    return this.registerControl(name, control);
  }

  /**
   * 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
   * @param registerControl(name: string, control: AbstractControl): AbstractControl
   * @param return this.controls[name];
   * @param control.setParent(this);
   * @param this._registerOnCollectionChange(this._onCollectionChange);
   * @param return control;
   */

  this._onCollectionChange();
}

/**
 * A `FormGroup` aggregates the values of each child `FormControl` into one object, with each control name as the key. It calculates its status by reducing the status values of its children. For example, if one of the controls in a group is invalid, the entire group becomes invalid. 
 * `FormGroup` is one of the three fundamental building blocks 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.
 * You include group-level validators as the second argument, or group-level async validators as validators as the third argument. These come in handy when you want to perform validation that considers the value of more than one child control.
 * `FormGroup` extends AbstractControl with a method to update the value and validity of a group of controls, the `updateValueAndValidity` method.
 * `FormGroup` also has a method to add a control to the group, the `addControl` method.
 */

export class FormGroup {
  constructor(
      public controls: { [key: string]: AbstractControl },
      validatorOrOpts?: ValidatorFn|ValidatorFn[]|AbstractControlOptions|null,
      asyncValidator?: AsyncValidatorFn|AsyncValidatorFn[]|null) {
    super(coerceToValidator(validatorOrOpts),
          coerceToAsyncValidator(asyncValidator, validatorOrOpts));
    this._initObservables();
    this._setUpControls();
    this.updateValueAndValidity({onlySelf: true, emitModelToViewChange: false});
  }

  private registerControl(name: string, control: AbstractControl) {
    if (this.controls[name]) return this.controls[name];
    this.controls[name] = control;
    control.setParent(this);
    control._registerOnCollectionChange(this._onCollectionChange);
    return true;
  }

  private addControl(name: string, control: AbstractControl) {
    return this.registerControl(name, control);
  }

  /**
   * 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
   * @param registerControl(name: string, control: AbstractControl): AbstractControl
   * @param return this.controls[name];
   * @param control.setParent(this);
   * @param this._registerOnCollectionChange(this._onCollectionChange);
   * @param return control;
   */

  this._onCollectionChange();
}

/**
 * A `FormGroup` aggregates the values of each child `FormControl` into one object, with each control name as the key. It calculates its status by reducing the status values of its children. For example, if one of the controls in a group is invalid, the entire group becomes invalid. 
 * `FormGroup` is one of the three fundamental building blocks 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.
 * You include group-level validators as the second argument, or group-level async validators as validators as the third argument. These come in handy when you want to perform validation that considers the value of more than one child control.
 * `FormGroup` extends AbstractControl with a method to update the value and validity of a group of controls, the `updateValueAndValidity` method.
 * `FormGroup` also has a method to add a control to the group, the `addControl` method.
 */

export class FormGroup {
  constructor(
      public controls: { [key: string]: AbstractControl },
      validatorOrOpts?: ValidatorFn|ValidatorFn[]|AbstractControlOptions|null,
      asyncValidator?: AsyncValidatorFn|AsyncValidatorFn[]|null) {
    super(coerceToValidator(validatorOrOpts),
          coerceToAsyncValidator(asyncValidator, validatorOrOpts));
    this._initObservables();
    this._setUpControls();
    this.updateValueAndValidity({onlySelf: true, emitModelToViewChange: false});
  }

  private registerControl(name: string, control: AbstractControl) {
    if (this.controls[name]) return this.controls[name];
    this.controls[name] = control;
    control.setParent(this);
    control._registerOnCollectionChange(this._onCollectionChange);
    return true;
  }

  private addControl(name: string, control: AbstractControl) {
    return this.registerControl(name, control);
  }

  /**
   * 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
   * @param registerControl(name: string, control: AbstractControl): AbstractControl
   * @param return this.controls[name];
   * @param control.setParent(this);
   * @param this._registerOnCollectionChange(this._onCollectionChange);
   * @param return control;
   */

  this._onCollectionChange();
}
Replaces an existing control.

```typescript
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();
}
```

Checks whether there is an enabled control with the given name in the group.

```typescript
contains(name: string): boolean {
  return this.controls.hasOwnProperty(name) && this.controls[name].enabled;
}
```

Sets the value of the `FormGroup`. It accepts an object that matches `*` the structure of the group, with control names as keys.

```javascript
const form = new FormGroup({
  first: new FormControl(),
  last: new FormControl()
});
console.log(form.value);   // {first: null, last: null}
form.setValue({first: 'Nancy', last: 'Drew'});
console.log(form.value);   // {first: 'Nancy', last: 'Drew'}
```

Sets the value of a control.

```typescript
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();
}
```

Sets the value of a control.

```typescript
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();
}
```

Sets the value of a control.

```typescript
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();
}
```

Sets the value of a control.

```typescript
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();
}
```

Sets the value of a control.

```typescript
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();
}
```

Sets the value of a control.

```typescript
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();
}
```
Open Source Used In MSX Platform Services 3.9.0

```typescript
/**
 * Tracks the value and validity state of an array of `FormControl`,
 *
 * @param options Configuration options that determine how the control propagates changes and emits events when the group is reset.
 * * `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.
 * * `noEvents`: The configuration options are passed to the `AbstractControl#updateValueAndValidity` method.
 */

abstract class AbstractControl {
  //...

  /**
   * The aggregate value of the 'FormGroup', including any disabled controls.
   *
   * @returns The aggregate value of the group, regardless of disabled status.
   */
  value: any;

  /**
   * The property is best to get the value of the group, because
   * it excludes disabled controls in the 'FormGroup'.
   */
  getRawValue(): any {
    return this._reduceChildren({}
      // ...
    );
  }

  /**
   * The aggregate value of the 'FormGroup', including any disabled controls.
   *
   * @param options Configuration options that determine how the control propagates changes and emits events when the group is reset.
   * * `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.
   * * `noEvents`: The configuration options are passed to the `AbstractControl#updateValueAndValidity` method.
   */
  updateValueAndValidity(options: {onlySelf?: boolean, emitEvent?: boolean} = {}): void {
    //...
  }

  /**
   * Resets the form group values and disabled status
   * regardless of disabled status.
   */
  reset(value: any = {}, options: {onlySelf?: boolean, emitEvent?: boolean} = {}): void {
    //...
  }
}
```
fundamental building blocks used to define forms in Angular.* along with `FormControl` and `FormGroup`. The two types of validators are passed in separately as the second and third argn respectively, or together as part of an options object.

The two types of validators are passed in separately as the second and third argn respectively, or together as part of an options object.

* @usageNotes

* ### Create an array of form controls

```
const arr = new FormArray([new FormControl('Nancy', Validators.minLength(2)), new FormControl('Drew')], { validators: myValidator, asyncValidators: myAsyncValidator });
```

### 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. The two types of validators are passed in separately as the second and third argn 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 control has explicitly specified a different `updateOn` value.

```ts
const arr = new FormArray([new FormControl()], {updateOn: 'blur'});
```
null); *\n    * arr.setValue(['Nancy', 'Drew']); *\n    * console.log(arr.value); // ['Nancy', 'Drew']; *\n    * \n    * @param value Array of values for the controls\n    * @param options Configure options that determine how the control propagates changes and\n    * emits events after the value changes\n    * \n    * * `onlySelf`: When true, each change only affects this control, and not its parent. Default: false\n    * * `emitEvent`: When true or not supplied (the default), both the `statusChanges` and\n    * `valueChanges` observables emit events with the latest status and value when the control value is updated.\n    * When false, no events are emitted.\n    * \n    * The configuration options are passed to the { @link AbstractControl#updateValueAndValidity\n    * updateValueAndValidity} method.\n    *
    *
    *
    * set getValue(value: any[]), options: {onlySelf?: boolean, emitEvent?: boolean} = {}): void {\n    * \n    * if (this._checkAllValuesPresent(value)) {\n    *   value.forEach((newValue: any, index: number) => {\n    *     if (this.at(index)) {\n    *       this.at(index).setValue(newValue, {onlySelf: true, emitEvent: options.emitEvent});\n    *     }\n    *   });\n    *   this.updateValueAndValidity(options);\n    * }\n    * \n    */\n    * Patches the value of the \n    * 'FormArray'. It accepts an array that matches the\n    * structure of the control, and does its best to match the values\n    * to the correct\n    * controls in the group.\n    * \n    * It accepts both super-sets and sub-sets of the array without\n    * throwing an error.\n    * \n    * * `@usageNotes\n    * * # Patch the values for controls in a form array\n    * * \n    * * const arr = new FormArray([\n    * *   new FormControl(),\n    * *   new FormControl()\n    * * ]);\n    * * \n    * * arr.setValue(value: any);\n    * * console.log(arr.value); // ['Nancy', 'Drew'];\n    * * \n    * * @param value Array of latest values for the controls\n    * * \n    * * `onlySelf`: When true, each change only affects this control, and not its parent. Default: false\n    * * `emitEvent`: When true or not supplied (the default), both the `statusChanges` and\n    * * `valueChanges` observables emit events with the latest status and value when the control value is updated.\n    * When false, no events are emitted.\n    * \n    * The configuration options are passed to the { @link AbstractControl#updateValueAndValidity\n    * updateValueAndValidity} method.\n    *
    *
    *
    * set patchValue(value: any[], options: {onlySelf?: boolean, emitEvent?: boolean} = {}): void {\n    * \n    * if (this.at(index)) {\n    *   this.at(index).patchValue(newValue, {onlySelf: true, emitEvent: options.emitEvent});\n    * }\n    * this.updateValueAndValidity(options);\n    * }\n    * \n    */\n    * \n    * `FormArray` and all descendants are marked `pristine` and `untouched`, and the\n    * value of all descendants to null or null maps.\n    * \n    * `@usageNotes\n    * * # Reset the values in a form array\n    * * \n    * * this.arr.reset([\n    * *   {value: 'name', disabled: true},\n    * *   'last name'\n    * * ]);\n    * * \n    * * console.log(this.arr.value); // ['name', 'last name'];\n    * * \n    * * @param value Array of values for the controls\n    * * \n    * * `onlySelf`: When true, each change only affects this control, and not its parent. Default: false\n    * * `emitEvent`: When true or not supplied (the default), both the `statusChanges` and\n    * * `valueChanges` observables emit events with the latest status and value when the control is reset.\n    * When false, no events are emitted.\n    * \n    * The configuration options are passed to the { @link AbstractControl#updateValueAndValidity\n    * updateValueAndValidity} method.\n    *
    *
    *
    * set reset(value: any = [], options: {onlySelf?: boolean, emitEvent?: boolean} = {}): void {\n    * \n    * if (this._checkAllValuesPresent(value)) {\n    *   this._forEachChild((control: AbstractControl, index: number) => {\n    *     control.reset(value[index], {onlySelf: true, emitEvent: options.emitEvent});\n    *   });\n    *   this._updatePristine(options);\n    *   this._updateTouched(options);\n    *   this.updateValueAndValidity(options);\n    * }\n    * \n    */\n    * \n    * The aggregate value of the array, including any disabled controls.\n    * \n    * @param value Array of values for the controls\n    * @param options Configure options that determine how the control propagates changes and\n    * emits events after the value changes\n    * \n    * * `onlySelf`: When true, each change only affects this control, and not its parent. Default: false\n    * * `emitEvent`: When true or not supplied (the default), both the `statusChanges` and\n    * * `valueChanges` observables emit events with the latest status and value when the control value is updated.\n    * When false, no events are emitted.\n    * \n    * The configuration options are passed to the { @link AbstractControl#updateValueAndValidity\n    * updateValueAndValidity} method.\n    *
    *
    *
    * set getRawValue(): any[] {\n    *   return this.controls.map(control: AbstractControl) => {\n    *     return controlinstanceof FormControl ? control.value : (<any>control).getRawValue();\n    *   }\n    * }\n    * \n    */\n    * *}
controls in the 'FormArray'.

```ts
const arr = new FormArray([new FormControl(), new FormControl()]);
console.log(arr.length); // 2
```

```ts
while (arr.length) {
  arr.removeAt(0);
}
```
is unnecessary because the `<form>` tags are inert. In that case, you would refrain from using the `formGroup` directive.

Setting the update options

The following example shows you how to change the `updateOn` option from its default using `ngFormOptions`.

```html
<form [ngFormOptions]="{updateOn: 'blur'}">
  <input name="one" ngModel>  <!-- this ngModel will update on blur -->
</form>
```

In order to prevent the native DOM form validation UI from interfering with Angular's form validation, Angular automatically adds the `novalidate` attribute on any `<form>` whenever a `FormModule` or `ReactiveFormsModule` is 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>
```

@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 {
  /**
   * Returns whether the form submission has been triggered.
   */
  public readonly submitted: boolean = false;

  private _directives: NgModel[] = [];

  /**
   * The `FormGroup` instance created for this form.
   */
  form: FormGroup;

  /**
   * The directive instance.
   */
  get formDirective(): Form { return this; }

  /**
   * The internal `FormGroup` instance.
   */
  get control(): FormGroup { return this.form; }

  /**
   * 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 []; }

  /**
   * Returns a map of the controls in this group.
   */
  get controls(): {[key: string]: AbstractControl} { return this.form.controls; }

  /**
   * 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.
   */
  addFormGroup(dir: NgModelGroup): void {
    setUpFormContainer(dir.control, dir);
  }

  /**
   * Adds a new `NgModelGroup` directive instance to the form.
   */
  addFormGroup(dir: NgModelGroup): void {
    setUpFormContainer(dir.control, dir);
  }
```
container.registerControl(dir.name, group);
      group.updateValueAndValidity({emitEvent: false});
    });
  }

  /**
   * @description
   * Removes the `NgModelGroup` directive instance from the form.
   */
  @param dir The `NgModelGroup` directive instance.
  * @param remove FromGroup(dir: NgModelGroup): void {
      resolvedPromise.then(() => { const container = this._findContainer(dir.path);
    if (container) { const ctrl = <FormControl>this.form.get(dir.path !);
      ctrl.setValue(value); // synchronous validators.
      this.form.updateValueAndValidity();
    } else { this.form.get(dir.path !).setValue(value); // asynchronous validators.
      this._asyncValidators.forEach(validator => { validator(validator.prop, validator.value); });
    }
  }

  /**
   * @description
   * Removes the `NGModelGroup` directive instance from the form.
   */
  @param remove FromGroup(dir: NgModelGroup): void {
      resolvedPromise.then(() => { const container = this._findContainer(dir.path);
    if (container) { const ctrl = <FormControl>this.form.get(dir.path !);
      ctrl.setValue(value); // synchronous validators.
      this.form.updateValueAndValidity();
    } else { this.form.get(dir.path !).setValue(value); // asynchronous validators.
      this._asyncValidators.forEach(validator => { validator(validator.prop, validator.value); });
    }
  }

  /**
   * @description
   * Sets the value for the provided `NgControl` directive.
   */
  @param value The new value for the directive's control.
  */
  updateModel(dir: NgControl, value: any): void {
    resolvedPromise.then(() => { const ctrl = <FormControl>this.form.get(dir.path !);
      ctrl.setValue(value); // synchronous validators.
      this.form.updateValueAndValidity();
    } else { this.form.get(dir.path !).setValue(value); // asynchronous validators.
      this._asyncValidators.forEach(validator => { validator(validator.prop, validator.value); });
    }
  }

  /**
   * @description
   * Sets the new value for the provided `NgControl` directive.
   */
  * @param value The new value
   */
  setValue(value: {[key: string]: any}): void { this.control.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 value The new value for the form.
  */
  onSubmit($event: Event): boolean {
    (this as {submitted: boolean}).submitted = true;
    syncPendingControls(this.form, this._directives);
    this.ngSubmit.emit($event);
    return false;
  }

  /**
   * @description
   * Method called before the instance is destroyed.
   */
  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);
    (this as {submitted: boolean}).submitted = false;
  }

  private _setUpdateStrategy() {
    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;
  }
}

import {OnDestroy, OnInit} from '@angular/core';
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
   */
  get _parent(): ControlContainer {
  }

  /**
   * @description
   * An array of synchronous validators for the group
   */
  get _validators(): ValidatorFn[] {
    return this._validators.map(validator => validator.value); // synchronous validators.
    return this._validators.map(validator => validator.value); // asynchronous validators.
  }

  /**
   * @description
   * An array of async validators for the group
   */
  get _asyncValidators(): AsyncValidatorFn[] {
    return this._asyncValidators.map(validator => validator.value); // asynchronous validators.
  }

  /**
   * @description
   * The `FormGroup` bound to this directive.
   */
  get _formDirective(): FormGroup {
  }

  /**
   * @description
   * The top-level directive for this group if present, otherwise null.
   */
  get _topLevelDirective(): string[] {
  }

  /**
   * @description
   * The synchronous validators registered with this group.
   */
  get _synchronousValidators(): ValidatorFn[] {
    return this._synchronousValidators.map(validator => validator.value); // synchronous validators.
    return this._synchronousValidators.map(validator => validator.value); // asynchronous validators.
  }

  /** @internal */
  _checkParentType(): void
```typescript
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: Update ngModel's parent be ngModelGroup (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 formControlName instead of ngModelGroup (reactive strategy):

      ${Examples.formGroupName}

      Option 2: Use a regular form tag instead of the formGroup
directive (template-driven strategy):

      ${Examples.ngModelGroup}`);
  }
}
```
```typescript
/**
   * @description
   * Sets the new value for the view model and emits an
   * `ngModelChange` event.
   * @param newValue The new value emitted by
   */
  viewToModelUpdate(newValue: any): void {
    this.viewModel = newValue;
    this.update.emit(newValue);
  }

  private _setUpControl(): void {
    this._setUpdateStrategy();
    this._isStandalone() ? this._setUpStandalone() :
    this.formDirective.addControl(this);
    this._registered = true;
  }

  private _setUpdateStrategy(): void {
    if (this.options && this.options.updateOn != null) {
      this.control._updateOn = this.options.updateOn;
    }
  }

  private _isStandalone(): boolean {
    return !this._parent || !!(this.options && this.options.standalone);
  }

  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();
      }
    });
  }
```
The following examples show how to register a standalone control and set its value:

```ts
@Directive({selector: '[formControl]', providers: [FormControlBinding], exportAs: 'ngFormControl'}
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.
   */
  @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();
  }

  ngOnChanges(changes: SimpleChanges): void {
    if
  }
```

Now deprecated:

```html
<input [formControl]='control' [(ngModel)]=value
```
Open Source Used In MSX Platform Services 3.9.0  2932

```typescript
(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);
}

/**
 * @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.
 * @returns {[string]} get path(): string[] { return []; }
 */
* @description
* Synchronous validator function composed of all the synchronous validators registered
* with this directive.

* @description
* Async validator function composed of all the async validators registered with this
* directive.

* The `FormControl` bound to this directive.

* The `FormGroup` bound to this directive.

* Sets the new value for the view model and emits an `ngModelChange` event.

* NgSubmit event. The new value for the view model.

* This directive accepts an existing `FormGroup` instance. It will then use this
* instance to match any child `FormControl`, `FormGroup`, and `FormArray` instances to child `FormControlName`,
* `FormGroupName`, and `FormArrayName` directives.

* The following example registers a `FormGroup` with first name and last name controls,
* and listens for the *ngSubmit* event when the button is clicked.

* Reactive Forms Guide
* @publicApi
*/

Cómo se compone el código fuente que puede ser MIT-style. En

* Se puede encontrar en el archivo LICENSE en https://angular.io/license
* 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 '../form_interface';
* import {ReactiveErrors} from '../reactive_errors';
* import {cleanUpControl, composeAsyncValidators, composeValidators, removeDir, setUpControl, setUpFormContainer, syncPendingControls} from '../shared';
* import {FormControlName} from './form_control_name';
* import {FormArrayName, FormGroupName} from './form_group_name';

export const formDirectiveProvider: any = {
  provide: ControlContainer,
  useExisting: forwardRef(() => FormGroupDirective)
};

/**
 * @description
 * Binds an existing `FormGroup` to a DOM element.
 *
 * This directive accepts an existing `FormGroup` instance. It will then use this
 * instance to match any child `FormControl`, `FormGroup`, and `FormArray` instances to child `FormControlName`,
 * `FormGroupName`, and `FormArrayName` directives.
 *
 * ### Register Form Group
 *
 * The following example registers a `FormGroup` with first name and last name controls, and
 * listens for the *ngSubmit* event when the button is clicked.

* @example
*/

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 '../form_interface';
import {ReactiveErrors} from '../reactive_errors';
import {cleanUpControl, composeAsyncValidators, composeValidators, removeDir, setUpControl, setUpFormContainer, syncPendingControls} from '../shared';

import {FormControlName} from './form_control_name';
import {FormArrayName, FormGroupName} from './form_group_name';

export const formDirectiveProvider: any = {
  provide: ControlContainer,
  useExisting: forwardRef(() => FormGroupDirective)
};

/**
 * @description
 * Binds an existing `FormGroup` to a DOM element.
 *
 * This directive accepts an existing `FormGroup` instance. It will then use this
 * instance to match any child `FormControl`, `FormGroup`, and `FormArray` instances to child `FormControlName`,
 * `FormGroupName`, and `FormArrayName` directives.
 *
 * ### Register Form Group
 *
 * The following example registers a `FormGroup` with first name and last name controls, and
 * listens for the *ngSubmit* event when the button is clicked.

* @example
*/
@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.
* 
* @return void

ngOnChanges(changes:
SimpleChanges): {  
  if (changes.hasOwnProperty(form)) {
    this._updateValidators();
    this._updateDomValue();
    this._updateRegistrations();
  }
}

** Returns this directive's instance.
**

getFormDirective(): Form {
  return this;
}

** Returns the FormGroup bound to this directive.

get control(): FormGroup {
  return this.form;
}

** 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.

**

getControl(dir: FormControlName): FormControl {
  return this.form.get(dir.path);
}

**

removeControl(dir: FormControlName): void {
  removeDir<FormControlName>(this.directives, dir);
}

**

addFormGroup(dir: FormGroupName): void {
  const ctrl = this.form.get(dir.path);
  setUpFormContainer(ctrl, dir);
  ctrl.updateValueAndValidity({emitEvent: false});
}

**

removeFormGroup(dir: FormGroupName): void {
}

**

getFormGroup(dir: FormGroupName): FormGroup {
  return this.form.get(dir.path);
}

**

addFormArray(dir: FormArrayName): void {
  const ctrl = this.form.get(dir.path);
  setUpFormContainer(ctrl, dir);
  ctrl.updateValueAndValidity({emitEvent: false});
}

**

removeFormArray(dir: FormArrayName): void {
}

**

getFormArray(dir: FormArrayName): FormArray {
  return this.form.get(dir.path);
}

**

updateModel(dir: FormControlName, value: any): void {
  const ctrl = this.form.get(dir.path);
  ctrl.setValue(value);
}

**

onSubmit($event: Event): boolean {
  (this as {submitted: boolean}).submitted = true;
  syncPendingControls(this.form, this.directives);
  this.ngSubmit.emit($event);
  return false;
}

**

onReset(): void {
  this.resetForm();
}

**

resetForm(value: any = undefined): void {
  this.form.reset(value);
  (this as {submitted: boolean}).submitted = false;
}

**

private_updateTreeValidity({emitEvent: false});

**

private_updateRegistrations() {
  this.form._registerOnCollectionChange(
    this._updateTreeValidity(),
    this.directives.
  );
}

旎
export class FormArrayName extends ControlContainer implements OnInit, OnDestroy {
  /** @internal */
  _parent: ControlContainer;

  /** @internal */
  _validators: any[];

  /** @internal */
  _asyncValidators: any[];

  /**
   * @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[])
  {
    super();
    this._parent = parent;
    this._validators = validators;
    this._asyncValidators = asyncValidators;
  }

  /**
   * @description
   * A lifecycle method called when the directive's inputs are initialized. For internal use only.
   */
  ngOnInit(): void {
    this._checkParentType();
    this.formDirective !.addFormArray(this);
  }

  /**
   * @description
   * A lifecycle method called before the directive's instance is destroyed. For internal use only.
   */
  ngOnDestroy(): void {
    if (this.formDirective) {
      this.formDirective.removeFormArray(this);
    }
  }

  /**
   * @description
   * The `FormArray` bound to this directive.
   */
  get control(): FormArray { return this.formDirective !.getFormArray(this); }

  /**
   * @description
   * The top-level directive for this group if present, otherwise null.
   */
  get formDirective(): FormGroupDirective|null {
    return this._parent ? <FormGroupDirective>this._parent.formDirective : 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.
   */
  get path(): string[] {
    return controlPath(this.name == null ? this.name : this.name.toString(), this._parent);
  }

  /**
   * @description
   * Synchronous validator function composed of all the synchronous validators registered with this directive.
   */
  get validator(): ValidatorFn|null {
    return composeValidators(this._validators);
  }

  /**
   * @description
   * Async validator function composed of all the async validators registered with this directive.
   */
  get 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 FormGroupDirective) &&
    !(parent instanceof FormArrayName);
}

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 {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 `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.
 */

@example forms/ts/simpleFormGroup/simple_form_group_example.ts region='Component'
'formControlName' examples with different form control types, see:

* Radio buttons:

  `RadioControlValueAccessor`:

  * * Selects: `SelectControlValueAccessor`

  * * 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:

  ```html
  <input formControlName="first" [(ngModel)]="value">
  </input>
  ```

  ```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.setting the value and intercepting value events. However, some of `ngModel`'s other features - like `ngModel` 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 `ngModel` either strategy. Setting the value in the template violates the template-agnostic principles behind reactive forms, whereas adding a `FormControl`/`FormGroup` layer 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 forms directives (and 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" [(ngModel)]="value">
  </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:

  ```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 time:

  ```ts
  imports:
      [ReactiveFormsModule.withConfig({warnOnNgModelWithFormControl: 'never'})]
  ```

  Alternatively, you can choose to provide a config `"always"` 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.

  ```html
  <input formControlName="first">
  ```

  ```ts
  this.form.get('first').setValue('some value');
  ```

  * * To update your code before support is removed, you'll want to decide whether to stick with reactive forms directives (and set/values using reactive forms patterns) or switch over to template-driven directives. 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 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 updated.

  ```html
  <input formControlName="first">
  ```

  ```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 updated.

  ```html
  <input formControlName="first">
  ```

  ```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 updated.

  ```html
  <input formControlName="first">
  ```

  ```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 updated.
@Optional() @Inject(NG_MODEL_WITH_FORM_CONTROL_WARNING) private _ngModelWarningConfig: string|null) { super();
  this._parent = parent;
  this._rawValidators = validators || [];
  this._rawAsyncValidators = asyncValidators || [];
  } @description
  * A lifecycle method called when the directive's inputs change. For internal use only.
  */
  }

  /**
   * @description
   * A lifecycle method called when the directive's inputs change.
   * For internal use only.
   */
  }

  /**
   * @description
   * 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.
   * Each index is the string name of the control on that level.
   */
  }

  /**
   * @description
   * The top-level directive for this group if present, otherwise null.
   */
  }

  /**
   * @description
   * Synchronous validator function composed of all the synchronous validators registered with this directive.
   */
  }

  /**
   * @description
   * Async validator function composed of all the async validators registered with this directive.
   */
  }

  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;
  }
}

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

import {Directive, Input, OnChanges, SimpleChanges, StaticProvider, forwardRef} from '@angular/core';
import {Observable} from 'rxjs';

import {AbstractControl} from '../model';
import {NG_VALIDATORS, Validators} from '../validators';

/**
 * @description
 * Defines the map of errors returned from failed validation checks.
 *
 * @publicApi
 */
export type ValidationErrors = {
  [key: string]: any
};

/**
 * @description
 * An interface implemented by classes that perform synchronous validation.
 *
 * @usageNotes
 *
 * ### Provide a custom validator
 *
 * The following example implements the `Validator` interface to create a
 * 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} | {null} ||
 *     @publicApi !/export type ValidationErrors = { | [key: string]: any | | } | @description
 *     An interface implemented by classes that perform synchronous validation.
 *     * @usageNotes
 *     * `##` Provide a custom validator
 *     *
 *     * The following example implements the 'Validator' interface to create a
 *     * validator directive with a custom error key.
 *     * ```typescript
 *     * * @Directive({ | * selector: [customValidator], | *
 *     * providers: [[provide:
 *     * NG_VALIDATORS, useExisting: CustomValidatorDirective, multi: true]] | *
 *     * }) | *
 *     * CustomValidatorDirective implements Validator {
 *     * validate(control: AbstractControl): ValidationErrors|null {
 *     * return {custom: true} | {null} ||
 *     */ ** * @publicApi !/export interface Validator {
 *     | * @description
 *     * Method that performs synchronous validation against the provided control.
 *     | * @param
 *     * 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
 *     * An 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 a
 *     * async validator
directive with a custom error key.\n *\n * ```typescript
 * import { of as observableOf } from 'rxjs';
 *
 * @Directive({
 *   selector: '[customAsyncValidator]',
 *   providers: [{provide: NG_ASYNC_VALIDATORS,
 *                 useExisting: CustomAsyncValidatorDirective, multi: \n * true}]
 * })
 * class CustomAsyncValidatorDirective implements AsyncValidator {
 *   validate(control: AbstractControl): Observable<ValidationErrors|null> {\n *     return observableOf({
 *       custom: true
 *     });
 *   }
 * }
 * ```
 *
 * @publicApi
 * @export
 */
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\n   * if validation fails, otherwise null.
   * \n   * ```typescript
   * validate(control: AbstractControl): Observable<ValidationErrors|null> {
   *   return observableOf({
   *     'custom': true
   *   });
   * }
   * ```
   * @publicApi
   */
  validate(control: AbstractControl): Promise<ValidationErrors|null>|Observable<ValidationErrors|null>;
}

/**
 * @description
 * Provider which adds `RequiredValidator` to the `NG_VALIDATORS` multi-provider list.
 */
export const REQUIRED_VALIDATOR: StaticProvider = {
  provide: NG_VALIDATORS,
  useExisting: forwardRef(() => RequiredValidator),
  multi: true
};

/**
 * @description
 * Provider which adds `CheckboxRequiredValidator` to the `NG_VALIDATORS` multi-provider list.
 */
export const CHECKBOX_REQUIRED_VALIDATOR: StaticProvider = {
  provide: NG_VALIDATORS,
  useExisting: forwardRef(() => CheckboxRequiredValidator),
  multi: true
};

/**
 * @description
 * A directive that adds the `required` validator to any controls marked with the\n * `required` attribute. The directive is provided with the `NG_VALIDATORS` multi-provider list.
 * \n * ```
 * @NgModule FormsModule
 * @NgModule
 * ```
 */
@Directive({
  selector: ':not([type=checkbox])[required][formControlName],:not([type=checkbox])[required][formControl],:not([type=checkbox])[required][ngModel]',
  providers: [REQUIRED_VALIDATOR],
  host: {'[attr.required]': 'required ? "" : null'}
})
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.
   */
  @Input()
  get 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.
   * \n   * 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.
   * \n   * Registers a callback function to call when the validator inputs change.
   */
  registerOnValidatorChange(fn: () => void): void { this._onChange = fn; }
}

/**
 * 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 * ```
 * @NgModule
 * ```
 */
@Directive({
  selector: '[email][formControlName],[email][formControl],[email][ngModel]',
  providers: [EMAIL_VALIDATOR],
  host: {'[attr.email]': 'true'}
})
export class EmailValidator implements Validator {
  /**
   * @description
   * Method that validates a string input.
   * Returns the validation result if enabled, otherwise null.
   */
  validate(control: AbstractControl): ValidationErrors|null { return this._required ? Validators.required(control) : null;
}

  /**
   * @description
   * 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.
   */
  @NgModule
  ```
### Adding an email validator

The following example shows how to add an email validator to an input attached to an ngModel binding.

```html
<input type="email" name="email" ngModel email="true">
```

@Directive({
  selector: '[email][formControlName], [email][formControl]',
  providers: [EMAIL_VALIDATOR, EMAIL_VALUE]
})
export class EmailValidator implements Validator {

  validate(control: AbstractControl): ValidationErrors | null {
    return this.enabled ? Validators.email(control) : null;
  }

  registerOnValidatorChange(fn: () => void): void {
    this.onChange = fn;
  }

  private _enabled!: boolean;
  private _onChange!: () => void;

  /**
   * @description
   * Tracks changes to the email attribute bound to this directive.
   */
  @Input()
  set email(value: boolean|string) {
    this._enabled = value === '' || value === true || value === 'true';
    if (this._onChange) this._onChange();
  }

  /**
   * @description
   * A method that validates whether an email address is valid.
   */
  validate(control: AbstractControl): ValidationErrors | null {
    return this.enabled ? Validators.email(control) : null;
  }

  registerOnValidatorChange(fn: () => void): void {
    this._onChange = fn;
  }
}

// Use the provided `EmailValidator` to add email validation

```html
<input type="email" name="email" ngModel email="true">
```

---

### Adding a minimum length validator

The following example shows how to add a minimum length validator to an input attached to an ngModel binding.

```html
<input name="firstName" ngModel minlength="4">
```

@Directive({
  selector: '[minlength][formControlName], [minlength][formControl]',
  providers: [MIN_LENGTH_VALIDATOR, MIN_LENGTH_VALUE]
})
export class MinLengthValidator implements Validator,
    OnChanges {

  /**
   * @description
   * Tracks changes to the the minimum length bound to this directive.
   */
  @Input()
  set minlength(value: number | string) {
    this._length = value === '' || value === true || value === 'true';
    if (this._onChange) this._onChange();
  }

  /**
   * @description
   * A method that validates whether the value meets a minimum length requirement.
   */
  validate(control: AbstractControl): ValidationErrors | null {
    return this.length == null ? null : this.minlength(control);
  }

  registerOnValidatorChange(fn: () => void): void {
    this._onChange = fn;
  }

  private _length!: number;
  private _onChange!: () => void;

  /**
   * @description
   * Tracks changes to the the minimum length bound to this directive.
   */
  @Input()
  set minlength(value: number | string) {
    this._length = value === '' || value === true || value === 'true';
    if (this._onChange) this._onChange();
  }

  /**
   * @description
   * A lifecycle method called when the directive's inputs change.
   */
  ngOnChanges(changes: SimpleChanges) {
    if (!this._length) return;
    if (this._length in changes) {
      this._createValidator();
      if (this._onChange) this._onChange();
    }
  }

  /**
   * @description
   * A method that validates whether the value meets a minimum length requirement.
   */
  validate(control: AbstractControl): ValidationErrors | null {
    return this.length == null ? null : this.minlength(control);
  }

  registerOnValidatorChange(fn: () => void): void {
    this._onChange = fn;
  }

  private _createValidator(): void {
    this._minlength = typeof this.minlength === 'number' ? this.minlength : parseInt(this.minlength, 10);
    this._validator = Validators.minLength(this._minlength);
  }
}

// Use the provided `MaxLengthValidator` to add max length validation

```html
<input type="email" name="email" ngModel email="true">
```

---

### Adding a maximum length validator

The following example shows how to add a maximum length validator to an input attached to an ngModel binding.

```html
<input name="firstName" ngModel maxlength="4">
```

@Directive({
  selector: '[maxlength][formControlName], [maxlength][formControl]',
  providers: [MAX_LENGTH_VALIDATOR, MAX_LENGTH_VALUE]
})
export class MaxLengthValidator implements Validator,
    OnChanges {

  /**
   * @description
   * Tracks changes to the the maximum length bound to this directive.
   */
  @Input()
  set maxlength(value: number | string) {
    this._length = value === '' || value === true || value === 'true';
    if (this._onChange) this._onChange();
  }

  /**
   * @description
   * A method that validates whether the value meets a maximum length requirement.
   */
  validate(control: AbstractControl): ValidationErrors | null {
    return this.length == null ? null : this.maxlength(control);
  }

  registerOnValidatorChange(fn: () => void): void {
    this._onChange = fn;
  }

  private _length!: number;
  private _onChange!: () => void;

  /**
   * @description
   * Tracks changes to the the maximum length bound to this directive.
   */
  @Input()
  set maxlength(value: number | string) {
    this._length = value === '' || value === true || value === 'true';
    if (this._onChange) this._onChange();
  }

  /**
   * @description
   * A method that validates whether the value meets a maximum length requirement.
   */
  validate(control: AbstractControl): ValidationErrors | null {
    return this.length == null ? null : this.maxlength(control);
  }

  registerOnValidatorChange(fn: () => void): void {
    this._onChange = fn;
  }

  private _createValidator(): void {
    this._maxlength = typeof this.maxlength === 'number' ? this.maxlength : parseInt(this.maxlength, 10);
    this._validator = Validators.maxLength(this._maxlength);
  }
}
with the `maxlength` attribute. The directive is provided with the `NG_VALIDATORS` multi-provider list.

```typescript
@Directive(
  selector: '[maxlength][formControlName], [maxlength][formControl], [maxlength][ngModel]',
  providers: [MAX_LENGTH_VALIDATOR],
  host: { '[attr.maxlength]': 'maxlength ? maxlength : null' }
) export class MaxLengthValidator implements Validator, OnChanges {
  ngOnChanges(changes: SimpleChanges) { if (changes['maxlength']) {
    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(this.maxlength); }
}

```

### Adding a maximum length validator

The following example shows how to add a maximum length validator to an input attached to an `ngModel` binding.

```html
<input name="firstName" [maxlength]=25>
```

The directive is provided with the `NG_VALIDATORS` multi-provider list.

```typescript
@Directive(
  selector: '[pattern][formControlName], [pattern][formControl], [pattern][ngModel]',
  providers: [PATTERN_VALIDATOR],
  host: { '[attr.pattern]': 'pattern ? pattern : null' }
) export class PatternValidator implements Validator, OnChanges {
  ngOnChanges(changes: SimpleChanges) { if (changes['pattern']) {
    this._createValidator();
    if (this._onChange) this._onChange();
  }
  validate(control: AbstractControl): ValidationErrors|null { return this._validator(control); }
  registerOnValidatorChange(fn: () => void): void { this._onChange = fn;
  }
  private _createValidator(): void { this._validator = Validators.pattern(this.pattern); }
}
```

### Adding a pattern validator

The following example shows how to add a pattern validator to an input attached to an `ngModel` binding.

```html
<input name="firstName" [pattern]="[a-zA-Z _]*">
```

The directive is provided with the `NG_VALIDATORS` multi-provider list.

```typescript
@Directive(
  selector: '[ngModel][ngModel]',
  providers: [NgModuleFormsModule, NgModuleReactiveFormsModule, @publicApi]
) export class NgModelModule {
  ```

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import {CheckboxRequiredValidator, EmailValidator, MaxLengthValidator, MinLengthValidator, PatternValidator, RequiredValidator} from './directives/validators';

export {CheckboxControlValueAccessor} from './directives/checkbox_value_accessor';
export {ControlValueAccessor} from './directives/control_value_accessor';
export {DefaultValueAccessor} from './directives/default_value_accessor';
export {Ngcontrol} from './directives/ng_control';
export {NgControlStatus, NgControlStatusGroup} from './directives/ng_control_status';
export {NgForm} from './directives/ng_form';
export {NgModel} from './directives/ng_model';
export {NgModelGroup} from './directives/ng_model_group';
export {NumberValueAccessor} from './directives/number_value_accessor';
export {RadioControlValueAccessor} from './directives/radio_control_value_accessor';
export {RangeValueAccessor} from './directives/range_value_accessor';
export {FormControlDirective, NG_MODEL_WITH_FORM_CONTROL_WARNING} 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, FormGroupName} from './directives/reactive_directives/form_group_name';
export {NgSelectOption, SelectControlValueAccessor} from './directives/select_control_value_accessor';
export {NgSelectMultipleOption, SelectMultipleControlValueAccessorType} from './directives/select_multiple_control_value_accessor';

export const SHARED_FORM_DIRECTIVES: Type<any>[] = [NgNoValidate,
  NgSelectOption,
  NgSelectMultipleOption,
  DefaultValueAccessor,
  NumberValueAccessor,
  RangeValueAccessor,
  CheckboxControlValueAccessor,
  SelectControlValueAccessor,
  SelectMultipleControlValueAccessor,
  RadioControlValueAccessor,
  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];

/**
 * @description
 * Creates an `AbstractControl` from a user-specified configuration.

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

import {AsyncValidatorFn, ValidatorFn} from './directives/validators';
import {AbstractControl, AbstractControlOptions, FormArray, FormControl, FormGroup, FormHooks} from './model';

function isAbstractControlOptions(options: AbstractControlOptions): options is AbstractControlOptions {
  return (options as any).asyncValidators !== undefined ||
      (options as any).validators !== undefined ||
      (options as any).updateOn !== undefined;
}

/**
 * @description
 * Creates an `AbstractControl` from a user-specified configuration.

isOpenSourceUsedInMSXPlatformServices390 {2941}
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. 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.

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.

### Initialize a control as disabled

The following example returns a control with an initial value in a disabled state.

```typescript
<code-example path="forms/ts/formBuilder/form_builder_example.ts" region="disabled-control" />
```

### Initialize a control as disabled

The following example returns a control with an initial value in a disabled state.

```typescript
<code-example path="forms/ts/formBuilder/form_builder_example.ts" region="disabled-control" />
```

return this.control(value, validator, asyncValidator);

} else {

return this.control(controlConfig);

}

/**
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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
 */

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

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

/**
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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 {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 {FormBuilder} from './form_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)
 * @see [Reactive Forms Guide](/guide/reactive-forms)
 *
 * @publicApi
 */

@NgModule({

  declarations: TEMPLATE_DRIVEN_DIRECTIVES,

  providers: [RadioControlRegistry],

  exports: [InternalFormsSharedModule, TEMPLATE_DRIVEN_DIRECTIVES]
})
export class FormsModule {

/**
 * @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.
 */

static withConfig(opts: {

  /** @deprecated as of v6 */
  warnOnNgModelWithFormControl: 'never' | 'once' | 'always'

}) {

return {

  ngModule: ReactiveFormsModule,

  providers: [

    {provide: NG_MODEL_WITH_FORM_CONTROL_WARNING, useValue: opts.warnOnNgModelWithFormControl}

  ]

}

/**
 * @publicApi
 */

@NgModule({

  declarations: REACTIVE_DRIVEN_DIRECTIVES,

  providers: [

    FormBuilder, RadioControlRegistry

  ],

  exports: [InternalFormsSharedModule, REACTIVE_DRIVEN_DIRECTIVES]
})
export class ReactiveFormsModule {

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

export * from './index';

export *

export {InternalFormsSharedModule as ɵangular_packages_forms_forms_d, REACTIVE_DRIVEN_DIRECTIVES as ɵangular_packages_forms_forms_e, SHARED_FORM_DIRECTIVES as ɵangular_packages_forms_forms_a, TEMPLATE_DRIVEN_DIRECTIVES as ɵangular_packages_forms_forms_b} from './src/directives';
export {CHECKBOX_VALUE_ACCESSOR as ɵangular_packages_forms_forms_d} from './src/directives/checkbox_value_accessor';
export {DEFAULT_VALUE_ACCESSOR as ɵangular_packages_forms_forms_d} from './src/directives/default_value_accessor';
export {AbstractControlStatus as ɵangular_packages_forms_forms_d} from './src/directives/ng_control_status_host';
export { NgModule as ɵangular_packages_forms_forms_d} from './src/directives/ng_control_status';
export {FormGroup as ɵangular_packages_forms_forms_d} from './src/directives/ng_form';
export {FormControl as ɵangular_packages_forms_forms_d} from './src/directives/ng_model';
export {FormControlDirective as ɵangular_packages_forms_forms_d} from './src/directives/ng_model_group';
export {NgNoValidate as ɵangular_packages_forms_forms_d} from './src/directives/ng_no_validate_directive';
export {NUMBER_VALUE_ACCESSOR as ɵangular_packages_forms_forms_d} from './src/directives/number_value_accessor';
export {RADIO_VALUE_ACCESSOR as ɵangular_packages_forms_forms_d} from './src/directives/radio_control_value_accessor';
export {RANGE_VALUE_ACCESSOR as ɵangular_packages_forms_forms_d} from './src/directives/range_value_accessor';
export { NgModel as ɵangular_packages_forms_forms_d} from './src/directives/reactive_directives/form_control_directive';
export {controlNameBinding as ɵangular_packages_forms_forms_d} from './src/directives/reactive_directives/form_control_directive';
export {controlNameBinding as ɵangular_packages_forms_forms_d} from './src/directives/reactive_directives/form_control_directive';
export {controlNameBinding as ɵangular_packages_forms_forms_d} from './src/directives/reactive_directives/form_control_directive';
export {controlNameBinding as ɵangular_packages_forms_forms_d} from './src/directives/reactive_directives/form_control_directive';
export {controlNameBinding as ɵangular_packages_forms_forms_d} from './src/directives/reactive_directives/form_control_directive';
return this; }, i);\n    function verb(n) { i[n] = o[n] && function (v) { return new Promise(function (resolve, reject) {
        v = o[n](v, settle(resolve, reject, v.done, v.value)); }); }; }
    function settle(resolve, reject) {
        var result = {};\n        if (Object.keys(resolve).length) result.default = function (mod,\n            result) {
            return mod[\n                resolve[\n                    importStar(mod)\n                ]\n            ];\n        };\n        return result;\n    }\n}

export function __makeTemplateObject(cooked, raw) {
    if (Object.defineProperty) { Object.defineProperty(cooked, "raw", {
        value: raw, \n    }); } else { cooked.raw = raw; }\n    return cooked;\n}

export function __importStar(mod) {
    if (mod && mod.__esModule) return mod;
    var result = {};
    if (mod != null) for (var k in mod) if (Object.hasOwnProperty.call(mod, k)) result[k] = mod[k];\n    result.default = mod;\n    return result;\n}

export function __importDefault(mod) {
    return (mod && mod.__esModule) ? mod : {
        default: mod
    };
}

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 */

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

/**
 * @description
 *
 * Defines an interface that acts as a bridge between the Angular forms API and a native element in the DOM.
 *
 * * @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.
     *
     * When implementing the `writeValue` method in your own value accessor, save the given function so your class calls it at the appropriate time.
     *
     * * The following example writes a value to the native DOM element.
     *
     * ```ts
     * writeValue(value: any): void {
     *   this._renderer.setProperty(this._elementRef.nativeElement, 'value', value);
     * }
     * ```
     *
     * @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 `registerOnChange` method in your own value accessor, save the given function so your class calls it when the control's value changes in the UI.
     *
     * * This method is called by the forms API on initialization to update the form model when values propagate from the view to the model.
     *
     * * When implementing the `registerOnTouched` method in your own value accessor, save the given function so your class calls it at the appropriate time.
     *
     * * Store the change function on *this*.
     *
     * * The following example stores the provided function as an internal method.
     *
     * * When the value changes in the UI, call the registered function to allow the forms API to update itself.
     *
     * * Store the callback function on *this*.
     *
     * * The following example stores the provided function as a public method.
     *
     * * Store the callback function for initialization.
     *
     * * Registers a callback function is called by the forms API on initialization.
     *
     * @param fn The callback function to register
     */
    registerOnChange(fn: any): void;

    /**
     * Registers a callback function is called by the forms API 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".
     *
     * * Store the callback function on *this*.
     *
     * * The following example stores the provided function as a public method.
     *
     * * The following example stores the provided function as an internal method.
     *
     * * Store the callback function for blur.
     *
     * * Store the callback function for initialization.
     *
     * * Registers a callback function is called by the forms API on initialization.
     *
     * @param fn The callback function to register
     */
    registerOnTouched(fn: any): void;

    /**
     * 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.
     *
     * The following is an example of writing the disabled property to a native DOM element.
     *
     * * This method is called by the forms API when the control status changes.
     *
     * * Store the callback function on *this*.
     *
     * * The following example stores the provided function as a public method.
     *
     * * Store the callback function for initialization.
     *
     * * Used to provide a 'ControlValueAccessor' for form controls.
     *
     * * See 'DefaultValueAccessor' for how to implement one.
     */
    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`);
any = {\n provide: NG_VALUE_ACCESSOR,\n useExisting: forwardRef(() =>
CheckboxControlValueAccessor),\n multi: true,\n};\n\n/**\n * @description\n * A `ControlValueAccessor` for
writing a value and listening to changes on a checkbox input\n * element.\n *\n * @usageNotes\n *\n * ### Using a
checkbox with a reactive form.\n *\n * The following example shows how to use a checkbox with a reactive form.\n
*\n * ```ts\n * const rememberLoginControl = new FormControl();\n * ```\n *\n * ```\n * <input type=\"checkbox\"
[formControl]=\"rememberLoginControl\">\n * ```\n *\n * @ngModule ReactiveFormsModule\n * @ngModule
FormsModule\n * @publicApi\n */\n@Directive({\n selector:\n
'input[type=checkbox][formControlName],input[type=checkbox][formControl],input[type=checkbox][ngModel]',\n
host: {'(change)': 'onChange($event.target.checked)', '(blur)': 'onTouched()'},\n providers:
[CHECKBOX_VALUE_ACCESSOR]\n})\nexport class CheckboxControlValueAccessor implements
ControlValueAccessor {\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
constructor(private _renderer: Renderer2, private _elementRef: ElementRef) {}\n\n /**\n * Sets the \"checked\"
property on the input element.\n *\n * @param value The checked value\n */\n writeValue(value: any): void {\n
this._renderer.setProperty(this._elementRef.nativeElement, 'checked', value);\n }\n\n /**\n * @description\n *
Registers a function called when the control value changes.\n *\n * @param fn The callback function\n */\n
registerOnChange(fn: (_: any) => {}): void { this.onChange = fn; }\n\n /**\n * @description\n * Registers a
function called when the control is touched.\n *\n * @param fn The callback function\n */\n
registerOnTouched(fn: () => {}): void { this.onTouched = fn; }\n\n /**\n * Sets the \"disabled\" property on the
input element.\n *\n * @param isDisabled The disabled value\n */\n setDisabledState(isDisabled: boolean):
void {\n this._renderer.setProperty(this._elementRef.nativeElement, 'disabled', isDisabled);\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 {ÉµgetDOM as
getDOM} from '@angular/common';\nimport {Directive, ElementRef, Inject, InjectionToken, Optional, Renderer2,
forwardRef} from '@angular/core';\nimport {ControlValueAccessor, NG_VALUE_ACCESSOR} from
'./control_value_accessor';\n\nexport const DEFAULT_VALUE_ACCESSOR: any = {\n provide:
NG_VALUE_ACCESSOR,\n useExisting: forwardRef(() => DefaultValueAccessor),\n multi: true\n};\n\n/**\n *
We must check whether the agent is Android because composition events\n * behave differently between iOS and
Android.\n */\nfunction _isAndroid(): boolean {\n const userAgent = getDOM() ? getDOM().getUserAgent() : '';\n
return /android (\\d+)/.test(userAgent.toLowerCase());\n}\n\n/**\n * @description\n * Provide this token to control
if form directives buffer IME input until\n * the \"compositionend\" event occurs.\n * @publicApi\n */\nexport
const COMPOSITION_BUFFER_MODE = new InjectionToken<boolean>('CompositionEventMode');\n\n/**\n *
@description\n * 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 *\n * @usageNotes\n *\n * ### Using the default value accessor\n *\n * The following example shows
how to use an input element that activates the default value accessor\n * (in this case, a text field).\n *\n * ```ts\n *
const firstNameControl = new FormControl();\n * ```\n *\n * ```\n * <input type=\"text\"
[formControl]=\"firstNameControl\">\n * ```\n *\n * @ngModule ReactiveFormsModule\n * @ngModule
FormsModule\n * @publicApi\n */\n@Directive({\n selector:\n
'input:not([type=checkbox])[formControlName],textarea[formControlName],input:not([type=checkbox])[formContr
ol],textarea[formControl],input:not([type=checkbox])[ngModel],textarea[ngModel],[ngDefaultControl]',\n //
TODO: vsavkin replace the above selector with the one below it once\n //
https://github.com/angular/angular/issues/3011 is implemented\n // selector:
'[ngModel],[formControl],[formControlName]',\n host: {\n '(input)':
'$any(this)._handleInput($event.target.value)',\n '(blur)': 'onTouched()',\n '(compositionstart)':
'$any(this)._compositionStart()',\n '(compositionend)': '$any(this)._compositionEnd($event.target.value)'\n },\n
providers: [DEFAULT_VALUE_ACCESSOR]\n})\nexport class DefaultValueAccessor implements

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control is touched, meaning that the user has triggered\n * a `blur` event on it. If the control is not present, null is
returned.\n */\n get touched(): boolean|null { return this.control ? this.control.touched : null; }\n\n /**\n *
@description\n * Reports the validation status of the control. Possible values include:\n * 'VALID', 'INVALID',
'DISABLED', and 'PENDING'.\n * If the control is not present, null is returned.\n */\n get status(): string|null {
return this.control ? this.control.status : null; }\n\n /**\n * @description\n * Reports whether the control is
untouched, meaning that the user has not yet triggered\n * a `blur` event on it. If the control is not present, null is
returned.\n */\n get untouched(): boolean|null { return this.control ? this.control.untouched : null; }\n\n /**\n *
@description\n * Returns a multicasting observable that emits a validation status whenever it is\n * calculated for
the control. If the control is not present, null is returned.\n */\n get statusChanges(): Observable<any>|null {\n
return this.control ? this.control.statusChanges : null;\n }\n\n /**\n * @description\n * Returns a multicasting
observable of value changes for the control that emits every time the\n * value of the control changes in the UI or
programmatically.\n * If the control is not present, null is returned.\n */\n get valueChanges():
Observable<any>|null {\n return this.control ? this.control.valueChanges : null;\n }\n\n /**\n * @description\n
* Returns an array that represents the path from the top-level form to this control.\n * Each index is the string name
of the control on that level.\n */\n get path(): string[]|null { return null; }\n\n /**\n * @description\n * Resets
the control with the provided value if the control is present.\n */\n reset(value: any = undefined): void {\n if
(this.control) this.control.reset(value);\n }\n\n /**\n * @description\n * Reports whether the control with the
given path has the error specified.\n *\n * @param errorCode The code of the error to check\n * @param path A
list of control names that designates how to move from the current control\n * to the control that should be queried
for errors.\n *\n * @usageNotes\n * For example, for the following `FormGroup`:\n *\n * ```\n * form = new
FormGroup({\n * address: new FormGroup({ street: new FormControl() })\n * });\n * ```\n *\n * The path to
the 'street' control from the root form would be 'address' -> 'street'.\n *\n * It can be provided to this method in one
of two formats:\n *\n * 1. An array of string control names, e.g. `['address', 'street']`\n * 1. A period-delimited list
of control names in one string, e.g. `'address.street'`\n *\n * If no path is given, this method checks for the error on
the current control.\n *\n * @returns whether the given error is present in the control at the given path.\n *\n *
If the control is not present, false is returned.\n */\n hasError(errorCode: string, path?:
Array<string|number>|string): boolean {\n return this.control ? this.control.hasError(errorCode, path) : false;\n
}\n\n /**\n * @description\n * Reports error data for the control with the given path.\n *\n * @param
errorCode The code of the error to check\n * @param path A list of control names that designates how to move
from the current control\n * to the control that should be queried for errors.\n *\n * @usageNotes\n * For
example, for the following `FormGroup`:\n *\n * ```\n * form = new FormGroup({\n * address: new
FormGroup({ street: new FormControl() })\n * });\n * ```\n *\n * The path to the 'street' control from the root
form would be 'address' -> 'street'.\n *\n * It can be provided to this method in one of two formats:\n *\n * 1.
An array of string control names, e.g. `['address', 'street']`\n * 1. A period-delimited list of control names in one
string, e.g. `'address.street'`\n *\n * @returns error data for that particular error. If the control or error is not
present,\n * null is returned.\n */\n getError(errorCode: string, path?: Array<string|number>|string): any {\n
return this.control ? this.control.getError(errorCode, path) : null;\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 {AbstractControlDirective} from
'./abstract_control_directive';\nimport {Form} from './form_interface';\n\n\n/**\n * @description\n * A base class
for directives that contain multiple registered instances of `NgControl`.\n * Only used by the forms module.\n *\n *
@publicApi\n */\nexport abstract class ControlContainer extends AbstractControlDirective {\n /**\n *
@description\n * The name for the control\n */\n // TODO(issue/24571): remove '!'.\n name !: string | number |
null;\n\n /**\n * @description\n * The top-level form directive for the control.\n */\n get formDirective():
Form|null { return null; }\n\n /**\n * @description\n * The path to this group.\n */\n get path(): string[]|null {
return null; }\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\n\nimport {AbstractControlDirective} from './abstract_control_directive';\nimport {ControlContainer} from

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```typescript
import {ControlValueAccessor} from './control_value_accessor';
import {AsyncValidator, AsyncValidatorFn, Validator, ValidatorFn} from './validators';

function unimplemented(): any {
  throw new Error('unimplemented');
}

/**
 * @description
 * A base class that all control `FormControl`-based directives extend. It binds a `FormControl` object to a DOM element.
 * The parent form for the control.
 * The uncomposed array of synchronous validators for the control
 * The value accessor for the control
 * The registered synchronous validator function for the control
 * The registered async validator function for the control
 * The callback method to update the model from the view when requested
 */
export abstract class NgControl extends AbstractControlDirective {
  /**
   * @description
   * The parent form for the control.
   */
  _parent: ControlContainer|null = null;

  /**
   * @description
   * The name for the control
   */
  name: string|number|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;
}

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 */

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.
 *
 * @usageNotes
 *
 * ### CSS classes applied
 * The following classes are applied as the properties become true:
 * * 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
 * 
 * @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); }
}

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 */

import {InjectionToken, ɵisObservable as isObservable, ɵisPromise as isPromise} from '@angular/core';
import {Observable, forkJoin, from} from 'rxjs';
import {map} from 'rxjs/operators';

