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1.3 zipkin-sender-amqp-client 2.11.0
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1.5 jopt-simple 5.0.3
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1.6 brave-instrumentation-servlet 5.9.0

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1.7 jackson-databind 2.10.2

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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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### 1.8 spring-cloud-consul-discovery 2.2.0

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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

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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

-----

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
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

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.

1.13 spring-messaging 5.2.3

1.13.1 Available under license :

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* /opt/ws_local/PERMITS_SQL/1023699194_1590036959.83/0/spring-messaging-5-2-3-release-sources-
jar/org/springframework/messaging/handler/invocation/reactive/HandlerMethodArgumentResolver.java
* /opt/ws_local/PERMITS_SQL/1023699194_1590036959.83/0/spring-messaging-5-2-3-release-sources-
jar/org/springframework/messaging/handler/invocation/reactive/HandlerMethodReturnValueHandlerComposite.java
* /opt/ws_local/PERMITS_SQL/1023699194_1590036959.83/0/spring-messaging-5-2-3-release-sources-
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jar/org/springframework/messaging/simp/SimpMessageType.java
* /opt/ws_local/PERMITS_SQL/1023699194_1590036959.83/0/spring-messaging-5-2-3-release-sources-
jar/org/springframework/messaging/core/DestinationResolutionException.java
* /opt/ws_local/PERMITS_SQL/1023699194_1590036959.83/0/spring-messaging-5-2-3-release-sources-
jar/org/springframework/messaging/MᾗessageDeliveryException.java
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jar/org/springframework/messaging/PollableChannel.java
* /opt/ws_local/PERMITS_SQL/1023699194_1590036959.83/0/spring-messaging-5-2-3-release-sources-
jar/org/springframework/messaging/message/MessagePostProcessor.java
* /opt/ws_local/PERMITS_SQL/1023699194_1590036959.83/0/spring-messaging-5-2-3-release-sources-
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* /opt/ws_local/PERMITS_SQL/1023699194_1590036959.83/0/spring-messaging-5-2-3-release-sources-jar/org/springframework/messaging/support/AbstractSubscribableChannel.java
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* /opt/ws_local/PERMITS_SQL/1023699194_1590036959.83/0/spring-messaging-5-2-3-release-sources-jar/org/springframework/messaging/MessageChannel.java
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* /opt/ws_local/PERMITS_SQL/1023699194_1590036959.83/0/spring-messaging-5-2-3-release-sources-jar/org/springframework/messaging/handler/invocation/HandlerMethodArgumentResolver.java
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* /opt/ws_local/PERMITS_SQL/1023699194_1590036959.83/0/spring-messaging-5-2-3-release-sources-jar/org/springframework/messaging/handler/invocation/ListenableFutureReturnValueHandler.java

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*/
/**
 * Set the maximum pool size of the ThreadPoolExecutor.
 * <p><strong>NOTE:</strong> When an unbounded
 * [ @link #queueCapacity(int) queueCapacity] is configured (the default), the
 * max pool size is effectively ignored. See the "Unbounded queues" strategy
 * in [ @link java.util.concurrent.ThreadPoolExecutor ThreadPoolExecutor] for
 * more details.
 * By default this is set to [ @code Integer.MAX_VALUE].
 */

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* /opt/ws_local/PERMITS_SQL/1023699194_1590036959.83/0/spring-messaging-5-2-3-release-sources-jar/org/springframework/messaging/simp/config/TaskExecutorRegistration.java
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* /opt/ws_local/PERMITS_SQL/1023699194_1590036959.83/0/spring-messaging-5-2-3-release-sources-jar/org/springframework/messaging/handler/annotation/Headers.java

1.14 whatwg-fetch 3.0.0
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1.15 stax 3.1.4

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1.16 spring-beans 5.2.3
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1.24 kerberos 1.17-3

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lib/kdb/iprop.x
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lib/kdb/kdb_log.c
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.. 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
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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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
    if line != '' and line != '-':
        text_seen = True
    return is_license

def check_file(lines, fname):
    # Skip emacs mode line if present.
ln = 0
if '^-^ mode: c;' in lines[ln]:
    ln += 1

# Check filename comment if present.
m = re.match(r'\*(\[^\*\]*)( - .*)? \*/', lines[ln])
if m:
    if m.group(1) != fname:
        warn(fname, ln, 'Wrong filename in comment')
    ln += 1

# Scan for license statements.
in_comment = False
code_seen = False
nonlicense_seen = False
for line in lines[ln:]:
    # Strip out whitespace and comments contained within a line.
    if not in_comment:
        line = re.sub(r'\*.*?\*/', '', line)
    line = line.strip()

    if not in_comment and '/\*' in line:
        (line, sep, comment_part) = line.partition('/\*')
        comment = [comment_part.strip()]
        comment_starts_at = ln
        in_comment = True
    elif in_comment and '\*/' not in line:
        comment.append(line.lstrip('*').lstrip())
    elif in_comment:
        (comment_part, sep, line) = line.partition('\*/')
        comment.append(comment_part.strip())
    is_license = check_comment(comment, fname, comment_starts_at,
                    code_seen, nonlicense_seen)
    nonlicense_seen = nonlicense_seen or not is_license
    in_comment = False
    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)
MIT Kerberos License information
================================