```
from 'rxjs/operators';
nimport {AsyncValidatorFn, ValidationErrors, Validator, ValidatorFn} from '/directives/validators';
nimport {AbstractControlFn, FormControl} from '/model';

function isEmptyInputValue(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 (`.`).
 * - `local-part` cannot be longer than 64
 *   characters.
 * - `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
 *   punctuation symbols) that cannot begin or end with a dash (`-`) or a period (`.`) at
 *   periods (`.`).
 * - A `label` cannot be longer than 63 characters.
 * - The whole address cannot be longer than 254 characters.
 *
 * ## Implementation
 *
 * This regexp was ported over from AngularJS (see there for git history):n
 * https://github.com/angular/angular.js/blob/c133ef8363/src/ng/directive/input.js#L27
 * It is based on the
 * [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
 * lengths 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.
 * - Disallow `label` (and hence entire address) length to exceed 63 characters.
 * - The `label` (and hence entire address) cannot begin or end with a dash (`-`) or a period (`.`).
 * - The address cannot be longer than 254 characters.
 *
 * See [Form Validation](https://guide/form-validation) for more details.
 */
const EMAIL_REGEXP =
    /^\s?([-_.a-zA-Z0-9-]+@[a-zA-Z0-9-]+\.[a-zA-Z0-9]+)\s?$/;

/**
 * @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 controls and returns an error map or null. A null map
 * means that validation has passed.
 *
 * @publicApi
 */
export class Validators {
  /**
   * @description
   * Validator that requires the control's value to be greater than or equal to the provided number.
   *
   * @returns A validator function that 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 => {
      if (isEmptyInputValue(control.value) || isEmptyInputValue(min)) {
        return null;  // don't validate empty values to allow optional controls
      }
      const value = parseFloat(control.value);
      // Controls with NaN values after parsing should be treated as not having a
      // minimum, per the HTML Forms spec: https://www.w3.org/TR/html5/forms.html#attr-input-min
      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.
   *
   * @returns A validator function that processes a 'FormControl' or
   * collection of `controls` and returns an error map or null. A null map
   * means that validation has passed.
   * @see [Form Validation](https://guide/form-validation)
   */
  static max(max: number): ValidatorFn {
    return (control: AbstractControl): ValidationErrors | null => {
      if (isEmptyInputValue(control.value) || isEmptyInputValue(max)) {
        return null;  // don't validate empty values to allow optional controls
      }
      const value = parseFloat(control.value);
      return !isNaN(value) && value > max ? {'max': {'max': max, 'actual': control.value}} : null;
    };
  }

  /**
   * @description
   * Validator that requires the control's value to be equal to the provided number.
   *
   * @returns A validator function that processes a 'FormControl' or
   * collection of `controls` and returns an error map or null. A null map
   * means that validation has passed.
   * @see [Form Validation](https://guide/form-validation)
   */
  static equalTo(expected: any): ValidatorFn {
    return (control: AbstractControl): ValidationErrors | null => {
      if (isEmptyInputValue(control.value) || isEmptyInputValue(expected)) {
        return null;  // don't validate empty values to allow optional controls
      }
      return control.value === expected ? null : {'equalTo': {'expected': expected, 'actual': control.value}};
    };
  }

  /**
   * @description
   * Validator that requires the control's value to be less than the provided number.
   * @returns A validator function that processes a 'FormControl' or
   * collection of `controls` and returns an error map or null. A null map
   * means that validation has passed.
   * @see [Form Validation](https://guide/form-validation)
   */
  static lessThan(expected: number): ValidatorFn {
    return (control: AbstractControl): ValidationErrors | null => {
      if (isEmptyInputValue(control.value) || isEmptyInputValue(expected)) {
        return null;  // don't validate empty values to allow optional controls
      }
      const value = parseFloat(control.value);
      return !isNaN(value) && value > expected ? {'lessThan': {'expected': expected, 'actual': control.value}} : null;
    };
  }

  /**
   * @description
   * Validator that requires the control's value to be greater than the provided number.
   * @returns A validator function that processes a 'FormControl' or
   * collection of `controls` and returns an error map or null. A null map
   * means that validation has passed.
   * @see [Form Validation](https://guide/form-validation)
   */
  static greaterThan(expected: number): ValidatorFn {
    return (control: AbstractControl): ValidationErrors | null => {
      if (isEmptyInputValue(control.value) || isEmptyInputValue(expected)) {
        return null;  // don't validate empty values to allow optional controls
      }
      const value = parseFloat(control.value);
      return !isNaN(value) && value < expected ? {'greaterThan': {'expected': expected, 'actual': control.value}} : null;
    };
  }
}
a maximum of 15
const max = 15;

```typescript
const control = new FormControl(16, Validators.max(max));

console.log(control.errors);
// { max: {max: 15, actual: 16} }
```

```typescript
const control = new FormControl(16, Validators.max(15));

console.log(control.errors);
// { max: {max: 15, actual: 16} }
```

```typescript
const control = new FormControl(16, Validators.max(15));

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const control = new FormControl(16, Validators.max(15));

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// { max: {max: 15, actual: 16} }
```

```typescript
const control = new FormControl(16, Validators.max(15));

console.log(control.errors);
// { max: {max: 15, actual: 16} }
```

```typescript
const control = new FormControl(16, Validators.max(15));

console.log(control.errors);
// { max: {max: 15, actual: 16} }
```
export const RADIO_VALUE_ACCESSOR: any = {
  provide: NG_VALUE_ACCESSOR,
  useExisting: forwardRef(() => RadioControlValueAccessor),
  multi: true
};

/**
 * @description
 * Class used by Angular to track radio buttons. For internal use only.
 */
@Injectable()
export class RadioControlRegistry {
  private _accessors: any[] = [];

  /**
   * @description
   * Adds a control to the internal registry. For internal use only.
   */
  add(control: NgControl, accessor: RadioControlValueAccessor) {
    for (let i = this._accessors.length - 1; i >= 0; --i) {
      if (this._accessors[i][1] === accessor) {
        this._accessors.splice(i, 1);
        return;
      }
    }
    this._accessors.push([control, 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) {
    this._accessors.forEach((c) => {
      if (this._isSameGroup(c, accessor) && c[1] !== accessor) {
        c[1].fireUncheck(accessor.value);
      }
    });
  }

  private _isSameGroup(controlPair: [NgControl, RadioControlValueAccessor], accessor: RadioControlValueAccessor): boolean {
    if (!controlPair[0].control) return false;
    return controlPair[0].parent === accessor.control && controlPair[1].name === accessor.name;
  }
}

/**
 * @description
 * The `ControlValueAccessor` for writing radio control values and listening to radio control
 * changes. The value accessor is used by the `FormControlDirective`, `FormControlName`, and
 * `NgModel` directives.
 * ### Using radio buttons with reactive form directives
 * The follow 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`.
 * Providing a `name` attribute is optional.
 * @example forms/ts/reactiveRadioButtons/reactive_radio_button_example.ts region='Reactive'
 */
@Directive({
  selector: '[type=radio][formControlName], [type=radio][formControl], [type=radio][ngModel]',
  host: {'(change)': 'onChange()', '(blur)': 'onTouched()'},
  providers: [RADIO_VALUE_ACCESSOR]
})
export class RadioControlValueAccessor implements ControlValueAccessor,
    OnDestroy, OnInit {
  /** @internal */
  // TODO(issue/24571): remove '!'.
  _state !: boolean;
  /** @internal */
  // TODO(issue/24571): remove '!'.
  _control !: NgControl;
  /** @internal */
  // TODO(issue/24571): remove '!'.
  _fn !: Function;

  /**
   * @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.
   */
  // TODO(issue/24571): remove '!'.
  @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`.
   */
  // TODO(issue/24571): remove '!'.
  @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) {}

  /**
   * Lifecycle method called when the directive 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 "disabled" property on the input element.
   */
  /**
   * Sets the "checked" property 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);
    this._registry.select(this);
    this._registry.remove(accessor);
  }

  /**
   * Registers a function called when the control is touched.
   */
  registerOnTouched(fn: () => {}): void {
    this.onTouched = fn;
    this._renderer.setElementProperty(this._elementRef.nativeElement, 'disabled', this._state);
    this.writeValue(value);
    this._renderer.setElementProperty(this._elementRef.nativeElement, 'checked', this._state);
  }

  /**
   * Registers a function called when the control value changes.
   */
  registerOnChange(fn: (_: any) => {}): void {
    this.onChange = () => {
      fn(this.value);
      this._registry.select(this);
    };
  }

  /**
   * Checks the value of the radio input element.
   */
  /**
   * Enables the radio input element.
   */
  /**
   * Disables the radio input element.
   */
  /**
   * Registers a function called when the control is touched.
   */
  /**
   * Sets the "checked" property on the radio input element.
   */
  /**
   * Sets the "value" on the radio input element and unchecks it.
   */
  /**
   * Sets the "value" on the radio input element.
   */
  /**
   * Sets the "disabled" property on the input element.
   */
  /**
   * Enables the radio input element.
   */
  /**
   * Disables the radio input element.
   */
  /**
   * Registers a function called when the control value changes.
   */
  /**
   * Registers a function called when the control is touched.
   */
  /**
   * Sets the "value" on the radio input element.
   */
  /**
   * Sets the "disabled" property on the input element.
   */
  /**
   * Enables the radio input element.
   */
  /**
   * Disables the radio input element.
   */
  /**
   * Registers a function called when the control value changes.
   */
  /**
   * Registers a function called when the control is touched.
   */
  /**
   * Sets the "value" on the radio input element.
   */
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```typescript
/*
 * 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">
 *   `);
 * }

 * constructor(private _renderer: Renderer2, private _elementRef: ElementRef, publicKeyApi: PublicApi)
 *   {
 *     this._renderer = _renderer;
 *     this._elementRef = _elementRef;
 *   }

 * public onChange = (_: any) => {};

 * public onTouched = () => {};

 * writeValue(value: any): void {
 *   this._renderer.setProperty(this._elementRef.nativeElement, 'value', parseFloat(value));
 * }

 * 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);
 * }

 * FormErrorExamples = {
 *   formControlName: `'
 *     <div formControlName="firstName">
 *   `)
 *   formGroupName: `'
 *     <div formGroupName="person">
 *       <input formControlName="firstName">
 *     </div>
 *   `)
 *   formArrayName: `'
 *     <div *ngFor="let city of cityArray.controls; index as i">
 *       <input [formControlName]="i">
 *     </div>
 *   `)
 *   ngModelGroup: `'
 *     <form>
 *       <div ngModelGroup="person">
 *         <input [formControlName]="firstName">
 *       </div>
 *     </form>
 *   `)
 * };

 * export const RANGE_VALUE_ACCESSOR = from ['/control_value_accessor']
 * export class RangeValueAccessor implements ControlValueAccessor {
 *   /**
 *    * @description
 *    * The registered callback function called when a change or input event occurs on the input
 *    * element.
 *    */
 *   onChange = (_: any) => {};
 * 
 *   /**
 *    * @description
 *    * The registered callback function called when a blur event occurs on the input element.
 *    */
 *   onTouched = () => {};
 * 
 *   /**
 *    * Sets the value property on the input element.
 *    */
 *   writeValue(value: any): void {
 *     void this._renderer.setProperty(this._elementRef.nativeElement, 'value', value);
 *   }
 * 
 *   /**
 *    * Registers a function called when the control value changes.
 *    */
 *   registerOnChange(fn: (_: number|null) => void): void {
 *     this.onChange = (value) => { fn(value == '' ? null : parseFloat(value)); }
 *   }
 * 
 *   /**
 *    * Registers a function called when the control is touched.
 *    */
 *   registerOnTouched(fn: () => void): void {
 *     this.onTouched = fn;
 *   }
 * 
 *   constructor(private _renderer: Renderer2, private _elementRef: ElementRef) {}
 * }
 ```
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 parent that also have a "form" prefix: formGroupName, formArrayName, or formGroup.

    Option 1: Update the parent to be formGroupName (reactive form strategy)

    ${Examples.formGroupName}

    Option 2: Use ngModel instead of formControlName (template-driven strategy)

    ${Examples.ngModelGroup}`);
  }

  static missingFormException(): void {
    throw new Error(`formGroup expects a FormGroup instance. Please pass one in.

    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:

    ${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 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)
    });
    `);
  }

  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.

    More information on this, see our API docs here: https://angular.io/api/forms/${directiveName === 'formControl' ? 'FormControlDirective' : 'FormControlName'}#use-with-ngmodel
    `);
  }
}

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_VALUE_ACCESSOR: StaticProvider = {
  provide: NG_VALUE_ACCESSOR,
  useExisting: forwardRef(() => SelectControlValueAccessor),
  multi: true
};

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);
}

function _extractId(valueString: string): string {
  return valueString.split(':')[0];
}

/**
 * @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:

 * Using select controls in a template-driven form:

 * ```
 * @example forms/ts/reactiveSelectControl/reactive_select_control_example.ts
 * ```

 * Customizing option selection:

 * ```
 * @example forms/ts/selectControl/select_control_example.ts
 * ```

 * 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.

```ts
const selectedCountriesControl = new FormControl();
```
binding to objects.

```typescript
/* */
@Input('ngValue')
set ngValue(value: any) {
  if (this._select == null) return;
  this._select._optionMap.set(this.id, value);
  this._select.writeValue(this._select.value);
}

/* */
@Input('ngModel')
set ngModel(value: any) {
  if (this._select == null) return;
  this._select._optionMap.set(this.id, value);
  this._select.writeValue(this._select.value);
}

/* */
@Input('value')
set value(value: any) {
  if (this._select == null) return;
  this._select._optionMap.set(this.id, value);
  this._select.writeValue(this._select.value);
}

/* */
@Input('ngSelected')
set ngSelected(value: boolean) {
  if (this._select == null) return;
  this._select._optionMap.set(this.id, value);
  this._select.writeValue(this._select.value);
}

/* */
@Input('nativeElement')
set nativeElement(value: any) {
  if (this._select == null) return;
  this._select._optionMap.set(this.id, value);
  this._select.writeValue(this._select.value);
}

/* */
@Input('nativeElementData')
set nativeElementData(value: any) {
  if (this._select == null) return;
  this._select._optionMap.set(this.id, value);
  this._select.writeValue(this._select.value);
}

/* */
@Input('nativeElementValue')
set nativeElementValue(value: any) {
  if (this._select == null) return;
  this._select._optionMap.set(this.id, value);
  this._select.writeValue(this._select.value);
}

/* */
@Input('nativeElementValueMap')
set nativeElementValueMap(value: Map<any, any>) {
  if (this._select == null) return;
  this._select._optionMap.set(this.id, value);
  this._select.writeValue(this._select.value);
}

/* */
@Input('nativeElementMap')
set nativeElementMap(value: Map<any, any>) {
  if (this._select == null) return;
  this._select._optionMap.set(this.id, value);
  this._select.writeValue(this._select.value);
}

/* */
@Input('nativeElementDataMap')
set nativeElementDataMap(value: Map<any, any>) {
  if (this._select == null) return;
  this._select._optionMap.set(this.id, value);
  this._select.writeValue(this._select.value);
}

/* */
@Input('nativeElementValueMap')
set nativeElementValueMap(value: Map<any, any>) {
  if (this._select == null) return;
  this._select._optionMap.set(this.id, value);
  this._select.writeValue(this._select.value);
}

/* */
@Input('nativeElementDataMap')
set nativeElementDataMap(value: Map<any, any>) {
  if (this._select == null) return;
  this._select._optionMap.set(this.id, value);
  this._select.writeValue(this._select.value);
}

/* */
@Input('nativeElementValueMap')
set nativeElementValueMap(value: Map<any, any>) {
  if (this._select == null) return;
  this._select._optionMap.set(this.id, value);
  this._select.writeValue(this._select.value);
}

/* */
@Input('nativeElementDataMap')
set nativeElementDataMap(value: Map<any, any>) {
  if (this._select == null) return;
  this._select._optionMap.set(this.id, value);
  this._select.writeValue(this._select.value);
}
```

`@Input` is used to create input bindings to objects. The `set` function is used to bind values to the objects. The `this._select` object is used to access the current select object. The `writeValue` function is used to write the current value to the select object.

The `ngValue` input binding is used to bind simple string values to the select option element. The `ngModel` input binding is used to bind object values to the select option element. The `value` input binding is used to bind simple string or object values to the select option element.

The `ngSelected` input binding is used to bind boolean values to the select option element. The `nativeElement` input binding is used to bind object values to the select option element. The `nativeElementData` input binding is used to bind object values to the select option element. The `nativeElementValue` input binding is used to bind object values to the select option element.

The `ngValue` input binding is used to bind simple string values to the select option element. The `ngModel` input binding is used to bind object values to the select option element. The `value` input binding is used to bind simple string or object values to the select option element.

The `ngSelected` input binding is used to bind boolean values to the select option element. The `nativeElement` input binding is used to bind object values to the select option element. The `nativeElementData` input binding is used to bind object values to the select option element. The `nativeElementValue` input binding is used to bind object values to the select option element.

The `ngValue` input binding is used to bind simple string values to the select option element. The `ngModel` input binding is used to bind object values to the select option element. The `value` input binding is used to bind simple string or object values to the select option element.
opt._setSelected(ids.indexOf(o.toString()) > -1); };

} else {
  optionSelectedStateSetter = (opt, o) => {
    opt._setSelected(false); };
  }
}

/**
 * Registers a function called when the control value changes and writes an array of the
 * selected options.
 */
*param fn The callback function
*/

registerOnChange(fn: (value: any) => any):

void { fn.onChange = (_) => {
  const opt = any = options.item(i);
  const val = fn(opt);
  opt._setSelected(val);
  this._optionMap.forEach(opt => {
    opt._setSelected(false);
  });
  this.value = selected;
  fn(selected);
};

/**
 * 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);
}

/**
 * Marks `<option>` as dynamic, so Angular can be notified when options change.
 */

@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);
    }
  }

  /**
   * Tracks the value bound to the option element.
   */
  @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);
  }

  /**
   * 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);
    }
  }

  /**
   * 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 {NgSelectMultipleOption} from './ng_select_multiple_option';

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import {ControlValueAccessor} from './control_value_accessor';
import {DefaultValueAccessor} from './default_value_accessor';
import {NgControl} from './ng_control';
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 {FormArrayName} from './reactive_directives/form_group_name';
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]);
  dir.valueAccessor!.writeValue(control.value);

  setUpViewChangePipeline(control, dir);
  setUpModelChangePipeline(control, dir);
  setUpBlurPipeline(control, dir);

  if (dir.valueAccessor!.setDisabledState) {
    control.registerOnDisabledChange(isDisabled: boolean) => {
      dir.valueAccessor!.setDisabledState(isDisabled);
    }
  }

  // re-run validation when validator binding changes, e.g. minlength=3 -> minlength=4
  dir._rawValidators.forEach((validator: Validator) => {
    if (<Validator>validator).registerOnValidatorChange
      (<Validator>validator).registerOnValidatorChange(() => control.updateValueAndValidity());
  });

  dir._rawAsyncValidators.forEach((validator: AsyncValidator) => {
    if (<Validator>validator).registerOnValidatorChange
      (<Validator>validator).registerOnValidatorChange(() => control.updateValueAndValidity());
  });
}

export function cleanUpControl(control: FormControl, dir: NgControl): void {
  dir.valueAccessor!.registerOnChange(() => _noControlError(dir));
  dir.valueAccessor!.registerOnTouched(() => _noControlError(dir));

  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) => {
    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);
  });
}

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 setUpFormContainer(control: FormGroup | FormArray, dir: AbstractFormGroupDirective | FormArrayName): void {
  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 _noControlError(dir: NgControl): void {
  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: ${dir.path.join(' -> ')}`;
  } else if (dir.path ![0]) {
    messageEnd = 'unspecified name attribute';
  } else {
    messageEnd = 'name: ';
  }
}
throw new Error(`${message} ${messageEnd}`);
}

export function composeValidators(validators: Array<Validator|ValidatorFn>): ValidatorFn|null {
  return Validators.compose(validators.map(normalizeValidator)) : null;
}

export function composeAsyncValidators(validators: Array<AsyncValidator|AsyncValidatorFn>): AsyncValidatorFn>null {
  return Validators.composeAsync(validators.map(normalizeAsyncValidator)) : null;
}

export function isPropertyUpdated(changes: {[key: string]: any}, viewModel: any): boolean {
  const change = changes['model'];
  if (!change.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(formGroup, directives: NgControl[]): void {
  formGroup._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;
  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;
  }
}

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* 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
import {AsyncValidatorFn, ValidationErrors, ValidatorFn} from
import {composeAsyncValidators, composeValidators} from
import {Observable} from 'rxjs';
import {composeAsyncValidators, composeValidators} from
import {composeAsyncValidators, composeValidators} from
import {composeAsyncValidators, composeValidators} from

(!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.forEach((control) => {
if (control instanceof FormGroup) {

controlToFind = controlToFind.controls.hasOwnProperty(name as string) ?
controlToFind.controls[name] : null;
} else if (control instanceof FormArray) {

controlToFind = controlToFind.at(<number>name) || null;
} else {

controlToFind = null;
}
});

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 = null; return;

function coerceToAsyncValidator(asyncValidator:
AbstractControlOptions | null): AsyncValidatorFn
null = null; return;

function isOptionsObj(validatorOrOpts?: ValidatorFn
| ValidatorFn[] | AbstractControlOptions | null): boolean {
return validatorOrOpts != null && !Array.isArray(validatorOrOpts) &&
typeof validatorOrOpts === 'object';
}

/**
 * Interface for options provided to an `AbstractControl`.
 *
 * @publicApi
 */
export interface AbstractControlOptions {
  /**
   * The list of validators applied to a control.
   */
  validators?: ValidatorFn|ValidatorFn[]|null;
  /**
   * The list of async validators applied to control.
   */
  asyncValidators?: AsyncValidatorFn|AsyncValidatorFn[]|null;
  /**
   * 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 [Forms Guide](/guide/forms)
 * @see [Reactive Forms Guide](/guide/reactive-forms)
 * @see [Dynamic Forms Guide](/guide/dynamic-form)
 *
 * @publicApi
 */
export abstract class AbstractControl {
  /** @internal */
  // TODO(issue/24571): remove '!'.
  _pendingDirty!: boolean;

  /** @internal */
  // TODO(issue/24571): remove '!'.
  _pendingTouched!: boolean;

  /** @internal */
  // TODO(issue/24571): remove '!'.
  _onCollectionChange = () => {};

  /** @internal */
  // TODO(issue/24571): remove '!'.
  _updateOn!: FormHooks;

  /**
   * The parent control.
   */
  get parent(): FormGroup|FormArray { return this._parent; }

  /**
   * The validation status of the control. There are four possible status values:
   * **VALID**: This control has passed all validation checks.
   * **INVALID**: This control has failed at least one validation check.
   * **PENDING**: This control is in the midst of conducting a validation check.
   * **DISABLED**: This control is exempt from validation checks.
   *
   * These status values are mutually exclusive, so a control cannot be * both valid AND invalid or invalid AND disabled.
   */
}

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A control is 'valid' when its 'status' is 'VALID'.

* @see [AbstractControl.status]

* @returns True if the control has any status other than 'DISABLED'.

* False;
@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.
   * * `markAsTouched(opts: {onlySelf?: boolean} = { }): void { 
   * (this as{touched: boolean}).touched = true; 
   * if (this._parent & & !opts.onlySelf) { 
   * this._parent.markAsTouched(opts); 
   * } 
   * } */
   * Marks the control and all its descendant controls as
   * `touched`. 
   * 
   * @param markAllAsTouched(): void {
   * this._forEachChild((control: AbstractControl) => control.markAllAsTouched()); 
   * } */
   * Marks the control as `untouched`. 
   * 
   * * `onlySelf`: When true, mark only this control. When false or not supplied,
   * marks all direct ancestors. Default is false.
   * * `onlySelf`: When true, mark only this control. When false or not supplied,
   * marks all direct ancestors. Default is false.
   * */
   * Marks the control as `touched`.
   *
   * * `onlySelf`: When true, mark only this control. When false or not supplied,
   * marks all direct ancestors. Default is false.
   * */
   * Marks the control as `dirty`. A control becomes dirty
   * when its `value` is changed through the UI; compare `markAsTouched`.
   * 
   * * `onlySelf`: When true, mark only this control. When false or not supplied,
   * marks all direct ancestors. Default is false.
   * */
   * Marks the control as `pristine`.
   *
   * * `onlySelf`: When true, mark only this control. When false or not supplied,
   * marks all direct ancestors. Default is false.
   * */
   * Marks the control as `pending`.
   *
   * * `onlySelf`: When true, mark only this control. When false or not supplied,
   * marks all direct ancestors. Default is false.
   * */
   * Disables the control. This means the control is exempt
   * from validation checks and
   * * marked as `DISABLED`. When true, mark only this control. When false or not supplied,
   * marks all direct ancestors. Default is false.
parent's dirtiness based on the children.

const skipPristineCheck = this._parentMarkedDirty(opts.onlySelf);

(this as {status: string}).status = DISABLED;

(this as {errors: ValidationErrors | null}).errors = null;

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));

/**
 * Enables the control. This means the control is included in validation checks and
 * the aggregate value of its ancestors. Its status recalculates based on its value and
 * its validators. By default, if the control has children, all children are enabled.
 * @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.
 * * emitEvent*: When false, no events are emitted.
 * * enable(opts: {onlySelf?: boolean, emitEvent?: boolean} = {}): void {
  
  // If parent has been marked artificially dirty we don't want to re-calculate the
  // parent's dirtiness based on the children.
  
  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));
  }

  private _updateAncestors(<...opts, skipPristineCheck>){

  this._onDisabledChange.forEach((changeFn) => changeFn(false));

  })

  private _updateTreeValidity(opts: {emitEvent?: boolean} = {emitEvent: true}) {

    this._forEachChild((ctrl: AbstractControl) => ctrl._updateTreeValidity(opts));

    this.updateValueAndValidity({onlySelf: true, emitEvent: opts.emitEvent});
  }

  private _setInitialStatus() {

    (this as {status: string}).status = this._allControlsDisabled() ? DISABLED : VALID;
  }

  private _runValidator(): ValidationErrors|null {
    return this.validator ? this.validator(this) : null;
  }

  private _runAsyncValidator(emitEvent?: boolean): void {
    if (this.asyncValidator) {
      (this as {status: string}).status = PENDING;
      const obs = toObservable(this.asyncValidator(this));
      this._asyncValidationSubscription =

obs.subscribe((errors: ValidationErrors | null) => this.setErrors(errors, {emitEvent})); void { fn if (this._asyncValidationSubscription) { fn this._asyncValidationSubscription.unsubscribe(); } fn } /* * Sets errors on a form control when running validations manually, rather than automatically. fn * Calling 'setErrors' also updates the validity of the parent control. fn * @usageNotes fn * ### Manually set the errors for a control fn * const login = new FormControl('someLogin'); fn * login.setErrors({ notUnique: true }); fn * fn * expect(login.valid).toEqual(false); fn * expect(login.errors).toEqual({ notUnique: true }); fn */ fn * @usageNotes fn * **/// **/fn * Retrieves a nested control fn * For example, to get a 'name' control nested within a 'person' sub-group: fn * `this.form.get('person.name');` fn */ fn */fn */fn */fn */fn */fn */fn */fn */fn */fn */fn */fn */fn */fn */fn */fn */fn */fn */fn */fn */fn */fn */fn */fn */fn */fn */fn */fn */fn */fn */fn */fn */fn */fn */fn */fn */fn 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constructor(formState: any = null, validatorOrOpts?: ValidatorFn|ValidatorFn[],AbstractControlOptions|null,asyncValidator?: AsyncValidatorFn|AsyncValidatorFn[],null) { /* super */ coercionToValidator(validatorOrOpts,locals) this.applyFormState(formState) this._setUpdateStrategy(validatorOrOpts) this.updateValueAndValidity({onlySelf: true, emitEvent: false}) 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 * and emits events when the value changes * The configuration options are passed to the {AbstractControl#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 control value 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), each change triggers an * `ngModelChange` event to update the model. * `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. * `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.
**Tracks the value and validity state of a group of `FormControl` instances. A `FormGroup` aggregates the values of each child `FormControl` into one object, with each control name as the key. It calculates its status by reducing the status values of its children. For example, if one of the controls in a group is invalid, the entire group becomes invalid. A `FormGroup` is one of the three fundamental building blocks 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: const form = new FormGroup({first: new FormControl(‘Nancy’, Validators.minLength(2)), last: new FormControl(‘Drew’)}); // VALID

### Create a form group with a group-level validator
You include group-level validators as the second argument, or group-level async validators as the third argument. These come in handy when you want to perform validation on the form’s controls that considers the value of more than one control. const form = new FormGroup({password: new FormControl(‘’, Validators.minLength(2)), passwordConfirm: new FormControl(‘’, Validators.minLength(2))}, passwordMatchValidator);

```typescript
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. 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. const c = new FormGroup({one: new FormControl()}); // updateOn: ‘blur’

class FormGroup extends AbstractControl {...


---

**Register a control with the group’s list of controls.** This method does not update the value or validity of the control. You can use `@link FormGroup#addControl addControl` instead.

```typescript
@name The control name to register in the collection

**Set the updateOn property for all controls in a form group.** The updateOn property is set to 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.

```typescript
password: new FormControl(‘’),
passwordConfirm: new FormControl(‘’),
}
```

Like `FormGroup` instances, you choose to pass in validators and async validators as part of an options object. 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.

```typescript
one: new FormControl()
```
control

Provides the control for the given name

```typescript
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()
}
```

### Set the value for a control

```typescript
setValue(value: {
  [key: string]: any
}, options: {
  onlySelf?: boolean,
  emitEvent?: boolean
} = {}):
  void {
    Object.keys(value).forEach(name => {
      if (this.controls[name]) this.controls[name].setValue(value[name], {onlySelf: true, emitEvent: options.emitEvent});
    });
  }

  /**
   * Patches the value of the `FormGroup`. It accepts an object with control
   * names as keys, 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 group without throwing an error.
   * @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 is patched.
   * @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.
   * @returns false for disabled controls, true otherwise.
   * @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'}
   * ```
   *
   * form.setValue({first: 'Nancy', last: 'Drew'});
   * console.log(form.value);   // {first: null, last: null}
   * ```
   *
   * @param value The new value for the control that matches the structure of the group.
   * @param options The configuration options are passed to the `{@link AbstractControl#updateValueAndValidity
   * updateValueAndValidity} method.
   * @returns false for disabled controls, true otherwise.
   * @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: null, last: null}
   * ```
   *
   * form.setValue({first: 'Nancy', last: 'Drew'});
   * console.log(form.value);   // {first: null, last: null}
   * ```
   *
   * @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 is patched.
   * @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.
   * @returns false for disabled controls, true otherwise.
   * @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: null, last: null}
   * ```
   *
   * form.setValue({first: 'Nancy', last: 'Drew'});
   * console.log(form.value);   // {first: null, last: null}
   * ```
   *
   * @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 is patched.
   * @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.
   * @returns false for disabled controls, true otherwise.
   * @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: null, last: null}
   * ```
   *
   * form.setValue({first: 'Nancy', last: 'Drew'});
   * console.log(form.value);   // {first: null, last: null}
   * ```
   *
   * @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 is patched.
   * @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.
   * @returns false for disabled controls, true otherwise.
   * @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: null, last: null}
   * ```
   *
   * form.setValue({first: 'Nancy', last: 'Drew'});
   * console.log(form.value);   // {first: null, last: null}
   * ```
   *
   * @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 is patched.
   * @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.
   * @returns false for disabled controls, true otherwise.
   * @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: null, last: null}
   * ```
   *
   * form.setValue({first: 'Nancy', last: 'Drew'});
   * console.log(form.value);   // {first: null, last: null}
   * ```
   *
   * @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 is patched.
   * @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.
   * @returns false for disabled controls, true otherwise.
   * @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: null, last: null}
   * ```
   *
   * form.setValue({first: 'Nancy', last: 'Drew'});
   * console.log(form.value);   // {first: null, last: null}
   * ```
   *
   * @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 is patched.
   * @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.
   * @returns false for disabled controls, true otherwise.
false, no events are emitted.

The configuration options are passed to the { @link AbstractControl#updateValueAndValidity AbstractControl#updateValueAndValidity } method.

### Reset the form group values

```ts

* @usageNotes

* @n

* ### Reset the form group values

const form = new FormGroup({

first: new FormControl('first name'),

last: new FormControl('last name')
});

* @n

* ### Reset the form group values

console.log(form.value);
```

### Create a form

```ts

FormControl('Nancy', Validators.minLength(2)),

new FormControl('Drew'),

]);

```

### Create an array of form controls

```ts

const arr = new FormArray([

   new 

]);

```
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. The two types of validators are passed in separately as the second and third argument, respectively, or together as part of an options object.

### Set the updateOn property for all controls in a form array

The options object is used to set a default value for each control’s ‘updateOn’ property. If you set ‘updateOn’ to ‘blur’ at the array level, all child controls default to ‘blur’, unless the child control has explicitly specified a different ‘updateOn’ value.

```ts
const arr = new FormArray([new FormControl('Nancy'), new FormControl('Drew')], {validators: myValidator, asyncValidators: myAsyncValidator});
```

### Adding or removing controls from a form array

To change the controls in the array, use the `push`, `insert`, `removeAt` or `clear` method on the `FormArray` itself. These methods ensure the controls are properly tracked in the control 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.

- `push(control: AbstractControl): void` — Adds a new control to the array.
- `insert(index: number, control: AbstractControl): void` — Inserts a control at a specific index.
- `removeAt(index: number): void` — Removes a control at a specific index.
- `setControl(index: number, control: AbstractControl): void` — Replaces an existing control.

### Set the values for the controls in the form array

- `setValue(value: any[], options?: {onlySelf?: boolean, emitEvent?: boolean})`: Sets the value of the form array.

### Length of the control array

- `get length(): number`: Returns the length of the array.

### Getter for the ‘updateOn’ property of the child controls

- `updateValueAndValidity({onlySelf?: boolean, emitEvent?: boolean})`: Updates the value and validity of the form array.

### Example

```ts
const arr = new FormArray([new FormControl(), new FormControl()]);
console.log(arr.value); // [null, null]
arr.setValue(['Nancy', 'Drew']);
console.log(arr.value); // ['Nancy', 'Drew']
```
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](#updateValueAndValidity) method.
* `setValue` and `patchValue` methods allow you to update the values of the controls in the `FormArray`.

### `setValue` Method

```typescript
setValue(value: any[], options: {onlySelf?: boolean, emitEvent?: boolean} = {}): void {
  this._checkAllValuesPresent(value);
  value.forEach((newValue: any, index: number) => {
    this.at(index).setValue(newValue, {onlySelf: true, emitEvent: options.emitEvent});
  });
  this.updateValueAndValidity(options);
}
```

**Usage Notes**

- **OnlySelf**: When false, the `statusChanges` and `valueChanges` observables emit events with the latest status and value when the control value is updated. When true, no events are emitted.
- The configuration options are passed to the [AbstractControl#updateValueAndValidity](#updateValueAndValidity) method.

### `patchValue` Method

```typescript
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);
}
```

**Usage Notes**

- **OnlySelf**: When true, each change only affects this control, and not its parent. Default is false.
- The configuration options are passed to the [AbstractControl#updateValueAndValidity](#updateValueAndValidity) method.

### `reset` Method

```typescript
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);
}
```

**Usage Notes**

- **OnlySelf**: When true, each change only affects this control, and not its parent. Default is false.
- The configuration options are passed to the [AbstractControl#updateValueAndValidity](#updateValueAndValidity) method.

### `getRawValue` Method

```typescript
getRawValue(): any[] {
  return this.controls.map((control: AbstractControl) => {
    return control.instanceof FormControl ? control.value : (<any>control).getRawValue();
  });
}
```

**Usage Notes**

- The aggregate value of the array, including any disabled controls.
- Returns all values regardless of disabled status.
- For enabled controls only, the value property is the best way to get the value of the array.
- For controls that are not part of a `FormArray`, the `value` property is the best way to get the value of the array.
FormArray([\n   new FormControl(),\n   new FormControl()]);\n  *\n  while (arr.length) {\n    arr.removeAt(0);\n  }\n```
The following example shows you how to change the 'updateOn' option from its default using `ngFormOptions`.

```html
<form [ngFormOptions]="{updateOn: 'blur'}">
  <input name="one" ngModel>
</form>
```

### Native DOM validation UI

In order to prevent the native DOM form validation UI from interfering with Angular's form validation, Angular automatically adds the 'novalidate' attribute on any `<form>` whenever `*Module` 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:

```html
<form *ngNativeValidate>
  ...
</form>
```

### Lifecycle method called after the view is initialized.

For internal use only.

```typescript
ngAfterViewInit() { this._setUpdateStrategy(); }
```

### Returns a map of the controls in this group.

```typescript
get controls(): {[key: string]: AbstractControl} { return this.form.controls; }
```
container.removeControl(dir.name);  
}

/**
 * @description
 * Sets the new value for the provided `NgControl` directive.
 * @param dir The `NgControl` directive instance.
 * @param value The new value for the directive's control.
 * @return void
 */
updateModel(dir: NgControl, value: any): void {  
  const ctrl = <FormControl>this.form.get(dir.path !);
  ctrl.setValue(value);  
  }

  /**
   * @description
   * Retrieves the `FormGroup` for a provided `NgModelGroup` directive instance.
   * @param dir The `NgModelGroup` directive instance.
   * @return FormGroup
   */
getFormGroup(dir: NgModelGroup): FormGroup {  
  return <FormGroup>this.form.get(dir.path !);  
}

  /**
   * Method called when the \"submit\" event is triggered on the form.
   * Triggers the \"ngSubmit\" emitter to emit the \"submit\" event as its payload.
   * @param event The \"submit\" event object.
   */
onSubmit(event: Event): boolean {  
  return false;
  }

  /**
   * Method called when the \"reset\" event is triggered on the form.
   */
onReset(): void {  
  this.resetForm();  
}

  /**
   * Resets the form to an initial value and resets its submitted status.
   * @param value The new value for the form.
   */
resetForm(value: any = undefined): void {  
  this.form.reset(value);
  (this as{submitted: boolean}).submitted = false;
}

  /** @internal */
  _findContainer(path: string[]): FormGroup {  
    path.pop();
    return path.length ?  
      <FormGroup>this.form.get(path) : this.form;
}
}

import {OnDestroy, OnInit} from '@angular/core';

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 {  
  /**
   * The parent control for the group
   * @internal
   */
  _parent !: ControlContainer;

  /**
   * An array of synchronous validators for the group
   * @internal
   */
  _validators !: any[];

  /**
   * An array of async validators for the group
   * @internal
   */
  _asyncValidators !: any[];

  /**
   * The parent control for the group
   * @internal
   */
  ngOnInit(): void {  
    this._checkParentType();
    this.formDirective !.addFormGroup(this);
}

  /**
   * An internal callback method triggered before the instance is destroyed.
   * Removes the group from its parent group.
   */
  ngOnDestroy(): void {  
    if (this.formDirective) {
      this.formDirective.removeFormGroup(this);
    }
}

  /**
   * The `FormGroup` bound to this directive.
   */
  get control(): FormGroup {  
    return this.formDirective !.getFormGroup(this);
  }

  /**
   * The path to this group from the top-level directive.
   */
  get path(): string[] {  
    return controlPath(this.name == null ? this.name : this.name.toString(), this._parent);
  }

  /**
   * The top-level directive for this group if present, otherwise null.
   */
  get formDirective(): Form {  
    return this.formDirective !.getFormGroup(this);
  }

  /**
   * The synchronous validators registered with this group.
   */
  get asyncValidators(): AsyncValidatorFn[] {  
    return this.asyncValidators !.asyncValidators;
  }

  /**
   * The async validators registered with this group.
   */
  get validators(): ValidatorFn[] {  
    return this.validators !.validators;
  }

  /** @internal */
  _checkParentType(): void {  
    if (this.formDirective) {
      this.formDirective.removeFormGroup(this);
    }
  }
}

/**
 * @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 {FormErrorExamples as Examples} from './error_examples';

export class TemplateDrivenErrors {  
  static modelParentException(): void {  
    throw new Error(`
      ngModel cannot be used to register form controls
      `);
  }
}

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with a parent formGroup directive. Try using `formGroupName` instead. Example:

```javascript
  ${Examples.formGroupName}
```

Or, if you'd like to avoid registering this form control, indicate that it's standalone in ngModelOptions.

```javascript
  Option 1: Use formControlName instead of ngModel (reactive strategy):

  ${Examples.formControlName}
  Option 2: Update ngModel's parent be ngModelGroup (template-driven strategy):

  ${Examples.ngModelGroup}
```

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.

```javascript
  Option 1: Use formControlName instead of ngModelGroup (reactive strategy):

  ${Examples.formGroupName}

  Option 2: Use a regular form tag instead of the formGroup directive (template-driven strategy):

  ${Examples.ngModelGroup}
```

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Usage Notes:

- Use this source code is governed by an MIT-style license that can be found in the LICENSE file as provided by the Angular team.
- This code is distributed as part of the Angular framework.

### Consuming controls in a grouping

The following example shows you how to combine controls together in a sub-group of the form:

```typescript
  class Component {
    constructor(private form: FormGroup) {
      this.firstName = new FormControl();
    }
  }
```

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.

If you need direct access, export the directive into a local template variable using `ngModelGroup` (ex: `#myGroup="ngModelGroup"`).

```typescript
  class MyComponent {
    constructor(private form: FormGroup) {
      this.firstName = new FormControl();
    }
  }
```

The name corresponds to a key in the parent

```typescript
  class ParentComponent {
    constructor(private form: FormGroup) {
      this.firstName = new FormControl();
    }
  }
```

Provide a name for the sub-group and it will become the key for the sub-group in the form's full value.

```typescript
  class SubComponent {
    constructor(private form: FormGroup) {
      this.firstName = new FormControl();
    }
  }
```

This directive can only be used as a child of `NgForm` (within `<form>` tags). 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.

If you need direct access, export the directive into a local template variable using `ngModelGroup` (ex: `#myGroup="ngModelGroup"`).

```typescript
  class MyComponent {
    constructor(private form: FormGroup) {
      this.firstName = new FormControl();
    }
  }
```
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//ng_control';
import {NgForm} from '//ng_form'\nimport {NgModelGroup} from '//ng_model_group'\nimport {composeAsyncValidators, composeValidators, controlPath, isPropertyUpdated, selectValueAccessor, setUpControl} from '//shared'\nimport {TemplateDrivenErrors} from '//template_driven_errors'\nimport {AsyncValidator, AsyncValidatorFn, Validator, ValidatorFn} from '//validators'\n
export const formControlBinding: any = {
  provide: NgControl,
  useExisting: forwardRef(() => NgModel)
};

/**
 * `ngModel` forces an additional change detection run when its inputs change in. E.g. * `\n * `myModel` 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 in to have and old value as they have been in dirty checked before. As this is very new for `ngModel`, we added this second change in * detection run. * 
 * Notes: in - this is just one extra run no matter how many `ngModel` have been changed.in - this is a general problem when using `exportAs` for directives.in * 
 * `ResolvedPromise = (i) =>
 Promise.resolve(null));

/**
 * @description
 * Creates a `FormControl` instance from a domain model and binds it to a form control element. * The `FormControl` instance tracks the value, user interaction, and in validation status of the control and keeps the view synced with the model. If used in within a parent form, the directive also registers itself with the form as a child in * control. * This directive is used by itself or as part of a larger form. Use the in * `ngModel` selector to activate it. * It accepts a domain model as an optional `Input`. * 
 * If you have a one-way binding in to `ngModel` with `[]` syntax, changing the value of the domain model in the component in class sets the value in the view. If you have a two-way binding with `[()]` syntax in (also known as `banana-box 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), `*` export the directive into a local template variable using `ngModel` as the key (ex: `#myVar=ngModel`). * You then access the control using the directive's `control` property, in 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 in * The following examples show a simple standalone control using `ngModel': in *`[@example forms/ts/simpleNgModel/simple_ng_model_example.ts region='Component'] in *
 * When using the `ngModel` within `<form>` tags, you'll also need to supply a `name` attribute in 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, in as the parent form syncs the value for you. You access its properties by exporting it into a `local template variable using `ngForm` such as ( '#in\n`\``). Use the variable where in * needed on form submission. * If you do not need to populate initial values into your form, using a one-way binding form `* `ngModel` tends to be sufficient as long as you use the exported form's value rather than the domain model's value on submit. * 
 * Setting the ngModel name attribute through options in * The following example shows controls using `ngModel` within a form:

* 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 `local template variable using `ngForm` such as ( '#in\n`\``). Use the variable where in * needed on form submission. * If you do not need to populate initial values into your form, using a one-way binding form `* `ngModel` tends to be sufficient as long as you use the exported form's value rather than the domain model's value on submit. *
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```typescript
private _setUpControl(): void {
    this.valueAccessor = selectValueAccessor(this, valueAccessors);
    super();
    this._parent = parent;
    this._rawValidators = validators || [];
    this._rawAsyncValidators = asyncValidators || [];
    this.viewToModelUpdate(newValue: any): void {
      this.viewModel
        `ngModelChange`.
        ```
```
```typescript
    this._setUpdateStrategy();
    this._isStandalone() ? this._setUpStandalone() :
    this.formDirective.addControl(this);
    this._registered = true;
  }

  private
  _setUpdateStrategy(): void {
    if (this.options && this.options.updateOn != null) {
      this.control._updateOn = this.options.updateOn;
    }
  }

  private _isStandalone(): boolean {
    return !this._parent || !!(this.options && this.options.standalone);
  }

  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();
      }
    });
  }
}
```
Now deprecated:

```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/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 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 forms (and get/set values using reactive forms patterns) or switch to template-driven directives. In choice 1 - use reactive forms:

```html
<input [formControl]='control'>
```

```ts
this.control.setValue('some value');
```

In 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 development 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 of `"always"`. This may help to track down where in the code the pattern is being used as the code is being updated.

```ts
exports: [
  FormControlDirective
]
```
FormControlDirective, this, this._ngModelWarningConfig);\n
this.form.setValue(this.model);\n
this.viewModel = this.model;\n
}\n
}\n\n
/**\n
* @description\n
*
Returns an array that represents the path from the top-level form to this control.\n
* Each index is the string
name of the control on that level.\n
*/\n
get path(): string[] { return []; }\n\n
/**\n
* @description\n
* Synchronous validator function composed of all the synchronous validators\n
*
registered with this directive.\n
*/\n
get validator(): ValidatorFn|null { return
composeValidators(this._rawValidators); }\n\n
/**\n
* @description\n
* Async validator
function composed of all the async validators registered with this\n
* directive.\n
*/\n
get
asyncValidator(): AsyncValidatorFn|null {\n
return
composeAsyncValidators(this._rawAsyncValidators);\n
}\n\n
/**\n
* @description\n
* The `FormControl` bound to this directive.\n
*/\n
get control(): FormControl { return this.form;
}\n\n
/**\n
* @description\n
* Sets the new value for the view model and emits an
`ngModelChange` event.\n
*\n
* @param newValue The new value for the view model.\n
*/\n
viewToModelUpdate(newValue: any): void {\n
this.viewModel = newValue;\n
this.update.emit(newValue);\n
}\n\n
private _isControlChanged(changes: {[key: string]: any}):
boolean {\n
return changes.hasOwnProperty('form');\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 {Directive, EventEmitter, Inject, Input,
OnChanges, Optional, Output, Self, SimpleChanges, forwardRef} from '@angular/core';\nimport {FormArray,
FormControl, FormGroup} from '../../model';\nimport {NG_ASYNC_VALIDATORS, NG_VALIDATORS,
Validators} from '../../validators';\nimport {ControlContainer} from '../control_container';\nimport {Form} from
'../form_interface';\nimport {ReactiveErrors} from '../reactive_errors';\nimport {cleanUpControl,
composeAsyncValidators, composeValidators, removeDir, setUpControl, setUpFormContainer,
syncPendingControls} from '../shared';\n\nimport {FormControlName} from './form_control_name';\nimport
{FormArrayName, FormGroupName} from './form_group_name';\n\nexport const formDirectiveProvider: any = {\n
provide: ControlContainer,\n useExisting: forwardRef(() => FormGroupDirective)\n};\n\n/**\n * @description\n
*\n * Binds an existing `FormGroup` to a DOM element.\n *\n * This directive accepts an existing `FormGroup`
instance. It will then use this\n * `FormGroup` instance to match any child `FormControl`, `FormGroup`,\n * and
`FormArray` instances to child `FormControlName`, `FormGroupName`,\n * and `FormArrayName` directives.\n *
\n * @see [Reactive Forms Guide](guide/reactive-forms)\n * @see `AbstractControl`\n *\n * ### Register Form
Group\n *\n * The following example registers a `FormGroup` with first name and last name controls,\n * and
listens for the *ngSubmit* event when the button is clicked.\n *\n * {@example
forms/ts/simpleFormGroup/simple_form_group_example.ts region='Component'}\n *\n * @ngModule
ReactiveFormsModule\n * @publicApi\n */\n@Directive({\n selector: '[formGroup]',\n providers:
[formDirectiveProvider],\n host: {'(submit)': 'onSubmit($event)', '(reset)': 'onReset()'},\n exportAs:
'ngForm'\n})\nexport class FormGroupDirective extends ControlContainer implements Form,\n OnChanges {\n
/**\n * @description\n * Reports whether the form submission has been triggered.\n */\n public readonly
submitted: boolean = false;\n\n // TODO(issue/24571): remove '!'.\n private _oldForm !: FormGroup;\n\n /**\n *
@description\n * Tracks the list of added `FormControlName` instances\n */\n directives: FormControlName[] =
[];\n\n /**\n * @description\n * Tracks the `FormGroup` bound to this directive.\n */\n @Input('formGroup')
form: FormGroup = null !;\n\n /**\n * @description\n * Emits an event when the form submission has been
triggered.\n */\n @Output() ngSubmit = new EventEmitter();\n\n constructor(\n
@Optional() @Self()
@Inject(NG_VALIDATORS) private _validators: any[],\n
@Optional() @Self()
@Inject(NG_ASYNC_VALIDATORS) private _asyncValidators: any[]) {\n super();\n }\n\n /**\n *
@description\n * A lifecycle method called when the directive's inputs change. For internal use only.\n *\n *
@param changes A object of key/value pairs for the set of changed inputs.\n */\n ngOnChanges(changes:
SimpleChanges): void {\n this._checkFormPresent();\n if (changes.hasOwnProperty('form')) {\n
this._updateValidators();\n
this._updateDomValue();\n
this._updateRegistrations();\n }\n }\n\n /**\n *

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@description
* Returns this directive's instance.
*/
get formDirective(): Form { return this; }
/**
* Returns the 'FormGroup' bound to this directive.
*/
get control(): FormGroup { return this.form; }
/**
* 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 []; }
/**
* 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.
*/
addControl(dir: FormControlName): void {
  removeControl(dir: FormControlName): void {
    void(<FormGroupName>this.form.get(dir.path));
  }
  getFormGroup(dir: FormGroupName): FormGroup { return <FormGroup>this.form.get(dir.path); }
  addFormGroup(dir: FormGroupName): void {
    setUpFormContainer(ctrl, dir);
    ctrl.updateValueAndValidity({emitEvent: false});
    this.form._updateTreeValidity({emitEvent: false});
  }
  /**
   * An op method to remove the form.
   *
   * @param dir The 'FormGroupName' directive instance.
   */
  removeFormGroup(dir: FormGroupName): void {
    const ctrl: any = this.form.get(dir.path);
    setUpFormContainer(ctrl, dir);
    ctrl.updateValueAndValidity({emitEvent: false});
    this.form._updateTreeValidity({emitEvent: false});
  }
  /**
   * No-op method to remove the form array.
   *
   * @param dir The 'FormArrayName' directive instance.
   */
  removeFormArray(dir: FormArrayName): void {
    const ctrl: any = this.form.get(dir.path);
    setUpFormContainer(ctrl, dir);
    ctrl.updateValueAndValidity({emitEvent: false});
    this.form._updateTreeValidity({emitEvent: false});
  }
  /**
   * Sets the new value for the provided 'FormArrayName'
directive.
   *
   * @param dir The 'FormArrayName' directive instance.
   * @param value The new value for the directive's control.
   */
  updateModel(dir: FormControlName, value: any): void {
    const ctrl = this.form.get(dir.path);
    ctrl.setValue(value);
  }
  /**
   * Method called with the 'submit' event is triggered on the form.
   * Triggers the `ngSubmit` emitter to emit the 'submit' event
   * as its payload.
   *
   * @param $event The 'submit' event object
   */
  onSubmit($event: Event): boolean {
    (this as{submitted: boolean}).submitted = true;
    syncPendingControls(this.form, this.directives);
    this.ngSubmit.emit($event);
    return false;
  }
  /**
   * Method called when the 'reset'
   * event is triggered on the form.
   */
  onReset(): void { this.resetForm(); }
  /**
   * Resets the form to an initial value and resets its submitted status.
   *
   * @param value The new value for the form.
   */
  resetForm(value: any = undefined): void {
    this.form.reset(value);
    (this as{submitted: boolean}).submitted = false;
    this._updateDomValue();
  }
Validators.composeAsync((this.form.asyncValidator !, async !));
  }

  private _checkFormPresent() {
    if (this.form) {
      ReactiveErrors.missingFormException();
    }
  }

  // Other code...

import {Directive, Host, Inject, Input, OnDestroy, OnInit, Optional, SkipSelf, forwardRef} from '@angular/core';
import {FormGroupDirective} from './form_group_directive';
import {AbstractFormGroupDirective} from './abstract_form_group_directive';
import {FormArray} from '@angular/forms';
import {NG_ASYNC_VALIDATORS, NG_VALIDATORS} from '@angular/forms';
import {AbstractControl} from '@angular/forms';
import {ReactiveErrors} from '../reactive_errors';
import {composeAsyncValidators, composeValidators, controlPath} from '../shared';
import {FormGroupDirective} from './form_group_directive';
import {FormArrayDirective} from '.form_array_directive';

/**
 * @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 {AbstractFormGroupDirective} from './abstract_form_group_directive';

/**
 * @description
 *
 * Sets a name on a `FormGroup`.
 *
 * The following example sets a name on a `FormGroup`:
 *
 * ```ts
 *   this.form.groupName = 'example';
 * ```
 *
 * @param {string} name - The name on the `FormGroup`.
 *
 * @ngModule ReactiveFormsModule
 * @publicApi
 */
@Directive({selector: '[groupName]'},
            providers: [AbstractFormGroupDirective])
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.
   */
  name: string | number | null;

  // Other code...

/**
 * @description
 *
 * Sets a name on a `FormArray`.
 *
 * The following example sets a name on a `FormArray`:
 *
 * ```ts
 *   this.form.arrayName = 'example';
 * ```
 *
 * @param {string} name - The name on the `FormArray`.
 *
 * @ngModule ReactiveFormsModule
 * @publicApi
 */
@Directive({selector: '[arrayName]'},
            providers: [AbstractControl])
export class FormArrayName extends AbstractControl 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.
   */
  name: string | number | null;

  // Other code...
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[]) {

  super(); *
  this._parent = parent; *
  this._validators = validators; *

  this._asyncValidators = asyncValidators; *
} *

this._checkParentType(): void { *
  if (_hasInvalidParent(this._parent)) { *
    ReactiveErrors.arrayParentException(); *
  }
}

private _hasInvalidParent(parent: ControlContainer): boolean { *
  return !(parent instanceof FormGroupName) && !(parent instanceof FormGroupDirective) && *
  !(parent instanceof FormArrayName); *
}

/**
 * @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 form group
 * and set their value. *
 * 
 * `{example forms/ts/simpleFormGroup/simple_form_group_example.ts region='Component'}
 * 
 * To see `formControlName` examples with different form control types, see:
 * * Radio buttons: *RadioControlValueAccessor* *
 * * Selects: *SelectControlValueAccessor*
 * 
 * ### 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.

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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/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 on * 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 on * either strategy. Setting the value in the template violates the template-agnostic on * principles behind reactive forms, whereas adding a `FormControl`/`FormGroup` layer on * the class removes the convenience of defining forms in the template. on * To update your code before support is removed, you’ll want to decide whether to stick with on * reactive form directives (and get/set values using reactive forms patterns) or switch over to on * template-driven directives.

By default, when you use this pattern, you will see a deprecation warning once in dev on * 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.withConfig({warnOnNgModelWithFormControl: 'never'})],
  declarations: [AppComponent],
  providers: [],
  bootstrap: [AppComponent]
})
export class AppModule {
  // ...
}
```

Alternatively, you can choose to surface a separate warning for each instance of this on * pattern with a config value of `'always'`. This may help to track down where in the code on * the pattern is being used as the code is being updated.

The name in the form of a string is useful for individual forms, on * while the numerical form allows for form controls to be bound on * to indices when iterating over controls in a `FormArray`. on * To update your code before support is removed, you’ll want to decide whether to stick with on * reactive form directives (and get/set values using reactive forms patterns) or switch over to on * template-driven directives.

By default, when you use this pattern, you will see a deprecation warning once in dev on * 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.withConfig({warnOnNgModelWithFormControl: 'never'})],
  declarations: [AppComponent],
  providers: [],
  bootstrap: [AppComponent]
})
export class AppModule {
  // ...
}
```

Alternatively, you can choose to surface a separate warning for each instance of this on * pattern with a config value of `'always'`. This may help to track down where in the code on * the pattern is being used as the code is being updated.
For internal use only.

```typescript
ngOnChanges(changes: SimpleChanges): void {
  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);
    this.update.emit(this.model);
  }
}
```

```typescript
ngOnDestroy(): void {
  if (this.formDirective) {
    this.formDirective.removeControl(this);
  }
}
```

```typescript
viewToModelUpdate(newValue: any): void {
  this.viewModel = newValue;
  this.update.emit(newValue);
}
```

```typescript
get path(): string[] {
  return controlPath(this.name == null ? this.name : this.name.toString(), this._parent !);
}
```

```typescript
get formDirective(): any { return this._parent ? this._parent.formDirective : null; }
```

```typescript
get validator(): ValidatorFn|null { return composeValidators(this._rawValidators); }
```

```typescript
get asyncValidator(): AsyncValidatorFn {
  return composeAsyncValidators(this._rawAsyncValidators) !;
}
```

```typescript
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();
  }
}
```

```typescript
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;
}
```

```typescript
```
return observableOf({'custom': true});

```javascript

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>;
}

/**
 * Provider which adds `RequiredValidator` to the `NG_VALIDATORS` multi-provider list.
 */
export const REQUIRED_VALIDATOR: StaticProvider = {
  provide: NG_VALIDATORS,
  useExisting: forwardRef(() => RequiredValidator),
  multi: true,
  /**
   * @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;
  }
}

/**
 * Provider which adds `CheckboxRequiredValidator` to the `NG_VALIDATORS` multi-provider list.
 */
export const CHECKBOX_REQUIRED_VALIDATOR: StaticProvider = {
  provide: NG_VALIDATORS,
  useExisting: forwardRef(() => CheckboxRequiredValidator),
  multi: true,
  /**
   * @description
   * Method that validates whether or not the checkbox has been checked.
   * Returns the validation result if enabled, otherwise null.
   */
  validate(control: AbstractControl): ValidationErrors|null {
    return this._required ? Validators.requiredTrue(control) : null;
  }
}

/**
 * Provider which adds `EmailValidator` to the `NG_VALIDATORS` multi-provider list.
 */
export const EMAIL_VALIDATOR: any = {
  provide: NG_VALIDATORS,
  useExisting: forwardRef(() => EmailValidator),
  multi: true,
  /**
   * @description
   * Method that adds an email validator to an input attached to an ngModel binding.
   * Returns the validation result if enabled, otherwise null.
   */
  validate(control: AbstractControl): ValidationErrors|null {
    return this._required ? ErrorValidators.email(control) : null;
  }
}
@NgModule(ReactiveFormsModule)
export class EmailValidator implements Validator {
  // TODO(issue/24571):
  remove '!'
  private _enabled!: boolean
  // TODO(issue/24571): remove '!
  private _onChange!: () => void
  /**
   * @description
   * Tracks changes to the email attribute bound to this directive.
   */
  @Input() set email(value: boolean|string) {
    this._enabled = value === '' || value === true || value === 'true';
    if (this._onChange) this._onChange();
  }

  /**
   * @description
   * Method that validates whether an email address is valid.
   * Returns the validation result if enabled, otherwise null.
   */
  validate(control: AbstractControl): ValidationErrors|null {
    return this._enabled ? Validators.email(control) : null;
  }

  /**
   * @description
   * Registers a callback function to call when the validator inputs change.
   */
  registerOnValidatorChange(fn: () => void) {
    this._onChange = fn;
  }
}

/**
 * @description
 * A function that receives a control and synchronously returns a map of validation errors if present, otherwise null.
 * @publicApi
 */
export interface ValidatorFn {
  (control: AbstractControl): ValidationErrors|null;
}

/**
 * @description
 * A function that receives a control and returns a Promise or observable that emits validation errors if present, otherwise null.
 * @publicApi
 */
export interface AsyncValidatorFn {
  (control: AbstractControl): Promise<ValidationErrors|null>|
  Observable<ValidationErrors|null>;
}

/**
 * @description
 * Provider which adds `MinLengthValidator` to the 'NG_VALIDATORS' multi-provider list.
 */
export const MIN_LENGTH_VALIDATOR: any = {
  provide: NG_VALIDATORS,
  useExisting: forwardRef(() => 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.
 */
@Directive({
  selector: '[minlength][formControlName], [minlength][formControl], [minlength][ngModel]',
  providers: [MIN_LENGTH_VALIDATOR],
  host: {'[attr.minlength]': 'minlength ? minLength : null'}
})
export class MinLengthValidator implements Validator,
    OnChanges {
  // TODO(issue/24571): remove '!'.
  private _validator!: ValidatorFn;
  // TODO(issue/24571): remove '!'.
  private _onChange!: () => void;

  /**
   * @description
   * Tracks changes to the minimum length bound to this directive.
   */
  @Input() minlength!: 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 ('minlength' in changes) {
      this._createValidator();
      if (this._onChange) this._onChange();
    }
  }

  /**
   * Method that validates whether the value meets a minimum length requirement.
   * Returns the validation result if enabled, otherwise null.
   */
  validate(control: AbstractControl): ValidationErrors|null {
    return this.minlength == null ? null : this._validator(control);
  }

  /**
   * Registers a callback function to call when the validator inputs change.
   */
  registerOnValidatorChange(fn: () => void) {
    this._onChange = fn;
  }

  private _createValidator(): void {
    this._validator = Validators.minLength(
        typeof this.minlength === 'number' ? this.minlength : parseInt(this.minlength, 10));
  }
}

/**
 * @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
};

/**
 * A directive that adds max length validation to controls marked with the `maxlength` attribute. The directive is provided with the 'NG_VALIDATORS' multi-provider list.
 */
@Directive({
  selector: '[maxlength][formControlName], [maxlength][formControl], [maxlength][ngModel]',
  providers: [MAX_LENGTH_VALIDATOR],
  host: {'[attr.maxlength]': 'maxLength ? maxLength : null'}
})
export class MaxLengthValidator implements Validator,
    OnChanges {
  // TODO(issue/24571): remove '!'.
  private _validator!: ValidatorFn;
  // TODO(issue/24571): remove '!'.
  private _onChange!: () => void;

  /**
   * 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();
    }
  }

  /**
   * Method that validates whether the value meets a maximum length requirement.
   * Returns the validation result if enabled, otherwise null.
   */
  validate(control: AbstractControl): ValidationErrors|null {
    return this.maxlength == null ? null : this._validator(control);
  }

  /**
   * Registers a callback function to call when the validator inputs change.
   */
  registerOnValidatorChange(fn: () => void) {
    this._onChange = fn;
  }

  private _createValidator(): void {
    this._validator = Validators.maxLength(
        typeof this.maxLength === 'number' ? this.maxLength : parseInt(this.maxLength, 10));
  }
}
```typescript
@Directive({
  selector: '[maxlength][formControlName], [maxlength][formControl], [maxlength][ngModel]',
  providers: [MAX_LENGTH_VALIDATOR],
  host: {'[attr.maxlength]': 'maxlength ? maxlength : null'}
})
export class MaxLengthValidator implements Validator, OnChanges {
  // TODO(issue/24571): remove '!'.
  private _validator: ValidatorFn;
  // TODO(issue/24571): remove '!'.
  private _onChange: () => void;

  /**
   * @description
   * Tracks changes to the maximum length bound to this directive.
   */
  constructor()
  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' ? parseFloat(this.maxlength) : parseInt(this.maxlength, 10));
  }
}

/**
 * @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 {
  void (this._createValidator());
}

/**
 * @description
 * A directive that adds regex pattern validation to controls marked with the
 * `pattern` attribute. The regex must match the entire
 * control value.
 */
@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;

  /**
   * @description
   * Tracks changes to the pattern bound to this directive.
   */
  constructor()
  validate(control: AbstractControl): ValidationErrors | null {
    return this._validator(control);
  }

  registerOnValidatorChange(fn: () => void): void {
    this._onChange = fn;
  }

  private _createValidator(): void {
    this._validator = Validators.pattern(this.pattern);
  }
}
```

import {FormControlDirective} from './directives/reactive_directives/form_control_directive';
import {FormControlName} from './directives/reactive_directives/form_control_name';
import {FormGroupDirective} from './directives/reactive_directives/form_group_directive';
import {FormArrayName, FormGroupName} from './directives/reactive_directives/form_group_name';
import {NgSelectOption, SelectControlValueAccessor} from './directives/select_control_value_accessor';
import {NgSelectMultipleOption, SelectMultipleControlValueAccessor} from './directives/select_multiple_control_value_accessor';
import {CheckboxRequiredValidator, EmailValidator, MaxLengthValidator, MinLengthValidator, PatternValidator, RequiredValidator} from './directives/validators';

export {CheckboxControlValueAccessor} from './directives/checkbox_value_accessor';
export {ControlValueAccessor} from './directives/control_value_accessor';
export {DefaultValueAccessor} from './directives/default_value_accessor';
export {NgControl} from './directives/ng_control';
export {NgControlStatus, NgControlStatusGroup} from './directives/ng_control_status';
export {NgControlStatusGroup} from './directives/ng_model_group';
export {NumberValueAccessor} from './directives/number_value_accessor';
export {RadioControlValueAccessor} from './directives/radio_control_value_accessor';
export {RangeValueAccessor} from './directives/range_value_accessor';
export {NgModule} from './directives/ng_module';

export const SHARED_FORM_DIRECTIVES: Type<any>[] = [
  NgNoValidate,
  NgSelectOption,
  NgSelectMultipleOption,
  DefaultValueAccessor,
  NumberValueAccessor,
  RangeValueAccessor,
  CheckboxControlValueAccessor,
  SelectControlValueAccessor,
  SelectMultipleControlValueAccessor,
  RadioControlValueAccessor,
  NgControlStatus,
];

export const TEMPLATE_DRIVEN_DIRECTIVES: Type<any>[] = [NgModel, NgModelGroup, NgForm];

export const REACTIVE_DRIVEN_DIRECTIVES: Type<any>[] = [FormGroupDirective, FormControlName, FormGroupName, FormArrayName];

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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 `FormGroup`, `FormArray`, or `FormControl`. It reduces the amount of boilerplate needed to build complex forms.
 *
 * @see [Reactive Forms Guide](/guide/reactive-forms)
 */
@Injectable()
export class FormBuilder {
  /**
   * @description
   * Construct a new `FormBuilder` instance.
   *
   * @param
   */

  @NgModule({
    declarations: SHARED_FORM_DIRECTIVES,
    exports:
    SHARED_FORM_DIRECTIVES,
  })
export class FormBuilderSharedModule {
  /**
   * @description
   * Extend the `FormBuilder` class with additional methods.
   *
   * @param
   */

  constructor(private builder: FormBuilder) {
    this.builder.buildFormGroups();
  }

  buildFormGroups() {
    const groups = new Map<string, FormGroup>();
    groups.set('FooGroup', this.builder.group({
      'name': new FormControl(''),
      'email': new FormControl(''),
    }));
    groups.set('BarGroup', this.builder.group({
      'age': new FormControl(0),
      'postal': new FormControl('', [Validators.required, Validators.minLength(5)]),
    }));
    this.builder.group({
      'groups': new FormArray(groups.values()),
    });
  }

  buildForm() {
    return this.builder.group({
      'groups': new FormArray([this.builder.group({
        'name': new FormControl(''),
        'email': new FormControl(''),
      })]),
    });
  }
}

export {ɵInternalFormsSharedModule as InternalFormsSharedModule};

```
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

* 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

* @param options Configuration options object for the `FormGroup`. The object can
* have two shapes:
  * `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

* or:
  * `ValidatorFn` or `AsyncValidatorFn` or `AbstractControlOptions` or `null` or `undefined`

* @param options Configuration options object for the `FormGroup`. The object can
* have two shapes:
  * `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

* or:
  * `ValidatorFn` or `AsyncValidatorFn` or `AbstractControlOptions` or `null` or `undefined`

* @param options Configuration options object for the `FormGroup`. The object can
* have two shapes:
  * `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

* or:
  * `ValidatorFn` or `AsyncValidatorFn` or `AbstractControlOptions` or `null` or `undefined`

* @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

* @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

* @param formState Initializes the control with an initial state value, or
  * with an object that contains both a value and a disabled status.
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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 */

import {ModuleWithProviders, NgModule} from '@angular/core';

import {InternalFormsSharedModule, NG_MODEL_WITH_FORM_CONTROL_WARNING, REACTIVE_DRIVEN_DIRECTIVES, TEMPLATE_DRIVEN_DIRECTIVES} from '@/directives';
export {RadioControlRegistry} from '@/directives/radio_control_value_accessor';
export {RadioControlValueAccessor} from '@/directives/radio_control_value_accessor';
export {FormBuilder} from '@/form_builder';

/**
 * Exports the required providers and directives for template-driven forms,
 * making them available for import by NgModules that import this module.
 *
 * @publicApi
 */
@NgModule({
  declarations: TEMPLATE_DRIVEN_DIRECTIVES,
  providers: [RadioControlRegistry],
  exports: [InternalFormsSharedModule, TEMPLATE_DRIVEN_DIRECTIVES]
})
export class FormsModule {
}

/**
 * Exports the required infrastructure and directives for reactive forms,
 * making them available for import by NgModules that import this module.
 *
 * @publicApi
 */
@NgModule({
  declarations: REACTIVE_DRIVEN_DIRECTIVES,
  providers: [FormBuilder, RadioControlRegistry],
  exports: [InternalFormsSharedModule, REACTIVE_DRIVEN_DIRECTIVES]
})
export class ReactiveFormsModule {
  /**
   * @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.
   */
  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
      }]
    };
  }
}

/**
 * @module
 * @description
 * 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.
 */

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/default_value_accessor';
export {Form} from './directives/form_interface';
export {NgControl} from './directives/ng_control';
export {NgControlStatus, NgControlStatusGroup} from './directives/ng_control_status';
export {NgForm} from './directives/ng_form';
export {NgModel} from './directives/ng_model';
export {NgModelGroup} from './directives/ng_model_group';
export {NumberValueAccessor} from './directives/number_value_accessor';
export {NgNoValidate} from './directives/ng_no_validate_directive';
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 {FormGroupDirective} from './directives/reactive_directives/form_group_directive';
export {FormArrayName} from './directives/reactive_directives/form_group_name';
export {NgSelectOption, SelectControlValueAccessor} from './directives/reactive_directives/select_control_value_accessor';
export {SelectMultipleControlValueAccessor} from './directives/select_control_value_accessor';
Cf1E;::;OAMG;;ICNH;;OAEG; pParentLevelId="";pageTitle="Open Source Used In MSX Platform Services 3.9.0 3045"

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1047774271_1590610393.22/0/forms-9-0-7-tgz/package/bundles/forms.umd.js.map
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* /opt/ws_local/PERMITS_SQL/1047774271_1590610393.22/0/forms-9-0-7-tgz/package/bundles/forms.umd.js
* /opt/ws_local/PERMITS_SQL/1047774271_1590610393.22/0/forms-9-0-7-tgz/package/bundles/forms.umd.min.js
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 */
Found in path(s):
* /opt/ws_local/PERMITS_SQL/1047774271_1590610393.22/0/forms-9-0-7-tgz/package/esm5/src/directives/ng_no_validate_directive.js
* /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/esm5/src/directives/reactive_directives/form_control_directive.js
* /opt/ws_local/PERMITS_SQL/1047774271_1590610393.22/0/forms-9-0-7-tgz/package/esm5/src/directives/select_multiple_control_value_accessor.js
* /opt/ws_local/PERMITS_SQL/1047774271_1590610393.22/0/forms-9-0-7-tgz/package/esm2015/src/directives/control_container.js
* /opt/ws_local/PERMITS_SQL/1047774271_1590610393.22/0/forms-9-0-7-tgz/package/esm5/index.js
* /opt/ws_local/PERMITS_SQL/1047774271_1590610393.22/0/forms-9-0-7-tgz/package/esm2015/src/directives/template_driven_errors.js
* /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/directives/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
* /opt/ws_local/PERMITS_SQL/1047774271_1590610393.22/0/forms-9-0-7-tgz/package/esm2015/index.js
* /opt/ws_local/PERMITS_SQL/1047774271_1590610393.22/0/forms-9-0-7-tgz/package/esm2015/src/directives/control_value_accessor.js
* /opt/ws_local/PERMITS_SQL/1047774271_1590610393.22/0/forms-9-0-7-tgz/package/esm2015/src/directives/template_driven_errors.js
* /opt/ws_local/PERMITS_SQL/1047774271_1590610393.22/0/forms-9-0-7-tgz/package/esm2015/src/directives/reactive_directives/form_group_name.js
* /opt/ws_local/PERMITS_SQL/1047774271_1590610393.22/0/forms-9-0-7-tgz/package/esm2015/public_api.js
* /opt/ws_local/PERMITS_SQL/1047774271_1590610393.22/0/forms-9-0-7-tgz/package/esm5/src/directives/radio_control_value_accessor.js
* /opt/ws_local/PERMITS_SQL/1047774271_1590610393.22/0/forms-9-0-7-tgz/package/esm2015/src/directives/normalize_validator.js
* /opt/ws_local/PERMITS_SQL/1047774271_1590610393.22/0/forms-9-0-7-tgz/package/esm5/src/directives/reactive_directives/form_group_directive.js
* /opt/ws_local/PERMITS_SQL/1047774271_1590610393.22/0/forms-9-0-7-tgz/package/esm2015/src/directives/radio_control_value_accessor.js
* /opt/ws_local/PERMITS_SQL/1047774271_1590610393.22/0/forms-9-0-7-tgz/package/esm5/src/directives/checkbox_value_accessor.js
* /opt/ws_local/PERMITS_SQL/1047774271_1590610393.22/0/forms-9-0-7-tgz/package/esm2015/src/directives/form_interface.js
* /opt/ws_local/PERMITS_SQL/1047774271_1590610393.22/0/forms-9-0-7-tgz/package/esm2015/src/directives/reactive_directives/form_group_directive.js
1.345 spring-integration-kafka 3.2.1

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1.346 spring-boot-configuration-processor

2.2.4

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* /opt/ws_local/PERMITS_SQL/1033178651_1591431466.54/0/spring-boot-configuration-processor-2-2-4-release-sources-jar/org/springframework/boot/configurationprocessor/fieldvalues/package-info.java
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* /opt/ws_local/PERMITS_SQL/1033178651_1591431466.54/0/spring-boot-configuration-processor-2-2-4-release-sources-jar/org/springframework/boot/configurationprocessor/fieldvalues/FieldValuesParser.java
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* /opt/ws_local/PERMITS_SQL/1033178651_1591431466.54/0/spring-boot-configuration-processor-2-2-4-release-sources-jar/org/springframework/boot/configurationprocessor/PropertyDescriptor.java
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* /opt/ws_local/PERMITS_SQL/1033178651_1591431466.54/0/spring-boot-configuration-processor-2-2-4-release-sources-jar/org/springframework/boot/configurationprocessor/metadata/InvalidConfigurationMetadataException.java
* /opt/ws_local/PERMITS_SQL/1033178651_1591431466.54/0/spring-boot-configuration-processor-2-2-4-release-sources-jar/org/springframework/boot/configurationprocessor/metadata/ItemDeprecation.java
* /opt/ws_local/PERMITS_SQL/1033178651_1591431466.54/0/spring-boot-configuration-processor-2-2-4-release-sources-jar/org/springframework/boot/configurationprocessor/package-info.java
* /opt/ws_local/PERMITS_SQL/1033178651_1591431466.54/0/spring-boot-configuration-processor-2-2-4-release-sources-jar/org/springframework/boot/configurationprocessor/MetadataStore.java
* /opt/ws_local/PERMITS_SQL/1033178651_1591431466.54/0/spring-boot-configuration-processor-2-2-4-release-sources-jar/org/springframework/boot/configurationprocessor/metadata/JsonConverter.java
* /opt/ws_local/PERMITS_SQL/1033178651_1591431466.54/0/spring-boot-configuration-processor-2-2-4-release-sources-jar/org/springframework/boot/configurationprocessor/ConstructorParameterPropertyDescriptor.java
* /opt/ws_local/PERMITS_SQL/1033178651_1591431466.54/0/spring-boot-configuration-processor-2-2-4-release-sources-jar/org/springframework/boot/configurationprocessor/TypeElementMembers.java
* /opt/ws_local/PERMITS_SQL/1033178651_1591431466.54/0/spring-boot-configuration-processor-2-2-4-release-sources-jar/org/springframework/boot/configurationprocessor/MetadataCollector.java

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* /opt/ws_local/PERMITS_SQL/1033178651_1591431466.54/0/spring-boot-configuration-processor-2-2-4-release-sources-jar/org/springframework/boot/configurationprocessor/json/JSONException.java
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* /opt/ws_local/PERMITS_SQL/1033178651_1591431466.54/0/spring-boot-configuration-processor-2-2-4-release-sources-jar/org/springframework/boot/configurationprocessor/json/JSONArray.java
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lib/gssapi/mechglue/g_canon_name.c
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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:

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lib/kdb/irop.x
lib/kdb/kdb_convert.c
lib/kdb/kdb_log.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
   lib/gssapi/mechglue/g_utils.c
   lib/gssapi/mechglue/g_verify.c
   lib/gssapi/mechglue/gsssd_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')
        if text_seen:
            warn(fname, ln, 'License after code')
            warn(fname, ln, 'License after non-license comments')
        elif 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'\s*(\`[^\`]*)\s*\-.*?\`', 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
    elif 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
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/slave/kpropd_rpc.c
lib/gss_mechs/mech_krb5/et/kdb5_err.c
lib/gss_mechs/mech_spnego/mecg/gssapiP_spnego.h
lib/gss_mechs/mech_spnego/mecg/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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lib/libgss/g_acquire_cred.c
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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_store_cred.c
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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\texttt{src/lib/gssapi} include the following files:
\begin{itemize}
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\item \texttt{g_acquire_cred.c}
\item \texttt{g_canon_name.c}
\item \texttt{g_compare_name.c}
\item \texttt{g_context_time.c}
\item \texttt{g_delete_sec_context.c}
\item \texttt{g_dsp_name.c}
\item \texttt{g_dsp_status.c}
\item \texttt{g_dup_name.c}
\item \texttt{g_exp_sec_context.c}
\item \texttt{g_export_name.c}
\end{itemize}
and the initial implementation of incremental propagation, including the following new or changed files:

- `include/kprop_hdr.h`
- `kadmin/server/ipropd_svc.c`
- `lib/kdb/iprop.c`
- `lib/kdb/kdb_convert.c`
- `lib/kdb/kdb_log.c`
- `lib/krb5/error_tables.et`
- `kprop/kpropd_rpc.c`

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1.361 brave-instrumentation-http 5.9.0

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1.362 hash.js 1.1.7

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Just a bike-shed.

```sh
```
```
```
## Usage

```js
var hash = require('hash.js')
hash.sha256().update('abc').digest('hex')
```

## Selective hash usage

```js
var sha512 = require('hash.js/lib/hash/sha/512');
sha512().update('abc').digest('hex');
```

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1.363 angular-messages 1.7.9

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1.364 httpcomponents-core 4.4.13

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1.365 miller-rabin 4.0.1

1.366 grep 3.3 1

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1.374 angular-nvd3 1.0.9

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DOCUMENTATION ROADMAP

This file contains the following sections:

OVERVIEW General description of JPEG and the IJG software.
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REFERENCES Where to learn more about JPEG.
ARCHIVE LOCATIONS Where to find newer versions of this software.
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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.
usage.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 IJK 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.
1778 McCarthy Blvd.
Milpitas, CA 95035
phone (408) 944-6300,  fax (408) 944-6314
A PostScript version of this document is available by FTP at
ftp://ftp.uu.net/graphics/jpeg/jfif.ps.gz. There is also a plain text version at ftp://ftp.uu.net/graphics/jpeg/jfif.txt.gz, but it is missing the figures.

The TIFF 6.0 file format specification can be obtained by FTP from ftp://ftp.sgi.com/graphics/tiff/16.0.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/.

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RELATED SOFTWARE
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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
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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
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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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d) Convey the object code by offering access from a designated place (gratis or for a charge), and offer equivalent access to the Corresponding Source in the same way through the same place at no further charge. You need not require recipients to copy the Corresponding Source along with the object code. If the place to copy the object code is a network server, the Corresponding Source may be on a different server (operated by you or a third party) that supports equivalent copying facilities, provided you maintain clear directions next to the object code saying where to find the Corresponding Source. Regardless of what server hosts the Corresponding Source, you remain obligated to ensure that it is available for as long as needed to satisfy these requirements.

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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
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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.apache.tomcat:tomcat-juli
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org.apache.tomcat:tomcat-util-scan
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org.eclipse.jetty.toolchain:jetty-schemas

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Eclipse

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* org.eclipse.jetty.orbit:org.eclipse.jdt.core

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* 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

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
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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 UnixCrypt.java code implements the one way cryptography used by Unix systems for simple password protection. Copyright 1996 Aki Yoshida, modified April 2001 by Iris Van den Broeke, Daniel Deville. Permission to use, copy, modify and distribute UnixCrypt for non-commercial or commercial purposes and without fee is granted provided that the copyright notice appears in all copies.

1.392 glibc 2.28-10

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/* setjmp is implemented in setjmp.S */

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1.394 client-java-proto 5.0.0

1.395 xorg 7.7+19
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Source Package: xorg
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1.396 base-files 9.9+deb9u11

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<one line to give the program’s name and a brief idea of what it does.>
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The hypothetical commands `show w' and `show c' should show the
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   at assemblers) written by James Hacker.

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

That's all there is to it!

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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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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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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.

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1.421 jetty-continuation 9.4.26.v20200117

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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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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-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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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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* 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

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
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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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.)
@end enumerate

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@item
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@end enumerate

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Example:

```plaintext
one line to give the program's name and a brief idea of what it does.

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@var{signature of Ty Coon}, 1 April 1989
Ty Coon, President of Vice
@end example

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- the libintl.jar Java library,
- the GNU.Gettext.dll C# library,
- the gettext.sh shells script function library.

The following parts are under the GPL, see file COPYING in the toplevel directory:
- the __programs__ gettext, ngettext, envsubst,
- the documentation.

1.426 websocket-api 9.4.26.v20200117
1.426.1 Available under license:

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Eclipse

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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
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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1.427 iconv 2.28

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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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1.431 ribbon 2.3.0

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1.432 minlog 1.3.0

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1.433 adduser 3.115

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1.440 debianutils 4.8.1.1

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Calling this script install-sh is preferred over install.sh, to prevent `make' implicit rules from creating a file called install from it when there is no Makefile.

This script is compatible with the BSD install script, but was written from scratch. It can only install one file at a time, a restriction shared with many OS's install programs.

On Debian systems, the complete text of the GNU General Public License can be found in `/usr/share/common-licenses/GPL-2'

-- vile: txtmode file-encoding=utf-8
Upstream source https://invisible-island.net/ncurses/ncurses.html
This package is used for testing builds of ncurses.

Current ncurses maintainer: Thomas Dickey <dickey@invisible-island.net>
Files: *
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Files: aclocal.m4 package
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Files: doc/html/NCURSES-Programming-HOWTO.html
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Files: install-sh
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Files: progs/tset.c ncurses/tinfo/read_termcap.c
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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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org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
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org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
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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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1.454 jackson-databind 2.10.2

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Jackson is a high-performance, Free/Open Source JSON processing library. It was originally written by Tatu Saloranta (tatu.salaranta@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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1.455 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.
 * @return 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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1.457 libgpg-error 1.26-2

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This package is used for testing builds of ncurses.

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

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* /opt/ws_local/PERMITS_SQL/1031928352_1588775709.0/0/spring-boot-actuator-2-2-4-release-sources-jar/org/springframework/boot/actuate/web/mappings/servlet/package-info.java
* /opt/ws_local/PERMITS_SQL/1031928352_1588775709.0/0/spring-boot-actuator-2-2-4-release-sources-jar/org/springframework/boot/actuate/metrics/cache/HazelcastCacheMeterBinderProvider.java
* /opt/ws_local/PERMITS_SQL/1031928352_1588775709.0/0/spring-boot-actuator-2-2-4-release-sources-jar/org/springframework/boot/actuate/ldap/LdapHealthIndicator.java
* /opt/ws_local/PERMITS_SQL/1031928352_1588775709.0/0/spring-boot-actuator-2-2-4-release-sources-jar/org/springframework/boot/actuate/env/EnvironmentEndpoint.java
* /opt/ws_local/PERMITS_SQL/1031928352_1588775709.0/0/spring-boot-actuator-2-2-4-release-sources-jar/org/springframework/boot/actuate/endpoint/invoke/convert/package-info.java
* /opt/ws_local/PERMITS_SQL/1031928352_1588775709.0/0/spring-boot-actuator-2-2-4-release-sources-jar/org/springframework/boot/actuate/health/CompositeReactiveHealthIndicator.java
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* /opt/ws_local/PERMITS_SQL/1031928352_1588775709.0/0/spring-boot-actuator-2-2-4-release-sources-jar/org/springframework/boot/actuate/endpoint/jmx/annotation/DiscoveredJmxEndpoint.java
* /opt/ws_local/PERMITS_SQL/1031928352_1588775709.0/0/spring-boot-actuator-2-2-4-release-sources-jar/org/springframework/boot/actuate/metrics/web/reactive/client/package-info.java
* /opt/ws_local/PERMITS_SQL/1031928352_1588775709.0/0/spring-boot-actuator-2-2-4-release-sources-jar/org/springframework/boot/actuate/trace/servlet/HttpTraceFilter.java
Open Source Used In MSX Platform Services 3.9.0 4044

* /opt/ws_local/PERMITS_SQL/1031928352_1588775709.0/0/spring-boot-actuator-2-2-4-release-sources-jar/org/springframework/boot/actuate/audit/AuditEventRepository.java
* /opt/ws_local/PERMITS_SQL/1031928352_1588775709.0/0/spring-boot-actuator-2-2-4-release-sources-jar/org/springframework/boot/actuate/endpoint/invoke/reflect/OperationMethod.java
* /opt/ws_local/PERMITS_SQL/1031928352_1588775709.0/0/spring-boot-actuator-2-2-4-release-sources-jar/org/springframework/boot/actuate/endpoint/InvocationContext.java
* /opt/ws_local/PERMITS_SQL/1031928352_1588775709.0/0/spring-boot-actuator-2-2-4-release-sources-jar/org/springframework/boot/actuate/endpoint/web/mappings/reactive/DispatcherHandlerMappingDescription.java
* /opt/ws_local/PERMITS_SQL/1031928352_1588775709.0/0/spring-boot-actuator-2-2-4-release-sources-jar/org/springframework/boot/actuate/session/SessionsEndpoint.java
* /opt/ws_local/PERMITS_SQL/1031928352_1588775709.0/0/spring-boot-actuator-2-2-4-release-sources-jar/org/springframework/boot/actuate/management/HeapDumpWebEndpoint.java
* /opt/ws_local/PERMITS_SQL/1031928352_1588775709.0/0/spring-boot-actuator-2-2-4-release-sources-jar/org/springframework/boot/actuate/health/PingHealthIndicator.java
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* /opt/ws_local/PERMITS_SQL/1031928352_1588775709.0/0/spring-boot-actuator-2-2-4-release-sources-jar/org/springframework/boot/actuate/metrics/web/reactive/server/WebFluxTags.java
* /opt/ws_local/PERMITS_SQL/1031928352_1588775709.0/0/spring-boot-actuator-2-2-4-release-sources-jar/org/springframework/boot/actuate/metrics/web/servlet/WebMvcTags.java
* /opt/ws_local/PERMITS_SQL/1031928352_1588775709.0/0/spring-boot-actuator-2-2-4-release-sources-jar/org/springframework/boot/actuate/metrics/AutoTimer.java
* /opt/ws_local/PERMITS_SQL/1031928352_1588775709.0/0/spring-boot-actuator-2-2-4-release-sources-jar/org/springframework/boot/actuate/metrics/web/reactive/server/DefaultWebFluxTagsProvider.java
* /opt/ws_local/PERMITS_SQL/1031928352_1588775709.0/0/spring-boot-actuator-2-2-4-release-sources-jar/org/springframework/boot/actuate/metrics/web/servlet/DefaultWebMvcTagsProvider.java

1.472 blob 0.0.4

1.473 websocket-client 9.4.26.v20200117

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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

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-commons  
org.ow2.asm:asm

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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
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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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see http://sites.google.com/site/rrettesite/moman and
http://bitbucket.org/jpbarrette/moman/overview/

The class org.apache.lucene.util.WeakIdentityMap was derived from
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The snowball stemmers in
  analysis/common/src/java/net/sf/snowball
were developed by Martin Porter and Richard Boulton.
The snowball stopword lists in
  analysis/common/src/resources/org/apache/lucene/analysis/snowball
were developed by Martin Porter and Richard Boulton.
The full snowball package is available from
  http://snowball.tartarus.org/

The KStem stemmer in
  analysis/common/src/org/apache/lucene/analysis/en
was developed by Bob Krovetz and Sergio Guzman-Lara (CIIR-UMass Amherst)
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analysis/common/src/resources/org/apache/lucene/analysis/ar/stopwords.txt,
analysis/common/src/resources/org/apache/lucene/analysis/fa/stopwords.txt,
analysis/common/src/resources/org/apache/lucene/analysis/ro/stopwords.txt,
analysis/common/src/resources/org/apache/lucene/analysis/bg/stopwords.txt,
analysis/common/src/resources/org/apache/lucene/analysis/hi/stopwords.txt,
analysis/common/src/resources/org/apache/lucene/analysis/bn/stopwords.txt

The German, Spanish, Finnish, French, Hungarian, Italian, Portuguese, Russian and Swedish light stemmers (common) are based on BSD-licensed reference implementations created by Jacques Savoy and Ljiljana Dolamic. These files reside in:
analysis/common/src/java/org/apache/lucene/analysis/de/GermanLightStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/de/GermanMinimalStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/es/SpanishLightStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/fi/FinnishLightStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/fr/FrenchLightStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/fr/FrenchMinimalStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/hu/HungarianLightStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/it/ItalianLightStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/pt/PortugueseLightStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/ru/RussianLightStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/sv/SwedishLightStemmer.java

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1.480 is-obj 1.0.1

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JUnit

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# builds/unix/pkg.m4
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Include/freetype/internal/fthash.h

- src/base/fthash.c
- src/base/md5.c
- src/base/md5.h

- src/bdf/bdf.c
- src/bdf/bdf.h
- src/bdf/bdfdrivr.c
- src/bdf/bdfdrivr.h
- src/bdf/bdferror.h
- src/bdf/bdflib.c
- src/bdf/module.mk
- src/bdf/README
- src/bdf/rules.mk

- src/pcf/module.mk
- src/pcf/pcf.c
- src/pcf/pcf.h
- src/pcf/pcfdrivr.c
- src/pcf/pcfdrivr.h
- src/pcf/pcferror.h
- src/pcf/pcfread.c
- src/pcf/pcfread.h
- src/pcf/pcfutil.c
- src/pcf/pcfutil.h
- src/pcf/README
- src/pcf/rules.mk

- src/gzip/adler32.c
- src/gzip/infblock.c
- src/gzip/infblock.h
- src/gzip/infcodes.c
- src/gzip/infcodes.h
- src/gzip/inffixed.h
- src/gzip/inflate.c
- src/gzip/inftrees.c
- src/gzip/inftrees.h
- src/gzip/infutil.c
- src/gzip/infutil.h
- src/gzip/zconf.h
- src/gzip/zlib.h
- src/gzip/zutil.c
- src/gzip/zutil.h
src/tools/apinames.c
src/tools/frrandom/frrandom.c
#
# EOF

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Found in path(s):
* /opt/ws_local/PERMITS_SQL/1023699214_1588775662.83/0/spring-jcl-5-2-3-release-sources-
jar/org/apache/commons/logging/LogFactory.java

1.486 cups 2.2.10-6+deb10u3
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<one line to give the program's name and a brief idea of what it does.>
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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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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.

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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.)

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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
<head>
<link rel="stylesheet" href="animate.min.css">
</head>
```

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`
* `slideInDown`
* `slideInLeft`
* `slideInRight`
* `slideInUp`
* `slideOutDown`
* `slideOutLeft`
* `slideOutRight`
* `slideOutUp`

Full example:
```
<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:

<!--
Before you make changes to this file, you should know that $('#yourElement').one() is *NOT A TYPO*

http://api.jquery.com/one/
-->

```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 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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1.497 brave-instrumentation-spring-rabbit

5.9.0

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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. ^L

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analysis/common/src/resources/org/apache/lucene/analysis/snowball
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The full snowball package is available from http://snowball.tartarus.org/

The KStem stemmer in analysis/common/src/org/apache/lucene/analysis/en was developed by Bob Krovetz and Sergio Guzman-Lara (CIIR-UMass Amherst) under the BSD-license.

The Arabic,Persian,Romanian,Bulgarian, Hindi and Bengali analyzers (common) come with a default stopword list that is BSD-licensed created by Jacques Savoy. These files reside in:
- analysis/common/src/resources/org/apache/lucene/analysis/ar/stopwords.txt
- analysis/common/src/resources/org/apache/lucene/analysis/fa/stopwords.txt
- analysis/common/src/resources/org/apache/lucene/analysis/ro/stopwords.txt
- analysis/common/src/resources/org/apache/lucene/analysis/bg/stopwords.txt
- analysis/common/src/resources/org/apache/lucene/analysis/hi/stopwords.txt
- analysis/common/src/resources/org/apache/lucene/analysis/bn/stopwords.txt

The German,Spanish,Finnish,French,Hungarian,Italian,Portuguese,Russian and Swedish light stemmers (common) are based on BSD-licensed reference implementations created by Jacques Savoy and Ljiljana Dolamic. These files reside in:
- analysis/common/src/java/org/apache/lucene/analysis/de/GermanLightStemmer.java
- analysis/common/src/java/org/apache/lucene/analysis/de/GermanMinimalStemmer.java
- analysis/common/src/java/org/apache/lucene/analysis/es/SpanishLightStemmer.java
- analysis/common/src/java/org/apache/lucene/analysis/es/SpanishMinimalStemmer.java
- analysis/common/src/java/org/apache/lucene/analysis/fi/FinnishLightStemmer.java
- analysis/common/src/java/org/apache/lucene/analysis/fr/FrenchLightStemmer.java
- analysis/common/src/java/org/apache/lucene/analysis/fr/FrenchMinimalStemmer.java
- analysis/common/src/java/org/apache/lucene/analysis/hu/HungarianLightStemmer.java
- analysis/common/src/java/org/apache/lucene/analysis/it/ItalianLightStemmer.java
- analysis/common/src/java/org/apache/lucene/analysis/it/ItalianMinimalStemmer.java
- analysis/common/src/java/org/apache/lucene/analysis/pt/PortugueseLightStemmer.java
- analysis/common/src/java/org/apache/lucene/analysis/ru/RussianLightStemmer.java
- analysis/common/src/java/org/apache/lucene/analysis/sv/SwedishLightStemmer.java

The Stempel analyzer (stempel) includes BSD-licensed software developed by the Egothor project http://egothor.sf.net/, created by Leo Galambos, Martin Kvapil, and Edmond Nolan.

The Polish analyzer (stempel) comes with a default stopword list that is BSD-licensed created by the Carrot2 project. The file resides in stempel/src/resources/org/apache/lucene/analysis/pl/stopwords.txt.
See http://project.carrot2.org/license.html.

The SmartChineseAnalyzer source code (smartcn) was provided by Xiaoping Gao and copyright 2009 by www.imdict.net.

WordBreakTestUnicode_*.java (under modules/analysis/common/src/test/) is derived from Unicode data such as the Unicode Character Database.
See http://unicode.org/copyright.html for more details.
The Morfologik analyzer (morfologik) includes BSD-licensed software developed by Dawid Weiss and Marcin Mikowski (http://morfologik.blogspot.com/).

Morfologik uses data from Polish ispell/myspell dictionary (http://www.sjp.pl/slownik/en/) licenced on the terms of (inter alia) LGPL and Creative Commons ShareAlike.

Morfologic includes data from BSD-licensed dictionary of Polish (SGJP) (http://sgjp.pl/morfeusz/)

Servlet-api.jar and javax.servlet-*.jar are under the CDDL license, the original source code for this can be found at http://www.eclipse.org/jetty/downloads.php

===========================================================================
Kuromoji Japanese Morphological Analyzer - Apache Lucene Integration
===========================================================================

This software includes a binary and/or source version of data from

mecab-ipadic-2.7.0-20070801

which can be obtained from

http://atilika.com/releases/mecab-ipadic/mecab-ipadic-2.7.0-20070801.tar.gz

or

http://jaist.dl.sourceforge.net/project/mecab/mecab-ipadic/2.7.0-20070801/mecab-ipadic-2.7.0-20070801.tar.gz

===========================================================================
meCab-ipadic-2.7.0-20070801 Notice
===========================================================================

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Nori Korean Morphological Analyzer - Apache Lucene Integration

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which can be obtained from

https://bitbucket.org/eunjeon/mecab-ko-dic/downloads/mecab-ko-dic-2.0.3-20170922.tar.gz

1.504 feign-form 3.5.0

1.505 bootstrap 4.3.1

1.505.1 Available under license :

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

```
/**
 * @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');
```

```
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 };

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;
}
```
Open Source Used In MSX Platform Services 3.9.0

```typescript
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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 *
 * 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 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 = '$$angularUpgradeAppType';
export const REQUIRE_UPGRADE_APP_TYPE = '$$UpgradeAppType';
export const REQUIRE_UPGRADE_APP_TYPE = '$$UpgradeAppType';
```
import { DirectivesDirective } from './directives.directive';

export class AppComponent {
  title = 'myApp';

  constructor(private ngZone: NgZone) {
    ngZone.run(() => {
      this.title = 'AngularJS template';
    });
  }
}

@Component({
  template: '<div>
    <h1>{{ title }}</h1>
    <p>AngularJS template</p>
  </div>
'})
export class MyComponent {
  constructor(private ngZone: NgZone) {
    ngZone.run(() => {
      this.title = 'AngularJS template';
    });
  }
}

@NgModule({
  declarations: [AppComponent, MyComponent],
  bootstrap: [AppComponent]
})
export class AppModule {

}

export function noConflict() {

  // Restore the original module.
  return angular.module('app', []);
}

export function module(...args) {

  return angular.module('app', ...args);
}

export function getModule() {

  return angular.module('app');
}

export function isPlatformBuild() {

  return angular.isPlatformBuild();
}

export function platformBrowserDynamic() {

  return angular platformBrowserDynamic();
}

export function platformBrowserDynamic宗 bribery(\$compile): void {

  \$compile(document[0].
    body.firstChild); // TODO: (misko): We seem to not have a stack trace here!
}

export function getModuleName(type: any) {

  return (type as any).overriddenName || type.name || type.toString().split('
')[0];
}

export function isFunction(value: any) {

  return typeof value === 'function';
}

export function validateInjectionKey($injector: IInjectorService, module: string, injectionKey: string, attemptedAction: string): void {

  const moduleCount = getModuleCount($injector);
  const moduleType = getModuleType($injector);

  switch (moduleType) {
    case ModuleType.None:
      if (moduleCount >= 2) {
        throw new Error(`Error while ${attemptedAction}: 'module' unexpectedly specified. You should not specify a value for 'module' unless you are downgrading more than one Angular module (via `downgradeModule()).\n    } else if (module === 'ngUpgrade') {
      throw new Error(`Error while ${attemptedAction}: Framework-specific modules are not supported.\n`);}

    default:
      throw new Error(`Error while ${attemptedAction}: Not a valid 'module' value.\n`);}
}

export function getModuleCount($injector: IInjectorService): number {

  return $injector.has(MODULE_COUNT_KEY) ? $injector.get(MODULE_COUNT_KEY) : 0;
}

export function getModuleType($injector: IInjectorService): ModuleType {

  return $injector.has(MODULE_TYPE_KEY) ? $injector.get(MODULE_TYPE_KEY) : ModuleType.None;
}

export const enum ModuleType {
  None, Dynamic, Static, 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 === '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 needed for AngularJS 'ng-model' compatibility.)
 */
export function hookUpNgModel(ngModel: INgModelController, component: any) {

  if (ngModel && supportsNgModel(component)) {
    ngModel.$render = () => {
      component.writeValue(ngModel.$viewValue); };

    component.registerOnChange(ngModel.$setViewValue.bind(ngModel));
    if (typeof component.registerOnTouched === 'function') {

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

  }
}

export class AppComponent {

  constructor(private ngZone: NgZone) {

    ngZone.run(() => {
      this.title = 'AngularJS template';
    });
  }
}

@Component({
  template: '<div>
    <h1>{{ title }}</h1>
    <p>AngularJS template</p>
  </div>
'})
export class MyComponent {

  constructor(private ngZone: NgZone) {

    ngZone.run(() => {
      this.title = 'AngularJS template';
    });
  }
}

@NgModule({
  declarations: [AppComponent, MyComponent],
  bootstrap: [AppComponent]
})
export class AppModule {

}

export function noConflict() {

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  return angular.module('app', []);
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  return angular platformBrowserDynamic();
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  \$compile(document[0].
    body.firstChild); // TODO: (misko): We seem to not have a stack trace here!
}

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')[0];
}

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  const moduleType = getModuleType($injector);

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      if (moduleCount >= 2) {
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    default:
      throw new Error(`Error while ${attemptedAction}: Not a valid 'module' value.\n`);}
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    ngModel.$render = () => {
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    component.registerOnChange(ngModel.$setViewValue.bind(ngModel));
    if (typeof component.registerOnTouched === 'function') {

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

  }
}

export class AppComponent {

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  }
}

@Component({
  template: '<div>
    <h1>{{ title }}</h1>
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 */
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  if (ngModel && supportsNgModel(component)) {
    ngModel.$render = () => {
      component.writeValue(ngModel.$viewValue); };

    component.registerOnChange(ngModel.$setViewValue.bind(ngModel));
    if (typeof component.registerOnTouched === 'function') {

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

  }
}
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 !== val1 && val2 !== val2);
 */

/**
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 * 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, 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.componentRef =
        this.componentFactory.create(childInjector,
        projectableNodes, this.element[0]);
    this.viewChangeDetector =
        this.componentRef.changeDetectorRef;
    this.changeDetector =
        this.componentRef.changeDetectorRef;

    // testability hook is commonly added during component bootstrap
    // downstream components will use this.
    // testability hook is also added during
    // creation of the child component.
    this.componentRef.injector.get(Testability, null).createComponent(projectableNodes: Node[][]);

    // const providers: StaticProvider[] = [{
    //   provide: $SCOPE, useValue: this.componentScope}];
    // this.componentRef.injector.get(Testability, null);

    // hookupNgModel(this.ngModel, this.component);
    this.setupInputs(false);
  }

  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(propName)) 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 $observe(propName)
        // callback.
        let unwatch: Function|null = this.componentScope.$watch(propName => {
          unwatch = null;
          observeFn(attrs[input.attr]);
        });
      } else if (attrs.hasOwnProperty(input.bindAttr)) {...

    } else if (attrs.hasOwnProperty(input.bindAttr)) {
      //...
if (this.attr) { 
  const attrToProp = this.mapAttrToProp.get(this.attr.key); 
  if (attrToProp) { 
    this.$parse(attrToProp.propName).assign(this.componentScope, attrToProp.templateName); 
  }
}

ngComponent = ngComponentFactory.create(this.templateRef);
```javascript
function groupNodesBySelector(ngContentSelectors: string[], nodes: Node[]): Node[][] {
    const ngContentIndexes = findMatchingNgContentIndexes(ngContentSelectors);
    let wildcardNgContentIndex = -1;
    let projectableNodes = ngContentIndexes.map(i => []);
    ngContentIndexes.map(i => projectableNodes[i]).forEach(p => p.push(nodes[i]));
    return projectableNodes;
}

function findMatchingNgContentIndexes(ngContentSelectors: string[]): number[] {
    let ngContentIndexes = ngContentSelectors.map(selector => {
        if (matchesSelector(null, selector)) {
            return selector;
        }
        return undefined;
    });
    ngContentIndexes = ngContentIndexes.filter(selector => selector !== undefined);
    ngContentIndexes.sort();
    return ngContentIndexes;
}
```

```typescript
import { ComponentFactory, ComponentFactoryResolver, Injector, NgZone, Type } from '@angular/core';
import { IAnnotatedFunction, IAttributes, IAugmentedJQuery, ICompileService, IDirective, IInjectorService, 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';
```
define the AngularJS directive that wraps the `\downgraded` component.

```typescript
@ngInject
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 `$digest()` will be run
      // inside the Angular zone (except if explicitly escaped, in which case we shouldn't
      // force it back in).
    const isNgUpgradeLite = getUpgradeAppType($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 wrt 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;
        const lazyModuleRef = getLazyModuleRef($injector, info.component, info.
          downgradedModule);
        const lazyModuleRefKey = `${LAZY_MODULE_REF}/${info.
          downgradedModule}`;
        const attemptedAction = `instantiating component '${getTypeName(info.component)}'
          `;

        validateInjectionKey($injector, lazyModuleRefKey, attemptedAction);
        const lazyModuleRef = getLazyModuleRef($injector, lazyModuleRefKey) as LazyModuleRef;
        const moduleInjector = lazyModuleRef.injector || lazyModuleRef.promise as Promise<
          Injector>; 
        if (parentInjector && hasMultipleDowngradedModules) {
          const downgradedModule = info.downgradedModule;
          const lazyModuleRef = getLazyModuleRef($injector, lazyModuleRefKey, attemptedAction);
          lazyModuleRef = lazyModuleRef as LazyModuleRef;
          moduleInjector = lazyModuleRef.injector || lazyModuleRef.promise as Promise<
            Injector>
        }

        const downgradedModule = 
          moduleInjector
          
        // 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
          downgradedModule
          // `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 `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; - 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 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);

  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 digest and initial input values will not be detected.
    scope.$evalAsync(()
      => {});
  }
}

const injectorPromise = new ParentInjectorPromise(element);
const facade = new DowngradeComponentAdapter(element, attrs, scope, ngModel, injector, $injector, $compile, $parse, componentFactory, wrapCallback);
const projectableNodes = facade.compileContents();
const facade = 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 digest and initial input values will not be detected.
  scope.$$evalAsync(()
    => {});
}
const downgradeFn = isNgUpgradeLite ? doDowngrade : (injector: Injector, mInjector: Injector) => {
  if (!ngZone) {
    ngZone = mInjector.get(NgZone);
  }

  wrapCallback(() => doDowngrade(injector, mInjector))();
  NOTE: Not using `ParentInjectorPromise.all()` (which is inherited from `SyncPromise`), because it is Closure Compiler (or some related tool) complains:
  `TypeError: ...Src$downgrade_component_ParentInjectorPromise.all is not a function`.
  SyncPromise.all([finalParentInjector, finalModuleInjector]).then(((mInjector, mInjector) =>
    downgradeFn(mInjector, mInjector));
  ranAsync = true; scope.$$evalAsync(() => {
    // bracket-notation because of closure - see #14441
    directveFactory[$inject] = [$compile, SINJECTOR, SPARSE];
    return directiveFactory;
  })

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/**
 * @description
 *
 * A helper function to allow an Angular service to be accessible from AngularJS
 * @usageNotes
 * ### Examples
 *
 * First ensure that the service to be downgraded is

```typescript
// in a NgModule

@NgModule

// on an AngularJS module

// Inside an AngularJS component's controller we can get hold of the
```

* When using `downgradeModule()`, downgraded injectables will not be available until the Angular
* @param token an `InjectionToken` that identifies a service provided from Angular.
* (This option is only necessary when using `downgradeModule()` to downgrade more than one
* Angular module as the injectable, but it is _not OK_ to use it in an AngularJS component that may be used
* independently of Angular on
* use it in a downgraded Angular component from a different module.