.. toctree::
   :hidden:
   :caption: Copyright

   copyright.rst

.. include:: notice.rst

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cmd/krb5/iprop/iprop_hdr.h
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cmd/krb5/slave/kpropd.rpc.c
lib/gss_mechs/mech_krb5/et/kdb5.err.c
lib/gss_mechs/mech_spnego/mach/gssapiP_spnego.h
lib/gss_mechs/mech_spnego/mach/spnego_mech.c
lib/krb5/kadm5/kadm_host_srv_names.c
lib/krb5/kdb/kdb_convert.c
lib/krb5/kdb/kdb_hdr.h
lib/krb5/kdb/kdb_log.c
lib/krb5/kdb/kdb_log.h
lib/libgss/g_accept_sec_context.c
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<div class="highlight-default">
<pre class="highlight">
<code class="docutils literal">
lib/gssapi/generic/gssapi_err_generic.c
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
</code></pre>
</div>
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

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**5.9.0**

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1.29 junit 4.7

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1.30 spring-security-config 5.2.1

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1.42 spring-cloud-context 2.2.0

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1.43 javax-websocket-client-impl

9.4.26.v20200117

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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.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

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

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Mortbay

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

org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

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JUnit

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1.62 spring-instrument 5.2.3

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1.63 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/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/JSONStringer.java
* /opt/ws_local/PERMITS_SQL/1033178651_1591431466.54/0/spring-boot-configuration-processor-2-2-4-release-sources-jar/org/springframework/boot/configurationprocessor/json/JSONObject.java

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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

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

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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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* /opt/ws_local/PERMITS_SQL/1028331601_1591433187.84/0/spring-cloud-function-context-3-0-0-release-sources-1-jar/org/springframework/cloud/function/context/catalog/MessageSupplier.java
* /opt/ws_local/PERMITS_SQL/1028331601_1591433187.84/0/spring-cloud-function-context-3-0-0-release-sources-1-jar/org/springframework/cloud/function/context/catalog/AbstractComposableFunctionRegistry.java
* /opt/ws_local/PERMITS_SQL/1028331601_1591433187.84/0/spring-cloud-function-context-3-0-0-release-sources-1-jar/org/springframework/cloud/function/context/config/RoutingFunction.java
* /opt/ws_local/PERMITS_SQL/1028331601_1591433187.84/0/spring-cloud-function-context-3-0-0-release-sources-1-jar/org/springframework/cloud/function/context/catalog/PollableBean.java
* /opt/ws_local/PERMITS_SQL/1028331601_1591433187.84/0/spring-cloud-function-context-3-0-0-release-sources-1-jar/org/springframework/cloud/function/context/catalog/BeanFactoryAwareFunctionRegistry.java
* /opt/ws_local/PERMITS_SQL/1028331601_1591433187.84/0/spring-cloud-function-context-3-0-0-release-sources-1-jar/org/springframework/cloud/function/context/catalog/MessageFunction.java
* /opt/ws_local/PERMITS_SQL/1028331601_1591433187.84/0/spring-cloud-function-context-3-0-0-release-sources-1-jar/org/springframework/cloud/function/context/catalog/MessageConsumer.java
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*/opt/ws_local/PERMITS_SQL/1028331601_1591433187.84/0/spring-cloud-function-context-3-0-0-release-sources-1-jar/org/springframework/cloud/function/context/catalog/FunctionTypeUtils.java
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*/opt/ws_local/PERMITS_SQL/1028331601_1591433187.84/0/spring-cloud-function-context-3-0-0-release-sources-1-jar/org/springframework/cloud/function/context/config/ContextFunctionCatalogAutoConfiguration.java
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* /opt/ws_local/PERMITS_SQL/1028331601_1591433187.84/0/spring-cloud-function-context-3-0-0-release-sources-1-jar/org/springframework/cloud/function/context/catalog/FunctionUnregistrationEvent.java
* /opt/ws_local/PERMITS_SQL/1028331601_1591433187.84/0/spring-cloud-function-context-3-0-0-release-sources-1-jar/org/springframework/cloud/function/context/catalog/FunctionInspector.java
* /opt/ws_local/PERMITS_SQL/1028331601_1591433187.84/0/spring-cloud-function-context-3-0-0-release-sources-1-jar/org/springframework/cloud/function/context/catalog/FunctionCatalogEvent.java
* /opt/ws_local/PERMITS_SQL/1028331601_1591433187.84/0/spring-cloud-function-context-3-0-0-release-sources-1-jar/org/springframework/cloud/function/context/config/FunctionContextUtils.java
* /opt/ws_local/PERMITS_SQL/1028331601_1591433187.84/0/spring-cloud-function-context-3-0-0-release-sources-1-jar/org/springframework/cloud/function/context/catalog/FunctionCatalog.java
* /opt/ws_local/PERMITS_SQL/1028331601_1591433187.84/0/spring-cloud-function-context-3-0-0-release-sources-1-jar/org/springframework/cloud/function/context/test/FunctionalTestContextLoader.java
* /opt/ws_local/PERMITS_SQL/1028331601_1591433187.84/0/spring-cloud-function-context-3-0-0-release-sources-1-jar/org/springframework/cloud/function/context/test/FunctionalSpringBootTest.java
* /opt/ws_local/PERMITS_SQL/1028331601_1591433187.84/0/spring-cloud-function-context-3-0-0-release-sources-1-jar/org/springframework/cloud/function/context/catalog/WrapperDetector.java
* /opt/ws_local/PERMITS_SQL/1028331601_1591433187.84/0/spring-cloud-function-context-3-0-0-release-sources-1-jar/org/springframework/cloud/function/context/catalog/InMemoryFunctionCatalog.java

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1.83 log4j-api 2.12.1
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David Megginson, david@megginson.com
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Amongst other, the following people contributed to ant:

Adam Binkinsop
Adam Bryzak
Adam Sotona
Aleksandr Ishutin
Alex Rosen
Alexei Yudichev
Alexey Panchenko
Alexey Solofnenko
Alfred Theorin
Alison Winters
Andreas Ames
Andreas Mross
Andrew Eisenberg
Andrew Everitt
Andrew Stevens
Andrey Urazov
Andy Wood
Anil K. Vijendran
Anli Shundi
Anthony Goubard
Anthony Green
Anthony Wat
Antoine Baudoux
Antoine Levy-Lambert
Anton Mazkovoi
Arjan Veenstra
Arnaud Vandyck
Arnout J. Kuiper
Aslak Hellesy
Atsuhiro Yamanaka
Avik Sengupta
Balazs Fejes 2
Bart Vanhaute
Benjamin Burgess
Ben Galbraith
Benoit Moussaud
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These are some of the many people who have helped Ant become so successful.
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1.86 animate 3.5.1

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#Animate.css

*Just-add-water CSS animation*

`animate.css` is a bunch of cool, fun, and cross-browser animations for you to use in your projects. Great for emphasis, home pages, sliders, and general just-add-water-awesomeness.

##Basic Usage

1. Include the stylesheet on your document’s `<head>`

```html
```html
<head>
<link rel="stylesheet" href="animate.min.css">
</head>
```html
```

2. Add the class `animated` to the element you want to animate.

You may also want to include the class `infinite` for an infinite loop.

3. Finally you need to add one of the following classes:
* `bounce`
* `flash`
* `pulse`
* `rubberBand`
* `shake`
* `headShake`
* `swing`
* `tada`
* `wobble`
* `jello`
* `bounceIn`
* `bounceInDown`
* `bounceInLeft`
* `bounceInRight`
* `bounceInUp`
* `bounceOut`
* `bounceOutDown`
* `bounceOutLeft`
* `bounceOutRight`
* `bounceOutUp`
* `fadeIn`
* `fadeInDown`
* `fadeInDownBig`
* `fadeInLeft`
* `fadeInLeftBig`
* `fadeInRight`
* `fadeInRightBig`
* `fadeInUp`
* `fadeInUpBig`
* `fadeOut`
* `fadeOutDown`
* `fadeOutDownBig`
* `fadeOutLeft`
* `fadeOutLeftBig`
* `fadeOutRight`
* `fadeOutRightBig`
* `fadeOutUp`
* `fadeOutUpBig`
* `flipInX`
* `flipInY`
* `flipOutX`
* `flipOutY`
* `lightSpeedIn`
* `lightSpeedOut`
* `rotateIn`
* `rotateInDownLeft`
* `rotateInDownRight`
* `rotateInUpLeft`
* `rotateInUpRight`
* `rotateOut`
* `rotateOutDownLeft`
* `rotateOutDownRight`
* `rotateOutUpLeft`
* `rotateOutUpRight`
* `hinge`
* `rollIn`
* `rollOut`
* `zoomIn`
* `zoomInDown`
* `zoomInLeft`
* `zoomInRight`
* `zoomInUp`
* `zoomOut`
* `zoomOutDown`
* `zoomOutLeft`
* `zoomOutRight`
* `slideInDown`
* `slideInLeft`
* `slideInRight`
* `slideInUp`
* `slideOutDown`
* `slideOutLeft`
* `slideOutRight`
* `slideOutUp`

Full example:
```html
<h1 class="animated infinite bounce">Example</h1>
```

[Check out all the animations here!](https://daneden.github.io/animate.css/)

##Usage
To use animate.css in your website, simply drop the stylesheet into your document's `<head>`, and add the class `animated` to an element, along with any of the animation names. That's it! You've got a CSS animated element. Super!

```html
<head>
<link rel="stylesheet" href="animate.min.css">
</head>
```

You can do a whole bunch of other stuff with animate.css when you combine it with jQuery or add your own CSS rules. Dynamically add animations using jQuery with ease:
```javascript
$('#yourElement').addClass('animated bounceOutLeft');
```

You can also detect when an animation ends:

```javascript
$('#yourElement').one('webkitAnimationEnd mozAnimationEnd MSAnimationEnd oanimationend animationend',
  doSomething);
```

[View a video tutorial](https://www.youtube.com/watch?v=CBQGl6zokMs) on how to use Animate.css with jQuery here.

**Note:** `jQuery.one()` is used when you want to execute the event handler at most *once*. More information [here](http://api.jquery.com/one/).

You can change the duration of your animations, add a delay or change the number of times that it plays:

```css
#yourElement {
  -vendor-animation-duration: 3s;
  -vendor-animation-delay: 2s;
  -vendor-animation-iteration-count: infinite;
}
```

*Note: be sure to replace “vendor” in the CSS with the applicable vendor prefixes (webkit, moz, etc)*

## Custom Builds

Animate.css is powered by [gulp.js](http://gulpjs.com/), and you can create custom builds pretty easily. First of all, you'll need Gulp and all other dependencies:

```sh
$ cd path/to/animate.css/
$ sudo npm install
```