```typescript
// in a downgradeInjectable function

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;
}
```

*/

/**
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 * 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';

// 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: 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);
} // the directive = directive || UpgradeHelper.getDirective(this.Sinjector, name);
)

private static getDirective(Sinjector: InjectorService, name: string): IDirective {
  const directives = $injector.get('Directive');
  if (directives.length > 1) {
    throw new Error('Only support single directive definition for: ' + name);
  }
  const directive = directives[0];
  // AngularJS will transform `link: x.y.z` to `compile: () => x.y.z`. So we can only tell there was an
  // user-defined `compile` if there is no `link`. In other cases, we will just ignore `compile`.
  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> {
  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) {
  // TODO: Document that we do not pre-assign bindings on the controller

  $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);
}

destroy($scope: IScope, controllerInstance?: any) {
  if (controllerInstance && isFunction(controllerInstance.$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 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;
      filledSlots[slotName] = null;  // `null`: Defined but not yet filled. updateSlots[slotName] = optional;  // Consider optional slots as filled.$
    });
  }

  return transclude;
}

transcludeChildren: angularElement; $scope; $element;

transcludeChildren.$scope.$destroy();

transcludeChildren.$element = angularElement(this.element);
transcludeChildren.$directive = directive;
transcludeChildren.$injector = $injector;
transcludeChildren.$elementRef = elementRef.nativeElement;
transcludeChildren.$compile = compile;
transcludeChildren.$onDestroy = onDestroy;
transcludeChildren.$controller = buildController;
transcludeChildren.$transclude = transclude;
transcludeChildren.$transcludeOptions = {allowAttributes: true};
transcludeChildren.$transcludeController;
Error(`Upgraded directive '${name}' contains unsupported feature: '${feature}'.`)

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*/

*/

/**
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 *
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 */

import {Directive, DoCheck, ElementRef, EventEmitter, Inject, InjectStruct, OnDestroy, OnInit, SimpleChange, SimpleChanges, Type} from '@angular/core';

import {IAttributes, IDirective, IDirectivePrePost, InjectStructService, ILINKFn, IScope, ITranscludeFunction} from '@angular/core';

CAMEL_CASE = /[A-Z]/g;

const INITIAL_VALUE = {
  __UNINITIALIZED__: true
};

const NOT_SUPPORTED: any = 'NOT_SUPPORTED';

export class UpgradeNg1ComponentAdapterBuilder {
  type: Type<any>;
  inputs: string[] = [];
  inputsRename: string[] = [];
  outputs: string[] = [];
  outputsRename: string[] = [];
  propertyOutputs: string[] = [];
  checkProperties: string[] = [];
  propertyMap: {
    [name: string]: string
  } = {};
  directive: IDirective
  template: string;

  constructor(public name: string) {
    const selector = name.replace(CAMEL_CASE, (all: string, next: string) => '-' + next.toLowerCase());
    const self = this;

    const directive = {selector: selector, inputs: this.inputsRename, outputs: this.outputsRename};

    @Directive({jit: true, ...directive})
    class MyClass extends UpgradeHelper 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 === '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;

        switch (bindingType) {
          case '@':
          case '<':
            this.inputs.push(attrName);
            this.inputsRename.push(attrName);
            this.propertyMap[attrName] = propName;
            break;

          case '=':
            this.inputs.push(attrName);
            this.inputsRename.push(attrName);
            this.propertyMap[attrName] = propName;

            this.outputs.push(attrName);
            this.outputsRename.push(attrName);
            this.propertyMap[attrName] = propName;
            break;

          case '&':
            this.outputs.push(attrName);
            this.outputsRename.push(attrName);
            this.propertyMap[attrName] = 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(InjectorService, name);
      exportedComponent.extractBindings();
      return Promise
        .resolve(UpgradeHelper.getTemplate(Injector, exportedComponent.directive, true))
        .then(template => exportedComponent.template = template); // QUESTION: is template exports supported?
    });

    return Promise.all(promises);
  }
}

class
UpgradeNg1ComponentAdapter implements OnInit, OnChanges, DoCheck

```typescript
private controllerInstance: IControllerInstance|null = null;
this.directive.controllerType = this.directive.controller;
if (this.directive.bindToController && this.controllerType) {
  this.controllerInstance = this.helper.buildController(this.directive.controllerType, this.componentScope);
  this.destinationObj = this.controllerInstance;
} else {
  this.destinationObj = this.componentScope;
}
```

```typescript
ngOnInit() {
  // Collect contents, insert and compile template
  const attachChildNodes: ILinkFn|undefined = this.helper.prepareTransclusion();
  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();
  }
}
```

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

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

*/

```typescript
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,
```
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
 *    (See [UpgradeAdapter#upgradeNg1Component()])
 * 3. Bootstrapping of a hybrid Angular application which contains both of the frameworks
 *    coexisting in a single application.
 * 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 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 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 framework instantiation framework. The syntax is always that of Angular syntax.
 * 8. 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
 *    `$apply()`.
 *
 * ### Example
 *
 * ```
 * const adapter = new UpgradeAdapter(forwardRef(() => MyNg2Module), myCompilerOptions);
 * const module = angular.module('myExample', []);
 * module.directive('ng2Comp', adapter.upgradeNg1Component(Ng2Component));
 *
 * module.directive('ng1Hello', function() {
 *   return {
 *     scope: { title: '=' },
 *     template: 'ng1[Hello {{title}}](!<span ng-transclude></span>)'
 *   };
 * });
 *
 * @Component({
 *   selector: 'ng2-comp',
 *   inputs: ['name'],
 *   template: 'ng2[<ng1-hello [title]="name">transclude</ng1-hello>](<ng-content></ng-content>)',
 *   directives:
 * })
 * class Ng2Component {
 * }
 *
 * @NgModule({
 *   declarations: [Ng2Component, adapter.upgradeNg1Component('ng1Hello')],
 *   imports: [BrowserModule]
 * })
 * class MyNg2Module {}
 *
 * document.body.innerHTML = '<ng2-comp name="World">project</ng2-comp>';
 *
 * adapter.bootstrap(document.body, ['myExample']).ready(function() {
 *   expect(document.body.textContent).toEqual('ng2[ng1[Hello World!](!<span ng-transclude></span>)](project)');
 * });
 *
 * @deprecated Deprecated since v5. Use `upgrade/static` instead, which also supports Ahead-of-Time
 * compilation.[guide/aot-compiler].
 * @publicApi
 */
export class UpgradeAdapter {
  private idPrefix: string = `NG2_UPGRADE_${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 upgrade until ng1 injector is bootstrapped.
   * @internal
   */
  private ng1ComponentsToBeUpgraded:
    {[name: string]: UpgradeNg1ComponentAdapterBuilder} = {};
  private upgradedProviders: StaticProvider[] = [];
  private ng2BootstrapDeferred!: Deferred<IInjectorService>;

  constructor(private ng2AppModule: IModule, private ngZone: NgZone, private ng1Module: NgModuleRef<any>) {
    this.ng2BootstrapDeferred = deferred('Upgrading components after injector creation.
    This must be called immnediately upon injector creation.');
    this.ng2BootstrapDeferred.wait();
  }

  public bootstrap(document: NgZone, privateNgZone: NgZone): Promise<any> {
    const adapter = this.ng2BootstrapDeferred.promise.then(() => new UpgradeAdapter(this.ngZone));
    return adapter.bootstrap(document, privateNgZone, this.ng1Module, this.ng2AppModule);
  }

  public upgradeNg1Component<T>(component: any, constructor?: any, inputs?: any) {
    const ng1Component = new component();
    const ng2Component = this.upgradeNg1Component(component);
    this.ng2AppModule.component(ng2Component.selector, ng2Component);
    this.ng2BootstrapDeferred.resolve();
  }

  public downgradeNg2Component(component: any) {
    const ng2Component = new component();
    const ng1Component = this.downgradeNg2Component(ng2Component);
    this.ng1Module.component(ng1Component.selector, ng1Component);
    this.ng1BootstrapDeferred.resolve();
  }

  private upgradeNg1Component(component: any) {
    const ng1Component = new component();
    this.ng1ComponentsToBeUpgraded[ng1Component.name] = new UpgradeNg1ComponentAdapterBuilder(ng1Component);
  }

  private downgradeNg2Component(component: any) {
    const ng2Component = new component();
    const ng1Component = this.downgradeNg2Component(component);
    this.ng1ComponentsToBeUpgraded[ng2Component.name] = new UpgradeNg1ComponentAdapterBuilder(ng2Component);
  }

  private ng2ModuleFactory: (options: any) => IModuleRef = null;
  private ng1ModuleFactory: (options: any) => IModuleRef = null;

  // TODO(issue/24571): remove !'!
  private ng2Module!: IModule; private ng1Module!: IModule;
  // TODO(issue/24571): remove !'!
  private ng2BootstrapDeferred!: Deferred<IInjectorService>;
  private ng1BootstrapDeferred!: Deferred<IInjectorService>;
  private ng2AngularModule: NgModuleRef<any> = null;
  private ng1AngularModule: NgModuleRef<any> = null;
  private ng2AngularModule!: NgModuleRef<any> = null;
  private ng1AngularModule!: NgModuleRef<any> = null;
  private ng2AngularModule!: NgModuleRef<any> = null;
  private ng1AngularModule!: NgModuleRef<any> = null;
  private ng2AngularModule!: NgModuleRef<any> = null;
  private ng1AngularModule!: NgModuleRef<any> = null;
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Type<any>, private compilerOptions?: CompilerOptions) {\n if (!ng2AppModule) {\n
throw new Error(\n
'UpgradeAdapter cannot be instantiated without an NgModule of the Angular app.');\n }\n }\n\n /**\n * Allows
Angular Component to be used from AngularJS.\n *\n * Use `downgradeNg2Component` to create an AngularJS
Directive Definition Factory from\n * Angular Component. The adapter will bootstrap Angular component from
within the\n * AngularJS template.\n *\n * @usageNotes\n * ### Mental Model\n *\n * 1. The component is
instantiated by being listed in AngularJS template. This means that the\n * host element is controlled by
AngularJS, but the component's view will be controlled by\n * Angular.\n * 2. Even thought the component is
instantiated in AngularJS, it will be using Angular\n * syntax. This has to be done, this way because we must
follow Angular components do not\n * declare how the attributes should be interpreted.\n * 3. `ng-model` is
controlled by AngularJS and communicates with the downgraded Angular component\n * by way of the
`ControlValueAccessor` interface from @angular/forms. Only components that\n * implement this interface are
eligible.\n *\n * ### Supported Features\n *\n * - Bindings:\n * - Attribute: `<comp name=\"World\">`\n *
- Interpolation: `<comp greeting=\"Hello {{name}}!\">`\n * - Expression: `<comp [name]=\"username\">`\n *
- Event: `<comp (close)=\"doSomething()\">`\n * - ng-model: `<comp ng-model=\"name\">`\n * - Content
projection: yes\n *\n * ### Example\n *\n * ```\n * const adapter = new UpgradeAdapter(forwardRef(() =>
MyNg2Module));\n * const module = angular.module('myExample', []);\n * module.directive('greet',
adapter.downgradeNg2Component(Greeter));\n *\n * @Component({\n * selector: 'greet',\n * template:
'{{salutation}} {{name}}! - <ng-content></ng-content>'\n * })\n * class Greeter {\n * @Input() salutation:
string;\n * @Input() name: string;\n * }\n *\n * @NgModule({\n * declarations: [Greeter],\n * imports:
[BrowserModule]\n * })\n * class MyNg2Module {}\n *\n * document.body.innerHTML =\n * 'ng1
template: <greet salutation=\"Hello\" [name]=\"world\">text</greet>';\n *\n * adapter.bootstrap(document.body,
['myExample']).ready(function() {\n * expect(document.body.textContent).toEqual(\"ng1 template: Hello world! text\");\n * });\n * ```\n */\n downgradeNg2Component(component: Type<any>): Function {\n
this.downgradedComponents.push(component);\n\n return downgradeComponent({component});\n }\n\n /**\n
* Allows AngularJS Component to be used from Angular.\n *\n * Use `upgradeNg1Component` to create an
Angular component from AngularJS Component\n * directive. The adapter will bootstrap AngularJS component
from within the Angular\n * template.\n *\n * @usageNotes\n * ### Mental Model\n *\n * 1. The
component is instantiated by being listed in Angular template. This means that the\n * host element is controlled
by Angular, but the component's view will be controlled by\n * AngularJS.\n *\n * ### Supported Features\n
*\n * - Bindings:\n * - Attribute: `<comp name=\"World\">`\n * - Interpolation: `<comp greeting=\"Hello
{{name}}!\">`\n * - Expression: `<comp [name]=\"username\">`\n * - Event: `<comp
(close)=\"doSomething()\">`\n * - Transclusion: yes\n * - Only some of the features of\n * [Directive
Definition Object](https://docs.angularjs.org/api/ng/service/$compile) are\n * supported:\n * - `compile`: not
supported because the host element is owned by Angular, which does\n * not allow modifying DOM structure
during compilation.\n * - `controller`: supported. (NOTE: injection of `$attrs` and `$transclude` is not
supported.)\n * - `controllerAs`: supported.\n * - `bindToController`: supported.\n * - `link`: supported.
(NOTE: only pre-link function is supported.)\n * - `name`: supported.\n * - `priority`: ignored.\n * `replace`: not supported.\n * - `require`: supported.\n * - `restrict`: must be set to 'E'.\n * - `scope`:
supported.\n * - `template`: supported.\n * - `templateUrl`: supported.\n * - `terminal`: ignored.\n * `transclude`: supported.\n *\n *\n * ### Example\n *\n * ```\n * const adapter = new
UpgradeAdapter(forwardRef(() => MyNg2Module));\n * const module = angular.module('myExample', []);\n *\n
* module.directive('greet', function() {\n * return {\n * scope: {salutation: '=', name: '=' },\n * template:
'{{salutation}} {{name}}! - <span ng-transclude></span>'\n * };\n * });\n *\n * module.directive('ng2',
adapter.downgradeNg2Component(Ng2Component));\n *\n * @Component({\n * selector: 'ng2',\n *
template: 'ng2 template: <greet salutation=\"Hello\" [name]=\"world\">text</greet>'\n * })\n * class
Ng2Component {\n * }\n *\n * @NgModule({\n * declarations: [Ng2Component,
adapter.upgradeNg1Component('greet')],\n * imports: [BrowserModule]\n * })\n * class MyNg2Module {}\n
*\n * document.body.innerHTML = '<ng2></ng2>';\n *\n * adapter.bootstrap(document.body,

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```
[myExample'].ready(function() { 
  expect(document.body.textContent).toEqual('ng2 template: Hello world! -
text'); })

angular.module('myExample').controller('MyCtrl', function($scope) { 
  $scope.myProperty = 'Hello World!';
})

angular.module('myExample').directive('myDir', function() { 
  return { 
    restrict: 'C', 
    template: '<div>{{myProperty}}</div>', 
    scope: 
  };
})

angular.module('myExample').factory('MyFactory', function() { 
  return { 
    myMethod: function() { 
      return 'Hello World!';
    }
  };
})
```

```js
// UpgradeNg1ComponentAdapterBuilder is used to build the adapter for upgrading Ng1 components to Ng2.

export default class UpgradeNg1ComponentAdapterBuilder {
  constructor(name: string) {
    this.name = name;
  }

  build() {
    return { 
      name: this.name,
      type: UpgradeNg1ComponentAdapterBuilder
    };
  }
}
```

```js
// The UpgradeAdapter class provides a way to upgrade AngularJS components to Angular.

export default class UpgradeAdapter {
  constructor() { 
  }

  registerForNg1Tests(modules?: string[]) {
    return { 
      modules: modules,
      registerForNg1Tests: (modules: string[]) => { 
        expect(document.body.textContent).toEqual('Hello World!');
      }
    };
  }
}
```

```js
// The UpgradeAdapterRef class provides a way to access the UpgradeAdapter instance.

export default class UpgradeAdapterRef {
  constructor() { 
  }

  ready() { 
    return new Promise((resolve) => { 
      resolve();
    });
  }
}
```

```js
// The upgradeNg1Component method is used to upgrade Ng1 components to Ng2.

export default function upgradeNg1Component(name: string): Type<any> { 
  if ((<any>this.ng1ComponentsToBeUpgraded).hasOwnProperty(name)) { 
    return this.ng1ComponentsToBeUpgraded[name].type;
  } else { 
    return (this.ng1ComponentsToBeUpgraded[name] = new UpgradeNg1ComponentAdapterBuilder(name)).type;
  }
}
```

```js
// The registerForNg1Tests method is used to register Ng1 modules for testing.

export default function registerForNg1Tests(modules: string[]) { 
  return { 
    modules: modules,
    registerForNg1Tests: (modules: string[]) => { 
      expect(document.body.textContent).toEqual('Hello World!');
    }
  };
}
```

```js
// The bootstrap method is used to initialize the Angular application.

export default function bootstrap(element: Element, modules: string[], config: IAngularBootstrapConfig) { 
  expect(document.body.textContent).toEqual('ng1 template: Hello world! -
text');
}
```
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UpgradeAdapter(MyNg2Module):\n *\n * const module = angular.module('myExample', []);\n * module.service('server', Server);

### Example\n\n```\n\n```

### Example\n\n```\n\n```
Found in path(s):
* /opt/ws_local/PERMITS_SQL/1047774535_1591199783.98/0/angular-upgrade-9-0-7-src-zip/fesm2015/upgrade.js.map

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

"version":3, "file": "static__testing.js", "sources": ["../../../../../../../packages/upgrade/src/common/src/angular1.ts", ".\../../../../../../../packages/upgrade/src/common/src/constants.ts", ".\../../../../../../../packages/upgrade/static/testing/src/create_angular_testing_module.ts", ".\../../../../../../../packages/upgrade/static/testing/src/create_angularjs_testing_module.ts", ".\../../../../../../../packages/upgrade/static/testing/public_api.ts", ".\../../../../../../../packages/upgrade/static/testing/index.ts", ".\../../../../../../../packages/upgrade/static/testing/testing.ts"], "sourcesContent": ["/**
 * @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?: {};
  $inject?: string[];
}

export type IInjectable = Ng1Expression | 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;

controller(name: string, type: Injectable): IModule;

factory(key: Ng1Token, factoryFn: Injectable): IModule;

value(key: Ng1Token, value: any): IModule;

constant(token: Ng1Token, value: any): IModule;

run(a: IInjectable): IModule;

entity(element: Element|NodeList|Node[]|string, transclude?: Function): ILinkFn;

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

export interface ILinkFnOptions {
  parentBoundTranscludeFn?: Function;
}

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;
SevalAsync(exp: Ng1Expression, locals?: any): void;
$on(event: string, fn?: (event?: any, ...args: any[]) => void): Function;
$childTail: IScope;
$chайлHead: IScope;
$snextSibling: IScope;
[key: string]: any;

export interface IScope extends IRootScopeService {
$unsubscribe: Function;
}
export interface IAngularBootstrapConfig { strictDi?: boolean;
}
export interface IDirective {
  compile?: IDirectiveCompileFn;
  controller?: IController;
  controllerAs?: string;
  bindToController?: boolean|{
[key: string]: string;
}

export interface IScope extends IRootScopeService {}

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  controller?: IController;
  controllerAs?: string;
  bindToController?: boolean|{
[key: string]: string;
}

export interface IScope extends IRootScopeService {}

export interface IAngularBootstrapConfig { strictDi?: boolean;
}
export interface IDirective {
  compile?: IDirectiveCompileFn;
  controller?: IController;
  controllerAs?: string;
  bindToController?: boolean|{
[key: string]: string;
}

export interface IScope extends IRootScopeService {}

export interface IAngularBootstrapConfig { strictDi?: boolean;
}
export interface IDirective {
  compile?: IDirectiveCompileFn;
  controller?: IController;
  controllerAs?: string;
  bindToController?: boolean|{
[key: string]: string;
}

export interface IScope extends IRootScopeService {}

export interface IAngularBootstrapConfig { strictDi?: boolean;
}
export interface IDirective {
  compile?: IDirectiveCompileFn;
  controller?: IController;
  controllerAs?: string;
  bindToController?: boolean|{
[key: string]: string;
}

export interface IScope extends IRootScopeService {}

export interface IAngularBootstrapConfig { strictDi?: boolean;
}
export interface IDirective {
  compile?: IDirectiveCompileFn;
  controller?: IController;
  controllerAs?: string;
  bindToController?: boolean|{
[key: string]: string;
}

export interface IScope extends IRootScopeService {}

export interface IAngularBootstrapConfig { strictDi?: boolean;
}
export interface IDirective {
  compile?: IDirectiveCompileFn;
  controller?: IController;
  controllerAs?: string;
  bindToController?: boolean|{
[key: string]: string;
}

export interface IScope extends IRootScopeService {}

export interface IAngularBootstrapConfig { strictDi?: boolean;
}
export interface IDirective {
  compile?: IDirectiveCompileFn;
  controller?: IController;
  controllerAs?: string;
  bindToController?: boolean|{
[key: string]: string;
}

export interface IScope extends IRootScopeService {}

export interface IAngularBootstrapConfig { strictDi?: boolean;
}
import * as angular from '../../../src/common/src/angular1';
import {$INJECTOR, INJECTOR_KEY, UPGRADE_APP_TYPE_KEY} from '../src/common/src/constants';
import {UpgradeAppType} from '../src/common/src/util';

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

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

@Module({providers: [{provide: SInjector, useFactory: SInjectorFactory}]})
nexport class AngularTestingModule {
  constructor(i: Injector) {
    i.$injector = $injector;
  }
}

/**
 * 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 AngularJS
 * 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 '@provider' 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.

 * <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'.

 * 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 controllers.
 * 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 `createAngularTestingModule` in the same spec as `createAngularJSTestingModule`.

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

 * @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.

 * @publicApi
 */
export function createAngularTestingModule(
    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;
}

/**
 * @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 {Injector} from '@angular/core';
import { TestBed } from '@angular/core/testing';

import * as ng from '../../../src/common/src/angular1';
import {$INJECTOR, INJECTOR_KEY, UPGRADE_APP_TYPE_KEY} from '../../../src/common/src/constants';
import {UpgradeAppType} from '../../../src/common/src/util';


/*
 * 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 
*/

Open Source Used In MSX Platform Services 3.9.0  4399
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`. If you are using a downgraded Angular service in your application, you will need to use the `Injector` to instantiate it. The resulting configuration does not wire up AngularJS digestes to Zone hooks. It is the responsibility of the test writer to call `SrootScope.Sapply`, as necessary, to trigger AngularJS handlers of async events from Angular.

In the following code snippet, `heroesService` is a downgraded Angular service that we are accessing from AngularJS.

```javascript
<code-example
path="upgrade/static/ts/full/module.spec.ts"
region="angularjs-spec"></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.

In the following code snippet, `heroesService` is a downgraded Angular service that we are accessing from AngularJS.

```javascript
<code-example
path="upgrade/static/ts/full/module.spec.ts"
region="angularjs-spec"></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.

```javascript
<code-example
path="upgrade/static/ts/full/module.spec.ts"
region="angularjs-spec"></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.

```javascript
<code-example
path="upgrade/static/ts/full/module.spec.ts"
region="angularjs-spec"></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.

```javascript
<code-example
path="upgrade/static/ts/full/module.spec.ts"
region="angularjs-spec"></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.

```javascript
<code-example
path="upgrade/static/ts/full/module.spec.ts"
region="angularjs-spec"></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.

```javascript
<code-example
path="upgrade/static/ts/full/module.spec.ts"
region="angularjs-spec"></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.

```javascript
<code-example
path="upgrade/static/ts/full/module.spec.ts"
region="angularjs-spec"></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.

```javascript
<code-example
path="upgrade/static/ts/full/module.spec.ts"
region="angularjs-spec"></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.

```javascript
<code-example
path="upgrade/static/ts/full/module.spec.ts"
region="angularjs-spec"></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.

```javascript
<code-example
path="upgrade/static/ts/full/module.spec.ts"
region="angularjs-spec"></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.

```javascript
<code-example
path="upgrade/static/ts/full/module.spec.ts"
region="angularjs-spec"></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.

```javascript
<code-example
path="upgrade/static/ts/full/module.spec.ts"
region="angularjs-spec"></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.

```javascript
<code-example
path="upgrade/static/ts/full/module.spec.ts"
region="angularjs-spec"></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.

```javascript
<code-example
path="upgrade/static/ts/full/module.spec.ts"
region="angularjs-spec"></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.

```javascript
<code-example
path="upgrade/static/ts/full/module.spec.ts"
region="angularjs-spec"></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.
Found in path(s):
* /opt/ws_local/PERMITS_SQL/1047774535_1591199783.98/0/angular-upgrade-9-0-7-src-zip/fesm5/static/testing.js.map

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

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

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1047774535_1591199783.98/0/angular-upgrade-9-0-7-src-zip/README.md
No license file was found, but licenses were detected in source scan.

/**
 * @license
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 *
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 */

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1047774535_1591199783.98/0/angular-upgrade-9-0-7-src.zip/esm2015/static/src/downgrade_module.js
* /opt/ws_local/PERMITS_SQL/1047774535_1591199783.98/0/angular-upgrade-9-0-7-src.zip/esm2015/static/testing/src/create_angularjs_testing_module.js
* /opt/ws_local/PERMITS_SQL/1047774535_1591199783.98/0/angular-upgrade-9-0-7-src.zip/esm5/src/dynamic/src/upgrade_ng1_adapter.js
* /opt/ws_local/PERMITS_SQL/1047774535_1591199783.98/0/angular-upgrade-9-0-7-src.zip/esm5/src/common/src/component_info.js
* /opt/ws_local/PERMITS_SQL/1047774535_1591199783.98/0/angular-upgrade-9-0-7-src.zip/esm5/src/common/src/version.js
* /opt/ws_local/PERMITS_SQL/1047774535_1591199783.98/0/angular-upgrade-9-0-7-src.zip/esm5/static/testing/src/create_angularjs_testing_module.js
* /opt/ws_local/PERMITS_SQL/1047774535_1591199783.98/0/angular-upgrade-9-0-7-src.zip/esm5/src/common/src/upgrade_module.js
* /opt/ws_local/PERMITS_SQL/1047774535_1591199783.98/0/angular-upgrade-9-0-7-src.zip/esm5/src/common/src/component_adapter.js
* /opt/ws_local/PERMITS_SQL/1047774535_1591199783.98/0/angular-upgrade-9-0-7-src.zip/esm5/src/common/src/util.js
* /opt/ws_local/PERMITS_SQL/1047774535_1591199783.98/0/angular-upgrade-9-0-7-src.zip/esm5/static/src/util.js
* /opt/ws_local/PERMITS_SQL/1047774535_1591199783.98/0/angular-upgrade-9-0-7-src.zip/esm5/static/src/downgrade_module.js
* /opt/ws_local/PERMITS_SQL/1047774535_1591199783.98/0/angular-upgrade-9-0-7-src.zip/esm2015/static/src/downgrade_component.js
* /opt/ws_local/PERMITS_SQL/1047774535_1591199783.98/0/angular-upgrade-9-0-7-src.zip/esm2015/static/src/downgrade_component_adapter.js
* /opt/ws_local/PERMITS_SQL/1047774535_1591199783.98/0/angular-upgrade-9-0-7-src.zip/esm2015/src/common/src/downgrade_component.js
* /opt/ws_local/PERMITS_SQL/1047774535_1591199783.98/0/angular-upgrade-9-0-7-src.zip/esm2015/src/common/src/util.js
* /opt/ws_local/PERMITS_SQL/1047774535_1591199783.98/0/angular-upgrade-9-0-7-src.zip/esm2015/src/common/src/constants.js
* /opt/ws_local/PERMITS_SQL/1047774535_1591199783.98/0/angular-upgrade-9-0-7-src.zip/esm2015/index.js
No license file was found, but licenses were detected in source scan.

```javascript
"version":3,"file":"static__testing.js","sources":["../../../../packages/upgrade/src/common/src/angular1.ts","..."..."packages/upgrade/module.test.ts","..."..."packages/upgrade/static/testing/src/create_angularjs_testing_module.ts","..."..."packages/upgrade/static/testing/testing.test.ts"],"sourcesContent":["/**
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 *
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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
}

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

Open Source Used In MSX Platform Services 3.9.0  4404
noNg, version: undefined as any, resumeBootstrap: noNg, getTestability: noNg

try { if (window.hasOwnProperty('angular')) { angular = (<any>window).angular; } } catch { ignore in CJS mode. } return */@deprecated Use `setAngularJSGlobal` instead. */@deprecated Use `getAngularJSGlobal` instead. */@deprecated Use `setAngularJSGlobal` instead.

/**
 * @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`. */
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 = angular.element.cleanData;

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);

/**
 * @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
 */

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_MODULE_NAME = '$$UpgradeModule';

export {UpgradeAppType} from '../../../src/common/src/util';

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

import * as angular from '../../../src/common/src/angular1';
import {$INJECTOR, INJECTOR_KEY, UPGRADE_APP_TYPE_KEY} from '../../../src/common/src/constants';

@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* and AngularJS injectors without the need to actually bootstrap a hybrid application.*
 *
 * Use the returned class as an "import" when
 * configuring the `TestBed`.
 *
 * In the following code snippet, we are configuring the TestBed with two
 * imports. */

@injector: angular.InjectorService

@Injector

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

/**
 * Resets the AngularJS global. * Used when AngularJS is loaded lazily, and
 * not available on `window`. */
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 = angular.element.cleanData;

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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 * 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 UPGRADE_MODULE_NAME = '$$UpgradeModule';

export {UpgradeAppType} from '../../../src/common/src/util';

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

import * as angular from '../../../src/common/src/angular1';
import {$INJECTOR, INJECTOR_KEY, UPGRADE_APP_TYPE_KEY} from '../../../src/common/src/constants';

@NgModule({providers: [{provide: $INJECTOR, useFactory: $injectorFactory}]
})
export class AngularTestingModule {
  constructor(i: Injector) { injector = i; }
}
needed by the AngularJS `\$injector`. In the following code snippet, `HeroesService` is an Angular service that depends upon an AngularJS service, `titleCase`. This helper is for testing services not components. For Component testing you must still bootstrap a hybrid app. See `UpgradeModule` or `downgradeModule` for more information. The resulting configuration does not wire up AngularJS digest to Zone hooks. It is the responsibility of the test writer to call `$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`. 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 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 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`.

```typescript
angular.module('$$angularJSTestingModule', angularJSModules)
  .constant(UPGRADE_APP_TYPE_KEY, UpgradeAppType.Static)
  .factory(INJECTOR_KEY, () => injector);

injector = angular.injector(['ng', '$$angularJSTestingModule'], strictDi);
return AngularTestingModule.$injector.$get();

const $injector = angular.injector(['ng', 'AngularTestingModule']);

export function createAngularTestingModule(angularJSModules: string[], strictDi?: boolean): Type<any>
```
```typescript
export function createAngularJSTestingModule(angularModules: any[]): string {
  return ng.module_('$$angularJSTestingModule', angularModules)
    .constant('UPGRADE_APP_TYPE_KEY', UpgradeAppType.Static)
    .factory('INJECTOR_KEY', ($injector: ng.IInjectorService) => {
      TestBed.configureTestingModule({
        imports: angularModules,
        providers: [provide: $INJECTOR, useValue: $injector]
      });
      return TestBed.inject(INJECTOR_KEY);
    })
    .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';
```
* @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, global.ng = global.ng || {}, global.ng.upgrade = global.ng.upgrade || {}),
    global.ng.upgrade.static = {});
}(this, (function (exports, core, platformBrowser) { 'use strict';

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

    /*
     * @license
     * Copyright (c) 2010-2020 Google LLC. https://angular.io
     * License: MIT
     */
    var Reflect, Promise;
resume("next", value); }

function reject(value) {
  resume("throw", value);
}

function settle(f, v) {
  if (f && f.o, i[0] = o[n] ? function (v) { return p = !p ? { value: 
    __await(o[n](v)), done: n === "return" } : f ? f(v) : v : f; }

  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, verb("next"), verb("throw"), verb("return"), i[Symbol.asyncIterator] = function () {
      return new Promise(function (resolve, reject) {
        v = o[n](v), settle(resolve, reject, v, done, v.value);
      });
    }
  }

  function __importStar(mod) {
    if (mod && mod.__esModule) return mod;
    var result = {};
    if (mod != null) for (var k in mod) if (Object.hasOwnProperty.call(mod, k)) result[k] = mod[k];
    result.default = mod;
    return result;
  }

  function __importDefault(mod) {
    return (mod && mod.__esModule) ? mod : {
      default: mod }
  }

  /**
   * @license
   * Copyright Google Inc. All Rights Reserved.
   *
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   * found in the LICENSE file at https://angular.io/license
   */
  var $COMPILE = '$compile';
  var $CONTROLLER = '$controller';
  var $DELEGATE = '$delegate';
  var $EXCEPTION_HANDLER = '$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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   *
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   * found in the LICENSE file at https://angular.io/license
   */
  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(/\w+:\w+/g, function onSuffix(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;
    })
  }

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      console.error(e, e.stack);
    } else {
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    throw e;
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  var REQUIRE_NG_MODEL = '?ngModel';
  var UPGRADE_MODULE_NAME = '$$$UpgradeModule';

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    if (console.error) {
      console.error(e, e.stack);
    } else {
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      console.log(e, e.stack);
    }
    throw e;
  }

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  }

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    return name.replace(/\w+:\w+/g, function onSuffix(e) {
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      if (console.error) {
        console.error(e, e.stack);
      } else {
        // tslint:disable-next-line:no-console
        console.log(e, e.stack);
      }
      throw e;
    })
  }

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  var $TEMPLATE_REQUEST = '$templateRequest';
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  var NG_ZONE_KEY = '$$$angularNgZone';
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  var REQUIRE_NG_MODEL = '?ngModel';
  var UPGRADE_MODULE_NAME = '$$$UpgradeModule';

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    // 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(/\w+:\w+/g, function onSuffix(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 (_, letter) { return letter.toUpperCase(); }

function getClassName(type) {
    return type.name || type.toString().split(/\n/)[0];
}

function getDowngradedModuleCount($injector) {
    if ($injector.has(DOWNGRADED_MODULE_COUNT_KEY))
        return $injector.get(DOWNGRADED_MODULE_COUNT_KEY) || 0;
    $injector.has(DOWNGRADED_MODULE_COUNT_KEY) ?
        $injector.get(DOWNGRADED_MODULE_COUNT_KEY) :
            0;
}

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(/\n/)[0];
}

function validateInjectionKey($injector, downgradedModule, injectionKey, attemptedAction) {
    var upgradeAppType = $injector.has(UPGRADE_APP_TYPE_KEY) ?
        $injector.get(UPGRADE_APP_TYPE_KEY) :
            0 /* None */;
    var $injector = $injector.has(injectionKey) ?
        $injector.get(injectionKey) :
            0 /* None */;
    switch (upgradeAppType) {
        case 1 /* Dynamic */:
        case 2 /* Static */:
            if (downgradedModule) {
                throw new Error("Error while " + attemptedAction + ": 'downgradedModule' unexpected specified.
" +
                'You should not specify a value for \downgradedModule\', unless
you are downgrading ' +
        'more than one Angular module (via \downgradedModule()\').
    }
    break;
    case 3 /* 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:');
    }
    break;
    default:
        throw new Error("Error while " + attemptedAction + ": Not a
valid '@angular/upgrade' application.\n" +
            'Did you forget to downgrade an Angular module or include it in the AngularJS
' +
        'application?');
    }
}

/**
 * @return Whether the passed-in component implements the subset of the
 *     `ControlValueAccessor`
 *     interface needed for AngularJS `ng-model`
 *     compatibility.
 */
function supportsNgModel(component) {
    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).
 */
function hookupNgModel(ngModel, component) {
    if (ngModel && supportsNgModel(component)) {
        ngModel.$render = function () { component.writeValue(ngModel.$viewValue); };
        component.registerOnChange(ngModel.$setViewValue.bind(ngModel));
        if (typeof component.registerOnTouched === 'function') {
            component.registerOnTouched(ngModel.$setViewValue.bind(ngModel));
        }
    }
}

/**
 * Test two values for strict equality, accounting for the fact that `NaN !== NaN`.
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 * found in the LICENSE file at https://angular.io/license
 */
function strictEquals(val1, val2) {
    return val1 === val2 || (val1 !== val1 && val2 !== val2);
}

function downgrade(args) {
    this.element = element;
    this.attrs = attrs;
    this.scope = scope;
    this.ngModel = ngModel;
    this.parentInjector = parentInjector;
    this.$injector = $injector;
    this.$compile = $compile;
    this.$parse = $parse;
    this.componentFactory = componentFactory;
    this.wrapCallback = wrapCallback;
    this.implementsOnChanges = false;
    this.inputChangeCount = 0;
    this.inputChanges = {};
    this.componentScope = scope.$new();
    this.element = element;
    this.attrs = attrs;
    this.scope = scope;
    this.ngModel = ngModel;
    this.parentInjector = parentInjector;
    this.$injector = $injector;
    this.$compile = $compile;
    this.$parse = $parse;
    this.componentFactory = componentFactory;
    this.$compile = $compile;
    this.$parse = $parse;
    this.implementsOnChanges = false;
    this.inputChangeCount = 0;
    this.inputChanges = {};
    this.componentScope = scope.$new();
    this.element = element;
    this.attrs = attrs;
    this.scope = scope;
    this.ngModel = ngModel;
    this.parentInjector = parentInjector;
    this.$injector = $injector;
    this.$compile = $compile;
    this.$parse = $parse;
    this.componentFactory = componentFactory;
    this.$compile = $compile;
    this.$parse = $parse;
    this.implementsOnChanges = false;
    this.inputChangeCount = 0;
    this.inputChanges = {};
    this.componentScope = scope.$new();
    this.element = element;
    this.attrs = attrs;
    this.scope = scope;
    this.ngModel = ngModel;
    this.parentInjector = parentInjector;
    this.$injector = $injector;
    this.$compile = $compile;
    this.$parse = $parse;
    this.componentFactory = componentFactory;
    this.$compile = $compile;
    this.$parse = $parse;
    this.implementsOnChanges = false;
    this.inputChangeCount = 0;
    this.inputChanges = {};
    this.componentScope = scope.$new();
    this.element = element;
    this.attrs = attrs;
    this.scope = scope;
    this.ngModel = ngModel;
    this.parentInjector = parentInjector;
    this.$injector = $injector;
    this.$compile = $compile;
    this.$parse = $parse;
    this.componentFactory = componentFactory;
    this.$compile = $compile;
    this.$parse = $parse;
    this.implementsOnChanges = false;
    this.inputChangeCount = 0;
    this.inputChanges = {};
    this.componentScope = scope.$new();
    this.element = element;
    this.attrs = attrs;
    this.scope = scope;
    this.ngModel = ngModel;
    this.parentInjector = parentInjector;
    this.$injector = $injector;
    this.$compile = $compile;
    this.$parse = $parse;
    this.componentFactory = componentFactory;
    this.$compile = $compile;
    this.$parse = $parse;
    this.implementsOnChanges = false;
    this.inputChangeCount = 0;
    this.inputChanges = {};
    this.componentScope = scope.$new();
}
function () {

    var _this = this;
    var compiledProjectableNodes = [];

    var projectableNodes = this.groupProjectableNodes().map(function (nodes) {
        return _this.$compile(nodes);
    });

    var linkFns = projectableNodes.map(function (linkFn) {
        linkFn(_this.scope, function (clone) {
            _this.element.append(clone);
        });
    });

    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.createChildInjector(projectableNodes, this.element[0]);

    this.viewChangeDetector = this.componentRef.changeDetectorRef;

    this.changeDetector = this.componentRef.changeDetectorRef;

    this.component = this.componentRef.instance;

    var testability = this.componentRef.injector.get(core.Testability, null);

    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 _loop_1 = function (i) {
        var input = new PropertyBinding(inputs[i].propName, inputs[i].templateName);,

    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 `$observe()`) in order to initialize the input in time
        // for `ngOnChanges()`. This is necessary if we are already in a `$digest`,
        // which means that
        // `ngOnChanges()` (which is called by a watcher) will run before the `$observe()`
        callback.
    } else if (attrs.hasOwnProperty(input.bindAttr)) {
        var expr = attrs[input.bindAttr];
    } else if (attrs.hasOwnProperty(input.bracketAttr)) {
        var expr = attrs[input.bracketAttr];
    } else if (attrs.hasOwnProperty(input.bindonAttr)) {
        var expr = attrs[input.bindonAttr];
    } else if (attrs.hasOwnProperty(input.bracketParenAttr)) {
        var 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);
    } else if (attrs.hasOwnProperty(input.bindAttr)) {
        var expr = attrs[input.bindAttr];
    } else if (attrs.hasOwnProperty(input.bracketAttr)) {
        var expr = attrs[input.bracketAttr];
    } else if (attrs.hasOwnProperty(input.bindonAttr)) {
        var expr = attrs[input.bindonAttr];
    } else if (attrs.hasOwnProperty(input.bracketParenAttr)) {
        var 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);
    } else if (propagateDigest) {
        var inputChanges = _this.inputChanges;
        _this.inputChanges = {};

        var watchFn = (function (prop) { return function (currValue, prevValue) {
            return _this.updateInput(prop, prevValue, currValue);
        }; })(input.prop);
        this.componentScope.$watch(expr, watchFn);
    }

    if (this.implementsOnChanges) {
        this.component.ngOnChanges(inputChanges);
    }

    if (this.implementsOnChanges) {
        this.component.ngOnChanges(inputChanges);
    }
}
var _this = this;

_APP$ELEMENT$._viewChangeDetector.markForCheck(); // If opted out of propagating digests, invoke change
detection when inputs change.

if (propagateDigest) {
    this.componentScope.$watch(this.wrapCallback(detectChanges()));
}

// If not opted out of propagating digests, invoke change detection on every digest if
(propagateDigest) {
    this.componentScope.$watch(function () {
        unwatch_2 = null;
    });
}

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.subscribeToOutput = function (output, expr, isAssignment) {
    var _this = this;
    if (isAssignment === void 0) { isAssignment = false; }
    var getter = this.$parse(expr);
    var setter = getter.assign;
    if (isAssignment && !setter) {
        throw new Error("Expression '" + expr + "' is not assignable!");
    }
    var emitter = this.component[output.prop];
    if (emitter) {
        emitter.subscribe({
            next: isAssignment
                ? function (v) { return setter(_this.scope, v); }
                : function (v) { return getter(_this.scope, { '$event': v }); }
        });
    }
    else {
        throw new Error("Missing emitter '" + output.prop + "' on component '" + getTypeName(this.componentFactory.componentType) + "'!");
    }
}

DowngradeComponentAdapter.prototype.registerCleanup = function () {
    var _this = this;
    var testabilityRegistry = this.componentRef.injector.get(core.TestabilityRegistry);
    var destroyComponentRef = this.wrapCallback(function () { return _this.componentRef.destroy(); });
    var destroyed = false;
    this.element.on('$destroy', function () { return _this.componentScope.$destroy(); });
    this.componentScope.$on('$destroy', function () {
        if (!destroyed) {
            destroyed = true;
            testabilityRegistry.unregisterApplication(_this.componentRef.location.nativeElement);
            destroyComponentRef();
        }
    });
}

DowngradeComponentAdapter.prototype.getInjector = function () { return this.componentRef.injector; };

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());
}

DowngradeComponentAdapter.prototype.getInjector = function () { return this.componentRef.injector; };

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;
}

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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;
}
return projectableNodes;

    } catch (error) {
        console.error('Failed to project', error);
    }
}

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;
}

function findMatchingNgContentIndexWithSelection(element, selector, 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;
}

var _matches;

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

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) {
        // Do nothing, if already resolved.
        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 SyncPromise;
})();

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

/**
 * @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.
 *
 * *Examples*
 * @example upgrade/static/ts/full/module.ts

 * Let's assume that you have an Angular component called `ng2Heroes` that needs
 * to be made available in AngularJS templates.
 *
 * We must create an AngularJS [directive](https://docs.angularjs.org/guide/directive)
 * that will make this Angular component available inside AngularJS templates.
 * The `downgradeComponent()` function returns a factory function that we can use to define the AngularJS directive that wraps the
 * `ng2Heroes` 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).
 * @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.
 * - `propagateDigest?: boolean`:
 *   (This option is only necessary when using the `downgradeModule()` to downgrade more than one
 *   Angular module.)
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 aren't 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.
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```
* library for hybrid upgrade apps that support AOT compilation
*/

```
Open Source Used In MSX Platform Services 3.9.0  4426

upgrade/static/ts/full/module.ts region="downgrade-ng2-heroes-service"}\
  *un * Inside an AngularJS component’s controller we can get hold of the\n  * downgraded service via the name we gave when\n  * downgrading.\n  *un * { @example upgrade/static/ts/full/module.ts region="example-app"}\
  *un * <div class="alert is-important">\n  *un * When using `downgradeModule()`, downgraded injectables will not be\n  * available until the Angular\n  * module that provides them is instantiated. In order to be safe, you need to\n  * ensure that the\n  * downgraded injectables are not used anywhere _outside_ the part of the app where it is\n  * guaranteed that their module has been instantiated.\n  *un * 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\n  * it is _not OK_ to use it in an AngularJS component that may be used\n  * independently of Angular or\n  * use it in a downgraded Angular component from a different module.\n  *un * <div>\n  *un * @param token an `InjectionToken` that identifies a service provided from Angular.\n  *un * @param downgradeModule the name of the downgraded module (if any) that the injectable\n  * *belongs to",\n  * as returned by a call to `downgradeModule()`. It is the module, whose injector will\n  * be used for instantiating\n  * the injectable.<br />
  *un * (This option is only necessary when using `downgradeModule()` to downgrade more\n  * than one Angular\n  * module.)\n  *un * @returns a [factory function](https://docs.angularjs.org/guide/di) that\n  * can be\n  * used to register the service on an AngularJS module.\n  *un * @publicApi\n  *un * function\n  *downgradeInjectable(token, downgradeModule) {\n  *un * if (downgradeModule === void 0) { downgradeModule = ""; }\n  *un * var factory = function (Sinjector) {\n  *un * var injectorKey = "" + INJECTOR_KEY +\n  *downgradeModule;\n  *un * var injectableName = isFunction(token) ? getTypeName(token) : String(token);\n  *un * var attemptedAction = "instantiating injectable " + injectableName + "\n  *validateInjectionKey(Sinjector, downgradeModule, injectorKey, attemptedAction);\n  *un * var injector =\n  *Sinjector.get(injectorKey);\n  *un * return injector.get(token);\n  *un * }\n  *un * factory['$injector'] = [SINJECTOR];\n  *un * return factory;\n  *un * /**\n  *un * @license\n  *un * Copyright Google Inc. All Rights Reserved.\n  *un * *un * Use of\n  *un * this source code is governed by an MIT-style license that can be\n  *un * found in the LICENSE file at\n  *https://angular.io/license\n  *un * core.Version(9.0.7);\n  *un * */\n  *un * @publicApi\n  *un * var VERSION = new\n  *un * core.Version(9.0.7);\n  *un * */\n  *un * var\n  *un * // We have to do a little dance to get the ng1 injector into the module injector.\n  *un * // We store the ng1 injector so that the provider in the module injector can access it.\n  *un * // Then we get the ng1 injector from the module injector, which triggers the provider to read\n  *un * // the stored injector and release the\n  *un * // reference to it.\n  *un * var tempInjectorRef = null;\n  *un * function setTempInjectorRef(injector) {\n  *un * tempInjectorRef = injector;\n  *un * }\n  *un * function injectorFactory() {\n  *un * if (!tempInjectorRef) { throw new Error("Trying to get the AngularJS injector before it being set."); }\n  *un * var injector = tempInjectorRef;\n  *un * tempInjectorRef = null;\n  *un * // clear the value to prevent memory leaks\n  *un * return injector;\n  *un * }\n  *un * function rootScopeFactory(i) {\n  *un * return i.get("$rootScope");\n  *un * }\n  *un * function compileFactory(i) {\n  *un * return i.get("$compile");\n  *un * }\n  *un * function\n  *un * parseFactory(i) {\n  *un * return i.get("$parse");\n  *un * var angular1Injectors = [\n  *un * // We must use exported\n  *un * // named functions for the ng2 factories to keep the compiler happy:\n  *un * // Metadata collected contains an error\n  *un * // that will be reported at runtime:\n  *un * // Function calls are not supported.\n  *un * // Consider replacing the\n  *un * // function or lambda with a reference to an exported function\n  *un * { provide: 'Sinjector', useFactory: injectorFactory,\n  *un * deps: [] },\n  *un * { provide: 'ScopeScope', useFactory: rootScopeFactory,\n  *un * deps: ['Sinjector'] },\n  *un * { provide: 'Compile', useFactory: compileFactory,\n  *un * deps: ['Sinjector'] },\n  *un * { provide: 'Parse', useFactory: parseFactory,\n  *un * deps: ['Sinjector'] },\n  *un * /**\n  *un * @license\n  *un * Copyright Google Inc. All Rights Reserved.\n  *un * *un * Use of\n  *un * this source code is governed by an MIT-style license that can be\n  *un * found in the LICENSE file at\n  *https://angular.io/license\n  *un * var NgAdapterInjector = /*@class*/ {\n  *un * function\n  *un * NgAdapterInjector(modInjector) {\n  *un * this.modInjector = modInjector;\n  *un * }\n  *un * // When Angular locate a\n  *un * // service in the component injector tree, the not found value is set to\n  *un * // 'NOT_FOUND_CHECK_ONLY_ELEMENT_INJECTOR'. In such a case we should not walk up to the module\n  *un * // injector\n  *un * // AngularJS only supports a single tree and should always check the module injector.\n  *un *}
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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     * an MIT-style license that can be
     * found in the LICENSE file at https://angular.io/license
     */
    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/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.
     * 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:

    * - `NgModuleFactory`: If you pass an `NgModuleFactory`, it will be used to instantiate a module
     *   using `platformBrowser`'s `{@link PlatformRef#bootstrapModuleFactory bootstrapModuleFactory}()`. 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.

    * 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.

    * 2. Unlike `UpgradeModule`,
     * `downgradeModule()` does not automatically run

    * [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.

    * `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
     * [Upgrading for

    * Performance](guide/upgrade-performance).

    * You can manually trigger a change detection run in AngularJS using

    * [scope.$apply(...)](https://docs.angularjs.org/api/ng/type/$rootScope.Scope#$apply) or

    * [scope.$digest()](https://docs.angularjs.org/api/ng/type/$rootScope.Scope#$digest).

    * 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 `@link PlatformRef#bootstrapModule` `bootstrapModule()` or `@link PlatformRef#bootstrapModuleFactory` `bootstrapModuleFactory()` to bootstrap them 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 `* @publicApi`)

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 ' +
            'Angular module.');
      }
      return injector;
    })
    .factory(LAZY_MODULE_REF, [lazyModuleRefKey, identity])
    .factory(lazyModuleRefKey, function () {
      if (!injector) {
        throw new Error('Trying to get the Angular injector before bootstrapping the corresponding ' +
            'Angular module.');
      }
      return injector;
    });
  injector.$injector.get($INJECTOR);
  injector.$controller = injector.$injector.get($CONTROLLER);
  injector.$element = injector.nativeElement;
  injector.$controller = injector.$injector.get($CONTROLLER);

this.element = elementRef.nativeElement;
this.$element = this.$injector.nativeElement;

var directive = UpgradeHelper.getDirective($injector, name, elementRef, directive); 

$provide.constant(DOWNGRADED_MODULE_COUNT_KEY, getDowngradedModuleCount($injector) + 1);

if (fetchRemoteTemplate === void 0) { fetchRemoteTemplate = false; }

var directive = UpgradeHelper.getDirective($injector, name, elementRef, directive); 

var directive = UpgradeHelper.getDirective($injector, name, elementRef, directive); 

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```javascript
var $injector = angular.injector(['ng']);
var templateUrl = $injector.get($TEMPLATE_CACHE).get(url_1);
if (template !== undefined) {
    return template;
} else if (!fetchRemoteTemplate) {
    throw new Error('loading directive templates asynchronously is not supported');
} else if (directive.templateUrl) {
    var $templateCache_1 = $injector.get($TEMPLATE_CACHE);
    var url_1 = getOrCall(directive.templateUrl, $element);
    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 + "'");
            }
        });
    });
} else {
    throw new Error("Directive '" + directive.name + "' is not a component, it is missing template.");
}
```

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 on the component+child elements.
    // Equivalent to how jQuery/jqLite invoke `cleanData` on an Element
    // `cleanData` will invoke the AngularJS `$destroy` DOM event
    // `cleanData` will invoke the AngularJS `$destroy` DOM event
    // `cleanData` will invoke the AngularJS `$destroy` DOM event
    // `cleanData` will invoke the AngularJS `$destroy` DOM event
    this.$element.cleanData(
        this.$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.
        return cloneAttachFn($template, scope);
    };
    var $template = contentChildNodes;
    if (transclude) {
        var slots_1 = Object.create(null);
        if (typeof transclude === 'object') {
            $template = [];
            var slotMap_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;
                var slotMap_1[slotName] = slotName;
                var slots_1[slotName] = null; // 'null': Defined but not yet filled.
                if (typeof selector === 'object') {
                    var $template = [];
                    var slotMap_1 = Object.create(null);
                    var filledSlots_1 = Object.create(null);
                    if (transclude) {
                        var selected = null;
                        var selectedNodes = each(function (node) {
                            var slotName = slotMap_1[directiveNormalize(node.nodeName.toLowerCase())];
                            if (slotName) {
                                filledSlots_1[slotName] = optional; // Consider optional slots as filled.
                                var selectedNodes.push(node);
                            } else {
                                $template.push(node);
                            }
                        });
                        // 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);
                            }
                        });
                    }
                }
            });
        }
    }
};
```

https://github.com/angular/angular.js/blob/26dc5f830902a3d22f4b2ab70d86d4d688c82/src/jqLite.js#L306-L312

https://github.com/jquery/jquery/blob/e743ebd28553267f955f71ea7248377915613fd9/src/manipulation.js#L223

// `cleanData` will invoke the AngularJS `$destroy` DOM event
// `cleanData` will invoke the AngularJS `$destroy` DOM event
// `cleanData` will invoke the AngularJS `$destroy` DOM event
// `cleanData` will invoke the AngularJS `$destroy` DOM event
}\n
});\n
// Check for required slots that were not filled.\n
Object.keys(filledSlots_1).forEach(function (slotName) {\n
if (!filledSlots_1[slotName]) {\n
throw new Error(\"Required transclusion slot '\" + slotName + \"' on directive: \" + _this.name);\n
}\n
});\n
Object.keys(slots_1).filter(function (slotName) { return slots_1[slotName];
}).forEach(function (slotName) {\n
var nodes = slots_1[slotName];\n
slots_1[slotName]
= function (scope, cloneAttach) {\n
return cloneAttach(nodes, scope);\n
};\n
});\n
}\n
// Attach `$$slots` to default slot transclude fn.\n
attachChildrenFn.$$slots =
slots_1;\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\n
// 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_nonjoiner)\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
$template.forEach(function (node) {\n
if
(node.nodeType === Node.TEXT_NODE && !node.nodeValue) {\n
node.nodeValue = '\\u200C';\n
}\n
});\n
}\n
return attachChildrenFn;\n
};\n
UpgradeHelper.prototype.resolveAndBindRequiredControllers = function (controllerInstance) {\n
var
directiveRequire = this.getDirectiveRequire();\n
var requiredControllers =
this.resolveRequire(directiveRequire);\n
if (controllerInstance && this.directive.bindToController &&
isMap(directiveRequire)) {\n
var requiredControllersMap_1 = requiredControllers;\n
Object.keys(requiredControllersMap_1).forEach(function (key) {\n
controllerInstance[key] =
requiredControllersMap_1[key];\n
});\n
}\n
return requiredControllers;\n
};\n
UpgradeHelper.prototype.compileHtml = function (html) {\n
this.element.innerHTML = html;\n
return
this.$compile(this.element.childNodes);\n
};\n
UpgradeHelper.prototype.extractChildNodes = function ()
{\n
var childNodes = [];\n
var childNode;\n
while (childNode = this.element.firstChild) {\n
this.element.removeChild(childNode);\n
childNodes.push(childNode);\n
}\n
return
childNodes;\n
};\n
UpgradeHelper.prototype.getDirectiveRequire = function () {\n
var require =
this.directive.require || (this.directive.controller && this.directive.name);\n
if (isMap(require)) {\n
Object.keys(require).forEach(function (key) {\n
var value = require[key];\n
var match =
value.match(REQUIRE_PREFIX_RE);\n
var name = value.substring(match[0].length);\n
if
(!name) {\n
require[key] = match[0] + key;\n
}\n
});\n
}\n
return
require;\n
};\n
UpgradeHelper.prototype.resolveRequire = function (require, controllerInstance) {\n
var _this = this;\n
if (!require) {\n
return null;\n
}\n
else if (Array.isArray(require)) {\n
return require.map(function (req) { return _this.resolveRequire(req); });\n
}\n
else if (typeof
require === 'object') {\n
var value_1 = {};\n
Object.keys(require).forEach(function (key) { return
value_1[key] = _this.resolveRequire(require[key]); });\n
return value_1;\n
}\n
else if (typeof
require === 'string') {\n
var match = require.match(REQUIRE_PREFIX_RE);\n
var inheritType
= match[1] || match[3];\n
var name_1 = require.substring(match[0].length);\n
var isOptional =
!!match[2];\n
var searchParents = !!inheritType;\n
var startOnParent = inheritType === '^^';\n
var ctrlKey = controllerKey(name_1);\n
var elem = startOnParent ? this.$element.parent() :
this.$element;\n
var value = searchParents ? 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 + \"': \" + require);\n
}\n
};\n
return UpgradeHelper;\n }());\n function getOrCall(property) {\n
var args = [];\n
for (var _i =
1; _i < arguments.length; _i++) {\n
args[_i - 1] = arguments[_i];\n
}\n
return isFunction(property) ?
property.apply(void 0, __spread(args)) : property;\n }\n // NOTE: Only works for `typeof T !== 'object'`.\n

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```javascript
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}'.");
    }

    function Bindings() {
        var twoWayBoundProperties = [];
        var twoWayBoundLastValues = [];
        var expressionBoundProperties = [];
        var propertyToOutputMap = {};
    }

    class UpgradeComponent {
        constructor(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');
            // 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()?
            var $componentScope = $parentScope.$new(!this.directive.scope);
            this.initializeOutputs();
            UpgradeComponent.prototype.ngOnInit = function() {
                var this.name = name;
                var this.elementRef = elementRef;
                var this.injector = injector;
                var this.helper = new UpgradeHelper(injector, name, elementRef);
                var this.$injector = this.helper.$injector;
                var this.element = this.helper.element;
                var this.$element = this.helper.$element;
                var this.$compile = this.helper.$compile;
                var this.$element = this.helper.$element;
                var this.$controllerInstance = this.helper.$controllerInstance;
                var this.$componentScope = this.$elementScope.$new(!this.directive.scope);
                this.initializeOutputs();
                this.bindToController = this.directive.bindToController;
                if (controllerType) {
                    this.controllerInstance = this.helper.buildController(controllerType,
                        this.$componentScope);
                } else if (bindToController) {
                    throw new Error("Upgraded directive '{name}' + '{this.directive.name}' + '{this.directive.scope}' specifies 'bindToController' but no controller.");
                } // Set up outputs
                this.$bindToController = bindToController ? this.controllerInstance : this.$controllerInstance;
                var this.$bindOutputs = this.$controllerInstance;
                this.$bindRequiredControllers = this.$controllerInstance;
                // Hook: $onChanges
                if
            }
        }
    }
```
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;
    var newValues = this.bindings.newValues;
    var oldValues = twoWayBoundLastValues;
    if (!core.looseIdentical(newValues, oldValues)) {
        var propertyName = propertyToOutputMap;
        var eventEmitter = _this[propertyName];
        eventEmitter.emit(newValue);
        twoWayBoundLastValues = newValue;
    }
};

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 need to do anything special. They will be defined as inputs on the upgraded component facade and the change propagation will be handled by
                    // `ngOnChanges()`.
                    break;
                case '=':
                    bindings.twoWayBoundProperties.push(propName);
                    break;
                case '&':
                    bindings.expressionBoundProperties.push(propName);
                    break;
                default:
                    var json = JSON.stringify(context);
                    throw new Error("Unexpected mapping '" + bindingType + "' in '" + json + "' in '" + _this.name + "' directive.");
            }
        });
    }
    return bindings;
};
this[outputName] = new core.EventEmitter();

UpgradeComponent.prototype.bindOutputs = function () {
    var _this = this;
    // Bind `&` bindings to the corresponding outputs
    this.bindings.expressionBoundProperties.forEach(function (propName) {
        var outputName = this.bindings.propertyToOutputMap[propName];
        var emitter = _this[outputName];
        _this[outputName] = null;
    });
}

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;
    });
    if (isFunction(this.bindingDestination.$onChanges)) {
        this.bindingDestination.$onChanges(changes);
    }
};

/**
 * @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
 *
 * 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
 *
 * ```ts
 * import {UpgradeModule} from '@angular/upgrade/static';
 * ```
 *
 * See also the [examples](api?query=upgrade/static/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.
 * 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. Each framework only updates/interacts with its own DOM elements and ignores others.
 * 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`.
 * 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 component is instantiated the host element is owned by the framework doing the instantiation. The other framework then instantiates and owns the root component of the application.
 * 8. Angular is bootstrapped first; AngularJS is bootstrapped second.
 * 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, and has an instance method used to bootstrap the hybrid upgrade application. 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 bootstrap `NgZone` and the `AngularJS $injector`.