Next, run `gulp` to compile your custom builds. For example, if you want only some of the 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
}
```

## License

Animate.css is licensed under the MIT license. (http://opensource.org/licenses/MIT)

## Contributing

Pull requests are the way to go here. I apologise in advance for the slow action on pull requests and issues. I only have two rules for submitting a pull request: match the naming convention (camelCase, categorised [fades, bounces, etc]) and let us see a demo of submitted animations in a [pen](http://codepen.io). That last one is important.

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1.87 blob 0.0.4
1.88 angular-platform-browser-dynamic 9.0.7

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1.89 powermock-module-junit4-common 2.0.0

1.90 spring-boot-actuator 2.2.4

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1.91 python-cryptography 1.7.1-3+deb9u2

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1.92 debianutils 4.8.6.1

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<div id="left">
<script src="templates/left.js" type="text/javascript"></script>
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1.101 pcre 8.39 12

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PCRE is a library of functions to support regular expressions whose syntax and semantics are as close as possible to those of the Perl 5 language.

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The basic library functions are written in C and are freestanding. Also included in the distribution is a set of C++ wrapper functions, and a just-in-time compiler that can be used to optimize pattern matching. These
are both optional features that can be omitted when the library is built.

THE BASIC LIBRARY FUNCTIONS

Written by:      Philip Hazel
Email local part: ph10
Email domain:    cam.ac.uk

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Written by:      Zoltan Herczeg
Email local part: hzmester
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1.102 libjpeg-turbo 1.5.2-2+b1

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The Independent JPEG Group's JPEG software

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README for release 6b of 27-Mar-1998
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This software is the work of Tom Lane, Philip Gladstone, Jim Boucher, Lee Crocker, Julian Minguillon, Luis Ortiz, George Phillips, Davide Rossi, Guido Vollbeding, Ge’ Weijers, and other members of the Independent JPEG Group.

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DOCUMENTATION ROADMAP
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This file contains the following sections:

OVERVIEW	General description of JPEG and the IJG software.
LEGAL ISSUES	Copyright, lack of warranty, terms of distribution.
REFERENCES	Where to learn more about JPEG.
ARCHIVE LOCATIONS	Where to find newer versions of this software.
RELATED SOFTWARE	Other stuff you should get.
FILE FORMAT WARS	Software *not* to get.
TO DO	Plans for future IJG releases.
Other documentation files in the distribution are:

User documentation:
install.doc  How to configure and install the IJG software.
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 "jpegran", a utility for lossless transcoding between different JPEG processes, and "rdjpegcom" and "wrjpegcom", 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...

and draft DIS 10918-2). This is by far the most complete exposition of JPEG in existence, and we highly recommend it.

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/TIFF6.ps.gz. The JPEG incorporation scheme found in the TIFF 6.0 spec of 3-June-92 has a number of serious problems. IJG does not recommend use of the TIFF 6.0 design (TIFF Compression tag 6). Instead, we recommend the JPEG design proposed by TIFF Technical Note #2 (Compression tag 7). Copies of this Note can be obtained from ftp.sgi.com or from ftp://ftp.uu.net/graphics/jpeg/. It is expected that the next revision of the TIFF spec will replace the 6.0 JPEG design with the Note's design. Although IJG's own code does not support TIFF/JPEG, the free libtiff library uses our library to implement TIFF/JPEG per the Note. libtiff is available from ftp://ftp.sgi.com/graphics/tiff/.
ARCHIVE LOCATIONS
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The "official" archive site for this software is ftp.uu.net (Internet address 192.48.96.9). The most recent released version can always be found there in directory graphics/jpeg. This particular version will be archived as ftp://ftp.uu.net/graphics/jpeg/jpegsrc.v6b.tar.gz. If you don't have direct Internet access, UUNET's archives are also available via UUCP; contact help@uunet.uu.net for information on retrieving files that way.

Numerous Internet sites maintain copies of the UUNET files. However, only ftp.uu.net is guaranteed to have the latest official version.

You can also obtain this software in DOS-compatible "zip" archive format from the SimTel archives (ftp://ftp.simtel.net/pub/simtelnet/msdos/graphics/), or on CompuServe in the Graphics Support forum (GO CIS:GRAPHSUP), library 12 "JPEG Tools". Again, these versions may sometimes lag behind the ftp.uu.net release.

The JPEG FAQ (Frequently Asked Questions) article is a useful source of general information about JPEG. It is updated constantly and therefore is not included in this distribution. The FAQ is posted every two weeks to Usenet newsgroups comp.graphics.misc, news.answers, and other groups. It is available on the World Wide Web at http://www.faqs.org/faqs/jpeg-faq/ and other news.answers archive sites, including the official news.answers archive at rtfm.mit.edu: ftp://rtfm.mit.edu/pub/usenet/news.answers/jpeg-faq/.

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send usenet/news.answers/jpeg-faq/part2

RELATED SOFTWARE
================

Numerous viewing and image manipulation programs now support JPEG. (Quite a few of them use this library to do so.) The JPEG FAQ described above lists some of the more popular free and shareware viewers, and tells where to obtain them on Internet.

If you are on a Unix machine, we highly recommend Jef Poskanzer's free PBMPLUS software, which provides many useful operations on PPM-format image files. In particular, it can convert PPM images to and from a wide range of other formats, thus making cjpeg/djpeg considerably more useful. The latest version is distributed by the NetPBM group, and is available from numerous sites, notably ftp://wuarchive.wustl.edu/graphics/graphics/packages/NetPBM/.

Unfortunately PBMPLUS/NETPBM is not nearly as portable as the IJG software is;
you are likely to have difficulty making it work on any non-Unix machine.

A different free JPEG implementation, written by the PVRG group at Stanford, is available from ftp://havefun.stanford.edu/pub/jpeg/. This program is designed for research and experimentation rather than production use; it is slower, harder to use, and less portable than the IJG code, but it is easier to read and modify. Also, the PVRG code supports lossless JPEG, which we do not. (On the other hand, it doesn't do progressive JPEG.)

FILE FORMAT WARS
================

Some JPEG programs produce files that are not compatible with our library. The root of the problem is that the ISO JPEG committee failed to specify a concrete file format. Some vendors "filled in the blanks" on their own, creating proprietary formats that no one else could read. (For example, none of the early commercial JPEG implementations for the Macintosh were able to exchange compressed files.)

The file format we have adopted is called JFIF (see REFERENCES). This format has been agreed to by a number of major commercial JPEG vendors, and it has become the de facto standard. JFIF is a minimal or "low end" representation. We recommend the use of TIFF/JPEG (TIFF revision 6.0 as modified by TIFF Technical Note #2) for "high end" applications that need to record a lot of additional data about an image. TIFF/JPEG is fairly new and not yet widely supported, unfortunately.

The upcoming JPEG Part 3 standard defines a file format called SPIFF. SPIFF is interoperable with JFIF, in the sense that most JFIF decoders should be able to read the most common variant of SPIFF. SPIFF has some technical advantages over JFIF, but its major claim to fame is simply that it is an official standard rather than an informal one. At this point it is unclear whether SPIFF will supersede JFIF or whether JFIF will remain the de-facto standard. IJG intends to support SPIFF once the standard is frozen, but we have not decided whether it should become our default output format or not. (In any case, our decoder will remain capable of reading JFIF indefinitely.)

Various proprietary file formats incorporating JPEG compression also exist. We have little or no sympathy for the existence of these formats. Indeed, one of the original reasons for developing this free software was to help force convergence on common, open format standards for JPEG files. Don't use a proprietary file format!

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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.

1.103 zipkin-sender-kafka 2.11.0

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Manoj Srivastava <srivasta@debian.org>
arch-tag: d4250e44-a0e0-4ee0-adb9-2bd74f6e6b27

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1.111 animal-sniffer-annotation 1.14

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1.112 apache-el 8.5.49

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1.113 bean-validation-api 2.0.1

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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
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

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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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1.120 angular-xeditable 0.1.12

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1.122 jackson-module-jaxb-annotations 2.10.2

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1.125 debian-archive-keyring 2019.1

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### 1.132 safe-buffer 5.1.2

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1.134 batik-i18n 1.11

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1.136 engine.io-client 1.8.5

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Just a bike-shed.

## Install
```sh
npm install hash.js
```

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

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

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