### Examples

Import the `UpgradeModule` into your top level AngularJS module.

```typescript
/*doBootstrap()*/
```

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

```typescript
function upgradeModule = /** @class */ (function () {
    function upgradeModule() {
        // Create an ng1 module to bootstrap
        var initModule = module_([U]
            .constant(UPGRADE_APP_TYPE_KEY, 2 /* Static */)
            .value(INJECTOR_KEY, this.injector)
            .factory(LAZY_MODULE_REF, [INJECTOR_KEY, function (injector) { return ({ injector: injector }); }])
            .config([[$provide], $injector]
                if ($injector.has($$TESTABILITY)) {
                    $provide.decorator($$TESTABILITY, [SDelegate, SINJECTOR, function (testabilityDelegate, $injector) { return (function (injector) { return ($injector.injector); }); }])
                    var originalWhenStable = testabilityDelegate.whenStable;
                    var injector = this.injector;
                    // Cannot use arrow function below because we need the context
                    var newWhenStable = function (callback) { originalWhenStable.call(testabilityDelegate, function () { if (ng2Testability.isStable()) { return testabilityDelegate.whenStable(callback); } })
                    };
                    testabilityDelegate.whenStable = newWhenStable;
                    return testabilityDelegate;
                }
                if (ng2Testability.isStable()) { return testabilityDelegate.whenStable = newWhenStable; }
                return testabilityDelegate;
                if ($injector.has($INTERVAL)) { $provide.decorator($INTERVAL, [SDelegate, SINJECTOR, function (intervalDelegate) { if ($injector.injector) { return (function (injector) { return ($injector.injector); }); }])
                    var originalWhenStable = testabilityDelegate.whenStable;
                    var injector = this.injector;
                    // Cannot use arrow function below because we need the context
                    var newWhenStable = function (callback) { originalWhenStable.call(testabilityDelegate, function () { if (ng2Testability.isStable()) { return testabilityDelegate.whenStable = newWhenStable; }
                    return testabilityDelegate;
                }
                if ($injector.has($INTERVAL)) { $provide.decorator($INTERVAL, [SDelegate, SINJECTOR, function (intervalDelegate) { if ($injector.injector) { return (function (injector) { return ($injector.injector); }); }])
            .config([[$provide], $injector]
                if ($injector.has($$TESTABILITY)) {
                    $provide.decorator($$TESTABILITY, [SDelegate, SINJECTOR, function (testabilityDelegate, $injector) { return (function (injector) { return ($injector.injector); }); }])
                    var originalWhenStable = testabilityDelegate.whenStable;
                    var injector = this.injector;
                    // Cannot use arrow function below because we need the context
                    var newWhenStable = function (callback) { originalWhenStable.call(testabilityDelegate, function () { if (ng2Testability.isStable()) { return testabilityDelegate.whenStable = newWhenStable; }
                    return testabilityDelegate;
                }
                if ($injector.has($INTERVAL)) { $provide.decorator($INTERVAL, [SDelegate, SINJECTOR, function (intervalDelegate) { if ($injector.injector) { return (function (injector) { return ($injector.injector); }); }])
            .config([[$provide], $injector]
                if ($injector.has($$TESTABILITY)) {
                    $provide.decorator($$TESTABILITY, [SDelegate, SINJECTOR, function (testabilityDelegate, $injector) { return (function (injector) { return ($injector.injector); }); }])
                    var originalWhenStable = testabilityDelegate.whenStable;
                    var injector = this.injector;
                    // Cannot use arrow function below because we need the context
                    var newWhenStable = function (callback) { originalWhenStable.call(testabilityDelegate, function () { if (ng2Testability.isStable()) { return testabilityDelegate.whenStable = newWhenStable; }
                    return testabilityDelegate;
                }
                if ($injector.has($INTERVAL)) { $provide.decorator($INTERVAL, [SDelegate, SINJECTOR, function (intervalDelegate) { if ($injector.injector) { return (function (injector) { return ($injector.injector); }); }])
            .config([[$provide], $injector]
                if ($injector.has($$TESTABILITY)) {
                    $provide.decorator($$TESTABILITY, [SDelegate, SINJECTOR, function (testabilityDelegate, $injector) { return (function (injector) { return ($injector.injector); }); }])
                    var originalWhenStable = testabilityDelegate.whenStable;
                    var injector = this.injector;
                    // Cannot use arrow function below because we need the context
                    var newWhenStable = function (callback) { originalWhenStable.call(testabilityDelegate, function () { if (ng2Testability.isStable()) { return testabilityDelegate.whenStable = newWhenStable; }
                    return testabilityDelegate;
                }
                if ($injector.has($INTERVAL)) { $provide.decorator($INTERVAL, [SDelegate, SINJECTOR, function (intervalDelegate) { if ($injector.injector) { return (function (injector) { return ($injector.injector); }); }])
            .config([[$provide], $injector]
                if ($injector.has($$TESTABILITY)) {
                    $provide.decorator($$TESTABILITY, [SDelegate, SINJECTOR, function (testabilityDelegate, $injector) { return (function (injector) { return ($injector.injector); }); }])
                    var originalWhenStable = testabilityDelegate.whenStable;
                    var injector = this.injector;
                    // Cannot use arrow function below because we need the context
                    var newWhenStable = function (callback) { originalWhenStable.call(testabilityDelegate, function () { if (ng2Testability.isStable()) { return testabilityDelegate.whenStable = newWhenStable; }
                    return testabilityDelegate;
                }
                if ($injector.has($INTERVAL)) { $provide.decorator($INTERVAL, [SDelegate, SINJECTOR, function (intervalDelegate) { if ($injector.injector) { return (function (injector) { return ($injector.injector); }); }])
```
that setInterval is called outside NgZone,\n
// but the callback is still invoked within it. This is so
that $interval\n
// won't block stability, which preserves the behavior from AngularJS\n
var wrappedInterval = function (fn, delay, count, invokeApply) {\n    var pass = [];
    for (var _i = 4; _i < arguments.length; _i++) {\n        pass[_i - 4] = arguments[_i];\n    }\n    return this.ngZone.runOutsideAngular(function () {\n        var args = [ ];\n        for (var _i = 0; _i < arguments.length; _i++) {\n            args[_i] = arguments[_i];\n        }\n        // Run callback\n        // same vm turn,\n        setTimeout(function () { _this.ngZone.run(function () {\n            return fn.apply(void 0, __spread(args)); }); });\n        }\n        }\n        }\n        return wrappedInterval();\n    }();

    /**\n     * @license\n     * 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
     */
    // This file only re-exports items to appear in the public api. Keep it that
    // same.
    /**\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
     */
}
**Packages Upgrade**

**testing_d**: 

```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/core/testing')) :
    typeof define === 'function' &&
    define.amd ? define('@angular/upgrade/static/testing', 
    ['exports', '@angular/core', '@angular/core/testing'], factory) :
    (global = global || self, factory((global.ng = global.ng || {}, global.ng.upgrade = global.ng.upgrade || {},
    global.ng.upgrade.static = global.ng.upgrade.static || {}, global.ng.upgrade.static.testing = {}),
    global.ng.core, global.ng.core.testing));
}(this, (function (exports, core, testing) { 'use strict';

    /* global Reflect, Promise */

    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);
    }; 

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

    var __assign
```
SINJECTOR = $injector;\nvar SINTERVAL = 'interval';\nvar $PARSE = 'sparse';\nvar $PROVIDE = 'provide';\nvar $ROOT_SCOPE = 'rootScope';\nvar $SCOPE = 'scope';\nvar STEMPLATE_CACHE = 'templateCache';\nvar $STEMPLATE_REQUEST = 'templateRequest';\nvar $TESTABILITY = '$testability';\nvar COMPILER_KEY = '$angularCompiler';\nvar
DOWNGRADED_MODULE_COUNT_KEY = '$angularDowngradedModuleCount';\nvar
GROUP_PROJECTABLE_NODES_KEY = '$angularGroupProjectableNodes';\nvar INJECTOR_KEY = '$angularInjector';\nvar LAZY_MODULE_REF = '$angularLazyModuleRef';\nvar NG_ZONE_KEY = '$angularNgZone';\nvar UPGRADE_APP_TYPE_KEY = '$angularUpgradeAppType';\nvar
REQUIRE_INJECTOR = '?^^' + INJECTOR_KEY;\nvar REQUIRE_NG_MODEL = '?ngModel';\nvar UPGRADE_MODULE_NAME = '$$UpgradeModule';\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
 */
var $injector = null;
var injector$1;
function $injectorFactory() {
    return $injector;
}
AngularTestingModule = /** @class */ (function () {
    function AngularTestingModule(i) {
        injector$1 = i;
    }
    AngularTestingModule = __decorate([(core.NgModule({ providers: [{ provide: INJECTOR_KEY, useFactory: $injectorFactory }]) )], AngularTestingModule);
    return AngularTestingModule;
}());

/**
 * A helper function to use when unit testing Angular services that depend upon upgraded AngularJS services.
 * This makes it simpler and faster to unit test 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, 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 `createAngularTestingModule` function creates a configuration that sets up global variables to hold the shared Angular and AngularJS injectors.
* Only call this helper once per spec.
* Do not use the `createAngularTestingModule` in the same spec as the `createAngularJSTestingModule`.
* Here is the example application and its unit tests that use the `createAngularTestingModule` and `createAngularJSTestingModule`.

### Example Application

```javascript
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;
}
```

### Example Unit Test

```javascript
describe('Angular testing', function () {
    var angularTestingModule;
    var angularJSTestingModule;

    beforeEach(function () {
        angularTestingModule = createAngularTestingModule(['ng1AppModule'], true);
        angularJSTestingModule = angular where the testing
        tests Angular services that depend upon upgraded AngularJS services.

        * 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 the `createAngularJSTestingModule`.

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

        * Do not use the `createAngularTestingModule` in the same spec as the `createAngularJSTestingModule`.

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

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

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

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

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        * Do not use the `createAngularTestingModule` in the same spec as the `createAngularJSTestingModule`.

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

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        * Do not use the `createAngularTestingModule` in the same spec as the `createAngularJSTestingModule`.

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

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

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

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

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

        * Only call this helper once per spec.
        * Do not use the `createAngularTestingModule` in the same spec as the `createAngularJSTestingModule`.
function to use when unit testing AngularJS services that depend upon downgraded Angular\n    * services.\n    * This function returns an AngularJS module that is configured to wire up the AngularJS and Angular\n    * injectors without the need to actually bootstrap a hybrid application.\n    * This makes it simpler and faster to unit test services.\n    * Use the returned AngularJS module in a call to\n    * ['angular.mocks.module'](https://docs.angularjs.org/api/ngMock/function/angular.mock.module) to\n    * include this module in the unit test injector.\n    * In the following code snippet, we are configuring the `$injector` with two modules:\n    * The AngularJS `ng1AppModule`, which is the AngularJS part of our hybrid application and the\n    * `Ng2AppModule`, which is the Angular part.\n    * <code-example\n    * path="upgrade/static/ts/full/module.spec.ts"\n    * region="angularjs-setup"></code-example>\n    * In the following code snippet, the `heroesService` is a downgraded Angular service that we are\n    * accessing from AngularJS.\n    * <div class="alert is-important">\n    * The helper sets up global variables to hold the shared Angular and AngularJS injectors.\n    * **Only call this helper once per spec.**\n    * Do not use `createAngularJSTestingModule` in the same spec as `createAngularTestingModule`.\n    * Here is the example application and its unit tests that use `createAngularTestingModule`\n    * and `createAngularJSTestingModule`.\n    * <code-pane header="module.spec.ts" path="upgrade/static/ts/full/module.spec.ts"></code-pane>\n    * @param angularModules a collection of Angular modules to include in the configuration.\n    * @publicApi
    */
    function createAngularJSTestingModule(angularModules) {
        return module_('$$angularJSTestingModule', [
    .factory(INJECTOR_KEY, [
            $INJECTOR,
            function ($injector) {
                testing.TestBed.configureTestingModule({\n                        imports: angularModules,\n                        providers: [\n                            {provide: $INJECTOR, useValue: $injector}\n                        ]\n                    });\n                return testing.TestBed.inject(core.Injector);\n            }
        ]\n    .name;}]\n    .factory(INJECTOR_KEY, [\n            $INJECTOR,\n            function (Injector) {\n                return testing.TestBed.configureTestingModule({\n                        imports: angularModules,\n                        providers: [\n                            {provide: INJECTOR_KEY, useValue: $injector}\n                        ]\n                    });\n            }
        ]\n    .name;])\n    .constant(UPGRADE_APP_TYPE_KEY, 2 /* Static */);\n}

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    * 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    * Generated bundle index. Do not edit.\n    * exports.createAngularTestingModule = createAngularTestingModule;\n    * exports.angular_packages_upgrade_static_testing_testing_a = module_;\n    * exports.angular_packages_upgrade_static_testing_testing_b = UPGRADE_APP_TYPE_KEY;\n    * exports.angular_packages_upgrade_static_testing_testing_d = INJECTOR_KEY;\n    * Object.defineProperty(exports, '_esModuleModule', { value: true });\n
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
 */

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/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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and limitations under the License.
***************************************************************************** */

Found in path(s):
* /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-zip/

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

```javascript
{"version":3,"file":"static.js","sources":[]}

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 within // Sinject?: string[]], which is not compatible with 'Sinject?: ReadonlyArray<string> (used in // latest versions).
  // Sinject?: Function extends{Sinject?: string[]}?
  $inject?: Function extends{$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;
  transcludeControllers?: {[key: string]: any};
  futureParentElement?: Node[];
  $inject(expressions?: Ng1Expression[], locals?: any): void;
  $on(event: string, fn?: (event?: any, ...args: any[]) => void): Function;
  $$childTail: IScope;
  $$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, locals?: any): void;
  $evalAsync(exp: Ng1Expression, locals?: any): void;
  $on(event: string, fn?: (event?: any, ...args: any[]) => void): Function;
  $scope: IScope;
}

export interface IDirective {
  compile?: IDirectiveCompileFn;
  controller?: IController;
  controllerAs?: string;
  bindToController?: boolean|
  restrict?: string;
  scope?: boolean|
  template?: string|
  templateUrl?: string|
  templateNamespace?: string;
  terminal?: boolean|
  transclude?:DirectiveTranscludeProperty;
  priority?: number;
  replace?: boolean;
  require?: DirectiveRequireProperty;
  restrict?: string;
  scope?: boolean|
  template?: string;
  templateUrl?: string|
  templateNamespace?: string;
  terminal?: boolean|
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  scope?: boolean|
  template?: string;
  templateUrl?: string|
  templateNamespace?: string;
  terminal?: boolean|
  transclude?:DirectiveTranscludeProperty;
  require?: DirectiveRequireProperty;
  restrict?: string;
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
 *     `ControlValueAccessor` interface needed for AngularJS `ng-model`
 *     compatibility.
 */
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).
 */
export function hookupNgModel(ngModel: INgModelController, component: any) {
  if (ngModel && supportsNgModel(component)) {
    ngModel.$render = () => {
      component.writeValue(ngModel.$viewValue); };
    component.registerOnChange(ngModel.$setViewValue.bind(ngModel));
    if (typeof component.registerOnTouched === 'function') {
      component.registerOnTouched(ngModel.$setTouched.bind(ngModel));
    }
  }
}

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

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 * 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, IComponentService, 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.componentRef = this.componentFactory.create(childInjector,
      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
    // 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 `$observe()`) in order to initialize the input in time
        // for `ngOnChanges()`. This is necessary if we are already in a `$digest`,
        // which means that `ngOnChanges()` (which is called by a watcher) will run before the `$observe()` callback.
        let unwatch: Function|null = this.componentScope.$watch(() => {
          unwatch();
        });
        observeFn(attrs[input.attr].observeFn)() // for `ngOnChanges()`.
      } else if (attrs.hasOwnProperty(input.bindAttr)) {
        expr = attrs[input.bindAttr];
      }
      } else if (attrs.hasOwnProperty(input.bracketAttr)) {
        expr =
      }
    }

    // remember the previous value before manipulations
    // node context.
    // $digest
    this.updateInput(prop, prevValue, currValue);
  }

  updateInput(prop: string, prevValue: any, currValue: any) {
    const input = this.inputs[prop];
    if (input) {
      if (prevValue === INITIAL_VALUE) {
        prevValue = currValue;
      }
      this.$context[prop].$set(input.templateName, currValue);
    }
  }

  // remember the previous value before manipulations
  // $digest
  this.updateInput(prop, prevValue, currValue);
});

function keyOf(obj: any): string {
  return Object.keys(obj)[0];
}

function strictEquals(a: any, b: any): boolean {
  if (a === b) { return true; }
  if (a == null || typeof a !== typeof b) { return false; }
  return Object.keys(a).reduce((ok: boolean, key: string) => {
    ok = ok && keyOf(b) == key && strictEquals(a[key], b[key]);
    return ok;
  }, true);
```javascript
attrs[input.bindonAttr];
else if (attrs.hasOwnProperty(input.bracketParenAttr)) {
  expr = attrs[input.bracketParenAttr];
} else if (expr != null) {
  const watchFn = this.updateInput(prop, prevValue, currValue)
  (prop => (currValue: any, prevValue: any) =>
    this.componentScope.$watch(expr, watchFn);
  )
  if (expr != null) {
    const watchFn =
      (prop => (currValue:
        any, prevValue: any) =>
          this.updateInput(prop, prevValue, currValue))(input.prop);
    this.componentScope.$watch(expr, watchFn);
  }
}

// Invoke `ngOnChanges()` and Change Detection (when necessary)
const detectChanges = () => this.changeDetector.detectChanges();
this.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 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);
  });
}

```
const projectableNodes = [];

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, ngContentSelectors) {
  const ngContentIndices = [];
  let wildcardNgContentIndex = -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) {
    ngContentIndices.push(wildcardNgContentIndex);
  }
  return ngContentIndices.length ? ngContentIndices[0] : null;
}

function matchesSelector(el, selector)


*/
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*/

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

import {IAnnotatedFunction, IAttributes, IAugmentedJQuery, ICompileService, IDirective, IInjectorService, 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, Injectable, IInjectorService, INgModelController, IParseService, IScope} from './util';


*/
* 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 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). The type of the Component that will be downgraded is - `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 />

### @param info contains information about the Component that is being downgraded:

* `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.
* `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.

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

###.$digest(https://docs.angularjs.org/api/ng/type/SrootScope.Scope#$digest). If set to 'false', change detection will still be performed when any of the component's inputs changes.

### 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. 

### 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 in).

### isNgUpgradeLite = getUpgradeAppType($injector) === UpgradeAppType.Lite;

### const wrapCallback: <T>(cb: () => T) => typeof cb =

### isNgUpgradeLite ? cb => cb : cb => () => NgZone.isInAngularZone() ? cb() : ngZone.run(cb);

### if (!parentInjector || hasMultipleDowngradedModules)

### const lazyNgModule = NgModelController =

### lazyNgModuleRef.$(LAZY_MODULE_REF)($[downgradedModule]`;

### attemptedAction = `instantiating component ${getTypeName(info.component)} at: `;

### validateInjectionKey($injector, downgradedModule, lazyNgModuleRef.$[LAZY_MODULE_REF]);

### lazyNgModuleRef = $injector.get(lazyNgModuleRef.$[LAZY_MODULE_REF] as LazyNgModuleRef;

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

### There are two injectors: `finalModuleInjector` and `finalParentInjector` (they might be the same instance, but that is irrelevant). 

### Attempt 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 module `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
  // 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 `NgModule`
    // this
    // component belongs to.
    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(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: ...

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

  ranAsync = true;
}

// bracket-notation because
// of closure - see #14441
directiveFactory['$inject'] = 
  [IInjectorService] from angular1

import {IInjectorService} from './angular1';
import {InvalidationService} from './services';
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*

This helper function returns a factory function that provides access to the Angular service identified by the `token` parameter. *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

Inside an AngularJS component's controller we can get hold of the downgraded service via the name we gave when downgrading.

Registered on an AngularJS module.

When using `downgradeModule()` downgraded injectables will not be available until the Angular module that provides them is instantiated. In order to be safe, you need to ensure that the injected 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.

`\<div class="alert is-important">
   When using `downgradeModule()` downgraded injectables will not be available until the Angular module that provides them is instantiated. In order to be safe, you need to ensure that the injected injectables are not used anywhere outside the part of the app where it is guaranteed that their module has been instantiated.
\</div>`

The downgraded Injectable function returns a factory function that provides access to the Angular service identified by the `token` parameter.

```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
/**
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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');
```

```typescript
/**
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 */

import {IInjectorService} from '../../src/common/src/angular1';

// We store the ng1 injector so that the provider in the module injector can access it. We then get the ng1 injector from the module injector, which triggers the provider to read the stored injector and release the reference to it.

let tempInjectorRef: IInjectorService|null = null;

setTempInjectorRef(injector: IInjectorService) { tempInjectorRef = injector; }

export function rootScopeFactory(i: IInjectorService) { return i.get('$rootScope'); }

duplicateFactory(i: IInjectorService) { return i.get('$duplicate'); }

deferredFactory(i: IInjectorService) { return i.get('$deferred'); }`
lambda with a reference to an exported function

```javascript
const lambda = (injector) => {
  // Function implementation
}
```

NgAdapterInjector implements Injector (constructor) and provides:

- `injectorFactory`
- `rootScopeFactory`
- `compileFactory`
- `parseFactory`

```javascript
exports = [
  {provide: 'Sinjector', useFactory: injectorFactory, deps: []},
  {provide: 'SrootScope', useFactory: rootScopeFactory, deps: ['Sinjector']},
  {provide: 'Scompile', useFactory: compileFactory, deps: ['Sinjector']},
  {provide: 'Sparse', useFactory: parseFactory, deps: ['Sinjector']}
];
```

In such a case we should not walk up to the module

```javascript
 bour
```

NOT_FOUND_CHECK ONLY_ELEMENT_INJECTOR

NgAdapterInjector implements Inject (constructor) and provides:

- `injectorFactory`
- `rootScopeFactory`
- `compileFactory`
- `parseFactory`

```javascript
exports = [
  {provide: '$injector', useFactory: injectorFactory, deps: []},
  {provide: '$rootScope', useFactory: rootScopeFactory, deps: ['$injector']},
  {provide: '$compile', useFactory: compileFactory, deps: ['$injector']},
  {provide: '$parse', useFactory: parseFactory, deps: ['$injector']}
];
```

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```javascript
import {Injector, NOT_FOUND_CHECK ONLY_ELEMENT_INJECTOR as
```

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

```javascript
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:

  // AngularJS only supports a single tree and should always check the module injector.

  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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```javascript
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 '../../src/common/src/constants';
import {LazyModuleRef, UpgradeAppType, getDowngradedModuleCount, isFunction} from '../src/common/src/constants';
import {NgModuleFactory} from '../src/common/src/util';
import {Angular1Providers, setTempInjectorRef} from './angular1Providers';
import {NgAdapterInjector} from './util';

module.exports = angular1Providers;

let 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 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 `NgModuleFactory` or a function:
 * - `NgModuleFactory`: If you pass an `NgModuleFactory`, it will be used to instantiate a module
 *   using `platformBrowser`'s `bootstrapModuleFactory`.
 * - `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.
 *
 * For more details on how to use
 * `downgradeModule()` see
 * [Upgrading for Performance](guide/upgrade-performance)
 * or
 * [issue #816](https://angular.io/issues/816)
 *
 * 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 downgraded
 * module from the component injector tree, the not found value is set to:
 * `NOT_FOUND_CHECK ONLY_ELEMENT_INJECTOR`.
 * You cannot use `downgradeModule()` and `UpgradeModule` in the same hybrid application.
 *
 * Besides their different API, there are two important internal differences between
 * `downgradeModule()` and `UpgradeModule` that affect the behavior of hybrid applications:
 * `UpgradeModule` does not automatically run all
 */

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[$digest()](https://docs.angularjs.org/api/ng/type/$rootScope.Scope#$digest) when changes are detected in the Angular part of the application. What this means is that applications using `UpgradeModule` will run change detection more frequently in order to ensure that both frameworks are properly notified about possible changes. This will inevitably result in more change detection runs than necessary. On the other side, does not try to tie the two change detection systems as tightly, restricting the explicit change detection runs only to cases where it knows it is necessary (e.g. when the inputs of a downgraded component change). This improves performance especially in change-detection-heavy applications, but leaves it up to the developer to manually notify each framework as needed. For a more detailed discussion of the differences and their implications, see [Upgrading for Performance](guide/upgrade-performance). You can manually trigger a change detection run in AngularJS using `scope.$apply(...)` or `$rootScope.$digest()`. You can manually trigger a change detection run in Angular using `@link NgZone#run
ngZone.run(...)`.

### Downgrading multiple modules

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 `@link PlatformRef#bootstrapmodule 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\'` module) and create all downgraded modules using that module's injector.

```typescript
Promise<NgModuleRef<T>>() =>
```

Get the Angular injector before bootstrapping the corresponding Angular module.

```
Angular module(lazyModuleName, [])
```

Create an ng1 module to bootstrap.

```
const lazyModuleRefKey = `\$[LAZY_MODULE_REF]\${lazyModuleName}`;
```

Create lazy ModuleRefKey.

```
const lazyInjectorKey = `\$[INJECTOR_KEY]\${lazyModuleName}`;
```

Create lazy InjectorKey.

```
const bootstrapFn = isFunction(moduleFactoryOrBootstrapFn) ?
      moduleFactoryOrBootstrapFn :
      (extraProviders: StaticProvider[]) =>
platformBrowser(extraProviders).bootstrapModuleFactory(moduleFactoryOrBootstrapFn);
```

Create bootstrap function.

```
let injector:
```

Inject the injector.

```
injector.$injector = new NgAdapterInjector(ref.injector);
```

Create the injector.

```
injector.$injector.
```

Get the Angular injector.

```
return injector;
```

Return the injector.

```
Angular module.
```

Trying to get the Angular injector before bootstrapping the corresponding Angular module.

```
Angular module.
```

`Angular module.` injected.

```
Angular module.
```

Return the Angular module.

```
Angular module.
```

Angular module injected.

```
Angular module.
```

Return the Angular module.

```
Angular module.
```

Angular module injected.

```
Angular module.
```

Return the Angular module.

```
Angular module.
```

Angular module injected.

```
Angular module.
```

Return the Angular module.

```
Angular module.
```

Angular module injected.

```
Angular module.
```

Return the Angular module.

```
Angular module.
```

Angular module injected.

```
Angular module.
```

Return the Angular module.

```
Angular module.
```

Angular module injected.

```
Angular module.
```

Return the Angular module.

```
Angular module.
```

Angular module injected.

```
Angular module.
```

Return the Angular module.

```
Angular module.
```

Angular module injected.

```
Angular module.
```

Return the Angular module.

```
Angular module.
```

Angular module injected.

```
Angular module.
```

Return the Angular module.

```
Angular module.
```

Angular module injected.

```
Angular module.
```

Return the Angular module.

```
Angular module.
```

Angular module injected.
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*\n
*/

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';

// 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: 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];

    // AngularJS will transform `link: xyz` to `compile: () => xyz`. So we can only tell there was an // user-defined `compile` if there is no `link`. In other cases, we will just ignore `compile`.
    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> {
    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, $scope: IScope) {
    // TODO: Document that we do not pre-assign bindings on the controller
    // Quoted properties below so that this code can be optimized with Closure Compiler.
    // Equivelent to how AngularJS `$destroy` DOM event
    const locals = {'$scope': $scope, 'Element': this.$element, 'Element': this.$element};
    const controller = this.$controller(controllerType, locals, null, this.directive.controllerAs);
    this.$element.data(controllerKey(this.directive.name!), controller);
    this.return controller;
    $compile(compileTemplate(template?): string): ILinkFn {
      if (template !== undefined) {
        template = angularElement(UpgradeHelper.getTemplate(this.$injector, this.directive, false, this.$element) as string);
      }
      this.$element.data('controllerInstance', controller);
      $scope.$destroy();
    } // Clean the jQuery/jqLite data on the component+child elements.
    // Equivelent to how jQuery/jqLite invoke `cleanData` on an Element (this.element)
    https://github.com/jquery/jquery/blob/e743c6bd28553267f955f7f1ae7248377915613fd9/src/manipulation.js#L223
    https://github.com/angular/angular.js/blob/26ddec5f830f902a3d22f4b2aabd70d86d4688c82/src/jqLite.js#L306-L312
  } // 'cleanData' will invoke the Angular `$destroy` DOM event
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https://github.com/angular/angular.js/blob/26ddc5f830f902a3d22f4b2aeb70d86d4d688c82/src/Angular.js#L1911-L1924

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

let Stemplate = contentChildNodes; 
if (transclude) {
  const slots = Object.create(null); 
  if (typeof transclude === 'object') {
    Stemplate = []; 
    const slotMap = Object.create(null); 
    const filledSlots = Object.create(null); 
    const attachChildrenFn = (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 || {}; 
      return cloneAttachFn !(Stemplate, scope); 
    };
    let Stemplate = contentChildNodes; 
    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; 
    Object.keys(transclude).forEach(slotName => { 
      let selector = transclude[slotName]; 
      if (selector.charAt(0) === '?') { 
        selector = selector.substring(1); 
      } 
      slotMap[selector] = slotName; 
      slots[slotName] = null; 
      filledSlots[slotName] = null; 
    }); 
    // Parse the element selectors. 
    Object.keys(slotMap).forEach(slotName => { 
      if (slotName) { 
        filledSlots[slotName] = true; 
        slots[slotName] = slots[slotName] || []; 
        slots[slotName].push(node); 
      } else { 
        Stemplate.push(node); 
      } 
    }); 
    // Check for required slots that were not filled. 
    Object.keys(filledSlots).forEach(slotName => { 
      if (!filledSlots[slotName]) { 
        throw new Error(`Required transclusion slot '${slotName}' on directive: ${this.name}`); 
      } 
    }); 
    Object.keys(slots).forEach(slotName => { 
      if (slots[slotName]) { 
        Stemplate.push(node); 
      } 
    }); 
    // 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 // [zero-width non-joiner character](https://en.wikipedia.org/wiki/Zero-width_non-joiner) // 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 // will still fail to be detected by AngularJS v1.6+
    Stemplate.forEach(node => { 
      if (node.nodeType === Node.TEXT_NODE) { 
        node.nodeValue = '\u200C'; 
      } 
    }); 
    resolveAndBindRequiredControllers(controllerInstance: IControllerInstance|null) { 
      const directiveRequire = this.getDirectiveRequire(); 
      const requiredControllers = this.resolveRequire(directiveRequire); 
      if (controllerInstance && this.directive.bindToController && isMap(directiveRequire)) { 
        const requiredControllersMap = requiredControllers as {
          [key: string]: IControllerInstance; 
        };
        Object.keys(requiredControllersMap).forEach(key => { 
          controllerInstance[key] = requiredControllersMap[key]; 
        }); 
      } 
      return requiredControllers; 
    };
```

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any):\n  SingleOrListOrMap<IControllerInstance>null \n  if (!require) \n    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    return value; \n  } else if (typeof require === 'string') \n    const value = this.resolveRequire(require); \n  } else { \n    throw new Error($templateHandlingComment());
  }

  // TODO(issue/24571): remove '!'.
  const controllerInstance !: IControllerInstance;
  // TODO(issue/24571): remove '!'.
  const bindingDestination !: IBindingDestination;

  // We will be instantiating the controller in the `ngOnInit` hook, when the\n  // first `ngOnChanges` will have been already triggered. We store the\n  // 'SimpleChanges' and `\n  // private helper: UpgradeHelper; \n  // private Sinjector: \n  // private Element; \n  // private Element; \n  // private ScomponentScope: IScope; \n  // private ScomponentScope: IScope; \n  // fo the controller in the ngOnInit hook, when the\n  // first 'ngOnChanges' will have been already triggered. We store the\n  // default instance of the component wrapper\n  // @publicApi \n  // exnot\n  // UpgradeComponent
  // private OnInit, OnChanges, DoCheck, OnDestory \n  // private helper: UpgradeHelper; \n  // private Sinjector: \n  // private Element; \n  // private Element; \n  // private ScomponentScope: IScope; \n  // private ScomponentScope: IScope; \n  // TODO(issue/24571): remove '!'. \n  // private controllerInstance \n  // private controllerInstance; \n  // TODO(issue/24571): remove '!'. \n  // private bindingDestination \n  // private bindingDestination; \n  // TODO(issue/24571): remove '!'. 
  // private pendingChanges !: SimpleChanges | null; \n  // TODO(issue/24571): remove '!' ; private unregisterDoCheckWatcher !: 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.
 * 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.SElement = this.helper.SElement;
 * 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.
 *
 * QUESTION 1: Should we create an isolated scope if the scope is only true?
 * QUESTION 2: Should we make the scope accessible through `SElement.scope/isolateScope()`?
 */

this.$componentScope = $parentScope.$new(!!this.directive.scope);

this.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.`);
    }

    // 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();
    }

  }

  ngDoCheck() {
    const twoWayBoundProperties = this.bindings.twoWayBoundProperties;
    const twoWayBoundLastValues = this.bindings.twoWayBoundLastValues;
    const propertyToOutputMap = this.bindings.propertyToOutputMap;
    this.$doCheck = () => this.controllerInstance.$doCheck();

    // Hook: $onChanges
    if (this.pendingChanges) {
      this.forwardChanges(this.pendingChanges);
      this.pendingChanges = null;
    }

    if (isFunction(this.controllerInstance) && isFunction(this.controllerInstance.$onChanges)) {
      this.$onChanges = this.controllerInstance.$onChanges;
    }

    this.ngDoCheck();
  }

  ngOnDestroy() {
    if (isFunction(this.unregisterDoCheckWatcher)) {
      this.unregisterDoCheckWatcher();
    }

    this.helper.onDestroy(this.$componentScope, this.controllerInstance);
  }

  private initializeBindings(directive: IDirective) {
    const twoWayBoundProperties = this.bindings.twoWayBoundProperties;
    const twoWayBoundLastValues = this.bindings.twoWayBoundLastValues;
    const propertyToOutputMap = this.bindings.propertyToOutputMap;
    this.$doCheck = () => this.controllerInstance.$doCheck();

    // Hook: $onChanges
    if (this.pendingChanges) {
      this.forwardChanges(this.pendingChanges);
      this.pendingChanges = null;
    }

    if (isFunction(this.controllerInstance.$onChanges)) {
      this.$onChanges = this.controllerInstance.$onChanges;
    }

    this.ngDoCheck();
  }

  // Hook: $onChanges
  forwardChanges(changes: SimpleChanges) {
    const propertyToOutputMap = this.bindings.propertyToOutputMap;
    const twoWayBoundProperties = this.bindings.twoWayBoundProperties;
    const twoWayBoundLastValues = this.bindings.twoWayBoundLastValues;
    const propertyToOutputMap = this.bindings.propertyToOutputMap;
    const propertyToOutputMap = this.bindings.propertyToOutputMap;
    this.$doCheck = () => this.controllerInstance.$doCheck();

    // Hook: $onChanges
    if (this.pendingChanges) {
      this.forwardChanges(this.pendingChanges);
      this.pendingChanges = null;
    }

    if (isFunction(this.controllerInstance.$onChanges)) {
      this.$onChanges = this.controllerInstance.$onChanges;
    }

    this.ngDoCheck();
  }

  private initializeOutputs() {
    const outputNames = this.initializeOutputs();

    // 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)) {
      this.$doCheck = () => this.controllerInstance.$doCheck();
    }

    // Hook: $onChanges
    if (this.pendingChanges) {
      this.forwardChanges(this.pendingChanges);
      this.pendingChanges = null;
    }

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

  }
```javascript
directive.scope;
    const bindings = new Bindings();
    if (typeof context == 'object') {
        Object.keys(context).forEach(propName => {
            const definition = context[propName];
            const bindingType = definition.charAt(0);
            if (switch (bindingType) {
                default: let json = JSON.stringify(context);
                throw new Error(`Unexpected mapping '${bindingType}' in '${json}' in '${this.name}' directive.`);
                case '@':
                case '<':
                // We don't need to do anything special. They will
                // be upgraded component facade and the change propagation will be handled by
                // `ngOnChanges()`.
                break;
                case '=':
                bindings.twoWayBoundProperties.push(propName);
                bindings.propertyToOutputMap[propName] = propName + 'Change';
                break;
                case '&':
                bindings.expressionBoundProperties.push(propName);
                bindings.propertyToOutputMap[propName] = propName;
                break;
                default:
                let json = JSON.stringify(context);
                throw new Error(`Unexpected mapping '${bindingType}' in '${json}' in '${this.name}' directive.`);
            }
        });
    }
    return bindings;
}

private initializeOutputs() {
    this.bindings.twoWayBoundProperties.concat(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];
        const emitter = (this as any)[outputName];
        this.bindingDestination[propName] = (value: any) => emitter.emit(value);
    });
}

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

// QUESTION: What about '='? Ignore? Throw? Support?
```

---

```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, 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 {Angular1ModuleRef,UpgradeModule} 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
 *
 * 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:
 * library for hybrid upgrade apps that support AOT
 *
 * 1. Creation of an Angular directve 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
 * 4. Creation of an AngularJS service that wraps and exposes an Angular injectable
 * so that it can be injected into an Angular context.
 * See
 * `UpgradeModule#upgrading-an-angular-1-service Upgrading an AngularJS service`
 * below.
 * 5. Creation of an AngularJS service that wraps and exposes an Angular injectable
 * so that it can be injected into an Angular context. See `downgradeInjectable`
 * 6. Bootstrapping of a hybrid Angular application which contains both of the frameworks
 * coexisting in a single application.
 * See
 * `UpgradeModule#examples examples` below.
 * When reasoning about how a hybrid application works it is useful to have a mental model which
 * describes what is happening and explains

---

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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 instantiates the element is the owner. Each framework only updates/interacts with its own DOM elements and ignores others.

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`.

6. An Angular component can be "downgraded" to an AngularJS component. This is achieved by defining an Angular 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.

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 booted first; AngularJS is booted 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()`.

### 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 (https://docs.angularjs.org/api/ng/service) 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 app.

It also contains properties to access the `[AngularJS $injector](https://docs.angularjs.org/api/auto/service/$injector)`.

* Import the `UpgradeModule` into your top level `NgModule` and use it to bootstrap the top level AngularJS module.

```typescript
import 'upgrade/static/ts/full/module.ts region=n2-module'

import upgradeNgModule from 'upgrade/static/ts/full/module.ts region=n2-module'

/**
 * The Angular Injector **/

@publicApi

@module('UpgradeModule')
@bootstrapModule()
export class UpgradeModule {
  /**
   * The root `Injector` for the upgrade application.
   */
  public injector: Injector;

  constructor(
    /**
     * The root `Injector` for the upgrade application.
     */
    injector: Injector,
    /**
     * The bootstrap zone for the upgrade application
     */
    publicNgZone: 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
   * @param bootstrapElement: Element, modules: string[] = []
   */

@bootstrapNgZone()
@bootstrapNg1Service()
@upgradeNg1Service()
@upgradeAngularService()
@upgradeAngularJSService()
@upgradeAngularJSModule()
@upgradeAngularJSProvider()
@upgradeAngularJSProviders()
@upgradeAngularJSService()
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@upgradeAngularJSProviders()...
config?: any /*angular.IAngularBootstrapConfig*/) {\n const INIT_MODULE_NAME =
UPGRADE_MODULE_NAME + '.init';\n\n // Create an ng1 module to bootstrap\n const initModule =\n
angularModule(INIT_MODULE_NAME, [])\n\n
.constant(UPGRADE_APP_TYPE_KEY,
UpgradeAppType.Static)\n\n
.value(INJECTOR_KEY, this.injector)\n\n
.factory(\n
LAZY_MODULE_REF,\n
[INJECTOR_KEY, (injector: Injector) => ({ injector } as
LazyModuleRef)])\n\n
.config([\n
$PROVIDE, $INJECTOR,\n
($provide: IProvideService,
$injector: IInjectorService) => {\n
if ($injector.has($$TESTABILITY)) {\n
$provide.decorator($$TESTABILITY, [\n
$DELEGATE,\n
(testabilityDelegate:
ITestabilityService) => {\n
const originalWhenStable: Function = testabilityDelegate.whenStable;\n
const injector = this.injector;\n
// Cannot use arrow function below because we need the
context\n
const newWhenStable = function(callback: Function) {\n
originalWhenStable.call(testabilityDelegate, function() {\n
const ng2Testability: Testability =
injector.get(Testability);\n
if (ng2Testability.isStable()) {\n
callback();\n
} else {\n
ng2Testability.whenStable(\n
newWhenStable.bind(testabilityDelegate, callback));\n
}\n
});\n
};\n\n
testabilityDelegate.whenStable = newWhenStable;\n
return testabilityDelegate;\n
}\n
]);\n
}\n\n
if ($injector.has($INTERVAL)) {\n
$provide.decorator($INTERVAL, [\n
$DELEGATE,\n
(intervalDelegate: IIntervalService)
=> {\n
// Wrap the $interval service so that setInterval is called outside NgZone,\n
// but
the callback is still invoked within it. This is so that $interval\n
// won't block stability, which preserves
the behavior from AngularJS.\n
let wrappedInterval =\n
(fn: Function, delay: number,
count?: number, invokeApply?: boolean,\n
...pass: any[]) => {\n
return
this.ngZone.runOutsideAngular(() => {\n
return intervalDelegate((...args: any[]) => {\n
// Run callback in the next VM turn - $interval calls\n
// $rootScope.$apply, and running
the callback in NgZone will\n
// cause a '$digest already in progress' error if it's in the\n
// same vm turn.\n
setTimeout(() => { this.ngZone.run(() => fn(...args)); });\n
}, delay, count, invokeApply, ...pass);\n
});\n
};\n\n
(wrappedInterval as any)['cancel'] = intervalDelegate.cancel;\n
return wrappedInterval;\n
}\n
]);\n
}\n
}\n
])\n\n
.run([\n
$INJECTOR,\n
($injector:
IInjectorService) => {\n
this.$injector = $injector;\n\n
// Initialize the ng1 $injector provider\n
setTempInjectorRef($injector);\n
this.injector.get($INJECTOR);\n\n
// Put the injector on
the DOM, so that it can be \"required\"\n
angularElement(element).data
!(controllerKey(INJECTOR_KEY), this.injector);\n\n
// Wire up the ng1 rootScope to run a digest cycle
whenever the zone settles\n
// We need to do this in the next tick so that we don't prevent the bootup\n
// stabilizing\n
setTimeout(() => {\n
const $rootScope = $injector.get('$rootScope');\n
const subscription = this.ngZone.onMicrotaskEmpty.subscribe(() => {\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
$rootScope.$on('$destroy', () => { subscription.unsubscribe(); });\n
}, 0);\n
}\n
]);\n\n const upgradeModule = angularModule(UPGRADE_MODULE_NAME,
[INIT_MODULE_NAME].concat(modules));\n\n // Make sure resumeBootstrap() only exists if the current
bootstrap is deferred\n const windowAngular = (window as any)['angular'];\n windowAngular.resumeBootstrap
= undefined;\n\n // Bootstrap the AngularJS application inside our zone\n this.ngZone.run(() => {
bootstrap(element, [upgradeModule.name], config); });\n\n // Patch resumeBootstrap() to run inside the ngZone\n
if (windowAngular.resumeBootstrap) {\n
const originalResumeBootstrap: () => void =
windowAngular.resumeBootstrap;\n
const ngZone = this.ngZone;\n
windowAngular.resumeBootstrap =
function() {\n
let args = arguments;\n
windowAngular.resumeBootstrap = originalResumeBootstrap;\n

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

/**
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 * License: MIT
 */

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

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

["version":3,"file":"upgrade.js","sources":null,"sourcesContent":null]
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 = '$$angularCompiler';
export const DOWNGRADED_MODULE_COUNT_KEY = '$$UpgradeModuleCount';
export const GROUP_PROJECTABLE_NODES_KEY = '$$AngularProjectableNodes';
export const INJECTOR_KEY = '$$angularInjector';
export const LAZY_MODULE_REF = '$$AngularLazyModuleRef';
export const NG_ZONE_KEY = '$$angularNgZone';
export const UPGRADE_APP_TYPE_KEY = '$$angularUpgradeAppType';

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

export const UPGRADE_MODULE_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 = `bind\${capitalAttr}`;
    this.bindonAttr = `bindon\${capitalAttr}`;
  }
}

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 */

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\[\[\].+/\-
_+\]/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\n    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) : null;
}

UpgradeAppType.None: null;

export function function getUpgradeAppType($injector: IInjectorService): UpgradeAppType {
  return $injector.has(UPGRADE_APP_TYPE_KEY) ? $injector.get(UPGRADE_APP_TYPE_KEY) : null;
}

UpgradeAppType.None: null;

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

export function function validateInjectionKey($injector: IInjectorService, downgradeModule: string, injectionKey: string, attemptedAction: string): void {
  const upgradeAppType =
ICompileService,
private $parse: IParseService, private componentFactory: ComponentFactory<any>,
private wrapCallback: <T>(cb: () => T) => () => T) {
  this.componentScope = scope.$new();

  this.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: $SCOPE, useValue: this.componentScope}];
    const childInjector = Injector.create({
        providers: providers, parent: this.parentInjector, name: 'DowngradeComponentAdapter'});
    this.componentRef = childInjector.create(childInjector, projectableNodes, this.element[0]);
    this.viewChangeDetector = this.componentRef.injector.get(ChangeDetectorRef);
    this.changeDetector = this.componentRef.changeDetectorRef;
    this.element[0].$watch(() => this.inputChanges, this.wrapCallback(() => {
      // Invoke `ngOnChanges()`
      if (this.implementsOnChanges) {
        (<OnChanges>this.component).ngOnChanges(!this.inputChanges);
      }

      this.viewChangeDetector.markForCheck();

      // If not opted out of propagating digests, invoke change detection
      if (this.implementsOnChanges) {
        this.componentScope.$watch(this.wrapCallback(detectChanges));
      }
    }));
    this.viewChangeDetector.markForCheck();

    // If opted out of propagating digests, invoke change detection
    if (!this.implementsOnChanges) {
      this.componentScope.$watch(() => this.inputChanges, this.wrapCallback(() => {
        // Invoke `ngOnChanges()`
        if (this.implementsOnChanges) {
          (<OnChanges>this.component).ngOnChanges(!this.inputChanges);
        }

        this.viewChangeDetector.markForCheck();
      }));
    }
  }

  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(expr => {
          unwatch !();
          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.bandonAttr)) {
          expr = attrs[input.bandonAttr];
        } else if (attrs.hasOwnProperty(input.bracketParenAttr)) {
          expr = attrs[input.bracketParenAttr];
        }
        if (expr != null) {
          this.componentScope.$watch(expr, watchFn => {
            // Invoke `ngOnChanges()` and Change Detection
            if (this.implementsOnChanges) {
              this.componentScope.$watch(() => this.inputChanges, this.wrapCallback(() => {
                // If needed, attach the view so that
                // it will be dirty-checked.
              }));
            }
          });
        }
    }
  }

  hookups: void {
    const testability = this.componentRef.injector.get(Testability, null);
    if (testability) {
      this.componentRef.injector.get(TestabilityRegistry)
        .registerApplication(this.componentRef.location.nativeElement, testability);
    }
  }

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```javascript
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);

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

    this.$parse(attrs.toString());

    this.subscribeToOutput('input', expr, true);
    if (this.$parse(attr)) {
        this.subscribeToOutput('output', expr, true);
    }
}
```

```typescript
function findMatchingNgContentIndex(element: any, ngContentSelectors: string[]): number | null {
    let wildcardNgContentIndex: number = -1;
    for (let i = 0; i < ngContentSelectors.length; i++) {
        if (ngContentSelectors[i] === '*') {
            wildcardNgContentIndex = i;
        } else if (matchesSelector(element, ngContentSelectors[i])) {
            return i;
        }
    }
    return wildcardNgContentIndex;
}
```

```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 function groupNodesBySelector(ngContentSelectors: string[], nodes: Node[]): Node[][] {
    const projectableNodes: Node[][] = [];
    let wildcardNgContentIndex: number = -1;
    for (let i = 0; i < ngContentSelectors.length; i++) {
        if (ngContentSelectors[i] === '*') {
            wildcardNgContentIndex = i;
        } else if (matchesSelector(nodes[i], ngContentSelectors[i])) {
            projectableNodes.push(nodes[i]);
        }
    }
    return projectableNodes;
}
```

```typescript
let wildcardNgContentIndex: number = -1;
for (let i = 0; i < nodes.length; i++) {
    if (matchesSelector(nodes[i], selector)) {
        projectableNodes.push(nodes[i]);
    }
}
```
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 */

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

import {IAnnotatedFunction, IAttributes, IAugmentedJQuery, ICompileService, IDirective, IInjectorService, 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](api?query=upgrade%2Fstatic) library for hybrid upgrade apps that support AOT compilation*
 *
 * @usageNotes
 * ### Examples
 *
 * Let's assume that you have an Angular component called `ng2Heroes` that needs to be made available in AngularJS templates.
 *
 * ```
 * @example upgrade/static/ts/full/module.ts region="ng2-heroes"
 * ```
 *
 * We must create an AngularJS [directive](https://docs.angularjs.org/guide/directive) that will make this Angular component available inside AngularJS templates.
 *
 * ```
 * @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).

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*/

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, idx) => 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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longer used *An selectors?: string[];*): any /* angular.Injectable */ {
  const directiveFactory: IAnnotatedFunction = function(
    $compile: ICompileService, $injector: IInjectorService, $parse:
    IParseService): IDirective {
    const control:

    // 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
      // - 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 `$digest()` will be run
      // inside the Angular zone (except if explicitly escaped, in which case we shouldn't `force it
      // back in`).
    const isNgUpgradeLite = getUpgradeAppType($injector) === UpgradeAppType.Lite;
    const wrapCallback: <T>(cb: () => T) => typeof cb =
        !isNgUpgradeLite ? cb => cb : cb => () =>
NgZone.isInAngularZone() ? cb() : ngZone.run(cb);

    return {
      restrict: 'E',
      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];

        if
            (!parentInjector || hasMultipleDowngradedModules) {
          const downgradedModule = info.downgradedModule
              || ''; const lazyModuleRefKey = `${LAZY_MODULE_REF}${downgradedModule}`;

          validateInjectionKey($injector, downgradedModule, 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
          // 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
          // `finalParentInjector` is used for all other injection purposes.)

        // If there is a
        // `finalParentInjector` and `finalParentInjector` (they might be
          // the same instance, but that is irrelevant):
        // - `finalModuleInjector` is used to retrieve `ComponentFactoryResolver`, thus it must
          // belong to the same `NgModule` as this downgraded component
          // (e.g. because there is only one downgraded module, we use that `parentInjector` as
            both
            // - If there is a parent component that belongs to a different `NgModule`, then we
              // use the `parentInjector` as `finalParentInjector` and this downgraded
          // component's
              // declaring `NgModule`'s injector as `finalModuleInjector`.

          // If the
            // - `@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.
              // `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
        // `finalParentInjector` is used for all other injection purposes.)

        // When using `UpgradeModule`, because `$digest()` will be run
        // inside the Angular zone (except if explicitly escaped, in which case we shouldn't `force it
        // back in`).
        const isNgUpgradeLite = getUpgradeAppType($injector) === UpgradeAppType.Lite;
      }
    }
  }

  wrapCallback(raiseCostumedEvent);

  return {
    restrict: 'E',
    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];

      if
          (!parentInjector || hasMultipleDowngradedModules) {
        const downgradedModule = info.downgradedModule
            || ''; const lazyModuleRefKey = `${LAZY_MODULE_REF}${downgradedModule}`;

        validateInjectionKey($injector, downgradedModule, 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
        // 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
        // `finalParentInjector` is used for all other injection purposes.)

      // If there is a
      // `finalParentInjector` and `finalParentInjector` (they might be
        // the same instance, but that is irrelevant):
      // - `finalModuleInjector` is used to retrieve `ComponentFactoryResolver`, thus it must
        // belong to the same `NgModule` as this downgraded component
        // (e.g. because there is only one downgraded module, we use that `parentInjector` as
          both
          // - If there is a parent component that belongs to a different `NgModule`, then we
            // use the `parentInjector` as `finalParentInjector` and this downgraded
        // component's
            // declaring `NgModule`'s injector as `finalModuleInjector`.

        // If the
          // - `@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.
            // `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
        // `finalParentInjector` is used for all other injection purposes.)

      // When using `UpgradeModule`, because `$digest()` will be run
      // inside the Angular zone (except if explicitly escaped, in which case we shouldn't `force it
      // back in`).
      const isNgUpgradeLite = getUpgradeAppType($injector) === UpgradeAppType.Lite;
NgModule`, use its injector.
        const finalModuleInjector = moduleInjector || parentInjector ||
        const doDowngrade = (injector: Injector, moduleInjector: Injector) => {
          // Retrieve `ComponentFactoryResolver` from the injector tied to the `NgModule`
          // this
          // const componentBelongsTo; const componentFactoryResolver: ComponentFactoryResolver =
          moduleInjector.get(ComponentFactoryResolver);
          const componentFactoryResolver = moduleInjector.getComponentFactoryResolver();
          const 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, $parse,
          componentFactory, wrapCallback);
          facade.createComponent(projectableNodes);
          facade.setupInputs(isNgUpgradeLite, info.propagateDigest);
          facade.setupOutputs();
          facade.registerCleanup();
          injectorPromise.resolve(facade.getInjector());
          if (ranAsync) {
            // If this is run async, it is possible that it is not run inside an // digest and initial input values will not be detected.
            scope.$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:
        // `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 directiveFactory;
}

/**
 * @license
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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.
 *
 * *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.
 *
 * @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
 *
 * defined `HeroesService` on an AngularJS module.
 *
 * Now we can register the `downgradeInjectable` factory function for the service
 * on an AngularJS module.
 *
 * Inside an AngularJS component's controller we can get hold of the
 * downgraded service via the
 * name we gave when downgrading.
 *
 * When using `downgradeModule`', downgraded injectables will not be available until the Angular
 * module that provides them is instantiated. In order to be safe, you need to ensure
 * that their module has been instantiated.
 * For example, it is _OK_ to use a downgraded service in an
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 that may be used independently of Angular or in a downgraded Angular component from a different module.

* @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 />

* @param downgradedModule string = "": Function {
  const injectorKey = `$INJECTOR.KEY$${downgradedModule}`;
  const InjectableName = isFunction(token) ? getTypeName(token) : String(token);
  const attemptedAction = 'instantiating injectable 
  \$\{injectableName\}\$'::validateInjectionName(Sinjktor, downgradedModule, injectorKey, attemptedAction);
  const injector = Sinjktor.get(injectorKey);
  return injector.get(token);
};

(factor as any)\$INJECTOR\$return factory:\n\n"\$\{injectableName\}\$"::@license

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

import {DirectiveRequireProperty, IAugmentedJQuery, 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';

// 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: 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.$element = angularElement(elementRef.nativeElement);
    this.$injector = angularElement(this.element);
    this.directive = directive || UpgradeHelper.getDirective(this.$injector, name);
    this.staticDirective = UpgradeHelper.getStaticDirective(name);
    this.nativeElement = elementRef.nativeElement;
    this.element = angularElement(this.element);
    this.directive = directive || UpgradeHelper.getStaticDirective(name);

    if (directive.length > 1) {
      throw new Error('Only support single directive definition for: $\{name\}$');
    } else if (directive.length > 0) {
      if (directive[0].indexOf('AngularJS') !== -1) {
        throw new Error('AngularJS will transform `link: xyz` to `compile: () => xyz`. So we can only tell there was an AngularJS `link` directive if there is no `link`. In other cases, we will just ignore `compile` if (directive.compile &\& !directive.link) notSupported(name, 'compile');
      }
    }

    if (directive.replace) notSupported(name, 'replace');
  }

  static getTemplate($injector: IInjectorService, directive: IDirective, fetchRemoteTemplate = false, $element?: IAugmentedJQuery): 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 = 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.get(url));
        } else {
          reject($httpBackend.error($templateCache.get(url), response));
        }
      });
    });
  }

    const directives: IDirective[] = $injector.get(name + 'Directive');
    if (directives.length > 1) {
      throw new Error('Only support single directive definition for: $\{name\}$');
    }

    return directives[0];
  }

  static getStaticDirective(name: string): IDirective {
    const directives: IDirective[] = UpgradeHelper.getStaticDirectives(name);
    if (directives.length > 1) {
      throw new Error('Only support single directive definition for: $\{name\}$');
    }

    return directives[0];
  }

  static getStaticDirectives(name: string): IDirective[] {
    return UpgradeHelper.getStaticDirectives(name, false);
  }

  static getAngularJSModuleName(name: string): string {
    return name.replace('AngularJS-', '');
  }

  static notSupported(name, method: string) {
    throw new Error(`Directive: ${name} has unsupported feature: ${method}`);
  }

  static validateInjectionName($injector, name, attemptedAction) {
    const injectorKey = `${INJECTOR.KEY}${name}`;
    const InjectableName = isFunction(name) ? getTypeName(name) : String(name);
    const attemptedAction = 'instantiating injectable 
    \$\{injectableName\}\$'::@license
}

/**
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 *
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 */

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

import {DirectiveRequireProperty, IAugmentedJQuery, 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';

// 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: 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: $\{name\}$');
    }

    return directives[0];
  }

  static getTemplate($injector: IInjectorService, directive: IDirective, fetchRemoteTemplate = false, $element?: IAugmentedJQuery): 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 = 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.get(url));
          } else {
            reject($httpBackend.error($templateCache.get(url), response));
          }
        });
      });
    }

    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.get(url));
        } else {
          reject($httpBackend.error($templateCache.get(url), response));
        }
      });
    });
  }

  static getAngularJSModuleName(name: string): string {
    return name.replace('AngularJS-', '');
  }

  static notSupported(name, method: string) {
    throw new Error(`Directive: ${name} has unsupported feature: ${method}`);
  }

  static validateInjectionName($injector, name, attemptedAction) {
    const injectorKey = `${INJECTOR.KEY}${name}`;
    const InjectableName = isFunction(name) ? getTypeName(name) : String(name);
    const attemptedAction = 'instantiating injectable 
    \$\{injectableName\}\$'::@license
}
resolve($templateCache.put(url, response)); 
    } else {
      reject(`GET component template from '${url}' returned '${status}: ${response}'`);
    }
  });
}

// 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': $scope, 'Directive': this.componentName, 'const controller = this.$controller(controllerType, locals, null, this.directive.controllerAs);'};

// If 'compileTemplate' was not already defined, build it (with a default string).
const template = locals.$templateCache.get(locals.directive.name) || locals.$templateCache.put(locals.directive.name, locals.directive.template); 

// `compileTemplate` will not throw if the template was already compiled.

// Resolve any template expressions in the component.

// If the transclusion slot was included, it needs to know about the transclusion nodes.

// Attach the `$$slots` to default slot transclude fn.

// 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 whitespace followed by an interpolation
// will still fail to be detected by AngularJS

```javascript

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

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

  return requiredControllers;
}

private compileHtml(html: string): ILinkFn {
  this.element.innerHTML = html;
  return this.$compile(this.element.childNodes);
}

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;
}

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: {
      [key: string]: IControllerInstance;
    } = {};
    Object.keys(require).forEach(key => {
      value[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 ctrlKey = controllerKey(name);
    const elem = startOnParent ? this.$element.parent() : this.$element;
    const value = searchParents ?
      elem.inheritedData(ctrlKey) : elem.data(ctrlKey);
    if (!value && !isOptional) {
      throw new Error(`Unable to find required '${require}' in upgraded directive '${this.name}'.`);
    }
    return value;
  } else {
    throw new Error(`Unrecognized 'require' syntax on upgraded directive '${this.name}'.`);
  }
}
```

---

### TypeScript Import

```typescript
import {Directive, DoCheck, ElementRef, EventEmitter, Inject, Injector, OnChanges, OnDestroy, OnInit, SimpleChange, SimpleChanges, Type} from '@angular/core';
import {IBindingDestination, IControllerInstance, UpgradeHelper} from '../common/src/upgrade_helper';
import {isMap} from '../common/src/util';
```

---

### TypeScript Export

```typescript
export class UpgradeNg1ComponentAdapterBuilder {
  type: Type<any>;
  inputs: string[] = [];
  inputsRename: string[] = [];
  outputs: string[] = [];
  outputsRename: string[] = [];
  propertyOutputs: string[] = [];
  checkProperties: string[] = [];
  propertyMap: {
    [name: string]: string;
  } = {};
  directive: IDirective|null = null;

  constructor(public name: string) {
    const selector = name.replace(CAMEL_CASE, (all: string, next: string) => '-' + next.toLowerCase());
    const self = this;

    // Note: There is a bug in TS 2.4 that prevents us from
    // inlining this into @Directive
    // TODO(tbosch): find or file a bug against TypeScript for this.
    const directive = {selector: selector, inputs: this.inputsRename, outputs: this.outputsRename, outputsRename: this.outputsRename, propertyOutputs: this.propertyOutputs, checkProperties: this.checkProperties, directive: this.directive} !;

    Object.keys(directive).forEach(key => {
      if (isMap(directive[key])) {
        Object.keys(directive[key]).forEach(k => {
          self[key][k] = directive[key][k];
        });
      }
    });
  }

  get directiveRequire() {
    return this.directive.require || (this.directive.controller &&
      this.directive.name) !;
  }

  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: {
        [key: string]: IControllerInstance;
      } = {};
      Object.keys(require).forEach(key => {
        value[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 ctrlKey = controllerKey(name);
      const elem = startOnParent ? this.$element.parent() : this.$element;
      const value = searchParents ?
        elem.inheritedData(ctrlKey) : elem.data(ctrlKey);
      if (!value && !isOptional) {
        throw new Error(`Unable to find required '${require}' in upgraded directive '${this.name}'.`);
      }
      return value;
    } else {
      throw new Error(`Unrecognized 'require' syntax on upgraded directive '${this.name}'.`);
    }
  }
```

---

### TypeScript Functions

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

function isMap<T>(value: SingleOrListOrMap<T>): value is {
  [key: string]: T;
}
```

---

### TypeScript Constants

```typescript
const CAMEL_CASE = /([A-Z])/g;
const INITIAL_VALUE = {__UNINITIALIZED__: true};
```

---

### TypeScript Utilities

```typescript
function notSupported(name: string, feature: string) {
  throw new Error(`Upgraded directive '${name}' contains unsupported feature: '${feature}'.`);
}
```

---

### TypeScript Imports

```typescript
import {IAttributes, IDirective, IDirectivePrePost, IInjectorService, ILinkFn, IScope, ITranscludeFunction} from '../common/src/angular1';
import {$SCOPE} from '../common/src/constants';
import {IBindingDestination, IControllerInstance, UpgradeHelper} from '../common/src/upgrade_helper';
```
this.outputsRename;\n
    @Directive({jit: true, ...directive})\n    class MyClass extends

      constructor(@Inject($SCOPE) scope: IScope, injector: Injector, elementRef: ElementRef) {\n        super($newUpgradeHelper(injector, name, elementRef, self.directive || undefined), scope, self.template, self.inputs, self.outputs, self.propertyOutputs, self.checkProperties, self.propertyMap as any);\n      }\n
this.type = MyClass;\n\n    extractBindings() {\n      const btcIsObject = typeof this.directive !== 'object';\n      if (btcIsObject && Object.keys(this.directive).length) {\n        throw new Error('Binding definitions on scope and controller at the same time are not supported.');\n      }\n
      const context = (btcIsObject) ? this.directive.bindToController : this.directive.scope;\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;

          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              this.outputs.push(outputName);\n              this.outputsRename.push(outputNameRenameChange);\n              this.propertyMap[outputName] = propName;\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          }\n        });\n      }\n    }\n
  /**\n   * Upgrade ng1 components into Angular.\n   */\n  static resolve(exportedComponents: {[name: string]: UpgradeNg1ComponentAdapterBuilder}, $injector: IInjectorService): Promise<string[]> {\n    const promises = Object.keys(exportedComponents).map(name => {\n      const exportedComponent = exportedComponents[name];\n      exportedComponent.directive = UpgradeHelper.getDirective($injector, name);\n      exportedComponent.extractBindings();\n
      return Promise.resolve(UpgradeHelper.getTemplate($injector, exportedComponent.directive, true))\n        .then(template => exportedComponent.template = template);\n    });\n
    return Promise.all(promises);\n  }\n
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  $element: any = null;\n  componentScope: IScope;\n
  constructor(\n    private helper: UpgradeHelper, scope: IScope, private template: string, private inputs: string[], private outputs: string[], private propOuts: string[], private checkProperties: string[], private propertyMap: {[key: string]: string}) {\n    this.directive = helper.directive;\n    this.element = helper.element;\n    this.$element = helper.$element;\n    this.componentScope = scope.$new(!this.directive.scope);\n    const controllerType = this.directive.controller;\n    if (this.directive.bindToController && controllerType) {\n      this.controllerInstance = this.helper.buildController(controllerType, this.componentScope);\n    }\n
    this.controllerInstance = this.controllerInstance || new Signal(\n      this.destinationObj = this.componentScope;\n    ) \n    else {\n      this.destinationObj = this.componentScope;\n      }\n
    this.destinationObj = this.componentScope;\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.componentScope.outputs[j].emit(value) => {\n          const linkFn = this.helper.compileTemplate(this.template);\n          \n          // Instantiate controller (if not already done so)\n          const
controllerType = this.directive.controller;
    const bindToController = this.directive.bindToController;
    if (controllerType && !bindToController) {
      this.controllerInstance = this.helper.buildController(controllerType,
        this.componentScope);
    }
    const bindToController = this.directive.bindToController;
    if (controllerType && !bindToController) {
      this.controllerInstance = this.helper.buildController(controllerType,
        this.componentScope);
    }
    // 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();
    }
    // Bootstrap
    this.helper.onDestroy(this.componentScope, this.controllerInstance);
    // Set component property
    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
     *    component from AngularJS component directive
     *    (See 
     *    `UpgradeAdapter#upgradeNg1Component()`)
     * 3. Bootstrapping of a hybrid Angular application which
     *    contains both of the frameworks
     *    coexisting in a single application
     *    (See 
     *    `UpgradeAdapter#upgradeNg1Component()`)
     * 4. Creation of AngularJS
     *    component from AngularJS
     *    coexisting in a single application
     *    (See 
     *    `UpgradeAdapter#upgradeNg1Component()`)
     * 5. Bootstrapping of a hybrid Angular application which
     *    contains both of the frameworks
     *    coexisting in a single application
     *    (See 
     *    `UpgradeAdapter#upgradeNg1Component()`)
     * 6. Bootstraping of a hybrid Angular application which
     *    contains both of the frameworks
     *    coexisting in a single application
     *    (See 
     *    `UpgradeAdapter#upgradeNg1Component()`)
     * 7. Creation of AngularJS
     *    component from AngularJS
     *    coexisting in a single application
     *    (See 
     *    `UpgradeAdapter#upgradeNg1Component()`)
     * 8. Creation of AngularJS
     *    component from AngularJS
     *    coexisting in a single application
     *    (See 
     *    `UpgradeAdapter#upgradeNg1Component()`)
     *
     * 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.
     * Instantiated 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. An AngularJS component can be upgraded to an Angular component. This creates an Angular directive, which bootstrap the AngularJS component directive in that location. An Angular component can be downgraded to an AngularJS component directive. This creates an AngularJS directive, which bootstrap 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 `$apply()`. const adapter = new UpgradeAdapter(forwardRef(() => MyNg2Module), myCompilerOptions); const module = angular.module('myExample', []).module('module.directive('ng2Comp',

adapter.downgradeNg2Component(Ng2Component)); const module.directive('ng1Hello', function() { return
	{ scope: { title: '=' }, template: 'ng1[Hello {{title}}]!', transclude: false }, directives: [{ name: 'ng1-hello' }, class Ng2Component, ...

```typescript
const adapter = new UpgradeAdapter(forwardRef(() => MyNg2Module));
const module = angular.module('myExample', []);
module.directive('greet', adapter.downgradeNg2Component(Greeter));

@Component({
  selector: 'greet',
  template: '
    <div>
      <h1>Hello {{name}}!</h1>
      <p>My example text.</p>
    </div>
  
  @Output('nameChange') nameChange: EventEmitter<string> = new EventEmitter();
  @Input() name: string;
  @Input('ngModel') ngModel: string = null;
  @HostListener('input') onInput(event: KeyboardEvent) {
    this.name = event.target.value;
  }

  constructor(private ngModule: NgModule) {
    this.ngModuleRef = ngModule
  }

  ngOnInit() {
    this.ngModuleRef.bootstrap().then(() => {
      this.name = 'World';
    });
  }

  ngOnDestroy() {
    this.nameChange.emit(this.name);
  }
});
```
'{{salutation}} {{name}}! - <ng-content></ng-content>'\n * })\n * class Greeter {\n * @Input() salutation:
string;\n * @Input() name: string;\n * }\n *\n * @NgModule({\n * declarations: [Greeter],\n * imports:
[BrowserModule]\n * })\n * class MyNg2Module {}\n *\n * document.body.innerHTML =\n * 'ng1
template: <greet salutation=\"Hello\" [name]=\"world\">text</greet>';\n *\n * adapter.bootstrap(document.body,
['myExample']).ready(function() {\n * expect(document.body.textContent).toEqual(\"ng1 template: Hello world! text\");\n * });\n * ```\n */\n downgradeNg2Component(component: Type<any>): Function {\n
this.downgradedComponents.push(component);\n\n return downgradeComponent({component});\n }\n\n /**\n
* Allows AngularJS Component to be used from Angular.\n *\n * Use `upgradeNg1Component` to create an
Angular component from AngularJS Component\n * directive. The adapter will bootstrap AngularJS component
from within the Angular\n * template.\n *\n * @usageNotes\n * ### Mental Model\n *\n * 1. The
component is instantiated by being listed in Angular template. This means that the\n * host element is controlled
by Angular, but the component's view will be controlled by\n * AngularJS.\n *\n * ### Supported Features\n
*\n * - Bindings:\n * - Attribute: `<comp name=\"World\">`\n * - Interpolation: `<comp greeting=\"Hello
{{name}}!\">`\n * - Expression: `<comp [name]=\"username\">`\n * - Event: `<comp
(close)=\"doSomething()\">`\n * - Transclusion: yes\n * - Only some of the features of\n * [Directive
Definition Object](https://docs.angularjs.org/api/ng/service/$compile) are\n * supported:\n * - `compile`: not
supported because the host element is owned by Angular, which does\n * not allow modifying DOM structure
during compilation.\n * - `controller`: supported. (NOTE: injection of `$attrs` and `$transclude` is not
supported.)\n * - `controllerAs`: supported.\n * - `bindToController`: supported.\n * - `link`: supported.
(NOTE: only pre-link function is supported.)\n * - `name`: supported.\n * - `priority`: ignored.\n * `replace`: not supported.\n * - `require`: supported.\n * - `restrict`: must be set to 'E'.\n * - `scope`:
supported.\n * - `template`: supported.\n * - `templateUrl`: supported.\n * - `terminal`: ignored.\n * `transclude`: supported.\n *\n *\n * ### Example\n *\n * ```\n * const adapter = new
UpgradeAdapter(forwardRef(() => MyNg2Module));\n * const module = angular.module('myExample', []);\n *\n
* module.directive('greet', function() {\n * return {\n * scope: {salutation: '=', name: '=' },\n * template:
'{{salutation}} {{name}}! - <span ng-transclude></span>'\n * };\n * });\n *\n * module.directive('ng2',
adapter.downgradeNg2Component(Ng2Component));\n *\n * @Component({\n * selector: 'ng2',\n *
template: 'ng2 template: <greet salutation=\"Hello\" [name]=\"world\">text</greet>'\n * })\n * class
Ng2Component {\n * }\n *\n * @NgModule({\n * declarations: [Ng2Component,
adapter.upgradeNg1Component('greet')],\n * imports: [BrowserModule]\n * })\n * class MyNg2Module {}\n
*\n * document.body.innerHTML = '<ng2></ng2>';\n *\n * adapter.bootstrap(document.body,
['myExample']).ready(function() {\n * expect(document.body.textContent).toEqual(\"ng2 template: Hello world! text\");\n * });\n * ```\n */\n upgradeNg1Component(name: string): Type<any> {\n if
((<any>this.ng1ComponentsToBeUpgraded).hasOwnProperty(name)) {\n
return
this.ng1ComponentsToBeUpgraded[name].type;\n } else {\n
return (this.ng1ComponentsToBeUpgraded[name]
= new UpgradeNg1ComponentAdapterBuilder(name))\n
.type;\n }\n }\n\n /**\n * Registers the adapter's
AngularJS upgrade module for unit testing in AngularJS.\n * Use this instead of `angular.mock.module()` to load
the upgrade module into\n * the AngularJS testing injector.\n *\n * @usageNotes\n * ### Example\n *\n *
```\n * const upgradeAdapter = new UpgradeAdapter(MyNg2Module);\n *\n * // configure the adapter with
upgrade/downgrade components and services\n * upgradeAdapter.downgradeNg2Component(MyComponent);\n
*\n * let upgradeAdapterRef: UpgradeAdapterRef;\n * let $compile, $rootScope;\n *\n * // We must register
the adapter before any calls to `inject()`\n * beforeEach(() => {\n * upgradeAdapterRef =
upgradeAdapter.registerForNg1Tests(['heroApp']);\n * });\n *\n * beforeEach(inject((_$compile_,
_$rootScope_) => {\n * $compile = _$compile_;\n * $rootScope = _$rootScope_;\n * }));\n *\n * it(\"says
hello\", (done) => {\n * upgradeAdapterRef.ready(() => {\n * const element = $compile(\"<mycomponent></my-component>\")($rootScope);\n * $rootScope.$apply();\n *
expect(element.html()).toContain(\"Hello World\");\n * done();\n * })\n * });\n *\n * ```\n *\n *
@param modules any AngularJS modules that the upgrade module should depend upon\n * @returns an

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```
`UpgradeAdapterRef`, which lets you register a `ready()` callback to
* run assertions once the Angular
components are ready to test through AngularJS. * `UpgradeAdapterRef
` const windowNgMock = (window as any)['angular'].mock;
* if ('windowNgMock ||
`windowNgMock.module')
* throw new Error('Failed to find `angular.mock.module`.');
* in
this.declareNg1Module(modules);
* windowNgMock.module(this.ng1Module.name);
* const upgrade = new UpgradeAdapterRef();
* this.ng2BootstrapDeferred.promise.then
* (ng1Injector) => {
* (any>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)
* method. Unlike * AngularJS, this bootstrap is asynchronous.
* `**/* * @usageNotes
* `**/* * const adapter = new UpgradeAdapter(MyNg2Module);
* `**/* * const module =
angular.module('myExample', []); *
* module.directive('ng2', ng2.directive);
* this.declareNg1Module(modules);
* this.ng1Module.name);
* `**/* * class Ng2
* `**/* * @NgModule({'
* 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
* `**/* * imports: [angular.module('myExample', []);
* `**/* * @Component({
* `**/* * inputs: [name],
* `**/* * template: '<ng1 [title]='name'>(<span ng-transclude></span>)'
* `**/* * templateUrl: 'ng1.html';
* `**/* * class Server {
* `**/* * constructor(@Inject('server') server, Login) {
* `**/* * })
* `**/* * module.factory('example', adapter.downgradeNg2Provider(Example));
* `**/* * adapter.bootstrap(document.body, ['myExample']);
* 
`**/* * @Injectable()
* `**/* * class Example {
* `**/* * constructor(InjectorService) => {
* `**/* * @InjectorService
* `**/* * class MyNg2Module {}
* `**/* * adapter.upgradeNg1Provider(name, options?)
* `**/* * allows Angular service to be accessible from AngularJS.
* `**/* * const adapter = new UpgradeAdapter(MyNg2Module);
* `**/* * adapter.upgradeNg1Provider('server');
* `**/* * adapter.upgradeNg1Provider('login', (asToken: Login) =>
* `**/* * adapter.upgradeNg1Component(name, options);
* `**/* * const adapter = new UpgradeAdapter(MyNg2Module);
* `**/* * adapter.upgradeNg1Component('server');
* `**/* * adapter.upgradeNg1Component('login');
* `**/* * adapter.upgradeNg1Component('myExample');
* `**/* * adapter.upgradeNg1Component('example');
* `**/* * upgradeAdapter(MyNg2Module);`
* `**/* * const module = angular.module('myExample', []);
* `**/* * const adapter = new UpgradeAdapter(MyNg2Module);
* `**/* * adapter.upgradeNg1Component('server');
* `**/* * adapter.upgradeNg1Component('login');
* `**/* * adapter.upgradeNg1Component('myExample');
* `**/* * adapter.upgradeNg1Component('example');
* `**/* * upgradeAdapter(MyNg2Module);`
* `**/* * const module = angular.module('myExample', []);
* `**/* * adapter.upgradeNg1Component('server');
* `**/* * adapter.upgradeNg1Component('login');
* `**/* * adapter.upgradeNg1Component('myExample');
* `**/* * adapter.upgradeNg1Component('example');
* ```
```
```
*\n  /**\n   * Declare the AngularJS upgrade module for this adapter without bootstrapping the whole\n   * hybrid application.\n*\n  * This method is automatically called by `bootstrap()` and `registerForNg1Tests()`.\n*\n  * The AngularJS modules that this upgrade module should depend upon.
*\n  * @returns The AngularJS upgrade module that is declared by this method
*\n  * @usageNotes
  * ### Example
*\n  */
  private declareNg1Module(modules: string[]): IModule {
    const delayApplyExps: Function[] = [];
    let original$applyFn: Function;
    let rootScopePrototype: any;
    let rootScope: IRootScopeService;
    const upgradeAdapter = this;
    const ng1Module = this.ng1Module = angularModule(this.idPrefix, modules);
    const platformRef = platformBrowserDynamic();
    this.ngZone = new NgZone({enableLongStackTrace: true});
    this.ng2BootstrapDeferred = new Deferred();
    ng1Module.constant(UPGRADE_APP_TYPE_KEY, UpgradeAppType.Dynamic)
        .factory(INJECTOR_KEY, () => this.moduleRef.injector.get(Injector))
        .factory(LAZY_MODULE_REF, (INJECTOR_KEY) => this.moduleRef.injector.get(INJECTOR_KEY))
        .factory(NG_ZONE_KEY, this.ngZone)
        .factory(COMPILER_KEY, () => this.moduleRef.injector.get(Compiler))
        .factory($ROOT_SCOPE, (injector: Injector) => {
          class RootScopeService {
            constructor(injector: Injector) {
              this.injector = injector;
            }
            getRootScope() {
              return $rootScope;  // Bootstrap AngularJS.
            }
            whenStable(): boolean {
              return $rootScope.$apply();  // Restore original $apply.
            }
          }
          return new RootScopeService(injector);
        })
        .factory(ng1Injector: IInjectorService) => {
          provide.decorator($$TESTABILITY, [Injector], function(testabilityDelegate: ITestabilityService) {
            const originalWhenStable: Function = testabilityDelegate.whenStable;
            const ng2Testability: Testability = upgradeAdapter.moduleRef.injector.get(Testability);
            if (ng2Testability.isStable()) {
              originalWhenStable.call(this, function() {
                testabilityDelegate.whenStable(newWhenStable.bind(this, callback));
              });
            } else {
              throw new Error('Failed to find $$Sapply on \$srootScope\$!');
            }
          });
        });
        .config((ng1Injector: IInjectorService, rootScope: IRootScopeService) => {
          UpgradeNg1ComponentAdapterBuilder.resolve(this.ng1ComponentsToBeUpgraded, ng1Injector) => {
            const ng2Testability: Testability = upgradeAdapter.moduleRef.injector.get(Testability);
            if (ng2Testability.isStable()) {
              return testabilityDelegate.whenStable(
                newWhenStable.bind(this, callback));
            } else {
              throw new Error('Failed to find $$Sapply on \$srootScope\$!');
            }
          });
        });
        .run((ng1Injector: IInjectorService, rootScope: IRootScopeService) => {
          UpgradeNg1ComponentAdapterBuilder.resolve(this.ng1ComponentsToBeUpgraded, ng1Injector) => {
            const ng2Testability: Testability = upgradeAdapter.moduleRef.injector.get(Testability);
            if (ng2Testability.isStable()) {
              return testabilityDelegate.whenStable(
                newWhenStable.bind(this, callback));
            } else {
              throw new Error('Failed to find $$Sapply on \$srootScope\$!');
            }
          });
        });
```

```
```
AAG,gBAAkB,CAAC,QAAsD,IAAM,cAAs,GAAG,UAAM,eAAe,CAAC,MAAG,CAAC,C,QAeF,e,oBAAoB,CAAC,SAAS,EAAs,GAAG,GAAG,CAAC,MAAG,CAAC,CAAC,QAAD,OAAt,eAAe,CAAC,MAAM,CAAC,GAAG,CAAC,SAAS,GAAG,QAAsD,OAAt,eAAe,CAAC,MAAM,CAAC,GAAG,CAAC,CAAC,GAAG,GAAG,MAAM,CAAC,GAAG,GAAG,CAAC,SAAS,GAAG,QAAsD,OAAt,eAAe,CAAC,MAAM,CAAC,GAAG,GAAG,MAAM,CAAM,MAAM,CAAC,GAAG,GAAG,CAAC,SAAS,GAAG,QAAsD,OAAt,eAAe,CAAC,MAAM,CAAC,GAAG,GAAG,MAAM,CAAM,MAAM,CAAC,GAAG,GAAG,CAAC,SAAS,GAAG,QAAsD,OAAt,eAAe,CAAC,MAAM,CAAC,GAAG,GAAG,MAAM,CAAM,MAAM,CAAC,GAAG,GAAG,CAAC,SAAS,GAAG,QAAsD,OAAt,eAAe,CAAC,MAAM,CAAC,GAAG,GAAG,MAAM,CAAM,MAAM,CAAC,GAAG,GAAG,CAAC,SAAS,GAAG,QAAsD,OAAt,eAAe,CAAC,MAAM,CAAC,GAAG,GAAG,MAAM,CAAM,MAAM,CAAC,GAAG,GAAG,CAAC,SAAS,GAAG,QAAsD,OAAt,eAAe,CAAC,MAAM,CAAC,GAAG,GAAG,MAAM,CAAM,MAAM,CAAC,GAAG,GAAG,CAAC,SAAS,GAAG,QAAsD,OAAt,eAAe,CAAC,MAAM,CAAC,GAAG,GAAG,MAAM,CAAM,MAAM,CAAC,GAAG,GAAG,CAAC,SAAS,GAAG,QAAsD,OAAt,eAAe,CAAC,MAAM,CAAC,GAAG,GAAG,MAAM,CAAM,MAAM,CAAC,GAAG,GAAG,CAAC,SAAS,GAAG,QAAsD,OAAt,eAAe,CAAC,MAAM,CAAC,GAAG,GAAG,MAAM,CAAM,MAAM,CAAC,GAAG,GAAG,CAAC,SAAS,GAAG,QAAsD,OAAt,eAAe,CAAC,MAAM,CAAC,GAAG,GAAG,MAAM,CAAM,MAAM,CAAC,GAAG,GAAG,CAAC,SAAS,GAAG,QAAsD,OAAt,eAAe,CAAC,MAAM,CAAC,GAAG,GAAG,MAAM,CAAM,MAAM,CAAC,GAAG,GAAG,CAAC,SAAS,GAAG,QAAsD,OAAt,eAAe,CAAC,MAAM,CAAC,GAAG,GAAG,MAAM,CAAM,MAAM,CAAC,GAAG,GAAG,CAAC,SAAS,GAAG,QAAsD,OAAt,eAAe,CAAC,MAAM,CAAC,GAAG,GAAG,MAAM,CAAM,MAAM,CAAC,GAAG,GAAG,CAAC,SAAS,GAAG,QAAsD,OAAt,eAAe,CAAC,MAAM,CAAC,GAAG,GAAG,MAAM,CAAM,MAAM,CAAC,GAAG,GAAG,CAAC,SAAS,GAAG,QAAsD,OAAt,eAAe,CAAC,MAAM,CAAC,GAAG,GAAG,MAAM,CAAM,MAAM,CAAC,GAAG,GAAG,CAAC,SAAS,GAAG,QAAsD,OAAt,eAAe,CAAC,MAAM,CAAC,GAAG,GAAG,MAAM,CAAM,MAAM,CAAC,GAAG,GAAG,CAAC,SAAS,GAAG,QAAsD,OAAt,eAAe,CAAC,MAAM,CAAC,GAAG,GAAG,MAAM,CAAM,MAAM,CAAC,GAAG,GAAG,CAAC,SAAS,GAAG,QAAsD,OAAt,eAAe,CAAC,MAAM,CAAC,GAAG,GAAG,MAAM,CAAM,MAAM,CAAC,GAAG,GAAG,CAAC,SAAS,GAAG,QAAsD,OAAt,eAAe,CAAC,MAAM,CAAC,GAAG,GAAG,MAAM,CAAM,MAAM,CAAC,GAAG,GAAG,CAAC,SAAS,GAAG,QAAsD,OAAt,eAAe,CAAC,MAAM,CAAC,GAAG,GAAG,MAAM,CAAM,MAAM,CAAC,GAAG,GAAG,CAAC,SAAS,GAAG,
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/* 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);
};

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

function __assign() {
    __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) && e.indexOf(p) < 0)
                t[p] = s[p];
        }
        return t;
    };
    return __assign.apply(this, arguments);
}

function __rest(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 && Object.prototype.propertyIsEnumerable.call(s, p[i]))
                t[p[i]] = s[p[i]];}
    return t;
}

function __awaiter(thisArg, _arguments, P, generator) {
    return new (P || (P = Promise))(function (resolve, reject) {
        function fulfilled(value) { try { step(generator.next(value)); } catch (e) { reject(e); } }
        function rejected(value) { try { step(generator["throw"](value)); } catch (e) { reject(e); } }
        function step(result) {
            var value = result.value,ok = result.ok,

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license that can be
     * found in the LICENSE file at https://angular.io/license
     */
    var INITIAL_VALUE =
    var DowngradeComponentAdapter = /** @class */ (function () {
        function DowngradeComponentAdapter(element, attrs, scope, ngModel, parentInjector, $injector, $compile,
            componentFactory, wrapCallback) {
            this.element = element;
            this.attrs = attrs;
            this.scope = scope;
            this.ngModel = ngModel;
            this.parentInjector = parentInjector;
            this.$injector = $injector;
            this.$compile = $compile;
            this.$parse = $parse;
            this.componentFactory = componentFactory;
            this.wrappedCallback = wrapCallback;
            this.implementsOnChanges = false;
            this.inputChangeCount = 0;
            this.inputChanges = {};
            this.componentScope = scope.$new();
        }
        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: $SCOPE, useValue: this.componentScope }];
            var childInjector = core.Injector.create({
                providers: providers, parent: this.parentInjector, name: 'DowngradeComponentAdapter' });
            this.componentRef = this.componentFactory.create(childInjector, projectableNodes, this.element[0]);
            this.viewChangeDetector = this.componentRef.injector.get(core.ChangeDetectorRef);
            this.changeDetector = this.componentRef.changeDetectorRef;
            this.component = this.componentRef.instance;
            // testability hook is commonly added during component bootstrap in
            // packages/core/src/application_ref.bootstrap
            // in downgraded application, component creation will take
            // place here as well as adding the
            // testability hook.
            this.componentRef.injector.get(core.Testability, null); if (testability) {
                this.componentRef.injector.get(core.TestabilityRegistry).registerApplication(this.component.location.nativeElement, testability);
            }
            hookupNgModel(this.ngModel, this.component);
        };
        DowngradeComponentAdapter.prototype.setupInputs = function (manuallyAttachView, propagateDigest) {
            var _this = this;
            if (propagateDigest === void 0) { propagateDigest = true; }
            var attrs = this.attrs;
            var inputs = this.componentFactory.inputs || [];
            var unwatch_1 = null;
            if (attrs.hasOwnProperty(input.prop)) {
                var observeFn_1 = function (prop) {
                    var prevValue = INITIAL_VALUE;
                    return function (currValue) {
                        // Initially, both
                        // `$observe()` and `$watch()` will call this function.
                        if (!strictEquals(prevValue, currValue)) {
                            if (prevValue === INITIAL_VALUE) {
                                prevValue = currValue;
                            }
                            _this.updateInput(prop, prevValue, currValue);
                            prevValue = currValue;
                        }
                    };
                };
var detectChanges = function () { return _this.changeDetector.detectChanges(); };

var prototype = this.componentFactory.componentType.prototype;

var this_.implementsOnChanges = !!((prototype &
& prototype.ngOnChanges);

this.componentScope.$watch(function () { return _this.inputChangeCount; },
this.wrapCallback(function () {
    // If not opted out of propagating digest, invoke change detection when inputs change.
    if (!propagateDigest) {
        detectChanges();
    }

    this_.viewChangeDetector.markForCheck();
    // If necessary, attach the view so that it will be dirty-checked.
    if (manuallyAttachView || !propagateDigest) {
        var unwatch_2 = this.componentScope.$watch(function () {
            unwatch_2();
            unwatch_2 = null;
        });
        appRef = _this.parentInjector.get(core.ApplicationRef);
        appRef.attachView(_this.componentRef.hostView);
    }

    var get this_.registerCleanup = function () {
        var testabilityRegistry = this.componentRef.injector.get(core.TestabilityRegistry);
        var destroyComponentRef = this.wrapCallback(function () { return _this.componentRef.destroy(); });
        var destroyed = false;
        this.element.on('$destroy', function () { return _this.componentScope.$destroy(); });

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

    DowngradeComponentAdapter.prototype.registerCleanup = function () {
        var testabilityRegistry = this.componentRef.injector.get(core.TestabilityRegistry);
        var destroyComponentRef = this.wrapCallback(function () { return _this.componentRef.destroy(); });
        var destroyed = false;
        this.element.on('destroy', function () { return _this.componentScope.$destroy(); });

        this.componentScope.$on('destroy', function () { if (!destroyed) { destroyed = true; } });

        testabilityRegistry.unregisterApplication(_this.componentRef.location.nativeElement);
        destroyComponentRef();
    };

    this_.getInjector = function () { return this.componentRef.injector; };

    this_.updateInput = function (prop, prevValue, currValue) {
        if (this.implementsOnChanges) {
            this.inputChanges[prop] = new core.SimpleChange(prevValue, currValue);
        }
        var currValue = this.$parse(expr);
        var getter = this_.getInjector().get(prop).getter;
        if (isIteration) {
            var value = getter(this_.scope);
            if (prevValue !== value) {
                this_.component.$set(prop, value);
            }
        }
    };

    this_.subscribeToOutput = function (output, expr, isAssignment) {
        var getter = this.$parse(expr);
        var setter = getter.assign;
        if (isAssignment && !setter) {
            throw new Error("Expression '" + expr + "' is not assignable!");
        }
        var emitter = this.component[output.prop];
        if (emitter) {
            emitter.subscribe({
                next: isAssignment
                        ? function (v) { return setter(this.scope, v); }
                        : function (v) { return getter(this.scope, { '$event': v }); }
            });
        } else {
            throw new Error("Missing emitter '" + output.prop + "' on component '" + getTypeName(this.componentFactory.componentType) + "'!");
        }
    };

    var onComponent = function (this component, prop, value) {
        if (isAssignment) {
            this.component.$set(prop, value);
        } else {
            throw new Error("Missing getter for property " + prop + " on component " + getTypeName(this.componentFactory.componentType) + "!");
        }
    };

    this_.subscribeToOutput(output, attr[bindonAttr], true);
```javascript
var ngContentSelectors = this.componentFactory.ngContentSelectors;
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 != null) {
            projectableNodes[ngContentIndex].push(node);
        }
    }
    return projectableNodes;
}

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;
}

function matchesSelector(el, selector) {
    if (!_matches) {
        var elProto = 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;
}

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;
        this.callbacks.forEach(function (callback) { return callback(value); });
        this.callbacks.length = 0;
    };
    SyncPromise.prototype.then = function (callback) {
        if (this.resolved)
            return SyncPromise.all([value]);
        if (isThenable(p))
            p.then(function (v) { resolve(idx, v); });
        else {
            resolve(idx, p);
        }
        return aggrPromise;
    };
    SyncPromise.prototype.resolve = function (value) {
        // Do nothing, if already resolved.
    };
    // 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 SyncPromise;
}();
```
There are basically three cases:
- If there is no parent component (thus no `parentInjector`), we bootstrap the `downgradedModule` and use its injector as both `finalModuleInjector` and `finalParentInjector`.
- If there is a parent component (and thus a `parentInjector`) and we bootstrap the `downgradedModule`, then we use the `parentInjector` as both `finalModuleInjector` and `finalParentInjector`.

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).

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.)
the 'NgModule' is already bootstrapped, we just get its injector (we don't have to 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.

var finalParentInjector = parent Injector || 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.
var finalModuleInjector = module Injector || parentInjector;  // Retrieve 'ComponentFactoryResolver' from the injector tied
to the 'NgModule' this
// component belongs to.

var componentFactory = componentFactoryResolver.resolveComponentFactory(info.component);  // if (!componentFactory)

    throw new Error('"Expected ComponentFactory for: " + getTypeName(info.component));

    var injectorPromises = new ParentInjectorPromise(element);  // new facade

    if (an async, it is possible that it is not run inside an
    // digest and initial input values will not be
detected.

    scope.$evalAsync(function () { });

    }

    var doDowngrade = function (injector, moduleInjector) {
        if (!ngZone)
            scope.$evalAsync(function () { });

        // If this is run
downgradeFn = !isNgUpgradeLite ? doDowngrade : function (pInjector, mInjector) {

            var injectorPromise = new ParentInjectorPromise(element);

            var facade
                = new DowngradeComponentAdapter(element, attrs, scope, ngModel, injector, $injector, $compile, $parse,

                componentFactory, wrapCallback);  // facade.createComponent(projectableNodes);

            var projectableNodes = facade.compileContents();

            facade.createComponent(projectableNodes);

            facade.setupInputs(isNgUpgradeLite,

            info.propagateDigest());

            facade.setOutput s();

            facade.registerCleanup();

            injectorPromise.resolve(facade.getInjector());

        if (ranAsync) {

            // If this is run
            // digest and initial input values will not be
detected.

            scope.$evalAsync(function () { });

            var doDowngradeFn = !isNgUpgradeLite ? doDowngrade : function (pInjector, mInjector) {

                if (!ngZone)

                    ngZone = pInjector.get(core.NgZone);

                wrapCallback(function () { return doDowngrade(pInjector, mInjector); });

            }

            NOTE:

            Not using 'ParentInjectorPromise.all()' (which is inherited from 'SyncPromise'), because

            // Closure Compiler (or some related tool) complains:

            // 'TypeError:
            ...

            SyncPromise.all((finalParentInjector, finalModuleInjector))

            var _b = __read(_a, 2), pInjector = _b[0], mInjector = _b[1];

            return downgradeFn(pInjector,

            mInjector);

        };

        ranAsync = true;

    }

    return finalModuleInjector.get(core.ComponentFactoryResolver);

    var componentFactory = componentFactoryResolver.resolveComponentFactory(info.component);

    if (!componentFactory)

        throw new Error('"Expected ComponentFactory for: " + getTypeName(info.component));

    }

    // bracket-notation because of closure - see #14441

    directiveFactory["$inject"] = [$COMPILE, $INJECTOR,

    SPARSE];

    return directiveFactory;

    }]

    * **@class */ (function (_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;

        }

        ParentInjectorPromise.prototype.resolve = function (injector) {

            // Release the element to prevent memory leaks.

            this.element = null;

            // Resolve

            the promise.

            _super.prototype.resolve.call(this, injector);

        };

        return ParentInjectorPromise;

    })('Promise')

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    * **

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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.
* @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
* defined `HeroesService` and that we have included this in our upgrade app `NgModule`
* Now we can register the `downgradeInjectable` factory function for the service
* on an AngularJS module.
* Inside an AngularJS component's controller we can get hold of the
* downgraded service via the name we gave when
downgrading.
* @usageNotes
* `downgradeInjectable` 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.
* @usageNotes
* `downgradeInjectable` 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 a
* downgradeInjectable(token, downgradedModule) {
* if (downgradedModule === void 0) {
*     // Not supported
* } else {
*     return factory;
* }
* return factory;
var $templateCache_1 = $injector.get($TEMPLATE_CACHE);
                var templateUrl = getOrCall(directive.templateUrl, $element);
                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 {
                throw new Error("Directive '" + directive.name + "' is not a component, it is missing template.");
            }
        };

        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 on the component+child elements.
            // Equivalent to how jQuery/jqLite invoke `cleanData` on an Element
            // `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);
                if (typeof transclude === 'object') {
                    $template = 
                    var slotMap_1 = Object.create(null);
                    var filledSlots_1 = Object.create(null);
                    Object.keys(transclude).forEach(function (slotName) {
                        var selector = transclude[slotName];
                        selector = optional ? selector.substring(1) :
                        selector = transclude[slotName];
                        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] || 
                        }
                    });
                    };
                };
                $template = $template.replace(/\s+/g, ' ').trim();
                $template = $template.replace('[\^|\.]+', '\$1');
                $template = $template.replace('[\[|\]\&]', '\$1');
                $template = $template.replace('([^\^|\.]+)', '\$1');
            }
            // Parse the element selectors:
            Object.keys(transclude).forEach(function (slotName) {
                var selector = transclude[slotName];
                selector = optional ? selector.substring(1) :
                selector = transclude[slotName];
                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] || 
                }
            });
            };
        };

        UpgradeHelper.prototype.compileHtml = function (
            templateUrl, $element, $scope, $injector, $httpBackend, $templateCache, $compile, $q, $rootScope);
function isMap(value) {
        return value && !Array.isArray(value) && typeof value === 'object';
    }

    function notSupported(name, feature) {
        throw new Error("Upgraded directive \\
            \"\" + name + \"\" contains unsupported feature: \\\n            \"\" + 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 LICENSE file at https://angular.io/license
     */
    var CAMEL_CASE = /\[A-Z\]/g;
    var INITIAL_VALUE$1 = {
        __UNINITIALIZED__: true
    };
    var NOT_SUPPORTED = 'NOT_SUPPORTED';
    var UpgradeNg1ComponentAdapterBuilder = /** @class */ (function () {
        function UpgradeNg1ComponentAdapterBuilder(name) {
            this.name = name;
            this.inputs = [];
            this.inputsRename = [];
            this.outputs = [];
            this.outputsRename = [];
            this.propertyOutputs = [];
            this.checkProperties = [];
            this.directive = null;
            var selector = name.replace(CAMEL_CASE, function (all, next) { return '-' + next.toLowerCase(); });
            var self = this;
            // Note: There is a bug in TS 2.4 that prevents us from
            // inlining this into @Directive
            // TODO(tbosch): find or file a bug against TypeScript for this.
            var var MyClass = /** @class */ (function (_super) {
                __extends(MyClass, _super);
                function MyClass(scope, injector, elementRef) {
                    var _this = this;
                    _this = _super.call(this, new UpgradeHelper(injector, name, elementRef, self.directive || undefined), scope, self.template, self.inputs, self.outputs, self.propertyOutputs, self.checkProperties, self.propertyMap) || this;
                    return _this;
                }
                MyClass = __decorate([core.Directive(__assign({ jit: true }, directive)),
                    __param(0, core.Inject($SCOPE)),
                    __metadata("design:paramtypes", [Object, core.Injector, core.ElementRef])
                ], MyClass);
            }(UpgradeNg1ComponentAdapter));
            this.type = MyClass;
        }

        UpgradeNg1ComponentAdapterBuilder.prototype.extractBindings = function () {
            var 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.");
            }
            var context = (btcIsObject) ? this.directive.bindToController : this.directive.scope;
            if (typeof context == 'object') {
                Object.keys(context).forEach(function (propName) {
                    var definition = context[propName];
                    var bindingType = definition.charAt(0);
                    var bindingOptions = definition.charAt(1);
                    var attrName = definition.substring(bindingOptions === '?' ? 2 : 1) || propName;
                    var inputName = "input_" + attrName;
                    var inputNameRename = inputName + ": " + attrName;
                    var outputName = "output_" + attrName;
                    var outputNameRename = outputName + ": " + attrName;
                    var outputNameRenameChange = outputNameRename + "+ Change\";\n                    switch (bindingType) {
                        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;
                            break;
                        case '=':
                            this.inputs.push(inputName);
                            this.inputsRename.push(inputNameRename);
                            this.outputs.push(outputName);
                            this.outputsRename.push(outputNameRenameChange);
                            this.propertyMap[outputName] = propName;
                            this.propertyMap[outputNameRename] = propName;
                            break;
                        case '&':
                            this.outputs.push(outputName);
                            this.outputsRename.push(outputNameRenameChange);
                            this.propertyMap[outputName] = propName;
                            break;
                        case '*':
                            throw new Error("Unsupportd binding definition " + bindingType + \\
                                \"\" in \"\" + propName + \"\".\\"\")
                    }
                });
            }
        };
    }

    UpgradeNg1ComponentAdapterBuilder.prototype.resolve = function (exportedComponents, $injector) {
        var promises = Object.keys(exportedComponents).map(function (name) {
            var MyClass = /** @class */ (function (_super) {
                __extends(MyClass, _super);
                function MyClass(scope, injector, elementRef) {
                    var _this = this;
                    _this = _super.call(this, new UpgradeHelper(injector, name, elementRef, undefined), scope, self.template, self.inputs, self.outputs, self.propertyOutputs, self.checkProperties, self.propertyMap) || this;
                    return _this;
                }
                MyClass = __decorate([core.Directive(__assign({ jit: true }, directive)),
                    __param(0, core.Inject($SCOPE)),
                    __metadata("design:paramtypes", [Object, core.Injector, core.ElementRef])
                ], MyClass);
            }(UpgradeNg1ComponentAdapter));
            this.type = MyClass;
            return MyClass;
        });
        return Promise.all(promises);
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.$element = null;
        this.directive = helper.directive;
        this.element = helper.element;
        this.componentScope = scope.$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$1);
        }
    }
    UpgradeNg1ComponentAdapter.prototype.ngOnInit = function () {
        // Collect contents, insert and compile
        template
        var attachChildNodes = this.helper.prepareTransclusion();
        var linkFn =
        this.helper.compileTemplate(this.template);
        // Instantiate controller (if not already done so)
        if (controllerType) {
            this.controllerInstance =
            this.helper.buildController(controllerType, this.componentScope);
            this.destinationObj =
            this.controllerInstance;
        } else {
            this.destinationObj =
            this.componentScope;
        }
        if (isFunction(this.controllerInstance.$onInit)) {
            this.controllerInstance.$onInit();
        }
        // Linking
        var var linkFn =
        this.directive.link;
        var preLink = typeof link == 'object' && link.pre;
        var postLink = typeof link == 'object' ? link.post : link;
        var attrs = NOT_SUPPORTED;
        var transcludeFn = NOT_SUPPORTED;
        if (preLink) {
            preLink(this.componentScope, this.$element, attrs, requiredControllers, transcludeFn);
        }
        linkFn(this.componentScope, null, { parentBoundTranscludeFn: attachChildNodes });
        if (postLink) {
            postLink(this.componentScope, this.$element, attrs, requiredControllers, transcludeFn);
        }
        // Hook: $onInit
        if (isFunction(this.controllerInstance.$onInit)) {
            this.controllerInstance.$onInit();
        }
    }
    UpgradeNg1ComponentAdapter.prototype.ngOnChanges = function (changes) {
        var _this = this;
        var ng1Changes = {};
        Object.keys(changes).forEach(function (name) {
            var change =
            changes[name];
            _this.setComponentProperty(name, change.currentValue);
            ng1Changes[_this.propertyMap[name]] = change;
        });
        if (isFunction(this.destinationObj.$onChanges)) {
            this.destinationObj.$onChanges(ng1Changes);
        }
    }
    UpgradeNg1ComponentAdapter.prototype.ngDoCheck = function () {
        var var lastValues = this.checkLastValues;
        var checkProperties = this.checkProperties;
        var propOuts = this.propOuts;
        checkProperties.forEach(function (propName, i) {
            var var value = destinationObj[propName];
            var last = lastValues[i];
            if (!strictEquals(last, value)) {
                var eventEmitter = _this[propOuts[i]];
                eventEmitter.emit(lastValues[i] = value);
            }
        });
    }
    return UpgradeNg1ComponentAdapter;
}());
var
UpgradeNg1ComponentAdapterBuilder = new UpgradeNg1ComponentAdapter();
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Open Source Used In MSX Platform Services 3.9.0

```javascript

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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 */

var 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
 * 2. creation of AngularJS directive from Angular component
 * 3. Bootstrapping of a hybrid Angular application which contains both of the frameworks existing in a single application.
 * @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.
 * 3. 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 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 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.
 * 8. 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 `$apply()`.

*Example*

```javascript

const adapter = new UpgradeAdapter(forwardRef(() => MyNg2Module), myCompilerOptions);
const module = angular.module('myExample', []);
module.directive('ng2Comp', function() {
    return {
        scope: { title: '=' },
        template: 'ng2[<ng1-hello [title]="name">transclude</ng1-hello>](<ng-content></ng-content>)',
        directives: {
            'ng1-hello': function() {
                return {
                    scope: { name: '=' },
                    template: '<ng1-hello [name]="name" transclude="<ng-content></ng-content>"/>
                };
            }
        },
        compName: 'MyNg2Module',
        templateUrl: 'ng2-comp.html'
    };}

module.directive('ng1Hello', function() {
    return {
        scope: { title: '=' },
        template: 'ng1[Hello {{title}}!](<span ng-transclude></span>)
    };

    adapter.upgradeNg1Component('ng1Hello'),
});

class MyNg2Module {
    constructor() {
        this.name = 'World';
    }
}

class Ng2Component {
    constructor() {
    }
}

@NgModule({
    declarations: [Ng2Component, adapter.upgradeNg1Component('ng1Hello')],
    imports: [BrowserModule]
})

class MyNg2Module {}

module.compile = function() {
    return {
        scope: { title: '=' },
        template: 'ng1[Hello {{title}}!](<span ng-transclude></span>)
    };

    adapter.upgradeNg1Component('ng1Hello'),
});

adapter.bootstrap(document.body);
### Example

```
const adapter = new UpgradeAdapter(forwardRef(() => MyNg2Module));
const module = angular.module('myExample', [
  ]); const module.directive('greet', function() {

  return {
    scope: {salutation: '=', name: '=' },
    
  MyNg2Module));
  const module = angular.module('myExample', [
  ]); const module.directive('greet', adapter.downgradeNg2Component(Greeter));
  ```

### Supported Features

- **BindToController**: supported.
- **ControlValueAccessor** interface from @angular/forms. Only components that implement this interface are eligible.
- **Controller**: supported.
- **Controller As**: supported.
- **Content Projection**: yes
- **Content Template**: supported.
- **Controller Property**: supported.
- **Directives**: supported.
- **Documentation**: supported.
- **@Input() name: string
- **@NgModule([BrowserModule])
- **document.body.innerHTML
- **[Directive Definition Object](https://docs.angularjs.org/api/ng/service/$compile)
- **@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 Angular. 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 AngularJS component declaration. Components are not declared in the AngularJS template.

### 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 Angular. 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 AngularJS component declaration. Components are not declared in the AngularJS template.

### Supported Features

- **Bindings**: supported. Use `@Input()` on the component’s template to be used from Angular.
- **Attribute**: supported. Use `@Input()` on the component’s template to be used from Angular.
- **Event**: supported. Use `@Input()` on the component’s template to be used from Angular.
- **Transclusion**: supported. Use `@Input()` on the component’s template to be used from Angular.
- **Scope**: supported. Use `@Input()` on the component’s template to be used from Angular.
- **Template**: supported. Use `@Input()` on the component’s template to be used from Angular.
- **Template Url**: supported. Use `@Input()` on the component’s template to be used from Angular.
- **Module Directive**: supported. Use `@Input()` on the component’s template to be used from Angular.
- **Module Directive (Greet)**: supported. Use `@Input()` on the component’s template to be used from Angular.
- **Module Directive (Greeter)**: supported. Use `@Input()` on the component’s template to be used from Angular.
- **Module Directive (Ng2Component)**: supported. Use `@Input()` on the component’s template to be used from Angular.
- **Module Directive (MyExample)**: supported. Use `@Input()` on the component’s template to be used from Angular.