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Oracle

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

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

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Oracle OpenJDK

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

* java.sun.security.ssl

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

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OW2

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

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

The following artifacts are ASL2 licensed.

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

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MortBay

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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

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.
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If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) 19yy <name of author>

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Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) 19yy name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program `Gnomovision' (which makes passes at compilers) written by James Hacker.

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

This General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Library General Public License instead of this License.

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[This is the first released version of the library GPL. It is numbered 2 because it goes with version 2 of the ordinary GPL.]

Preamble

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To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library, or if you modify it.

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Our method of protecting your rights has two steps: (1) copyright the library, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the library.

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

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

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

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

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

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The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification").

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

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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.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

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

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

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

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

6. As an exception to the Sections above, you may also compile or
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Library is used in it and that the Library and its use are covered by
this License. You must supply a copy of this License. If the work
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of these things:

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with the Library, with the complete machine-readable "work that
uses the Library", as object code and/or source code, so that the
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executable containing the modified Library. (It is understood
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to use the modified definitions.)

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c) If distribution of the work is made by offering access to copy
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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.
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7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

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

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<H2 CLASS="title"><A NAME="INTRO">Introduction</A></H2>

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<OL START="0">

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  <P>
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</OL>

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1.163 core-js 3.0.0

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1.164 ns-popover 0.6.8

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1.165 jnr-x86asm 1.0.2

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1.167 rx-netty-contexts 0.4.9

1.168 kryo-serializers 0.45

1.169 zlib 1.2.8

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/* zlib.h -- interface of the 'zlib' general purpose compression library version 1.2.11, January 15th, 2017

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1.170 component-emitter 1.3.0

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1.171 pam 1.1.8 3.6

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1.173 util-deprecate 1.0.2

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1.174 xz 5.2.2 1.2+b1

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From strings/apr_strnatcmp.c, include/apr_strings.h:

strnatcmp.c -- Perform 'natural order' comparisons of strings in C.
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From strings/apr_snprintf.c:

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file name: UBiDiProps.java
encoding: US-ASCII
tab size: 8 (not used)
indentation:4

created on: 2005jan16
created by: Markus W. Scherer

Low-level Unicode bidi/shaping properties access.
Java port of ubidi_props.h/.c.
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<code>Replaceable</code> is an interface representing a string of characters that supports the replacement of a range of itself with a new string of characters. It is used by APIs that change a piece of text while retaining metadata. Metadata is data other than the Unicode characters returned by char32At(). One
example of metadata is style attributes; another is an edit
history, marking each character with an author and revision number.

<p>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".

<p><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>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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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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1.185 javassist 3.24.0
1.186 mimeparse-erlang 0.1.2

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1.187 symbol-observable 1.2.0

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1.188 minimalistic-crypto-utils 1.0.1

1.189 openssl 1.0.2u-1~deb9u1

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1.192 xom 1.2.10

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1.193 p11-kit 0.23.15 2

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trust/index.h trust/list.c trust/list.h trust/persist.c
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1.197 ev-store 7.0.0

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1.198 jffi 1.2.16

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1.206 jul-to-slf4j 1.7.30

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* /opt/ws_local/PERMITS_SQL/1010092505_1591361415.12/0/ezmorph-1-0-6-sources-jar/net/sf/ezmorph/array/LongArrayMorpher.java
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*/opt/ws_local/PERMITS_SQL/1010092505_1591361415.12/0/ezmorph-1-0-6-sources-jar/net/sf/ezmorph/array/IntArrayMorpher.java
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1.208 regenerator-runtime 0.13.3

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

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

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* DNS resolver (dirmngr/dns.c)

dns.c - Recursive, Reentrant DNS Resolver.

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```
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cmd/krb5/slave/kpropd_rpc.c
lib/gss_mechs/mech_krb5/et/kdb5_err.c
lib/gss_mechs/mech_spnego/mech/gssapiP_spnego.h
lib/gss_mechs/mech_spnego/mech/spnego_mech.c
lib/krb5/kadm5/kadm_host_srv_names.c
lib/krb5/kdb/kdb_convert.c
lib/krb5/kdb/kdb_hdr.h
lib/krb5/kdb/kdb_log.c
lib/krb5/kdb/kdb_log.h
lib/libgss/g_accept_sec_context.c
lib/libgss/g_acquire_cred.c
lib/libgss/g_canon_name.c
lib/libgss/g_compare_name.c
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lib/libgss/g_imp_name.c
lib/libgss/g_imp_sec_context.c
lib/libgss/g_init_sec_context.c
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lib/gssapi/mechglue/g_accept_sec_context.c
lib/gssapi/mechglue/g_acquire_cred.c
lib/gssapi/mechglue/g_canon_name.c
lib/gssapi/mechglue/g_compare_name.c
lib/gssapi/mechglue/g_context_time.c
lib/gssapi/mechglue/g_delete_sec_context.c
lib/gssapi/mechglue/g_dsp_name.c
lib/gssapi/mechglue/g_dsp_status.c
lib/gssapi/mechglue/g_dup_name.c
lib/gssapi/mechglue/g_exp_sec_context.c
lib/gssapi/mechglue/g_export_name.c
lib/gssapi/mechglue/g_glue.c
lib/gssapi/mechglue/g_imp_name.c
lib/gssapi/mechglue/g_imp_sec_context.c
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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:

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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* 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.ow2.asm:asm-commons
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org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
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org.apache.tomcat:tomcat-util-scan
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org.eclipse.jetty.toolchain:jetty-schemas

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compiler/cpp/src/generate/t.rb_generator.cc
compiler/cpp/src/generate/t.st_generator.cc
compiler/cpp/src/generate/t.xsd_generator.cc
compiler/cpp/src/main.cc
compiler/cpp/src/parse/t_field.h
compiler/cpp/src/parse/t_program.h
compiler/cpp/src/thriftl.ill
compiler/cpp/src/thrifty.yy
lib/csharp/src/Protocol/TBinaryProtocol.cs
lib/csharp/src/Protocol/TField.cs
lib/csharp/src/Protocol/TLList.cs
lib/csharp/src/Protocol/TMap.cs
lib/csharp/src/Protocol/TMessage.cs
lib/csharp/src/Protocol/TMessageType.cs
lib/csharp/src/Protocol/TProtocol.cs
lib/csharp/src/Protocol/TProtocolException.cs
lib/csharp/src/Protocol/TProtocolFactory.cs
lib/csharp/src/Protocol/TProtocolUtil.cs
lib/csharp/src/Protocol/TSet.cs
lib/csharp/src/Protocol/TStruct.cs
lib/csharp/src/Protocol/TTType.cs
lib/csharp/src/Server/TServer.cs
lib/csharp/src/Server/TSimpleServer.cs
lib/csharp/src/Server/ThreadPoolServer.cs
lib/csharp/src/TApplicationException.cs
lib/csharp/src/Thrift.csproj
For the aclocal/ax_boost_base.m4 and contrib/fb303/aclocal/ax_boost_base.m4 components:

```bash
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```

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L. Peter Deutsch
ghost@aladdin.com

*/

---------------------------------------------------
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lib/ocaml/OCamlMakefile and lib/ocaml/README-OCamlMakefile components:
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If such an object file uses only numerical parameters, data
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Otherwise, if the work is a derivative of the Library, you may
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1.234 e2fsprogs 1.43.4 2+deb9u1
1.234.1 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
image:$(BSD_LIB)

$(BSD_LIB): $(OBJS)
(cd pic; ld -Bshareable -o $(BSD_LIB) $(LDFLAGS_SHLIB) $(OBJS))
$(MV) pic/$(BSD_LIB) .
$(RM) -f../$(BSD_LIB)
(cd ..; $(LN) $(LINK_BUILD_FLAGS) `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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Theodore Ts'o
23-June-2007
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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 package was put together by Yann Dirson <dirson@debian.org>, from sources obtained from a mirror of:
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Index: tdba/tdb.c
===================================================================
--- tdba.orig/tdb.c
+++ tdba/tdb.c
@@ -4,11 +4,11 @@ Rev: 23371
Last Changed Date: 2007-06-06 20:14:06 -0400 (Wed, 06 Jun 2007)
*/
/*
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+ trivial database library - standalone version

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* /opt/ws_local/PERMITS_SQL/1011812668_1591898465.74/0/hdrhistogram-2-1-11-sources-jar/org/HdrHistogram/LinearIterator.java
* /opt/ws_local/PERMITS_SQL/1011812668_1591898465.74/0/hdrhistogram-2-1-11-sources-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
*/
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 */

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 * package-info.java
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 */

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1011812668_1591898465.74/0/hdrhistogram-2-1-11-sources-
jar/org/HdrHistogram/package-info.java
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* /opt/ws_local/PERMITS_SQL/1011812668_1591898465.74/0/hdrhistogram-2-1-11-sources-
jar/org/HdrHistogram/WriterReaderPhaser.java

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1.248 spring-context 5.2.1

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### 1.253 systemd 241-7~deb10u4

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1.259 cdebconf 0.249

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Tollef Fog Heen <tfheen@debian.org>
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1.262 brave-context-log4j2 5.9.0

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1.264 keyutils 1.5.9-9

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src/main/misc/overloadedNumberRules/prices.ods
src/manual/en_US/docgen-originals/figures/overview.odg
src/manual/en_US/docgen-originals/figures/model2sketch_with_alpha.png
src/manual/en_US/docgen-originals/figures/tree_with_alpha.png
src/manual/en_US/favicon.png
src/manual/en_US/figures/model2sketch.png
src/manual/en_US/figures/overview.png
src/manual/en_US/figures/tree.png
src/manual/en_US/logo.png
src/manual/zh_CN/favicon.png
src/manual/zh_CN/figures/model2sketch.png
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1.274 startpar 0.61 1

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Theodore Ts'o
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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>.