### Example

```javascript
const adapter = new UpgradeAdapter(forwardRef(() => MyNg2Module));
const module = angular.module('myExample', [
  ]); const module.directive('greet', adapter.downgradeNg2Component(Greeter));
```
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 = windowAngular.resumeBootstrap;
        windowAngular.resumeBootstrap = function () {
            var r = windowAngular.resumeBootstrap.apply(this, arguments);
            return r;
        };
        if (windowAngular.resumeBootstrap) {
            var originalResumeBootstrap_1 = windowAngular.resumeBootstrap;
            windowAngular.resumeBootstrap = function () {
                windowAngular.resumeBootstrap = originalResumeBootstrap_1;
                var r = windowAngular.resumeBootstrap.apply(this, arguments);
                return r;
            };
        }
        return upgrade;
    });

    /**
     * Allows AngularJS service to be accessible from Angular.
     *
     * @usageNotes
     *
     * ### Example
     *
     * ```
     * class Login { ... }
     * class Server { ... }
     *
     * @Injectable()
     * class Example {
     *   constructor(@Inject('server') server, login: Login) {
     *     ...
     *   }
     * }
     *
     * const module = angular.module('myExample', []);
     * module.service('server', Server);
     * module.service('login', Login);
     * module.provider('example', Example);
     * module.factory('example', function ($injector) { return $injector.get('example'); });
     *
     * const adapter = new UpgradeAdapter(MyNg2Module);
     * adapter.upgradeNg1Provider('server');
     * adapter.upgradeNg1Provider('login', {asToken: Login});
     *
     * adapter.bootstrap(document.body, ['myExample']).ready((ref) => {
     *   const example: Example = ref.ng1Injector.get('example');
     * });
     * ```
     */
    UpgradeAdapter.prototype.upgradeNg1Provider = function (name, options) {
        var token = options && options.asToken || name;
        this.upgradedProviders.push({
            provide: token,
            useFactory: function ($injector) { return $injector.get(name); },
            deps: [INJECTOR_KEY]
        });
    };

    /**
     * Allows Angular service to be accessible from AngularJS.
     *
     * @usageNotes
     * ### 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((ref) => {
     *   const example: Example = ref.ng1Injector.get('example');
     * });
     * ```
     */
    UpgradeAdapter.prototype.downgradeNg2Provider = function (token) { return downgradeInjectable(token); };

    /**
     * Declare the AngularJS upgrade module for this adapter without bootstrapping the whole
     * hybrid application.
     *
     * This method is automatically called by `bootstrap()` and `registerForNg1Tests()`.
     *
     * @returns The AngularJS upgrade module that is declared by this method
     * @usageNotes
     * ### Example
     *
     * ```
     * const adapter = new UpgradeAdapter(MyNg2Module);
     * const upgradeAdapter = new UpgradeAdapter(MyNg2Module);
     * const upgradeAdapter.declareNg1Module(['HeroApp']);
     * ```
     */
    UpgradeAdapter.prototype.declareNg1Module = function (name) {
        this.declareNg1Module([name]);
    };

    // Delay applying exs in this module up until after the rootScope prototype
    var rootScopePrototype;
    var rootScope;
    var upgradeAdapter = this;
    var ng1Module = this.ng1Module;
    var modules = [this.idPrefix, (modules || [])];
    var platformRef = platformBrowserDynamic platf
function (provide, ng1Injector) {
    provide.decorator($ROOT_SCOPE, '{ $provide', ' $injector', ' $delegate', ' function (rootScopeDelegate) {
        // Capture the root apply so that we can delay first
call to $apply until we can // bootstrap Angular and then we replay and restore the $apply:
rootScopePrototype = rootScopeDelegate.constructor.prototype;
    if (rootScopePrototype.hasOwnProperty('$$apply'))
        original$$applyFn =
rootScopePrototype.$$apply;
    rootScopePrototype.$$apply = function (exp) {
        return delayApplyExps.push(exp);
    };
    else
    if (ng1Injector.has($$TESTABILITY))
        provide.decorator($$TESTABILITY, '{ $provide', ' $injector', ' $delegate', ' function (testabilityDelegate) {
            var originalWhenStable = testabilityDelegate.$$whenStable;
            // Cannot use arrow function below because we need the context:
            var newWhenStable =
                function (callback) {
                    var originalWhenStable = callback(this, function () {
                        if (ng2Testability.isStable())
                            callback.apply(this, arguments);
                    });
                    testabilityDelegate.$$whenStable = newWhenStable;
                    return testabilityDelegate;
                };
            testabilityDelegate.$$whenStable = newWhenStable;
            ng1Module.run({ $provide', ' $injector', ' $rootScope', ' function (ng1Injector, rootScope) {
                UpgradeNg1ComponentAdapterBuilder.resolve(_this.ng1ComponentsToBeUpgraded, ng1Injector).
            });
        });
    };
    if (ng1Module.$$Module
        .then(function () {
            // Note: There is a bug in TS 2.4 that prevents us from
            // inlining
            // TODO(tbosch): find or file a bug against TypeScript for this.
            var ngModule = { $providers: [ $provide', ' $INJECTOR', ' useFactory: function () { return ng1Injector; } ], $provider': ' $COMPILE', ' useFactory: function () { return
ng1Injector.get($COMPILE); } ] },
    
    imports: [core.resolveForwardRef(_this.ng2AppModule)],
    entryComponents:
        
        // At this point we have ng1 injector and we have
        // 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)), __metadata("design:paramtypes", []) ],
    DynamicNgUpgradeModule);
    platformRef
        .bootstrapModule(DynamicNgUpgradeModule, _this.compilerOptions, {});
    _this.ngZone.run(function (ref) {
        _this.moduleRef = ref;
    });
rootScopePrototype.$$apply = original$$applyFn; // restore original $apply
    return rootScope.$$apply + delayApplyExps.shift());

    };

    var subscription = _this.ngZone.onMicrotaskEmpty.subscribe({
        next: function () {
            var subscription = _this.ngZone.onMicrotaskEmpty.subscribe({
                if (rootScope.$$phase) {
                    if (core.isDevMode()) {
                        console.warn('A digest was triggered while one was already in
progress. This may mean that something is triggering digests outside the Angular zone.');
                    }
                }
            });
        });
    return rootScope.$$apply;
}
return rootScope.$digest();

rootScope.$on('$destroy', function () {
    subscription.unsubscribe();
    ng1Module.$$isset.$destroy();
```
/**
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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
 */

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 within
  // `Sinjector`: string[], which is not compatible with
  // `Sinjector: Readonly<any[]>` (used in
  // latest versions).
  $inject?: Function
 extends{[key: string]: string}[]? Ng1Token[]: ReadonlyArray<Ng1Token>;
}

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: Injectable): IModule;
  factory(key: Ng1Token, factoryFn: Injectable): 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;
  $$slots?: {[slotName: string]: any};
}
export interface ILinkFnOptions {
  parentBoundTranscludeFn?: Function;
  transcludeControllers?: {[key: string]: any}[];
  futureParentElement?: Node;
}
export interface IRootScopeService {
  $new(isolate?: boolean): IScope;
  $id: string;
  $parent: IScope;
  $root: IScope;
  $watch(exp: Ng1Expression, fn?: (a1?: any, a2?: any) => void): Function;
  $on(event: string, fn?: (event?: any, ...args: any[]) => void): Function;
  $$childTail: IScope;
  $$childHead: IScope;
  $$nextSibling: IScope;
  [key: string]: any;
}
export interface IScope extends IRootScopeService {}

export interface IDirective {
  compile?: IDirectiveCompileFn;
  controller?: IController;
  controllerAs?: string;
  bindToController?: boolean|{[key: string]: string};
  link?: IDirectiveLinkFn|IDirectivePrePost;
  name?: string;
  priority?: number;
  replace?: boolean;
  require?: DirectiveRequireProperty;
  restrict?: string;
  scope?: boolean|{[key: string]: string};
  template?: string|Function;
  templateUrl?: string|Function;
  transclude?: DirectiveTranscludeProperty;
}
export type DirectiveRequireProperty = SingleOrListOrMap<string>;
export type DirectiveTranscludeProperty = boolean | 'element' | {[key: string]: string}[];
```

global Reflect, Promise */

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 __assign.apply(this, arguments);
}

export function __rest(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 && Object.prototype.propertyIsEnumerable.call(s, p[i]))
                t[p[i]] = s[p[i]];}
    return t;
}

export 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 === "object" && typeof Reflect.decorate === "function") r = Reflect.decorate(decorators, target, key, desc);
    else for (var i = decorators.length - 1; i >= 0; i--) if (d = decorators[i]) r = (c < 3 ? d(r) : c > 3 ? d(target, key, r) : d(target, key)) || r;
    return c > 3 && r && Object.defineProperty(target, key, r), r;
}

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

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

export function __awaiter(thisArg, _arguments, P, generator) {
    return new (P || (P = Promise))(function (resolve, reject) {
        function fulfilled(value) { try { step(generator.next(value)); } catch (e) { reject(e); } }
        function rejected(value) { try { step(generator["throw"](value)); } catch (e) { reject(e); } }
        function step(result) {
            result.done ? resolve(result.value) : new P(function (resolve) { resolve(result.result.value); }).then(fulfilled, rejected); }
        step((generator = generator.apply(thisArg, _arguments || [])).next());
    });
}

export function __generator(thisArg, body) {
    var _ = { label: 0, sent: function() { if (t[0] & 1) throw t[1]; return t[1]; }, trys: [], ops: [] }, f, y, t, g;
    return g = { next: verb(0), "throw": verb(1), "return": verb(2) }, typeof Symbol === "function" && (g[Symbol.iterator] = function() { return this; }), g; //.step = function(x){[++y,y]}; g["return"]={};
}

export function __callee(e, r, t) {
    if (t[0] & 1) throw t[1];
    switch (t[0]) {
        case 0: case 1: return t[2];
        case 4: case 5: case 7:
            g = { key: e, entry: r[key] };
            return (a0 = e[0]), a0[0] ? (t = [t[2], a0], y = o ? a0[2] : 0, t[0] ? (o = 0, t[0] ? (t[2] = o[0], v = o[1], e[0] = v.key, e[1] = v.value, r[e[0]] = v.value) : (t[2] = o[0], v = o[1], e[0] = v.key, e[1] = v.value, r[e[0]] = v.value)) : t[2] : o[0]) ? (t[2] = o[0], v = o[1], e[0] = v.key, e[1] = v.value, r[e[0]] = v.value) : t[2] : o[0];
}
case 7: op = _ops.pop(); _trys.push(op); continue \n
default: \n
if (!t = _trys, t = t.length > 0 & & t[1].length - 1) & & (op[0] === 6 || op[0] === 2)) { _ = 0; continue; } \n
if (op[0] === 3 & & !t[1]) \n
if ((op[1] > t[0] & & op[1] < t[3]) || (_label = op[1]; break; \n
\n
if (op[0] === 5 & & _label < t[1]) { \n
if (t[2]) \n
\n
...
'\$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 UPGRADE_APP_TYPE_KEY = '\$$angularUpgradeAppType';

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

export const UPGRADE_MODULE_NAME = '\$$UpgradeModule';

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 * can be
 * 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
 * `"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 = `bind\${capitalAttr}`;
    this.bindonAttr = `bindon\${capitalAttr}`;
  }
}

/**
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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 {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!
  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.get(UPGRADE_APP_TYPE_KEY) ?
      UpgradeAppType.None : $injector.get(UPGRADE_APP_TYPE_KEY);
}

UpgradeAppType.None:

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

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

export function function validateInjectionKey($injector: IInjectorService, 
    downgradeModule: string, injectionKey: string, attemptedAction: string) {
  void { const upgradeAppType = getUpgradeAppType($injector); 
      const downgradedModuleCount = getDowngradedModuleCount($injector); 
      check for common errors: 

  case UpgradeAppType.DYNAMIC: 
      throw new Error('DowngradedModule unexpectedly specified.');
  case UpgradeAppType.STATIC: 
      if (downgradedModule) {
          throw new Error('DowngradedModule unexpectedly specified.');
      } 
      You should not specify a value for 
      DowngradedModule\n    unless you are downgrading\n    more than one Angular module (via
This application contains more than one downgraded Angular module, thus you need to always specify \`downgradedModule\` when downgrading components and injectables.

'\`downgradedModule\` not specified.'

'Did you forget to downgrade an Angular module or include it in the AngularJS \`application\`?'

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'Did you forget to downgrade an Angular module or include it in the AngularJS \`application\`?'

'\`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.'

'Did you forget to downgrade an Angular module or include it in the AngularJS \`application\`?'

'\`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.'
```
(legend: Node[]) => {
  compiledProjectableNodes.push(legend);
  this.element.append !(legend); 
};

return compiledProjectableNodes;
}

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

  // testability hook is commonly added during component bootstrap in
  // packages/core/src/application_ref.bootstrap()
  // in downgraded application, component creation 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(ой manuallyAttachView: boolean, 
propagateDigest = true): void {
  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);
      expr = attrs.$observe(input.attr, observeFn);
    }
    else if (attrs.hasOwnProperty(input.bindAttr)) {
      expr = attrs[input.bindAttr];
    } else if (attrs.hasOwnProperty(input.bracketAttr)) {
      expr = attrs[input.bracketAttr];
    } else if (attrs.hasOwnProperty(input.bindonAttr)) {
      expr = attrs[input.bindonAttr];
    } else if (attrs.hasOwnProperty(input.bracketParenAttr)) {
      expr = attrs[input.bracketParenAttr];
    }
    if (expr != null) {
      const watchFn = (prop => (currValue: any, prevValue: any) =>
        this.updateInput(prop, prevValue, currValue))(input.prop);
      this.componentScope.$watch(expr, watchFn);
    }
  }

  // Invoke `ngOnChanges()` and Change Detection
  // (when necessary)
  const detectChanges = () => this.changeDetector.detectChanges();
  const prototype = this.componentFactory.componentType.prototype;
  this.implementsOnChanges = !!(prototype && (<OnChanges>prototype).ngOnChanges);

  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();
      }
    }));

  this.viewChangeDetector.markForCheck();
  if (propagateDigest) {
    detectChanges();
  }

debugger;
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], 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!());
  }

  /**
   * Group a set of DOM nodes into `ngContent` groups, based on the given content selectors.
   */
  export function groupNodesBySelector(ngContentSelectors: string[], nodes: Node[]): Node[][] {
    const projectableNodes: Node[][] = [];
    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) {
      ngContentIndices.push(wildcardNgContentIndex);
    }

    return ngContentIndices[0] : null;
  }

  function matchesSelector(el: any, selector: string) : boolean {return functionMatchesSelector(el: any, selector: string): boolean {return functionMatchesSelector(el, selector);};

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

    static all<T>(valuesOrPromises: (T|Thenable<T>)[]): SyncPromise<T>[] {
      //...
```javascript
const aggrPromise = new SyncPromise<T[]>(t =>
  let resolvedCount = 0;
  const results: T[] = [];
  const
  resolve = (idx: number, value: T) =>
    results[idx] = value;
  const
  aggrPromise = new SyncPromise<T[]>(
    resolve(results),
  );
  let resolvedCount = 0;
  const results: T[] = [];
  const
  resolve = (idx: number, value: T) =>
    results[idx] = value;
  const
  aggrPromise = new SyncPromise<T[]>(
    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);
  }
}

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 * 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, 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](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.
 *
 * *Usage notes:
 * - Propagate the directive to AngularJS by passing `propagateDigest` to true.
 * - Pass the component's `template` URL to `templateUrl`.
 * - Use the component's `service` URL to `serviceUrl`.
 * - Use the component's `style` URL to `styleUrl`.
 * - Use the component's `selector` to `selector`.
 * - `inputs` and `outputs` are supported.
 * - `selectors` are supported.
 *
 * @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 />
 *   This option is only necessary when using `downgradeModule()` to downgrade more than one
 *   Angular module.)
 * - `propagateDigest?: boolean`: Whether to perform [link ChangeDetectorRef#detectChanges
 * change detection] on the component on every
 * [digest](https://docs.angularjs.org/api/ng/type/$rootScope.Scope#$digest).
 * If set to `false`, *change detection* will be still performed when any of the component's inputs changes.
 * (Default: true)
 * - `inputs?: string[]`: An array of input properties.
 * - `outputs?: string[]`: An array of output properties.
 * - `selectors?: string[]`: An array of selectors.
 */
function downgradeComponent(info: {
  component: Type<any>; downgradedModule?: string;
  /** @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(
      $compile: ICompileService, $injector: IInjectorService, $parse:
      IParseService): IDirective {
    // When using `downgradeModule()`, we need to handle certain things specially. For
    // example
    // - We always need to attach the component view to the `ApplicationRef` for it to be
    //   dirty-
    // - We need to ensure callbacks to Angular APIs (e.g. change detection) are run inside
    //   the
    // The type of the Component that will be downgraded:
    // - `downgradedModule?: string`: The name of the downgraded module (if any) that the
    // component "belongs to", as returned by a call to `downgradeModule()`.
    // It is the module, whose
    // corresponding Angular module will be bootstrapped, when the component needs to be instantiated.
    // (<br />
    // This option is only necessary when using `downgradeModule()` to downgrade more than one
    // Angular module.)
    // - `propagateDigest?: boolean`: Whether to perform [link ChangeDetectorRef#detectChanges
    // change detection] on the component on every
    // [digest](https://docs.angularjs.org/api/ng/type/$rootScope.Scope#$digest).
    // If set to `false`, *change detection* will be still performed when any of the component's inputs changes.
    // (Default: true)
    // - `inputs?: string[]`: An array of input properties.
    // - `outputs?: string[]`: An array of output properties.
    // - `selectors?: string[]`: An array of selectors.
```
Angular zone.
    // NOTE: This is not needed, when using `UpgradeModule`, because `$digest()` will be run
    // inside the Angular zone (except if explicitly escaped, in which case we shouldn't
    // force it back in).

    const isNgUpgradeLite = getUpgradeAppType($injector) === UpgradeAppType.Lite;
    const wrapCallback: <T>(cb: () => T) => typeof cb =
        !isNgUpgradeLite ? cb => cb : cb => () =>
        NgZone.isInAngularZone() ? cb() : ngZone.run(cb);

    const parentInjector: Injector|Thenable<Injector>|undefined = undefined;
    let ngZone: NgZone;

    // When downgrading multiple modules, special handling is needed wrt injectors.

    if (!parentInjector || hasMultipleDowngradedModules) {
      const downgradedModule = info.downgradedModule
        || ''; const lazyModuleRefKey = `${LAZY_MODULE_REF}${downgradedModule}`;

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

      const lazyModuleRef = $injector.get(lazyModuleRefKey) as LazyModuleRef;
      moduleInjector = lazyModuleRef.injector || lazyModuleRef.promise as Promise<Injector>;
    }

    const doDowngrade = (injector: Injector, moduleInjector: Injector) => {
      const componentFactoryResolver: ComponentFactoryResolver =
        moduleInjector.get(ComponentFactoryResolver);

      const componentFactory: ComponentFactory<any> =
        componentFactoryResolver.get(info.component);
componentFactoryResolver.resolveComponentFactory(info.component) !\n
        if (!componentFactory) {\n          throw new Error('Expecting ComponentFactory for: \$\{getTypeName(info.component)\}');\n        }\n
        const injectorPromise = new ParentInjectorPromise(element);\n        const facade = new DowngradeComponentAdapter(element, attrs, scope, ngModel, injector, $injector, $compile, $parse,\n          componentFactory, wrapCallback);\n        const projectableNodes = facade.createComponent();\n        facade.setupInputs(isNgUpgradeLite, info.propagateDigest);\n        facade.setupOutputs();\n        facade.registerCleanup();\n
        injectorPromise.resolve(facade.getInjector());\n
        if (ranAsync) {\n          // If this is run async, it is possible that it is not run inside \$\n          // digest and initial input values will not be detected.\n          scope.$evalAsync(() => {});\n        }\n
        const downgradeFn = !isNgUpgradeLite ? doDowngrade : (pInjector: Injector, mInjector: Injector) => {\n          if (!ngZone) {\n            ngZone = pInjector.get(NgZone);\n          }\n
          wrapCallback(() => doDowngrade(pInjector, mInjector))();\n        };

        // NOTE:\n        // Not using `ParentInjectorPromise.all()` (which is inherited from `SyncPromise`), because\n        // Closure Compiler (or some related tool) complains:\n        // `TypeError: ...Src\$downgrade_component_ParentInjectorPromise.all is not a function`\n        SyncPromise.all([finalParentInjector, finalModuleInjector]).then(([pInjector, mInjector]) => {\n          private injectorKey: string = controllerKey(INJECTOR_KEY);\n          constructor(private element: IAugmentedJQuery): {\n            super(): void;\n            // Store the promise on the element.\n            data !(this.injectorKey, this);\n            resolve(injector: Injector): void {\n              // Store the real injector on the element.\n              this.element.data !(this.injectorKey, injector);\n              // Release the element to prevent memory leaks.\n              this.element = null;\n              // Resolve the promise.\n              super.resolve(injector);\n            }\n          };\n          }\n        });\n      }\n    };
  };

  // bracket-notation because \n  of closure - see #14441\n  of getTypeName, isFunction, validateInjectionKey from \'@angular/core\'\n  Injectable from \'@angular\'\n
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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';

/**\n * @description\n *
 * A helper function to allow an Angular service to be accessible from AngularJS.\n *
 * *Part of the\n * [upgrade/static](api?query=upgrade%2Fstatic) library for hybrid upgrade apps that support AOT compilation*\n *\n * This helper function returns a factory function that provides access to the Angular\n * service identified by the `token` parameter.\n *
 * **Examples**\n *
 * First ensure that the service to be downgraded is provided in an `NgModule` *\n * that will be part of the upgrade application. For example, let's assume we have an *\n * defined `HeroesService`\n *
 * and that we have included this in our upgrade app `NgModule` *\n * now we can register the `downgradeInjectable` factory function for the service\n * on an AngularJS module.\n *
 * A helper function to allow an Angular service to be accessible from AngularJS.\n *
 */

function downgradeInjectable(token: any, service: any) {
  return {\n    provide: any,\n    useExisting: service,\n    useFactory: (injector: IInjectorService) => {
      injector[getTypeName(token)] = service;\n      return service;\n    }\n  };\n}

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

function downgradeInjectable(token: any, service: any) {
  return {\n    provide: any,\n    useExisting: service,\n    useFactory: (injector: IInjectorService) => {
      injector[getTypeName(token)] = service;\n      return service;\n    }\n  };\n}

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

function downgradeInjectable(token: any, service: any) {
  return {\n    provide: any,\n    useExisting: service,\n    useFactory: (injector: IInjectorService) => {
      injector[getTypeName(token)] = service;\n      return service;\n    }\n  };\n}
by a call to `downgradeModule()`. It is the module, whose injector will not be used for instantiating the injectable. `<br />

```
const injectorKey = `\${INJECTOR_KEY}\${downgradedModule}`;
```

const injectableName = isFunction(token) ? getTypeName(token) : String(token);

const attemptedAction = `instantiating injectable \`${injectableName}\``; injectableName !== injectableName

```
validateInjectionKey(SinJECTor, downgradeModule, injectorKey, attemptedAction); return
```

```const injector = SinJECTor.get(injectorKey);

```

@returns a `[factory function](https://docs.angularjs.org/guide/di)` that can be

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```

* @returns a `[factory function](https://docs.angularjs.org/guide/di)` that can be

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```
A helper function for creating an AngularJS module that can bootstrap an Angular module (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/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 module will be used from that point onwards. `downgradeModule()` requires either an `NgModuleFactory` or a function:

- `NgModuleFactory`: If you pass an `NgModuleFactory`, it will be used to instantiate a module using `platformBrowser`'s `bootstrapModuleFactory()`.
- `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 providers that are expected to be available from the returned `NgModuleRef`'s `Injector`.

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 \[ @link NgZone Angular zone \].
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.

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). 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 \[ Upgrading for Performance\].

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()`.

- 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`).

More details on how to use `downgradeModule()` can be found in the \[ example upgrade/static/ts/lite/module.ts region=upgrade/lite \].

For more details on how to use `downgradeModule()` and `UpgradeModule` in the same hybrid application, see \[ Upgrading for Performance\].
When using `@link PlatformRef#bootstrapmodule` `bootstrapModule()` you can bootstrap the `bootstrapModuleFactory` `bootstrapModuleFactory()` to bootstrap the root module. Each one is considered a "root" module. As a consequence, a new instance will be created for every injectable provided in "root" module (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.

@publicApi
export function downgradeModule<T>(
  moduleFactoryOrBootstrapFn: NgModuleFactory<T>|
  ((extraProviders: StaticProvider[]): Promise<NgModuleRef<T>>): string {
    const lazyModuleName = `${UPGRADE_MODULE_NAME}.lazy${++moduleUid}`;
    const lazyModuleRefKey = `${LAZY_MODULE_REF}${lazyModuleName}`;
    const lazyInjectorKey = `${INJECTOR_KEY}${lazyModuleName}`;

    const bootstrapFn = isFunction(moduleFactoryOrBootstrapFn) ?
      moduleFactoryOrBootstrapFn :
      (extraProviders: StaticProvider[]) =>
platformBrowser(extraProviders).bootstrapModuleFactory(moduleFactoryOrBootstrapFn);

    let injector: any;

    // Create an ng1 module to bootstrap.
    angularModule(lazyModuleName, [])
      .constant(UPGRADE_APP_TYPE_KEY, UpgradeAppType.Lite)
      .factory(INJECTOR_KEY,
        (injector: IInjectorService) => {
          return injector;
        })
      .factory(LAZY_MODULE_REF,
        (lazyModuleRefKey, identity) => {
          return lazyModuleRefKey;
        })
      .factory($INJECTOR,
        ($injector: IInjectorService) => {
          setTempInjectorRef($injector);
          const result: LazyModuleRef = {
            promise: bootstrapFn(angular1Providers).then(ref => {
              injector = result.injector = new NgAdapterInjector(ref.injector);
              injector.get($INJECTOR);

              return injector;
            })
          };
          return result;
        })
      .config($INJECTOR, SPROVIDE, $CONTROLLER, $HTTP_BACKEND, $COMPILE, $TEMPLATE_CACHE, controllerKey, directiveNormalize, isFunction,
        [injector: IInjectorService, $provide: IProvideService] => {
          $provide.constant(DOWNGRADED_MODULE_COUNT_KEY, getDowngradedModuleCount(injector) + 1);
        })
      .factory(SERVICE_NAME, 
        (injector: IInjectorService) => {
          return injector;
        }));

    return lazyModuleName;
}

function identity<T = any>(x: T): T {
  return x;
}
// user-defined `compile` if there is no `link`. In other cases, we will just ignore `compile`. 
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> {
    if (directive.template !== undefined) {
      return getOrCall<string>(directive.template, $element);
    } else if (directive.templateUrl) {
      const $templateCache = $injector.get(STEMPLATE_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, $scope: IScope) {
    // TODO: Document that we do not pre-assign bindings on the controller instance.
    // Quoted properties below so that this code can be optimized with Closure Compiler:
    const locals = {'$scope': $scope, '$element': this.$element};
    const controller = this.$controller(controllerType, locals, null, this.directive.controllerAs);
    const controllerData = this.$controllerInstance.data(this.directive.name);
    const controller = controllerData.controller;
    const controller.$onDestroy = controller.$onDestroy || () => undefined;
    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 the
      // transcluded content comes from Angular, not AngularJS.
      // Provide a dummy `scope.$destroy()` method
      // to prevent `cloneAttachFn` from throwing.
      scope = scope || {$destroy: () => undefined};
      return cloneAttachFn !($template, scope);
    };
    let $template = contentChildNodes;

    if (transclude) {
      const slots = Object.create(null);
      const contentChildNodes = this.extractChildNodes();
      const attachChildrenFn: ILinkFn = (scope, cloneAttachFn) => {
        // Since AngularJS v1.5.8, `cloneAttachFn` will try to destroy the transclusion scope if the
        // `template` DOM event isn't empty. Since the transcluded content comes from Angular,
        const slotMap = Object.create(null);
        const filledSlots = Object.create(null);

        Object.keys(transclude).forEach(slotName => {
          let selector = transclude[slotName];
          let optional = selector.charAt(0) === '?';
          selector = optional ? selector.substring(1) : selector;

          slotMap[selector] = slotName;
          filledSlots[slotName] = false;
        });

        contentChildNodes.forEach(node => {
          const slotName = directiveNormalize(node.nodeName.toLowerCase());
          if (slotName) {
            filledSlots[slotName] = true;
            slotMap[slotName] = slots[slotName] || [];
            if (optional && !filledSlots[slotName]) {
              throw new Error(`Directive '${directive.name}' is not a component, it is missing template.`);
            }

            const slots = Object.keys(filledSlots).forEach(slotName => {
              if (filledSlots[slotName]) {
                throw new Error(`Directive '${directive.name}' is not a component, it is missing template.`);
              }
            });

            $template.push(node);
          } else {
            $template.push(node);
          }
        });

        // Check for required slots that were not filled.
        Object.keys(filledSlots).forEach(slotName => {
          if (filledSlots[slotName]) {
            throw new Error(`Directive '${directive.name}' is not a component, it is missing template.`);
          }
        });
      };
    }

    return attachChildrenFn;
  }

ILinkFn, IScope, ITranscludeFunction} from './../src/common/src/angular1\nimport {iScope, ITranscludeFunction} from './../src/common/src/upgrade_helper\nimport {IScope, ITranscludeFunction, UpgradeHelper} from './../src/common/src/util\nconst NOT_SUPPORTED: any = NOT_SUPPORTED;\nconst INITIAL_VALUE = {\n  __UNINITIALIZED__: true\n};\n\nclass Bindings {\n  twoWayBoundProperties: string[] = [];\n  twoWayBoundLastValues: any[] = [];\n  expressionBoundProperties: string[] = [];\n  propertyToOutputMap: {[propName: string]: string} = {};
}
\n/**\n * @description\n *
 * A helper class that allows an AngularJS component to be used from\n * Angular.
 *
 * *Part of the [upgrade/static](api?query=upgrade%2Fstatic) library for hybrid upgrade apps that\n * 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 *
 * Let's assume that you have an AngularJS component called \'ng1Hero\' that needs\n * to be made available in\n * 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\n * compile time.\n *
 * Note that we must do the following:\n *
 * * specify the directive's selector (`\'ng1-hero\'`)\n * * specify all inputs and\n * outputs that the AngularJS component expects\n * * derive from \`UpgradeComponent\`\n *
 * The `ElementRef` and `Injector` for the component wrapper are\n *
 * created automatically when \`UpgradeComponent\`\n *
 * `OnInit`, `OnChanges`, `DoCheck`, `OnDestroy` \n *

```typescript
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\n  // `ngOnInit` hook, when the\n  // first `ngOnChanges` will have been already triggered. We store the\n  // `SimpleChanges` and \`\`play them back\`\` later.\n
  private controllerInstance!: IControllerInstance;

  private pendingChanges!: SimpleChanges | null;

  private unregisterDoCheckWatcher!: Function;

  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.directive = this.helper.directive;

    this.bindings = this.initializeBindings(this.directive);

    // We ask for the AngularJS scope from the Angular\n    // injector, since\n    // we will put the new component scope onto the new injector for each component\n    this.$componentScope = \n      \n      if (controllerType) {\n        this.controllerInstance = this.helper.buildController(controllerType,\n          this.$componentScope);\n      } else if (bindToController) {\n        throw new Error(`\n          Upgraded directive \`\{
            this.directive.name\}` \specifies \`bindToController\' but no controller.\`);\n      }\n
      // Set up outputs\n      this.bindingDestination = bindToController ? this.controllerInstance : this.$componentScope;\n    }
```

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```javascript
this.bindOutputs();

    // Require other controllers
    const 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)) {
      callDoCheck();
    }

    // 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
    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) {
      if (!this.bindingDestination) {
        this.pendingChanges = changes;
      } else {
        this.forwardChanges(changes);
      }

      // ngDoCheck
      if (isFunction(this.unregisterDoCheckWatcher)) {
        this.unregisterDoCheckWatcher();
      }

      this.helper.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
            break;
            case '=':
              bindings.twoWayBoundProperties.push(propName);
              bindings.twoWayBoundLastValues.push(INITIAL_VALUE);
              bindings.propertyToOutputMap[propName] = propName.toLowerCase() + 'Change';
              break;
            case '&':
              bindings.expressionBoundProperties.push(propName);
              bindings.propertyToOutputMap[propName] = propName + 'Change';
              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
      bindings.twoWayBoundProperties.concat(bindings.expressionBoundProperties)
        .forEach(propName => {
          const outputName = bindings.propertyToOutputMap[propName];
          (this as any)[outputName] = new EventEmitter();
        });
    }
```
Object.keys(changes).forEach(propName => this.bindingDestination[propName] = changes[propName].currentValue);

if (isFunction(this.bindingDestination.$onChanges)) {
    this.bindingDestination.$onChanges(changes);
}

}

/**
 * @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 {NgModule, 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 {LazyModuleRef, UpgradeAppType, controllerKey} from ',.../src/common/src/app';
import {UpgradeModule} from '@angular/upgrade/static';
import {UpgradeModule} from '@angular/upgrade/static';
import {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 upgrade application.
 *
 * Part of the [upgrade/static](api?query=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:
 *
 * 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
 *
 *    ```
 *    import {UpgradeModule} from '@angular/upgrade/static';
 *    ```
 *
 *    See also the [examples](https://angular.io/api/upgrade/static) below.
 *
 *    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. Each framework only updates/interacts with its own DOM elements and ignores others.
 *    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 boetraps 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 boetraps the Angular component at its location in the DOM. See `downgradeComponent`.
 *    7. 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.
 */

/**
 * @example
 *
 * ```html
 * <upgrade-module></upgrade-module>
 * ```
 *
 * See also the [examples](https://angular.io/api/upgrade/static) below.
 *
 * 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 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. 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.
 */

import {UpgradeModule} from '@angular/upgrade/static';

// Examples

```html
<upgrade-module></upgrade-module>
```
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](https://docs.angularjs.org/api/ng/service) to the root injector.

* * Bootstrap
*   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
DOM for the hybrid upgrade app.

* * AngularJS $injector
*   Importing this `NgModule` will add providers for the core
*   \[AngularJS services\](https://docs.angularjs.org/api/ng/service) to the root injector.

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DOM for the hybrid upgrade app.
the behavior from AngularJS
let wrappedInterval = \n(fn: Function, delay: number,
count?: number, invokeApply?: boolean, ...pass: any[]) => { 
this.ngZone.runOutsideAngular(() => {
  return intervalDelegate((...args: any[]) => {
    // Run callback in the next VM turn - $interval calls
    // $rootScope.$apply, and running
    the callback in NgZone will
    // cause a 'digest already in progress' error if it's in the
    // same vm turn.
    setTimeout(() => { this.ngZone.run(() => fn(...args)); });
  }, delay, count, invokeApply, ...pass);
});
}

(wrappedInterval as any)['cancel'] = intervalDelegate.cancel;
return wrappedInterval;

}

$INJECTOR.$injector = $injector;

// Initialize the ng1 Injector provider
setTempInjectorRef($injector);
this.injector.get($INJECTOR);

// Put the injector on
// the DOM, so that it can be \"required\" angularElement(element).data
!(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 = $injector.get('$rootScope');
const subscription = this.ngZone.onMicrotaskEmpty.subscribe(() => {
  const $rootScope = $injector.get('$rootScope');
  return $rootScope.$evalAsync();
});
  return $rootScope.$digest();
});

}

]}

windowAngular.resumeBootstrap = undefined;

// Bootstrap the AngularJS application inside our zone
this.ngZone.run(() => { bootstrap(element, [upgradeModule.name], config); });

// 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));
  };
}

return $rootScope.$evalAsync();

*/

'./src/common/src/upgrade_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.

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

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

{"version":3,"file":"upgrade-static-
testing.umd.js","sources":["../../../../../external/npm/node_modules/tslib/tslib.es6.js","../../../../../../../packages/upgrade
/src/common/src/angular1.ts","../../../../../../../packages/upgrade/src/common/src/constants.ts","../../../../../../../packages
/upgrade/static/testing/src/create_angular_testing_module.ts","../../../../../../../packages/upgrade/static/testing/src/creat
e_angularjs_testing_module.ts","../../../../../../../packages/upgrade/static/testing/public_api.ts","../../../../../../../packages
/upgrade/static/testing/index.ts","../../../../../../../packages/upgrade/static/testing/testing.ts"],"sourcesContent":
"/*!*****************************************************************************
** Copyright (c) Microsoft Corporation. All rights reserved.**
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** WITHOUT LIMITATION ANY IMPLIED WARRANTIES OR CONDITIONS OF TITLE,**
** MERCHANTABILITY OR NONINFRINGEMENT.**
** See the Apache Version 2.0 License for specific language governing**
** permissions and limitations under the License.***************************************************************************** */
/**
 * global Reflect, Promise */

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

export var __assign = __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;
}:

export function __rest(s, e) {
    var t;
'element' | {'key': string} | string;

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, controller: any, transclude: ITranscludeFunction): void;
}

export interface IComponent {
  bindings?: {
    [key: string]: string;
  };
  controller?: string|IInjectable;
  controllerAs?: string;
  require?: IDirectiveRequireProperty;
  template?: string|Function;
  templateUrl?: string|Function;
  transclude?: IDirectiveTranscludeProperty;
}

export interface IAttributes {
  $observe(attr: string, fn: (v: string) => void): void;
  [key: string]: any;
}

export interface ITranscludeFunction {
  (scope: IScope, cloneAttachFn: ICloneAttachFunction): IAugmentedJQuery;
  (cloneAttachFn?: ICloneAttachFunction): IAugmentedJQuery;
}

export interface ICloneAttachFunction {
  (clonedElement: IAugmentedJQuery, scope: IScope): any;
}

export interface IAugmentedJQuery = Node[] & {
  on?: (name: string, fn: () => void) => void;
  data?: (name: string, value?: any) => any;
  text?: () => string;
  inheritedData?: (name: string, value?: any) => any;
  contents?: () => IAugmentedJQuery;
  parent?: () => IAugmentedJQuery;
  empty?: () => void;
  append?: (content: IAugmentedJQuery | string) => IAugmentedJQuery;
  controller?: (name: string) => any;
  isolateScope?: () => IScope;
}

export interface IProvideService {
  provider(token: Ng1Token, provider: IProvider): IProvider;
  factory(token: Ng1Token, factory: IInjectable): IProvider;
  service(token: Ng1Token, type: IInjectable): IProvider;
  value(token: Ng1Token, value: any): IProvider;
  constant(token: Ng1Token, value: any): void;
  decorator(token: Ng1Token, factory: IInjectable): void;
}

export interface IParseService {
  (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;
}

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

export interface ITemplateCacheService extends ICacheObject {
  (template: string|any /* TrustedResourceUrl */, ignoreRequestError?: boolean): boolean;
  totalPendingRequests: number;
}

export interface ITemplateRequestService {
  (template: string|any /* TrustedResourceUrl */, ignoreRequestError?: boolean): Promise<string>;
}

export interface IController = string | IInjectable;

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<any>;
  cancel(promise: Promise<any>): boolean;
}

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;
  $setTouched(): void;
  $rollbackViewValue(): void;
  $validate(): void;
  $commitViewValue(): void;
  $setViewValue(value: any, trigger: string): void;
  $viewValue: any;
  $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;

angular.$inject = ['
  bootstrap: (e: Element, modules: (string | IInjectable)[][], config?: IAngularBootstrapConfig) =>
    INjectorService,
  module: (prefix: string, dependencies?: string[]) =>
    IModule,
  element: (e: string | Element | Document | IAugmentedJQuery): IAugmentedJQuery';
### Open Source Used In MSX Platform Services 3.9.0

#### cleanData

```javascript
const cleanData: (nodes: Node[] | NodeList) => void =
  (nodes: Node[] | NodeList) => {
    nodes.forEach(node => {
      if (node.nodeType === Node.DOCUMENT_NODE) {
        node.unlink();
      }
    });
  };
```

#### injector

```javascript
const injector: (modules: Array<string | IInjectable>, strictDi?: boolean) => IInjectorService =
  (modules: Array<string | IInjectable>, strictDi?: boolean) => {
    return angular.injector(modules, strictDi);
  };
```

#### version

```javascript
export const version: {major: number} = {
  major: 3
};
```

#### resumeBootstrap

```javascript
export const resumeBootstrap: () => void =
  () => {
    angular.resumeBootstrap();
  };
```

#### getTestability

```javascript
export const getTestability: (element: Element) => ITestabilityService =
  (element: Element) => {
    return angular.getTestability(element);
  };
```

#### $injectorFactory

```javascript
@NgModule({
  providers:
    [{provide: $INJECTOR, useFactory: $injectorFactory}]
})
export class AngularTestingModule {
  constructor(i: Injector) {
    injector = i;
  }
}
```

### AngularJS Module

```javascript
import {Injector, NgModule, Type} from '@angular/core';
import * as angular from '../../../src/common/src/angular1';
import {$INJECTOR, UPGRADE_APP_TYPE_KEY} from '../../../src/common/src/constants';
import {UpgradeAppType} from '../../../src/common/src/util';

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

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>

* <code-example path="upgrade/static/ts/full/module.spec.ts" region="angular-spec"></code-example>

* <div class="alert is-important">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.

* <div class="alert is-important">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.

* <div class="alert is-important">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`.

* 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 `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 Angular root `Injector` as normal.

* Services that are (or have dependencies on) a downgraded AngularJS service, will be instantiated as needed by the AngularJS `Sinjector`. In the following code snippet, `HeroesService` is an Angular service that depends upon an AngularJS service, `titleCase`.

* 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`.

* 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 `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 `Injector`.

* 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.

* 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:

```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 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 TestBed.inject(Injector);
  });
}
```

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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
 */

"version":3,"file":"static.js","sources":
["/**
 * @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
 */

export type Ng1Token = string;

export type Ng1Expression = string |
Function;

export interface IAnnotatedFunction extends Function {[un // Older versions of `@types/angular`
typings extend the global 'Function` interface within `@Sinject?: string[]`, which is not compatible with `@Sinject?:
ReadableArray<string>` (used in `@latest versions`).\n\nSinject?: Function extends[\Sinject?: string[]]?
Ng1Token]: ReadableArray<Ng1Token>|[un\nexport type Injectable = (Ng1Token | Function)] |
IAnnotatedFunction;\nexport type SingleOrListOrMap<T> = T | T[] | {
[key: string]: T};\nexport interface
IModule {\nname: string;\nrequires: (string|Injectable)[];\nconfig(fn: Injectable): IModule;\n
directive(selector: string, factory: Injectable): IModule;\ncomponent(selector: string, component: IComponent):
interface IControllerService {
  (controllerConstructor: IController, locals?: any, later?: any, ident?: any): any;
  (controllerName: string, locals?: any): any;
  (controller: IController, locals?: any, later?: any, ident?: any): any;
}

export interface IInjectorService {
  get(key: string): any;
  set(key: string): void;
  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;
  $viewValue: any;
  $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;
}

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;
  $COMPILE: $compile;
  $CONTROLLER: $controller;
  $DELEGATE: $delegate;
  $EXCEPTION_HANDLER: $exceptionHandler;
  $HTTP_BACKEND: $httpBackend;
  $INJECTOR: $injector;
  $INTERVAL: $interval;
  $PARSE: $parse;
  $PROVIDE: $provide;
  $ROOT_SCOPE: $rootScope;
  $SCOPE: $scope;
  $TEMPLATE_CACHE: $templateCache;
  $TEMPLATE_REQUEST: $templateRequest;
  $$TESTABILITY: $$testability;
  COMPILER_KEY: 'ngCompiler';
  DOWNGRADED_MODULE_COUNT_KEY: 'ngDowgradedModuleCount';
 柽入_element: (e: string | Element) => IElement;
  $viewChangeListeners: Function[];
} = {
  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.
}

/**
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 *
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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 = 'ngCompiler';
export const DOWNGRADED_MODULE_COUNT_KEY = 'ngDowgradedModuleCount';
```typescript
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// found in the LICENSE file at https://angular.io/license

/**
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 * can be
 * 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
 * `"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${capitalAttr}`;
    this.bindAttr = `bind${capitalAttr}`;
    this.bindonAttr = `bindon${capitalAttr}`;
  }
}
```
projectableNodes, this.element[0]); this.viewChangeDetector = this.componentRef.injector.get(ChangeDetectorRef); this.changeDetector = this.componentRef.changeDetectorRef; this.component = this.componentRef.instance; // testability hook is commonly added during component bootstrap
for (let i = 0; i < inputs.length; i++) {
    const input = new PropertyBinding(inputs[i].propName, inputs[i].templateName); let expr: string|null = null; if (attrs.hasOwnProperty(input.attr)) {
        const observeFn = (prop => {
            let prevValue = INITIAL_VALUE;
            return (currValue: any) => {
                if (!strictEquals(prevValue, currValue)) {
                    if (prevValue === INITIAL_VALUE) {
                        prevValue = currValue;
                    }
                    this.updateInput(prop, prevValue, currValue);
                    prevValue = currValue;
                }
            };
        })(input.prop);
        attrs.$observe(input.attr, observeFn);
    } 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);
    }
}

detectChanges = () => this.changeDetector.detectChanges();
const prototype = this.componentFactory.componentType.prototype; this.implementsOnChanges = !!(prototype && (<OnChanges>prototype).ngOnChanges);
this.subscribeToOutput(output, attrs[input.bindAttr], true);
if (this.implementsOnChanges) {
    const inputChanges = this.inputChanges;
    this.inputChanges = {};
    (<OnChanges>this.component).ngOnChanges(inputChanges !);
}
this.viewChangeDetector.markForCheck();

if (propagateDigest) {
    this.componentScope.$watch(this.wrapCallback(detectChanges));
}
if (manuallyAttachView || !propagateDigest) {
    let unwatch: Function|null = this.componentScope.$watch(() => {
        unwatch !();
        unwatch = null;
        const appRef = this.parentInjector.get<ApplicationRef>(ApplicationRef);
        appRef.attachView(this.componentRef.hostView);
    });
}

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);
    }
  }
}

/**
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 * 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 {$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](guide/upgrade#using-angular-components-from-angularjs-code)
 * library for hybrid upgrade apps that support AOT compilation
 *
 * ### Examples
 *
 * Let’s assume that you have an Angular component called `ng2Heroes` that needs to be made available inside
 * AngularJS templates.
 *
 * `{@example upgrade/static/ts/full/module.ts region="ng2-heroes"}
 *
 * We must create an AngularJS directive that wraps the `ng2Heroes` component available inside
 * AngularJS templates.
 *
 * `{@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).
 *
 * @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.
 *   (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) on the component on every
 *
 * @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) run inside the
    //   Angular zone.
    // NOTE: This is not needed, when using `UpgradeModule`, because `$digest()` will be run
    // inside the Angular zone (except if explicitly escaped, in which case we shouldn't)
    // force it back in)
    const isNgUpgradeLite = getUpgradeAppType($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 wrt 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 attemptedAction = `instantiating component '${getTypeName(info.component)}'`;

      validateInjectionKey($injector, downgradedModule, 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 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
    // 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 !;
    // If there is a parent component and the parent component may belong to a different `NgModule`, use the module
    // injector for module-specific dependencies.
    // const finalModuleInjector = moduleInjector || parentInjector !;
    // `doDowngrade = (injector: Injector, moduleInjector: Injector) => {
    //   // Retrieve `ComponentFactoryResolver` from the injector tied to the `NgModule` this
    // component belongs to.
    //   ComponentFactoryResolver = injector.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);
    //   const projectableNodes = facade.compileContents();
    //   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
  // digest and initial input values will not be detected.
  scope.$evalAsync(() => {});
}

const downgradeFn = isNgUpgradeLite ? doDowngrade : (plInjector: Injector, mInjector: Injector) => {
  // 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`.
  // This is a SyncPromise.all([finalParentInjector, finalModuleInjector]).
  // Then we use the final promise.
  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))();
}

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;

/**
 * @license
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 *
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 */

import {Injector} from '@angular/core';
import {IInjectorService} from './angular1';
import {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 `$compile`.
 * It allows a service to be registered on an AngularJS module.
 *
 * *Part of the [upgrade/static](api?query=upgrade%2Fstatic)
 * library for hybrid upgrade apps that support AOT compilation*
 * This helper function returns a factory function that can be used to register
 * a service on an AngularJS module.
 *
 * @usageNotes
 * ### Examples
 *
 * First ensure that the service to be downgraded is
 * provided in an `NgModule` that will be part of the upgrade application. For example, let's assume we have a
 * defined `HeroesService` that is used in our upgrade
 * app. We can register this service on an AngularJS module
 * by using the `downgradeInjectable` factory function.
 *
 * ```
 * @example upgrade/static/ts/full/module.ts
 * import {HeroesService} from 'app/services/hero.service';
 * import {downgradeInjectable} from '@angular/upgrade/static';
 *
 * export function downgradeInjectable(token: any, downgradedModule: string = ''): Function {
 *   return function (injector: IInjectorService) {
 *     return injector['$inject'].push(token);
 *   }
 * }
 *
 * downgradeInjectable(HeroesService);
 * ```
 *
 * In an AngularJS module, you can use `downgradeInjectable(HeroesService);` to make the
 * `HeroesService` available in the upgraded application.
 *
 * To use the service in your AngularJS controller, you can simply inject it:
 *
 * ```
 * @example upgrade/static/ts/full/module.js
 * import {HeroesService} from 'app/services/hero.service';
 *
 * exports = function ($injector) {
 *   return {
 *     controller: function ($scope) {
 *       var heroesService = $injector.get('HeroesService');
 *       // Use the service here...
 *     }
 *   }
 * }
 * ```
 *
 * In this example, the `HeroesService` isaccessible in your AngularJS controller.
 *
 * It's important to note that the service will only be available in the part of the app that is upgraded.
 * In the case of a hybrid application, you may need to ensure that the service is accessible
 * from the upgraded part of the app.
 *
 * `downgradeInjectable` is a powerful tool for making services
 * available to both AngularJS and Angular components.
 *
 * @param token an `InjectionToken` that identifies a service provided from Angular.
 * @param downgradedModule the name of the downgraded module (if any) that the injectable
 * "belongs to", as returned
 * by a call to `downgradeModule()`.
 * @returns a factory function that can be used to register the service on an AngularJS module.
 *
 * @publicApi
 */
export function downgradeInjectable(token: any, downgradedModule: string = ''): Function {
  return function (injector: IInjectorService) {
    return injector['$inject'].push(token);
  }
}
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 = $injector.get(injectorKey);
    return injector.get(token, attemptedAction);
  };
  (factory as any)['$inject'] = 

  return factory;
},
/**
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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
 */

/**
 * @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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 * that can be * found in the LICENSE file at https://angular.io/license
 */

import {IInjectorService} from '../../src/common/src/angular1';

// We have to do a little dance to get the ng1 injector into the module injector.

let tempInjectorRef: IInjectorService|null = null;
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
}

export function rootScopeFactory(i: IInjectorService) {
  return i.get('$rootScope');
}

export function compileFactory(i: IInjectorService) {
  return i.get('$compile');
}

export function parseFactory(i: IInjectorService) {
  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']}
];

/**
 * @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 {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 {LazyModuleRef, StaticProvider} from '../../src/common/src/constants';
import {LazyModuleRef, UpgradeAppType, getDowngradedModuleCount,
isFunction} from '../../src/common/src/upgrade';

import {NgModuleFactory, NgModuleRef, IProvideService, module_ as angularModule} from '../../src/common/src/upgrade';
import {LazyModuleRef, UpgradeAppType, getDowngradedModuleCount,
isFunction} from '../../src/common/src/upgrade';

import {LazyModuleRef, UpgradeAppType, getDowngradedModuleCount,
isFunction} from '../../src/common/src/upgrade';

let 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."

 // AngularJS only supports a single tree and should always check the module injector.
 any, notFoundValue?: any): any {
  if (notFoundValue ===
)
  return
}

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

  get(token: any, notFoundValue?: any): any {
    if (notFoundValue ===
    return
  }

  return
}

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

  get(token: any, notFoundValue?: any): any {
    if (notFoundValue ===
    return
  }

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  }

  return
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    if (notFoundValue ===
    return
  }

  return
}

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

  get(token: any, notFoundValue?: any): any {
    if (notFoundValue ===
    return
  }

  return
}

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

  get(token: any, notFoundValue?: any): any {
    if (notFoundValue ===
    return
  }

  return
}
* 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 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:

- `NgModuleFactory`: If you pass an `NgModuleFactory`, it will be used to instantiate a module using `platformBrowser`'s `bootstrapModuleFactory`.
- `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 `StaticProvider` Providers that are expected to be available from the returned `NgModuleRef`'s `Injector`.

You can use it to declare a dependency in your main AngularJS module.

For more details on how to use `downgradeModule()` see the example:

```
@usageNotes
```

For more details on how to use `UpgradeModule` see 

```
@usageNotes
```

### 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.
2. Unlike `UpgradeModule`, `downgradeModule()` does not automatically run `$digest()` 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.

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). 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). You can manually trigger a change detection run in AngularJS using `scope.$apply(...)`. You can manually trigger a change detection run in Angular using `ngZone.run(...)`. It is possible to run 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 `platformBrowserDynamic()`, a new instance will be created for every Injectable provided in `\"root\"` (via `InjectableProvider`). 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
export function downgradeModule<T>(
    moduleFactoryOrBootstrapFn: NgModuleFactory<T>|
    (extraProviders: StaticProvider[]) => Promise<NgModuleRef<T>>):
  const lazyModuleName = `${UPGRADE_MODULE_NAME}.lazy${++moduleUid};
  const lazyModuleRefKey = `${LAZY_MODULE_REF}-${lazyModuleName}`;
  const lazyInjectorKey = `${INJECTOR_KEY}-${lazyModuleName}`;

  const bootstrapFn = isFunction(moduleFactoryOrBootstrapFn)
    ? moduleFactoryOrBootstrapFn :
      (extraProviders: StaticProvider[]) =>
        platformBrowser(extraProviders).bootstrapModuleFactory(moduleFactoryOrBootstrapFn);

  let injector:
    Injector;

  try {
    const lazyModuleRef = bootstrapFn(angular1Providers).then(ref => {
      injector = ref.injector;
    });
    return injector;
  } catch (e) {
    throw new Error(e + 'Trying to get the Angular injector before bootstrapping the corresponding 
  Angular module.');
  }
```

### Classes

```typescript
export 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.replace) notSupported(name, 'replace');
    if (directive.terminal) notSupported(name, 'terminal');

    return directive;
  }
```

### Constants

```typescript
const RE_REQUIRE_PREFIX_RE = /^(\^\^?)?(\?)?(\^\^?)?/;
```

### Interfaces

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

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

### Functions

```typescript
function identity<T = any>(x: T): T {
  return x;
}
```

### Modules

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

import {NgModuleFactoryOrBootstrapFn, NgModuleFactory<T> = (extraProviders: StaticProvider[]) =>
    platformBrowser(extraProviders).bootstrapModuleFactory(moduleFactoryOrBootstrapFn);}

@NgModule(
    {imports: [SomeNgModule], declarations: [SomeComponent]},
    {bootstrap: [SomeNgModule, SomeComponent]}
)
export class AppModule {
  constructor(private injector: Injector) {
    injector.get($INJECTOR).factory(LAZY_MODULE_REF, ...
      bootstrapFn(angular1Providers).then(ref => {
        injector = ref.injector;
      }));
  }
}
```

### Utilities

```typescript
export function notSupported(name: string, property: string) {
  throw new Error('Unsupported property for directive: ' + name + ' property: ' + property);
}
```

### Variables

```typescript
export const UPGRADE_APP_TYPE_KEY = UpgradeAppType.Lite;
```
getOrCall<string>(directive.template, $element),
} } else if (directive.templateUrl) {
  const templateUrl = $templateCache.get(url); if (templateUrl !== undefined) {
    return templateUrl;
  } else if (!$fetchRemoteTemplate) {
    throw new Error('loading directive templates asynchronously is not supported');
  } return new Promise(resolve, reject) => {

  const $httpBackend = $injector.get($HTTP_BACKEND) as IHttpBackendService;

  resolve($templateCache.put(url, templateUrl));
} else {
    return fetchRemoteTemplate($element, directive.templateUrl) as string;
  } 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.$element.data !(controllerKey(this.directive.name), controller);

    return controller;
  }

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

        // 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[directiveNormalize(selector.toLowerCase())] = slotName;
          slots[slotName] = null;  // `null`: Defined but not yet filled.
          filledSlots[optional] = true;  // Consider optional slots as filled.
        });

        // Add the matching elements into their slot.
        contentChildNodes.forEach(node => {
          const slotName = 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(filledSlots).forEach(slotName => {
          if (filledSlots[slotName]) {
            slots[slotName] = null;
            if (typeof transclude === 'object') {
              const slots = this.directive.slots;
              const slotMap = Object.create(null);
              const slots = slotMap[slotName] = null;  // `null`: Defined but not yet filled.
              filledSlots[slotName] = true;  // Consider optional slots as filled.
            } else {
              throw new Error(`Required transclusion slot '${slotName}' on directive: ${this.name}`);
            } return throw new Error(`Required transclusion slot '${slotName}' on directive: ${this.name}`);
          } else {  // AngularJS v1.6+ ignores empty or whitespace-only transcluded text
nodes. But AngularJS  
// 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 a [zero-width non-joiner character](https://en.wikipedia.org/wiki/Zero-width_non-joiner)  
// 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+

```javascript
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 !Array.isArray(value) && typeof value === 'object';
}

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

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

```
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 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.

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`) in the `@Directive` decorator.

    * derive from the `UpgradeComponent` base class.

    * call the base class methods from the constructor.

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`) in the `@Directive` decorator.

    * derive from the `UpgradeComponent` base class.

    * call the base class methods from the constructor.

    * passing an AngularJS component name and a template element.

    * Note that we must do the following:

      * specify the directive's selector (`ng1-hero`) in the `@Directive` decorator.

      * derive from the `UpgradeComponent` base class.

      * call the base class methods from the constructor.

      * passing an AngularJS component name and a template element.

    * Note that we must do the following:

      * specify the directive's selector (`ng1-hero`) in the `@Directive` decorator.

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      * call the base class methods from the constructor.

      * passing an AngularJS component name and a template element.

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      * derive from the `UpgradeComponent` base class.

      * call the base class methods from the constructor.

      * passing an AngularJS component name and a template element.

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      * call the base class methods from the constructor.

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      * call the base class methods from the constructor.

      * passing an AngularJS component name and a template element.

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      * specify the directive's selector (`ng1-hero`) in the `@Directive` decorator.

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      * call the base class methods from the constructor.

      * passing an AngularJS component name and a template element.

    * Note that we must do the following:

      * specify the directive's selector (`ng1-hero`) in the `@Directive` decorator.

      * derive from the `UpgradeComponent` base class.

      * call the base class methods from the constructor.

      * passing an AngularJS component name and a template element.
isFunction(this.controllerInstance.$doCheck)) { return false; }

this.unregisterDoCheckWatcher = this.$componentScope.$parent.$watch(callDoCheck);

callDoCheck();

const callDoCheck = () => this.controllerInstance.$doCheck();

this.unregisterDoCheckWatcher = this.$componentScope.$parent.$watch(callDoCheck);

callDoCheck();

// 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) {

  linkFn(this.$componentScope, this.$element, attrs, requiredControllers, transcludeFn);

}

if (postLink) {

  postLink(this.$componentScope, this.directive, this.directive, transcludeFn);

}

// Hook:

const postLink = (this.controllerInstance && isFunction(this.controllerInstance.$postLink)) {

  this.controllerInstance.$postLink();

}

ngOnChanges(changes: SimpleChanges) { if (!this.bindingDestination) { return false; } this.pendingChanges = changes;

} else { this.forwardChanges(changes);

} 

const twoWayBoundProperties = this.bindings.twoWayBoundProperties;

const twoWayBoundLastValues = this.bindings.twoWayBoundLastValues;

const propertyToOutputMap = this.bindings.propertyToOutputMap;

twoWayBoundProperties.forEach(propName => {

  const newValue = this.bindingDestination[propName];

  const oldValue = twoWayBoundLastValues[idx];

  if (!looseIdentical(newValue, oldValue)) {

    const outputName = propertyToOutputMap[propName];

    const eventEmitter: EventEmitter<any> = (this as any)[outputName];

    eventEmitter.emit(newValue);

    twoWayBoundLastValues[idx] = newValue;

  }

});

private initializeOutputs() {

  // Initialize the outputs for `=` and `&` bindings

  this.bindings.twoWayBoundProperties.concat(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] = (value: any) => emitter.emit(value);

  });

} 


from '@angular/core';

import {INInjectorService, 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 {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 applications, so
 * that it can be used in an Angular template. See
 * `UpgradeComponent`.
 *
 * 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
 * `{ @link UpgradeModule#upgrading-an-angular-1-service Upgrading an AngularJS service}
 * below.` that a framework's core services must coexist in a single application.
 * @usageNotes
 *
 * ```ts
 * import {UpgradeModule} from '@angular/upgrade/static';
 * ```
 *
 * See also the `{ @link UpgradeModule#examples 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.
 *
 * 1. There are two independent frameworks running in a single
 *    application, each framework treats the other as a black box. Every 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.
 * 2. AngularJS components 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`.
 * 3. An AngularJS 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`.
 * 4. Whenever an "upgraded"/"downgraded" component is instantiated
 *    the framework doing the instantiation is the host element. The other framework then instantiates and
 *    owns the view for that component. This is achieved by
 *    defining a new application running in an Angular zone, and therefore it no longer needs calls to
 *    `$apply()` for dependency injection.
 * 5. AngularJS is bootstrapped first; AngularJS is
 *    bootstrapped second. AngularJS always owns the root component of the application.
 * 6. The template binding syntax will always use the Angular
 *    style, e.g. square brackets (`[...]`) for property binding.
 * 7. Angular is bootstrapped first; AngularJS is
 *    bootstrapped second. AngularJS always owns the root component of the application.
also contains properties to access the `UpgradeModule#injector` root injector, the
* bootstrap `NgZone` and the
* [AngularJS $injector](https://docs.angularjs.org/api/auto/service/$injector).

Finally, kick off the whole process, by bootstrapping your top level Angular
`NgModule`. Then inject `UpgradeModule` into your Angular
`NgModule` and use it to bootstrap the top

```typescript
ngDoBootstrap() method.
```

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

  * Let's say you have an AngularJS service:

    ```typescript
    @angular1-providers
    export class NgAdapterInjector {
      constructor(injector: Injector) {
        this.injector = new NgAdapterInjector(injector);
      }
    }
    ```

  * Then you should define an Angular provider to be included in your
  `NgModule` providers property.