Sources were obtained from http://sourceforge.net/projects/e2fsprogs

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#
# In order to use this stub, the following makefile variables must be defined.
#
# BSDLIB_VERSION = 1.0
# BSDLIB_IMAGE = libce
# BSDLIB_MYDIR = et
# BSDLIB_INSTALL_DIR = $(SHLIBDIR)
#
all:: image

real-subdirs:: Makefile
@echo "MKDIR pic"
@mkdir -p pic

BSD_LIB = $(BSDLIB_IMAGE).so.$(BSDLIB_VERSION)
BSDLIB_PIC_FLAG = -fpic

image: $(BSD_LIB)

$(BSD_LIB): $(OBJS)
    $(cd pic; ld -Bshareable -o $(BSD_LIB) $(LDFLAGS_SHLIB) $(OBJS))
    $(MV) pic/$(BSD_LIB) .
    $(RM) -f ../$(BSD_LIB)
    $(cd ..; $(LN) $(LINK_BUILD_FLAGS) `echo $(my_dir) | sed -e 's;lib/;;'`/$(BSD_LIB) $(BSD_LIB))

install-shlibs install:: $(BSD_LIB)

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: tdbusa/tdb.c
===================================================================
--- tdbusa.orig/tdb.c
+++ tdbusa/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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system utilities, which are otherwise packaged as "e2fsprogs".

This package was put together by Yann Dirson <dirson@debian.org>,
from sources obtained from a mirror of:
tsx-11.mit.edu:/pub/linux/packages/ext2fs/

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Gadi Oxman, August 1995

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files of the EXT2 file system utilities. The EXT2 utilities were
written by Theodore Ts'o <tytso@mit.edu> and Remy Card
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This package was put together by Yann Dirson <dirson@debian.org>,
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It is part of the main e2fsprogs distribution, which can be found at:

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system utilities (e2fsck, mke2fs, etc.). The EXT2 utilities were
written by Theodore Ts'o <tytso@mit.edu> and Remy Card <card@masi.ibp.fr>.

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1.283 archaius-core 0.7.6

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1.284 libxcb 1.12 1

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1.286 @uirouter/angularjs 1.0.26

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1.287 spring-cloud-starter-zipkin 2.2.0

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1.303 servlet-api 3.1.0

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1.304 slf4j-log4j 1.7.25

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1.305 spring-plugin-metadata 1.2.0

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1.312 adduser 3.115
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1.314 angular-nvd3 1.0.9

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

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

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

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

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

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

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

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

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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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END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Libraries

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everyone can redistribute and change. You can do so by permitting
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To apply these terms, attach the following notices to the library. It is
safest to attach them to the start of each source file to most effectively
convey the exclusion of warranty; and each file should have at least the
"copyright" line and a pointer to where the full notice is found.

<one line to give the library's name and a brief idea of what it does.>
Copyright (C) <year>  <name of author>

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MA 02111-1307, USA

Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the library, if
necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the
library `Frob' (a library for tweaking knobs) written by James Random Hacker.

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

That's all there is to it!

1.316 perl 5.28.1 6
1.316.1 Available under license :

#!perl

=head1 NAME
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 $/ = "\n"
  my $copyright_msg = <$readme>;

  my ($year) = $copyright_msg =~ /.*\b\d\{4,\}\b/;  
    or die "Year not found in README copyright message \'$copyright_msg\';

  $year;
}

sub v_year
# returns the latest copyright year shown in perl -v
{
  my $output = runperl switches => ['-v'];
  my ($year) = $output =~ /copyright 1987.*\b\d\{4,\}\b/;  
    or die "Copyright statement not found in perl -v output \'$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\n  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
This program, "bzip2", the associated library "libbzip2", and all
documentation, are copyright (C) 1996-2010 Julian R Seward. All
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Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.6 of 6 September 2010

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Version 1, February 1989

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c) accompany it with the information you received as to where the corresponding source code may be obtained. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form alone.)

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c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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Appendix: How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
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<signature of Ty Coon>, 1 April 1989
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Because of this blurred distinction, using the ordinary General
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concluded that weaker conditions might promote sharing better.
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The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

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

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

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<signature of Ty Coon>, 1 April 1990
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1.318 ca-certificates-java 20190405
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Authors:

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1.320 create-ecdh 4.0.3

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1.334 javax-annotation-api 1.3.2

1.335 d-bus 1.12.16-1

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1.343 x-is-array 0.1.0

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1.344 selinux 2.8-1+b1

1.344.1 Available under license:

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(in case you are wondering where CyberLogin is, EON changed its login procedure and CyberLogin is no longer used.)
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Dennis Noermann <dennis.noermann@noernet.de>
Felix Domke <tmbinc@elitedvb.net>
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single nxt200x frontend driver.

(If you think you should be in this list, but you are not, drop a
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            || strcmp(license, "GPL v2") == 0
            || strcmp(license, "GPL and additional rights") == 0
            || strcmp(license, "Dual BSD/GPL") == 0
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Please keep the following list in alphabetical order.