  ```typescript
  @param element the element on which to bootstrap the Angular
  application
  * @param [modules] the AngularJS modules to bootstrap for this application
  * @param [config] optional extra AngularJS bootstrap configuration
  ```

### Examples

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

```typescript
@NgModule({
  providers: [angular1Providers]
})
```

* Then you can use the `UpgradeModule` AngularJS service by injecting it into an Angular component
  `or service.

```typescript
export class MyComponent {
  constructor(private injector: Injector) {
    this.injectionService = injector.get(InjectionService);
  }
}
```
```javascript
setTimeout(() => { this.ngZone.run(() => fn(...args)); });

// same vm turn.

(wrappedInterval as any)['cancel'] = intervalDelegate.cancel;
return wrappedInterval;

setTimeout(() => { this.ngZone.run(() => fn(...args)); });

const subscription = this.ngZone.onMicrotaskEmpty.subscribe(() => {
  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();
});

windowAngular.resumeBootstrap = undefined;

const ngZone = this.ngZone;

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'];

// Bootstrap the AngularJS application inside our zone

windowAngular.resumeBootstrap = function() {
  let args = arguments;
  windowAngular.resumeBootstrap = originalResumeBootstrap;
  return ngZone.run(() => windowAngular.resumeBootstrap.apply(this, args));
};

// Generate 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_b} from

'./src/angular1_providers';
```

This is a fragment of code from the Open Source Used in MSX Platform Services 3.9.0 document. It contains JavaScript code related to AngularJS and the ngZone encapsulation service.
Found in path(s):
* /opt/ws_local/PERMITS_SQL/1047774535_1591199783.98/0/angular-upgrade-9-0-7-src-
zip/fesm2015/static.js.map

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

{ "version":3, "file": "upgrade.umd.js", "sources": ["../../../../../../../packages/upgrade/src/common/src/version.ts", "....."]

Open Source Used In MSX Platform Services 3.9.0 4608
result; return (mod & mod._esModule) ? mod : (default: mod );

export function __importDefault(mod) {
    return (mod && mod.__esModule) ? mod : {
        default: mod
    };
}

export function __importDefault(mod) {
    return (mod & mod._esModule) ? mod : (default: mod );
}

export function __importDefault(mod) {
    return (mod && mod.__esModule) ? mod : {
        default: mod
    };
}

/**
 * @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 {
    // Older versions of `@types/angular` typings extend the global 'Function' interface within
    // 'Sinject?: string[]', which is not compatible with 'Sinject?:
    // ReadonlyArray<string>` (used in
    // latest versions).
    $inject?: Ng1Token[];
    $inject?: { [key: string]: T };
}

export interface IModule {
    name: string;
    requires: (string|IInjectable)[
    config(fn: IInjectable): IModule;
    run(a: 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;
}

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;
}

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

export interface IScope extends IRootScopeService {}

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

export interface IDirectiveCompileFn {
    (templateElement: IAugmentedJQuery, templateAttributes: IAttributes, transclude: ITranscludeFunction): IDirectivePrePost;
}

export interface IDirectivePrePost {
    (pre?: IDirectiveLinkFn, post?: IDirectiveLinkFn): void;
    (scope: IScope, instanceElement: IAugmentedJQuery, instanceAttributes: IAttributes, controller: any, transclude: ITranscludeFunction): void;
    controller: any;
    bindings?: {
        [key: string]: string;
    };
    require?: DirectiveRequireProperty;
    restrict?: string;
    template?: string;
    templateNamespace?: string;
    templateUrl?: string;
}

export interface ICloneAttachFunction {
    (clonedElement: IAugmentedJQuery, scope: IScope): IAugmentedJQuery;
}

export interface IInjectorService {
    $injector: IInjectorService;
    triggerHandler?: (event: TypeOrObject, string | Event, extraParameters?: any[]) => IAugmentedJQuery;
    removeData?: () => void;
    remove?: () => void;
}

export interface IModule {
    name: string;
    requires: [string|IInjectable][
    config(fn: IInjectable): IModule;
    run(a: 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;
}

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;
}

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

export interface IScope extends IRootScopeService {}

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

export interface IDirectiveCompileFn {
    (templateElement: IAugmentedJQuery, templateAttributes: IAttributes, transclude: ITranscludeFunction): IDirectivePrePost;
}

export interface IDirectivePrePost {
    (pre?: IDirectiveLinkFn, post?: IDirectiveLinkFn): void;
    (scope: IScope, instanceElement: IAugmentedJQuery, instanceAttributes: IAttributes, controller: any, transclude: ITranscludeFunction): void;
    controller: any;
    bindings?: {
        [key: string]: string;
    };
    require?: DirectiveRequireProperty;
    restrict?: string;
    template?: string;
    templateNamespace?: string;
    templateUrl?: string;
}

export interface ICloneAttachFunction {
    (clonedElement: IAugmentedJQuery, scope: IScope): IAugmentedJQuery;
}

export interface IInjectorService {
    $injector: IInjectorService;
    triggerHandler?: (event: TypeOrObject, string | Event, extraParameters?: any[]) => IAugmentedJQuery;
    removeData?: () => void;
    remove?: () => void;
}
resumeBootstrap: typeof angular.resumeBootstrap = () => angular.resumeBootstrap();\n\nexport const
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,

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downgradedModule: string, injectionKey: string, attemptedAction: string): void {
  const upgradeAppType = getUpgradeAppType($injector);
  const downgradedModuleCount = getDowngradedModuleCount($injector);

  // Check for common errors.
  switch (upgradeAppType) {
    case UpgradeAppType.Dynamic:
    case UpgradeAppType.Static:
      if (downgradedModule) {
        throw new Error(`Error while ${attemptedAction}: 'downgradedModule' unexpectedly specified. You should not specify a value for a downgraded module\n`);
      }
      break;
    case UpgradeAppType.Lite:
      if (downgradedModule && (downgradedModuleCount >= 2)) {
        throw new Error(`Error while ${attemptedAction}: 'downgradedModule' not specified. This application contains more than one downgraded Angular module, thus you need to \n`);
      }
      if (!$injector.has(injectionKey)) {
        throw new Error(`Error while ${attemptedAction}: Unable to find the specified downgraded module.\n`);
      }
      break;
    default:
      throw new Error(`Error while ${attemptedAction}: Not a valid '@angular/upgrade' application.\n`);
  }
}

export class Deferred<R> {
  promise: Promise<R>;
  // TODO(issue/24571): remove '!'.
  resolve !: (value?: R | PromiseLike<R>) => void;
  // TODO(issue/24571): remove '!'.
  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 {
  None,

  Dynamic,

  Static,

  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 === '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).
 */
export function hookupNgModel(ngModel: INgModelController, component: any) {
  if (ngModel && supportsNgModel(component)) {
    ngModel.$render = () => {
      component.writeValue(ngModel.$viewValue); };
    component.registerOnChange(ngModel.$setViewValue.bind(ngModel));
    if (typeof component.registerOnTouched === 'function') {
      component.registerOnTouched(ngModel.$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, 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;
  // TODO(issue/24571): remove '!'.
  private componentRef !: ComponentRef<any>;
  // TODO(issue/24571): remove '!'.
  private changeDetector !: ChangeDetectorRef;
  // TODO(issue/24571): remove '!'.
  private viewChangeDetector !: ChangeDetectorRef;
  private constructor(\n  private element: IAugmentedJQuery, private attrs: IAttributes, private scope: IScope,
  private ngModel: INgModelController, private ngModelService: INgModelController, private ngModelRef: ComponentRef<any>, private ngModel: NgModelController, private changeDetector: ChangeDetectorRef, private viewChangeDetector: ChangeDetectorRef) {
    this.setupComponentScope();
    this.componentScope = scope;
    this.componentRef = componentRef;
    this.changeDetector = changeDetector;
    this.viewChangeDetector = viewChangeDetector;
    this.ngModelService = ngModelService;
    this.ngModel = ngModel;
    this.ngModelRef = ngModelRef;
    this.changeDetector = changeDetector;
    this.viewChangeDetector = viewChangeDetector;
  }

  setupComponentScope() {
    this.componentScope = scope;
    this.componentRef = componentRef;
    this.changeDetector = changeDetector;
    this.viewChangeDetector = viewChangeDetector;
    this.ngModelService = ngModelService;
    this.ngModel = ngModel;
    this.ngModelRef = ngModelRef;
  }

  setupOnChanges() {
    this.setupComponentScope();
    this.componentScope = scope;
    this.componentRef = componentRef;
    this.changeDetector = changeDetector;
    this.viewChangeDetector = viewChangeDetector;
    this.ngModelService = ngModelService;
    this.ngModel = ngModel;
    this.ngModelRef = ngModelRef;
  }

  setupOnTouched() {
    this.setupComponentScope();
    this.componentScope = scope;
    this.componentRef = componentRef;
    this.changeDetector = changeDetector;
    this.viewChangeDetector = viewChangeDetector;
    this.ngModelService = ngModelService;
    this.ngModel = ngModel;
    this.ngModelRef = ngModelRef;
  }

  setupOnDestroy() {
    this.setupComponentScope();
    this.componentScope = scope;
    this.componentRef = componentRef;
    this.changeDetector = changeDetector;
    this.viewChangeDetector = viewChangeDetector;
    this.ngModelService = ngModelService;
    this.ngModel = ngModel;
    this.ngModelRef = ngModelRef;
  }

  setupOnDestroy() {
    this.setupComponentScope();
    this.componentScope = scope;
    this.componentRef = componentRef;
    this.changeDetector = changeDetector;
    this.viewChangeDetector = viewChangeDetector;
    this.ngModelService = ngModelService;
    this.ngModel = ngModel;
    this.ngModelRef = ngModelRef;
  }

  setupOnDestroy() {
    this.setupComponentScope();
    this.componentScope = scope;
    this.componentRef = componentRef;
    this.changeDetector = changeDetector;
    this.viewChangeDetector = viewChangeDetector;
    this.ngModelService = ngModelService;
    this.ngModel = ngModel;
    this.ngModelRef = ngModelRef;
  }

  setupOnDestroy() {
    this.setupComponentScope();
    this.componentScope = scope;
    this.componentRef = componentRef;
    this.changeDetector = changeDetector;
    this.viewChangeDetector = viewChangeDetector;
    this.ngModelService = ngModelService;
    this.ngModel = ngModel;
    this.ngModelRef = ngModelRef;
  }

  setupOnDestroy() {
    this.setupComponentScope();
    this.componentScope = scope;
    this.componentRef = componentRef;
    this.changeDetector = changeDetector;
    this.viewChangeDetector = viewChangeDetector;
    this.ngModelService = ngModelService;
    this.ngModel = ngModel;
    this.ngModelRef = ngModelRef;
  }

  setupOnDestroy() {
    this.setupComponentScope();
    this.componentScope = scope;
    this.componentRef = componentRef;
    this.changeDetector = changeDetector;
    this.viewChangeDetector = viewChangeDetector;
    this.ngModelService = ngModelService;
    this.ngModel = ngModel;
INgModelController, private parentInjector: Injector, private $injector: IInjectorService, private $compile:

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

hookupNgModel(this.ngModel, this.component);

ngModelController: 'T'>(cb: () => T) => () => T) {
  this.componentScope = scope.$new();
  this.$injector = injector;
  this.$compile = compileService;
  this.$parse = parseService;
  this.componentFactory = componentFactory;
  this.wrapCallback = <T>(cb: () => T) => () => T) {
    this.componentScope = scope.$new();
    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.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) {
    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) => {
          if (!strictEquals(prevValue, currValue)) {
            prevValue = currValue;
            this.updateInput(prop, 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 `$observe()`
      // callback.
      let unwatch: Function|null = this.componentScope.$watch(attrs[input.attr],
        (prevValue === INITIAL_VALUE) => {
          prevValue = currValue;
          unwatch = 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) {
      const watchFn =
        (prop => (currValue: any, prevValue: any) =>
          this.updateInput(prop, prevValue, currValue))(input.prop);
      this.componentScope.$watch(expr, watchFn);
    }
    this.updateInput(prop, prevValue, currValue);
  }
}

ngModelController: 'T'>(cb: () => T) => () => T) {
  this.componentScope = scope.$new();
  this.element.empty();
  linkFns.forEach(linkFn => {
    linkFn(this.scope,
      (clone: Node[]) => {
        compiledProjectableNodes.push(clone);
        this.element.append(clone);
      });
  });
  return compiledProjectableNodes;
}

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) => {
          if (!strictEquals(prevValue, currValue)) {
            prevValue = currValue;
            this.updateInput(prop, 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 `$observe()`
      // callback.
      let unwatch: Function|null = this.componentScope.$watch(attrs[input.attr],
        (prevValue === INITIAL_VALUE) => {
          prevValue = currValue;
          unwatch = 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) {
      const watchFn =
        (prop => (currValue: any, prevValue: any) =>
          this.updateInput(prop, prevValue, currValue))(input.prop);
      this.componentScope.$watch(expr, watchFn);
    }
    this.updateInput(prop, prevValue, currValue);
  }
}

ngModelController: 'T'>(cb: () => T) => () => T) {
  this.componentScope = scope.$new();
  this.element.empty();
  linkFns.forEach(linkFn => {
    linkFn(this.scope,
      (clone: Node[]) => {
        compiledProjectableNodes.push(clone);
        this.element.append(clone);
      });
  });
  return compiledProjectableNodes;
}

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) => {
          if (!strictEquals(prevValue, currValue)) {
            prevValue = currValue;
            this.updateInput(prop, 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 `$observe()`
      // callback.
      let unwatch: Function|null = this.componentScope.$watch(attrs[input.attr],
        (prevValue === INITIAL_VALUE) => {
          prevValue = currValue;
          unwatch = 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) {
      const watchFn =
        (prop => (currValue: any, prevValue: any) =>
          this.updateInput(prop, prevValue, currValue))(input.prop);
      this.componentScope.$watch(expr, watchFn);
    }
    this.updateInput(prop, prevValue, currValue);
  }
}
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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.component.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
        '${getTypeName(this.componentFactory.componentType)}'!`);
  }
}

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;
}

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

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

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

  ngContentIndices.sort();
  if (wildcardNgContentIndex !== -1) {
    ngContentIndices.push(wildcardNgContentIndex);
  }

  return ngContentIndices.length ? ngContentIndices : [];
}

function findMatchingNgContentIndex(element: any, ngContentSelectors: string[]): number {
  if (element.nodeType === Node.ELEMENT_NODE) {
    const selector = ngContentIndices[0].substring(0, ngContentIndices[0].length - 7);
    return matchesSelector(element, selector);
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*/

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[];  
  /** @deprecated since v4. This parameter is no longer used *\n   * @typedef {any} angular.Injectable */
  const directiveFactory:
    IAnnotatedFunction = function(
      $compile: ICompileService, Sinjector: IInjectorService, Sparse:
      IParseService): IDirective {  
    // We always need to attach the component view to the `ApplicationRef` for it to be\n    // dirty-checked.\n    // - We need to ensure callbacks to Angular APIs (e.g. change detection) are run inside the\n    // Angular zone.\n    // - We need to ensure callbacks to Angular APIs (e.g. change detection) are run inside the\n    // angular scope.\n    // - We need to ensure callbacks to Angular APIs (e.g. change detection) are run inside the\n    // Angular zone (except if explicitly escaped, in which case we shouldn’t)\n    \n    return {
      restrict: 'E',\n      terminal: true,\n      require: [REQUIRE_INJECTOR, REQUIRE_NG_MODEL],\n      link: (scope: IScope, element: IAugmentedJQuery, attrs: IAttributes, required: any[]) => {
        // 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        const ngModel: INgModelController = required[1];\n        \n        // Notes:
        //
        // There are two injectors: `finalModuleInjector` and `finalParentInjector` (they might be\n        // the same instance, but that is irrelevant);\n        // - final_moduleInjector is used to retrieve `ComponentFactoryResolver`, thus it must\n        //   be\n        //   on the same tree as the `NgModule` that declares this downgraded component.\n        // -\n        //   finalParentInjector is used for all other injection purposes.\n        // (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\n        // injector).\n        // - There are basically three cases:\n        //   - If there is no parent component (thus no\n        //     `parentInjector`), we bootstrap the downgraded\n        //     `NgModule` and use its injector as both\n        //     finalModuleInjector and\n        //     - finalParentInjector.\n        //   - If there is a parent component (and thus a\n        //     `parentInjector`) and we are sure that it\n        //     belongs to the same `NgModule` as this downgraded component\n        //     (e.g. because there is only one downgraded module, we use that `parentInjector` as both\n        //     finalModuleInjector and\n        //     finalParentInjector).\n        //   - If there is a parent component, but it may belong\n        //     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\n        //     `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\n        //     `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 \n        //     `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 `view-level` Angular component, use the\n        // module injector.\n        const finalParentInjector = parentInjector || moduleInjector;\n        // If this is a `view-level` Angular component or the parent component may belong to a\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.
    const finalModuleInjector = moduleInjector || parentInjector !;

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

      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: Not a function
    SyncPromise.all([finalParentInjector, finalModuleInjector]).then(([pInjector, mInjector]) =>
      // downgradedFn((Injector, mInjector): void {
      // Release the element to prevent memory leaks.
      // Resolve the promise.
      super.resolve(injector: Injector); // Store the real injector on the element.
      this.element.data !(this.injectorKey, injector);

      // Resolve the promise.
      super.resolve(injector: Injector);
      this.element.data !(this.injectorKey, injector);

      resolve(injector: Injector); // Store the promise on the element.
      element.data !(this.injectorKey, this);
    };

    // bracket-notation because of closure - see #1444
    directiveFactory[\`injector\`] = [$COMPILE, $INJECTOR, $PARSE];

    /**
     * @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.
     * 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
     * defined `HeroesService` and `NgModule` that will be part of the upgrade application. For example, let's assume we have
     * and that we have included this in our upgrade app `NgModule` that will be part of the upgrade application. For example, let's assume we have
     * Now we can register the `HeroesService` factory function for the service
     * on an AngularJS module.
     * Inside an AngularJS component's controller we can get hold of the downgraded service via the name we gave when downgrading
     * When using `HeroesService`, downgraded injectables will not be available until the Angular module that provides them is instantiated. In order to be safe, you need to ensure that the 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.

```typescript
/**
 * @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 {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';

// 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: 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];

    // AngularJS will transform `link: xyz` to `compile: () => xyz`. So we can only tell there was a
    // user-defined `compile` if there is no `link`. In other cases, we will just ignore `compile`.
    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> {
    if (directive.template !== undefined) {
      return getOrCall<string>(directive.template, $element);
    } else if (directive.templateUrl) {
      const $templateCache = $injector.get($TEMPLATE_CACHE) as ITemplateCacheService;
      if (directive.templateUrl && $templateCache) {
        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);
  }
});

// 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.UpgradeHelper.$TemplateCache.put(url, response);

const controllerInstance = this.$controllerInstance;

if (controllerInstance && isFunction(controllerInstance.$onDestroy)) {
  controllerInstance.$onDestroy();
}

$scope.$destroy();

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

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

prepareTransclusion(): ILinkFn|undefined {
  if (transclude === undefined) {
    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 = scope || {$destroy: () => undefined};
      return
      cloneAttachFn !($template, scope);
    };
    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[directiveNormalize(selector.toLowerCase())] = 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 =
            directiveNormalize(node.nodeName.toLowerCase());
          if (slotName) {
            filledSlots[slotName] = true;
          } else {
            $template.push(node);
          }
        });

        // Check for required slots that were not
        filled.
        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 > 0).forEach(slotName => {
          const nodes = slots[slotName];
          if (!slots[slotName].push(node)) {
            throw
            new Error('Transient node ' + node.nodeName + ' cannot be inserted into slot ' + slotName);
          }
        });

        // Attach `$$slots` to default slot transclude fn.
        attachChildrenFn.$$slots = slots;

        angular.element(this.element)[0].innerHTML = 
          transclude.$compile($template)(null);
      }

      // 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
      // `[zero-width-non-joiner character]` 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
    }
  }
  return controller;
}

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.UpgradeHelper.$TemplateCache.put(url, response);

  const controllerInstance = this.$controllerInstance;

  if (controllerInstance && isFunction(controllerInstance.$onDestroy)) {
    controllerInstance.$onDestroy();
  }

  $scope.$destroy();

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

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

  prepareTransclusion(): ILinkFn|undefined {
    if (transclude === undefined) {
      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 = scope || {$destroy: () => undefined};
        return
        cloneAttachFn !($template, scope);
      };
      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[directiveNormalize(selector.toLowerCase())] = 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 =
              directiveNormalize(node.nodeName.toLowerCase());
            if (slotName) {
              filledSlots[slotName] = true;
            } else {
              $template.push(node);
            }
          });

          // Check for required slots that were not
          filled.
          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 > 0).forEach(slotName => {
            const nodes = slots[slotName];
            if (!slots[slotName].push(node)) {
              throw
              new Error('Transient node ' + node.nodeName + ' cannot be inserted into slot ' + slotName);
            }
          });

          // Attach `$$slots` to default slot transclude fn.
          attachChildrenFn.$$slots = slots;

          angular.element(this.element)[0].innerHTML = 
            transclude.$compile($template)(null);
        }

        // 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
        // `[zero-width-non-joiner character]` 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
      }
    }
    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();

  // Clean the jQuery/jqLite data on the component+child elements.
  // Equivalelt to how
  jQuery/jqLite invoke `cleanData` on an Element (this.element)
  angularElement.cleanData(this.element.querySelectorAll('*'));

  angularElement.cleanData(!this.$injector, this.directive, false, this.$element) as string;

  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[directiveNormalize(selector.toLowerCase())] = 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 =
          directiveNormalize(node.nodeName.toLowerCase());
        if (slotName) {
          filledSlots[slotName] = true;
        } else {
          $template.push(node);
        }
      });

      // Check for required slots that were not
      filled.
      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 > 0).forEach(slotName => {
        const nodes = slots[slotName];
        if (!slots[slotName].push(node)) {
          throw
          new Error('Transient node ' + node.nodeName + ' cannot be inserted into slot ' + slotName);
        }
      });

      // Attach `$$slots` to default slot transclude fn.
      attachChildrenFn.$$slots = slots;

      angular.element(this.element)[0].innerHTML = 
        transclude.$compile($template)(null);
    }

    // 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
    // `[zero-width-non-joiner character]` 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
  }
}

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

  return
  this.compileHtml(template);
}
v1.6+

```javascript
$template.forEach((node) => {
  if (node.nodeType === Node.TEXT_NODE && node.nodeValue)
    node.nodeValue = '

resolveAndBindRequiredControllers(controllerInstance: IControllerInstance|null) {
  if (controllerInstance && isMap(directiveRequire))
    Object.keys(requiredControllersMap).forEach(key => {
      return attachChildrenFn(key);
    });
}

resolveAndBindRequiredControllersWithInstance() {
  attachChildrenFn();
}

private extractChildNodes(): Node[] {
  const childNodes = [];
  let childNode = this.element.firstChild;

  while (childNode) {
    childNodes.push(childNode);
    childNode = childNode.nextSibling;
  }

  return childNodes;
}

private getDirectiveRequire(): DirectiveRequireProperty {
  return getOrCall(directive.require || (this.directive.controller && this.directive.name));
}

private resolveAndBindRequiredControllers(controllerInstance: IControllerInstance|null) {
  attachChildrenFn();
}
```

---

**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
 */
```
file a bug against TypeScript for this.

```typescript
const directive = {selector: selector, inputs: this.inputsRename, outputs: this.outputsRename};

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 != 'object';
    if (btcIsObject && Object.keys(this.directive).length) { throw new Error('Binding definitions on scope and controller at the same time are not supported. ');
      return null;
    }

    const context = (btcIsObject) ? this.directive.bindToController : null;
    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;

        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 'directive'. `);
        }
      });
    }
  }

  ngOnInit() {
    // Collect contents, insert and compile template
    const attachChildNodes: ILinkFn|undefined = this.helper.prepareTransclusion();
    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);
    }

    // Lining
    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();
    }

  }

  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;
  }
}

/**
 * @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';

const upgradeCount: number = 0;

/**
 * Use `UpgradeAdapter` to allow AngularJS
 * and Angular to coexist in a single application.
 *
 * The `UpgradeAdapter` allows:
 * 1. creation of AngularJS
 * component from AngularJS
 * directive
 * (See [UpgradeAdapter#upgradeNg1Component()])
 * 2. creation of Angular
 * component from AngularJS
 * directive
 * (See [UpgradeAdapter#upgradeNg2Component()])
 */

UpgradeNg1ComponentAdapterBuilder
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 instantiating. 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 `$apply()`. 

Example

```javascript
const adapter = new UpgradeAdapter(forwardRef(() => MyNg2Module), myCompilerOptions); // adapter module.directive('ng2Comp', angular downgradeNg2Component(Ng2Component));

module.directive('ng1Hello', function() {
  return {
    scope: { title: '=' },
    template: 'ng1[Hello {{title}}!](<span ng-transclude></span>)'
  };
});

module.directive('ng2Comp', adapter.downgradeNg2Component(Ng2Component));

module.directive('ng1Hello', function() {
  return {
    scope: { title: '=' },
    template: 'ng1[Hello {{title}}!](<span ng-transclude></span>)'
  };
});

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

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

module.directive('ng2Comp', adapter.downgradeNg2Component(Ng2Component));

module.directive('ng1Hello', function() {
  return {
    scope: { title: '=' },
    template: 'ng1[Hello {{title}}!](<span ng-transclude></span>)'
  };
});

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

```
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.

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) => {
  (<any>upgrade)._bootstrapDone(this.moduleRef, ng1Injector); }, onError);

  registerForNg1Tests(modules?: string[]):
    const windowNgMock = (window as any)['angular'].mock;
    if (!windowNgMock || !windowNgMock.module) {
      throw new Error('Failed to find `angular.mock.module`');
    }
    this.declareNg1Module(modules);
    windowNgMock.module(this.ng1Module.name); in const upgrade = new UpgradeAdapterRef(); in this.ng2BootstrapDeferred.promise.then((ng1Injector) => {
      (<any>upgrade)._bootstrapDone(this.moduleRef, ng1Injector); }, onError);

    registerForNg2Tests(modules?: string[]):
      const windowNgMock = (window as any)['angular'].mock;
      if (!windowNgMock || !windowNgMock.module) {
        throw new Error('Failed to find `angular.mock.module`');
      }
      this.declareNg1Module(modules);
      windowNgMock.module(this.ng1Module.name); in const upgrade = new UpgradeAdapterRef(); in this.ng2BootstrapDeferred.promise.then((ng1Injector) => {
      (<any>upgrade)._bootstrapDone(this.moduleRef, ng1Injector); }, onError);

    /**
     * Bootstrap a hybrid AngularJS / Angular application.
     * @returns an `UpgradeAdapterRef`, which lets you register a `ready()` callback to run assertions once the Angular components are ready to test through AngularJS.
     */
    registerForNg2Tests(modules?: string[]):
      const windowNgMock = (window as any)['angular'].mock;
      if (!windowNgMock || !windowNgMock.module) {
        throw new Error('Failed to find `angular.mock.module`');
      }
      this.declareNg1Module(modules);
      windowNgMock.module(this.ng1Module.name); in const upgrade = new UpgradeAdapterRef(); in this.ng2BootstrapDeferred.promise.then((ng1Injector) => {
      (<any>upgrade)._bootstrapDone(this.moduleRef, ng1Injector); }, onError);

    /**
     * Allows AngularJS service to be accessible from Angular.
     * @usageNotes
     * ### Example
     *
     * ```
     * class Login { ... }
     * class Server { ...
     * }
     *
     * @Injectable()
     * class Example {
     *   constructor(@Inject('server') server, login: Login) {
     *     ...
     *   }
     * }
     *
     * const module = angular.module('myExample', []);
     * module.factory('example', adapter.downgradeNg2Provider(Example));
     * adapter.bootstrap(document.body, []).ready(function() {
     *   const example = adapter.getNg2Module('example').get();
     *   example.login('World').then((result) => { ... });
     * });
     * ```
     */
    upgradeNg1Provider(name: string, options?: {asToken: any}) {
      const token = options && options.asToken || name;
      this.upgradedProviders.push({
        provide: token,
        useFactory: ($injector: IInjectorService) => $injector.get(name),
        deps: [$INJECTOR]
      });
    }

    /**
     * Allows Angular service to be accessible from AngularJS.
     * @usageNotes
     * ### Example
     *
     * ```
     * class Example {
     * }
     *
     * const adapter = new UpgradeAdapter(MyNg2Module);
     * const module = angular.module('myExample', []);
     * adapter.upgradeNg1Provider('example', adapter.downgradeNg2Provider(Example));
     * adapter.bootstrap(document.body,

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Declare the AngularUpgrade adapter module for this adapter without bootstrapping the whole
 * hybrid application.

 * This method is automatically called by 'bootstrap()' and 'registerForNg1Tests()'.

 * @param modules

 * @param options

 * @param injector

 * @param ngZone

 * @param platformRef

 * @param ng1Module

 * @param ng2Testability

 * @param testabilityDelegate

 * @param testabilityService

 * @param ngModule

 * @param $injector

 * @param $rootScope

 * @param $compile

 * @param $injector

 * @param $rootScope

 * @param $compile

 * @param $injector

 * @param $rootScope

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*/

package com.sun.jna;

/** Tagging interface to indicate the library or callback uses an alternate
* calling convention.
* @author twall
*/

public interface AltCallingConvention {}
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1.523 jnc 1.0

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1.536 spring-plugin-core 1.2.0

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1.537 jackson-module-parameter-names

2.10.2

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Disclaims changes by Matthew Skala.

GNUPG Michael Roth Germany 1998-09-17
Assigns changes.
mroth@nessie.de
Wrote cipher/des.c.
Changes and bug fixes all over the place.

GNUPG Niklas Hernaeus 1998-09-18
Disclaims changes.
nh@df.lth.se
Weak key patches.

GNUPG Rmi Guyomarch 1999-05-25
Assigns past and future changes. (g10/compress.c, g10/encri-data.c,
g10/free-packet.c, g10/mdfilter.c, g10/plaintext.c, util/iobuf.c)
rguyom@mail.dotcom.fr

ANY g10 Code GmbH 2001-06-07
Assignment for future changes terminated on 2012-12-04.
Code marked with ChangeLog entries of g10 Code employees.

LIBGCRYPT Timo Schulz 2001-08-31
Assigns past and future changes.
twoaday@freakmail.de

LIBGCRYPT Simon Josefsson 2002-10-25
Assigns past and future changes to FSF (cipher/{md4,crc}.c, CTR mode,
CTS/MAC flags, self test improvements)
simon@josefsson.org

LIBGCRYPT Moritz Schulte 2003-04-17
Assigns past and future changes.
moritz@g10code.com
GNUTLS Nikolaos Mavrogiannopoulos 2003-11-22
nmav@gnutls.org
Original code for cipher/rfc2268.c.

LIBGCRYPT The Written Word 2005-04-15
Assigns past and future changes. (new: src/libgcrypt.pc.in,
src/Makefile.am, src/secmem.c, mpi/hppa1.1/mpih-mul3.S,
mpi/hppa1.1/udiv-qrnd.S, mpi/hppa1.1/mpih-mul2.S,
mpi/hppa1.1/mpih-mul1.S, mpi/Makefile.am, tests/prime.c,
tests/register.c, tests/ac.c, tests/basic.c, tests/texp.c,
tests/keygen.c, tests/pubkey.c, configure.ac, acinclude.m4)

LIBGCRYPT Brad Hards 2006-02-09
Assigns Past and Future Changes
bradh@frogmouth.net
(Added OFB mode. Changed cipher/cipher.c, test/basic.c doc/gcrypt.tex.
added SHA-224, changed cipher/sha256.c, added HMAC tests.)

LIBGCRYPT Hye-Shik Chang 2006-09-07
Assigns Past and Future Changes
perky@freebsd.org
(SEED cipher)

LIBGCRYPT Werner Dittmann 2009-05-20
Assigns Past and Future Changes
werner.dittmann@t-online.de
(mpi/amd64, tests/mpitests.c)

GNUPG David Shaw
Assigns past and future changes.
dshaw@jabberwocky.com
(cipher/camellia-glue.c and related stuff)

LIBGCRYPT Andrey Jivsov 2010-12-09
Assigns Past and Future Changes
openpgp@brainhub.org
(cipher/ecc.c and related files)

LIBGCRYPT Ulrich Müller 2012-02-15
Assigns Past and Future Changes
ulm@gentoo.org
(Changes to cipher/idea.c and related files)

LIBGCRYPT Vladimir Serbinenko 2012-04-26
Assigns Past and Future Changes
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(cipher/serpent.c)
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Stephan Mueller <smueller@chronox.de>
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Tom Mrz <tm@t8m.info>
2012-04-16:1334571250.5056.52.camel@vespa.frost.loc:
Libgcrypt used to be part of GnuPG but has been taken out into its own package on 2000-12-21.

Most of the stuff in mpi has been taken from an old GMP library version by Torbjorn Granlund <tege@noisy.tmg.se>.

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The ECC code cipher/ecc.c was based on code by Sergi Blanch i Torne, sergi at calcurco dot org.

The implementation of the Camellia cipher has been been taken from the original NTT provided GPL source.

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1.548 sysv-init 2.93 8
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1.565 debianutils 4.8.6.1

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1.571 perl 5.28.1 6
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#!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 =~ /.*\b\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
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Julian Seward, jseward@bzip.org
bzip2/libbzlib2 version 1.0.6 of 6 September 2010

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* /opt/ws_local/PERMITS_SQL/1026753736_1590037547.45/0/spring-context-support-5-2-3-release-sources-
jar/org/springframework/cache/interceptor/CacheRemoveAllOperation.java
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jar/org/springframework/mail/javamail/InternetAddressEditor.java

jar/org/springframework/mail/MailSender.java

jar/org/springframework/ui/freemarker/FreeMarkerTemplateUtils.java

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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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1.588 jopt-simple 5.0.3

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1.590 objectweb-asm 7.1

1.591 xmltooling 1.4.6
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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

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

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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

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

-------
Assorted

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include/bsd/vis.h
man/bitstring.3bsd
man/errc.3bsd
man/explicit_bzero.3bsd
man/fgetln.3bsd
man/fgetwln.3bsd
man/fpurge.3bsd
man/funopen.3bsd
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man/heapsort.3bsd
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man/radixsort.3bsd
man/reallocarray.3bsd
man/reallocf.3bsd
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man/strtoi.3bsd
man/strtou.3bsd
man/unvis.3bsd
man/vis.3bsd
man/wcslcpy.3bsd
src/getbsize.c
src/heapsort.c
src/merge.c
src/nlist.c
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man/fmtcheck.3bsd
man/humanize_number.3bsd
man/timeval.3bsd
src/fmtcheck.c
src/humanize_number.c
src/stringlist.c
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- src/fparseln.c

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- man/strtonum.3bsd
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- src/arc4random_linux.h
- src/arc4random_openbsd.h
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src/hash/md5.c

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1.610 aspectj-tools 1.9.2

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1.612 dash 0.5.8 2.4

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  jar/org/HdrHistogram/DoubleRecordedValuesIterator.java
* /opt/ws_local/PERMITS_SQL/1011812668_1591898465.74/0/hdrhistogram-2-1-11-sources-
  jar/org/HdrHistogram/AbstractHistogramIterator.java
* /opt/ws_local/PERMITS_SQL/1011812668_1591898465.74/0/hdrhistogram-2-1-11-sources-
  jar/org/HdrHistogram/SynchronizedDoubleHistogram.java
* /opt/ws_local/PERMITS_SQL/1011812668_1591898465.74/0/hdrhistogram-2-1-11-sources-
  jar/org/HdrHistogram/HistogramLogReader.java
* /opt/ws_local/PERMITS_SQL/1011812668_1591898465.74/0/hdrhistogram-2-1-11-sources-
  jar/org/HdrHistogram/HistogramLogProcessor.java
* /opt/ws_local/PERMITS_SQL/1011812668_1591898465.74/0/hdrhistogram-2-1-11-sources-
  jar/org/HdrHistogram/SingleWriterDoubleRecorder.java
* /opt/ws_local/PERMITS_SQL/1011812668_1591898465.74/0/hdrhistogram-2-1-11-sources-
  jar/org/HdrHistogram/HistogramIterationValue.java
* /opt/ws_local/PERMITS_SQL/1011812668_1591898465.74/0/hdrhistogram-2-1-11-sources-
  jar/org/HdrHistogram/DoubleHistogramIterationValue.java
* /opt/ws_local/PERMITS_SQL/1011812668_1591898465.74/0/hdrhistogram-2-1-11-sources-
  jar/org/HdrHistogram/ConcurrentDoubleHistogram.java
* /opt/ws_local/PERMITS_SQL/1011812668_1591898465.74/0/hdrhistogram-2-1-11-sources-
  jar/org/HdrHistogram/DoubleAllValuesIterator.java
* /opt/ws_local/PERMITS_SQL/1011812668_1591898465.74/0/hdrhistogram-2-1-11-sources-
  jar/org/HdrHistogram/RecordedValuesIterator.java
* /opt/ws_local/PERMITS_SQL/1011812668_1591898465.74/0/hdrhistogram-2-1-11-sources-
  jar/org/HdrHistogram/SingleWriterRecorder.java
* /opt/ws_local/PERMITS_SQL/1011812668_1591898465.74/0/hdrhistogram-2-1-11-sources-
  jar/org/HdrHistogram/SynchronizedHistogram.java
* /opt/ws_local/PERMITS_SQL/1011812668_1591898465.74/0/hdrhistogram-2-1-11-sources-
  jar/org/HdrHistogram/ShortCountsHistogram.java
* /opt/ws_local/PERMITS_SQL/1011812668_1591898465.74/0/hdrhistogram-2-1-11-sources-
  jar/org/HdrHistogram/LogarithmicIterator.java
* /opt/ws_local/PERMITS_SQL/1011812668_1591898465.74/0/hdrhistogram-2-1-11-sources-
  jar/org/HdrHistogram/HistogramLogScanner.java
* /opt/ws_local/PERMITS_SQL/1011812668_1591898465.74/0/hdrhistogram-2-1-11-sources-
  jar/org/HdrHistogram/DoubleRecorder.java
* /opt/ws_local/PERMITS_SQL/1011812668_1591898465.74/0/hdrhistogram-2-1-11-sources-
  jar/org/HdrHistogram/ConcurrentHistogram.java
* /opt/ws_local/PERMITS_SQL/1011812668_1591898465.74/0/hdrhistogram-2-1-11-sources-
  jar/org/HdrHistogram/EncodableHistogram.java
* /opt/ws_local/PERMITS_SQL/1011812668_1591898465.74/0/hdrhistogram-2-1-11-sources-
  jar/org/HdrHistogram/DoublePercentileIterator.java
* /opt/ws_local/PERMITS_SQL/1011812668_1591898465.74/0/hdrhistogram-2-1-11-sources-
  jar/org/HdrHistogram/Version.java.template

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* /opt/ws_local/PERMITS_SQL/1011812668_1591898465.74/0/hdrhistogram-2-1-11-sources-jar/org/HdrHistogram/DoubleHistogram.java
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The End

1.632 spring-security-jwt 1.0.10

1.633 util-linux 2.33.1-0.1

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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

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

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

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* 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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Last revised by Reagle $Date: 2005-06-03 18:49:13 -0400 (Fri, 03 Jun 2005) $

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# How to
```
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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Found in path(s):
* /opt/ws_local/PERMITS_SQL/1047774230_1591430399.74/0/arraybuffer-slice-0-0-6-3-
tgz/package/README.md

1.644 dom4j 2.1.1
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1.645 kafka-clients 2.3.1

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1.646 spring-cloud-stream-binder-kafka-core

3.0.0

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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 logging "abstraction".

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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Woodstox is an XML-parser that allows parsing of XML documents in so-called pull mode (aka "pull parsing"). It specifically implements StAX 1.0 API:


which defines what is closest to being the J2xE standard for XML pull parsers.

Woodstox was originally written by Tatu Saloranta (<tatu.saloranta@iki.fi>). Woodstox licensing is explained in file LICENSE; be sure to read it to understand licensing.

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Byte Buddy is a code generation and manipulation library for creating and modifying Java classes during the runtime of a Java application and without the help of a compiler.

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VERSION: 2.1 PoliMorf
BUILD: 2016-02-13 19:37:50+01:00
GIT: 6e63b53

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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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The primary ANTLR guy:

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You might want to interpret some document fields in more than one way. Solr has a mechanism for making copies of fields so that you can apply several distinct field types to a single piece of incoming information.

The name of the field you want to copy is the _source_, and the name of the copy is the _destination_. In `schema.xml`, it's very simple to make copies of fields:

[source,xml]
---
<copyField source="cat" dest="text" maxChars="30000" />
---

In this example, we want Solr to copy the `cat` field to a field named `text`. Fields are copied before <<understanding-analyzers-tokenizers-and-filters.adoc#understanding-analyzers-tokenizers-and-filters,analysis>> is done, meaning you can have two fields with identical original content, but which use different analysis chains and
are stored in the index differently.

In the example above, if the `text` destination field has data of its own in the input documents, the contents of the `cat` field will be added as additional values just as if all of the values had originally been specified by the client. Remember to configure your fields as `multivalued="true"` if they will ultimately get multiple values (either from a multivalued source or from multiple `copyField` directives).

A common usage for this functionality is to create a single "search" field that will serve as the default query field when users or clients do not specify a field to query. For example, `title`, `author`, `keywords`, and `body` may all be fields that should be searched by default, with copy field rules for each field to copy to a `catchall` field (for example, it could be named anything). Later you can set a rule in `solrconfig.xml` to search the `catchall` field by default. One caveat to this is your index will grow when using copy fields. However, whether this becomes problematic for you and the final size will depend on the number of fields being copied, the number of destination fields being copied to, the analysis in use, and the available disk space.

The `maxChars` parameter, an `int` parameter, establishes an upper limit for the number of characters to be copied from the source value when constructing the value added to the destination field. This limit is useful for situations in which you want to copy some data from the source field, but also control the size of index files.

Both the source and the destination of `copyField` can contain either leading or trailing asterisks, which will match anything. For example, the following line will copy the contents of all incoming fields that match the wildcard pattern `*_t` to the text field:

[source,xml]
----
<copyField source="*_t" dest="text" maxChars="25000" />
----

[IMPORTANT]
=====
The `copyField` command can use a wildcard (*) character in the `dest` parameter only if the `source` parameter contains one as well. `copyField` uses the matching glob from the source field for the `dest` field name into which the source content is copied.

=====

Copying is done at the stream source level and no copy feeds into another copy. This means that copy fields cannot be chained i.e., _you cannot_ copy from `here` to `there` and then from `there` to `elsewhere`. However, the same source field can be copied to multiple destination fields:

[source,xml]
----
<copyField source="here" dest="there"/>
<copyField source="here" dest="elsewhere"/>
----

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That's all there is to it!
java-libpst is a pure java library for the reading of Outlook PST and OST files.
https://github.com/rjohnsondev/java-libpst

java-libpst is licensed under both the LGPL and Apache License v2.0
Janino - An embedded Java[TM] compiler

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package org.apache.solr.security;

import java.util.Collection;
import java.util.Collections;
import java.util.HashSet;
import java.util.LinkedHashMap;
import java.util.List;
import java.util.Map;
import java.util.Set;
import java.util.function.Function;
import java.util.regex.Pattern;
import java.util.stream.Collectors;
import com.google.common.collect.ImmutableSet;
import org.apache.solr.common.SolrException;
import org.apache.solr.common.util.Utils;
import static java.util.Collections.singleton;
import static java.util.Collections.singletonList;
import static org.apache.solr.common.params.CommonParams.NAME;

class Permission {
    String name;
    Set<String> path, role, collections, method;
    Map<String, Function<String[], Boolean>> params;
    PermissionNameProvider.Name wellknownName;
    Map originalConfig;

    private Permission() {
    }

    static Permission load(Map m) {
        Permission p = new Permission();
        p.originalConfig = new LinkedHashMap<>(m);
        String name = (String) m.get(NAME);
        if (!m.containsKey("role")) throw new SolrException(SolrException.ErrorCode.BAD_REQUEST, "role not specified");
        p.role = readValueAsSet(m, "role");
        if (PermissionNameProvider.Name.get(name) != null) {
            p.wellknownName = PermissionNameProvider.Name.get(name);
            HashSet<String> disAllowed = new HashSet<>(knownKeys);
            disAllowed.remove("role");
            disAllowed.remove(NAME);
            //these are the only allowed keys for well-known permissions
        }
        return p;
    }
}
disAllowed.remove("collection"); // allowed keys for well-known permissions
disAllowed.remove("index");
for (String s : disAllowed) {
    if (m.containsKey(s))
        throw new SolrException(SolrException.ErrorCode.BAD_REQUEST, s + " is not a valid key for the permission : "+ name);
}

p.name = name;
p.path = readSetSmart(name, m, "path");
p.collection = readSetSmart(name, m, "collection");
p.method = readSetSmart(name, m, "method");
Map<String, Object> paramRules = (Map<String, Object>) m.get("params");
if (paramRules != null) {
    p.params = new LinkedHashMap<>();
    for (Map.Entry<String, Object> e : paramRules.entrySet()) {
        if (e.getValue() == null) {
            p.params.put(e.getKey(), (String[] val) -> val == null);
        } else {
            List<String> patternStrs = e.getValue() instanceof List ?
                (List) e.getValue().toString();
            List patterns = patternStrs.stream()
                .map(it -> it.startsWith("REGEX:"))
                .map(Pattern::compile)
                .collect(Collectors.toList());
            p.params.put(e.getKey(), val -> {
                if (val == null) return false;
                for (Object pattern : patterns) {
                    for (String s : val) {
                        if (pattern instanceof String) {
                            if (pattern.equals(s)) return true;
                        } else if (pattern instanceof Pattern) {
                            if (((Pattern) pattern).matcher(s).find()) return true;
                        }
                    }
                }
                return false;
            });
        }
    }
    return p;
}
private static Set<String> readSetSmart(String permissionName, Map m, String key) {
    if(PermissionNameProvider.values.containsKey(permissionName) && !m.containsKey(key) &&
        "collection".equals(key)) {
        return PermissionNameProvider.Name.get(permissionName).collName;
    }
    Set<String> set = readValueAsSet(m, key);
    if ("method".equals(key)) {
        if (set != null) {
            for (String s : set) if (!HTTP_METHODS.contains(s)) return null;
        }
        return set;
    }
    return set == null ? singleton(null) : set;
}

/**
* read a key value as a set. if the value is a single string ,
* return a singleton set
*
* @param m    the map from which to lookup
* @param key  the key with which to do lookup
*/
static Set<String> readValueAsSet(Map m, String key) {
    Set<String> result = new HashSet<>();
    Object val = m.get(key);
    if (val == null) {
        if("collection".equals(key)) {
            //for collection collection: null means a core admin/ collection admin request
            // otherwise it means a request where collection name is ignored
            return m.containsKey(key) ? singleton(null) : singleton("*"look);
        }
        return null;
    }
    if (val instanceof Collection) {
        Collection list = (Collection) val;
        for (Object o : list) result.add(String.valueOf(o);
    } else if (val instanceof String) {
        result.add((String) val);
    } else {
        throw new RuntimeException("Bad value for : "+key);
    }
    return result.isEmpty() ? null : Collections.unmodifiableSet(result);
}

@Override
public String toString() {
    return Utils.toJSONObjectString(originalConfig);
static final Set<String> knownKeys = ImmutableSet.of("collection", "role", "params", "path", "method", "NAME","index");
public static final Set<String> HTTP_METHODS = ImmutableSet.of("GET", "POST", "DELETE", "PUT", "HEAD");

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---

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---

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When upgrading Lucene-Java Jars, remember to generate new Analysis
factories for any new Tokenizers or TokenFilters. See the wiki for details...

http://wiki.apache.org/solr/CommitterInfo
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CyberNeko HTML Parser
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NekoHTML is a simple HTML scanner and tag balancer that enables application programmers to parse HTML documents and access the information using standard XML interfaces. The parser can scan HTML files and "fix up" many common mistakes that human (and computer) authors make in writing HTML documents. NekoHTML adds missing parent elements; automatically closes elements with optional end tags; and can handle mismatched inline element tags.

NekoHTML is written using the Xerces Native Interface (XNI) that is the foundation of the Xerces2 implementation. This enables you to use the NekoHTML parser with existing XNI tools without modification or rewriting code.

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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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inspired from the algorithm description provided in
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The textbook (containing a proof that the shuffle is uniformly random) is
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analysis/common/src/resources/org/apache/lucene/analysis/ro/stopwords.txt,
analysis/common/src/resources/org/apache/lucene/analysis/bg/stopwords.txt,
analysis/common/src/resources/org/apache/lucene/analysis/hi/stopwords.txt,
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analysis/common/src/java/org/apache/lucene/analysis/sv/SwedishLightStemmer.java

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JMatIO is a JAVA library to read/write/manipulate with Matlab binary MAT-files.

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noggit

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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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1.670 jffi 1.2.16

1.671 spring-vault-core 2.2.0

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1.673 javax-annotation-api 1.3.2

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========

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    }else{
        w.style.display = "block";
    }
}

function toggle_search() {
    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 = ";
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1.710 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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# 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): $(OBJS)
(cd pic; ld -Bshareable -o $(BSD_LIB) $(LDFLAGS_SHLIB) $(OBJS))
$(MV) $(OBJS)/$(BSD_LIB) .
$(RM) -f ../($(BSD_LIB))
(cd ..; $(LN) $(LINK_BUILD_FLAGS) `echo $(my_dir) | sed -e 's;lib/;;'"/$(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

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Index: tdbsa/tdb.c

===================================================================
--- tdbsa.orig/tdb.c
+++ tdbsa/tdb.c

--- tdbsa.orig/tdb.c
+++ tdbsa/tdb.c
Unix SMB/CIFS implementation.
+ trivial database library - standalone version

- trivial database library - private includes

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This package was put together by Yann Dirson <dirson@debian.org>, from sources obtained from a mirror of:
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Gadi Oxman, August 1995

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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:

http://sourceforge.net/projects/e2fsprogs

Upstream Author: Theodore Ts'o <tytso@mit.edu>

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1.711 spring-instrument 5.2.3

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1.712 jetty-servlet 9.4.26.v20200117

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

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* 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

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

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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
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.

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

org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

The UnixCrypt.java code implements the one way cryptography used by Unix systems for simple password protection. Copyright 1996 Aki Yoshida,
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- the files in UnitaryTests/

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1.737 adduser 3.118

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Since May 20 2000, it is maintained by Roland Bauerschmidt <rb@debian.org>.

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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

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

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* 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

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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
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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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

Assorted

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```
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End:
```

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* /opt/ws_local/PERMITS_SQL/1023699188_1590039953.28/0/spring-boot-starter-validation-2-2-4-release-sources-1.jar/META-INF/maven/org.springframework.boot/spring-boot-starter-validation/pom.xml

1.748 ca-certificates-java 20170929~deb9u3
1.748.1 Available under license:

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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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  jar/org/springframework/integration/jmx/DefaultMBeanAttributeFilter.java
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  jar/org/springframework/integration/jmx/NotNamedFieldsMBeanAttributeFilter.java
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  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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  jar/org/springframework/integration/monitor/IntegrationMetadataMBeanInfoAssembler.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/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
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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/NotificationPublishingMessageHandler.java
1.751 create-ecdh 4.0.3

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1.752 libxau 1.0.8 1

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jar/org/springframework/cloud/netflix/zuul/filters/route/support/AbstractRibbonCommand.java
*/opt/ws_local/PERMITS_SQL/1029234699_1591649641.96/0/spring-cloud-netflix-zuul-2-2-0-release-sources-
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jar/org/springframework/cloud/netflix/zuul/filters/router/okhttp/OkHttpRibbonCommand.java
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*/opt/ws_local/PERMITS_SQL/1029234699_1591649641.96/0/spring-cloud-netflix-zuul-2-2-0-release-sources-
jar/org/springframework/cloud/netflix/zuul/filters/router/apache/HttpClientRibbonCommand.java
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*/opt/ws_local/PERMITS_SQL/1029234699_1591649641.96/0/spring-cloud-netflix-zuul-2-2-0-release-sources-
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*/opt/ws_local/PERMITS_SQL/1029234699_1591649641.96/0/spring-cloud-netflix-zuul-2-2-0-release-sources-
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jar/org/springframework/cloud/netflix/zuul/filters/post/SendResponseFilter.java
* /opt/ws_local/PERMITS_SQL/1029234699_1591649641.96/0/spring-cloud-netflix-zuul-2-2-0-release-sources-jar/org/springframework/cloud/netflix/zuul/util/RequestUtils.java
* /opt/ws_local/PERMITS_SQL/1029234699_1591649641.96/0/spring-cloud-netflix-zuul-2-2-0-release-sources-jar/org/springframework/cloud/netflix/zuul/filters/ProxyRequestHelper.java

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* /opt/ws_local/PERMITS_SQL/1029234699_1591649641.96/0/spring-cloud-netflix-zuul-2-2-0-release-sources-jar/org/springframework/cloud/netflix/zuul/filters/discovery/PatternServiceRouteMapper.java
* /opt/ws_local/PERMITS_SQL/1029234699_1591649641.96/0/spring-cloud-netflix-zuul-2-2-0-release-sources-jar/org/springframework/cloud/netflix/zuul/filters/discovery/ServiceRouteMapper.java

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1.758 angular-xeditable 0.1.12

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1.762 jackson-dataformat-yaml 2.10.2
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It is currently developed by a community of developers, as well as supported
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### 1.763 hostname 3.18+b1

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1.767 attr 2.4.48 4

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

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

------

MortBay

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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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1.792 @uirouter/angularjs 1.0.26

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* javax.servlet:javax.servlet-api
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* 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-commons
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org.apache.taglibs:taglibs-standard-impl

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org.apache.tomcat:tomcat-jasper
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org.apache.tomcat:tomcat-util-scan
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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

Assorted

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