Suman Anna
Sripal Bagadia
Felipe Balbi
Ohad Ben-Cohen
Phil Carmody
Deepak Chitriki
Felipe Contreras
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Contributors to bttv:

Michael Chu <mmchu@pobox.com>
AverMedia fix and more flexible card recognition

Alan Cox <alan@lxorguk.ukuu.org.uk>
Video4Linux interface and 2.1.x kernel adaptation

Chris Kleitsch
Hardware I2C

Gerd Knorr <kraxel@cs.tu-berlin.de>
Radio card (ITT sound processor)

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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1.346 spin 2.3.2

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1.348 spring-boot-starter-validation 2.2.4

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```
lib/gss_mechs/mach_krb5/et/kdb5_err.c
```
```
lib/gss_mechs/mech_spnego/mech/gssapiP_spnego.h
```
```
lib/gss_mechs/mech_spnego/mech/spnego_mech.c
```
```
lib/krb5/kadm5/kadm_host_srv_names.c
```
```
lib/krb5/kdb/kdb_convert.c
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lib/krb5/kdb/kdb_hdr.h
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lib/libgss/g_accept_sec_context.c
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lib/libgss/g_delete_sec_context.c
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lib/libgss/g_dup_name.c
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lib/libgss/g_exp_sec_context.c
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lib/libgss/g_export_name.c
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lib/libgss/g_imp_name.c
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lib/libgss/g_imp_sec_context.c
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lib/libgss/g_init_sec_context.c
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lib/libgss/g_initialize.c
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lib/libgss/g_inquire_context.c
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The implementations of GSSAPI mechglue in GSSAPI-SPNEGO in \texttt{src/lib/gssapi/generic} include the following files:

- \texttt{lib/gssapi/generic/gssapi_err_generic.c}
- \texttt{lib/gssapi/mechglue/g_accept_sec_context.c}
- \texttt{lib/gssapi/mechglue/g_acquire_cred.c}
- \texttt{lib/gssapi/mechglue/g_canon_name.c}
- \texttt{lib/gssapi/mechglue/g_compare_name.c}
- \texttt{lib/gssapi/mechglue/g_context_time.c}
- \texttt{lib/gssapi/mechglue/g_delete_sec_context.c}
- \texttt{lib/gssapi/mechglue/g_dsp_name.c}
- \texttt{lib/gssapi/mechglue/g_dsp_status.c}
- \texttt{lib/gssapi/mechglue/g_exp_name.c}
- \texttt{lib/gssapi/mechglue/g_imp_name.c}
- \texttt{lib/gssapi/mechglue/g_exp_sec_context.c}
- \texttt{lib/gssapi/mechglue/g_export_name.c}
- \texttt{lib/gssapi/mechglue/g_glue.c}
- \texttt{lib/gssapi/mechglue/g_imp_name.c}
Open Source Used in MSX vBranch Service Pack 3.9.0 2645

```
<lib>gssapi/mechglue/g_init_sec_context.c
<lib>gssapi/mechglue/g_inquire_context.c
<lib>gssapi/mechglue/g_inquire_cred.c
<lib>gssapi/mechglue/g_inquire_names.c
<lib>gssapi/mechglue/g_process_context.c
<lib>gssapi/mechglue/g_rel_buffer.c
<lib>gssapi/mechglue/g_rel_cred.c
<lib>gssapi/mechglue/g_rel_name.c
<lib>gssapi/mechglue/g_rel_oid_set.c
<lib>gssapi/mechglue/g_seal.c
<lib>gssapi/mechglue/g_sign.c
<lib>gssapi/mechglue/g_store_cred.c
<lib>gssapi/mechglue/g_unseal.c
<lib>gssapi/mechglue/g_userok.c
```
and the initial implementation of incremental propagation, including
the following new or changed files:

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

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   lib/gssapi/mechglue/g_accept_sec_context.c
   lib/gssapi/mechglue/g_acquire_cred.c
   lib/gssapi/mechglue/g_canon_name.c
   lib/gssapi/mechglue/g_compare_name.c
   lib/gssapi/mechglue/g_context_time.c
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.. 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
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The implementations of GSSAPI mechglue in GSSAPI-SPNEGO in
"src/lib/gssapi", including the following files:

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

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# and license statements in source code comments.

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
    return is_license

# This program is intended to be used by "make check-copyright". It
# checks for violations of the coding standards related to copyright
# and license statements in source code comments.
if text_seen:
    warn(fname, ln, 'License begins after first line of comment')
elif code_seen:
    warn(fname, ln, 'License after code')
elif nonlicense_seen:
    warn(fname, ln, 'License after non-license comments')
break

# DB2 licenses start with '/**-' and we don't want to change them.
if line != '' and line != '-':
    text_seen = True
return is_license

def check_file(lines, fname):
    # Skip emacs mode line if present.
    ln = 0
    if '-*- mode: c;' in lines[ln]:
        ln += 1

    # Check filename comment if present.
    m = re.match(r'/\* \([^ \]*\)( - .*)? \*/', lines[ln])
    if m:
        if m.group(1) != fname:
            warn(fname, ln, 'Wrong filename in comment')
        ln += 1

    # Scan for license statements.
    in_comment = False
    codeSeen = 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(comment_part.strip())
        elif in_comment:
            (comment_part, sep, line) = line.partition('*/

        is_license = check_comment(comment, fname, comment_starts_at,
                       code_seen, nonlicense_seen)
        nonlicense_seen = nonlicense_seen or not is_license

        return 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)

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src/arc4random_unix.h
src/closefrom.c
src/getentropy_aix.c
src/getentropy_bsd.c
src/getentropy_hpux.c
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1.354 good-listener 1.2.2

1.355(xmlrpc-client 3.1.3

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1.356 lz4-java 1.6.0

1.357 libseccomp 2.3.3-4
1.357.1 Available under license:

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

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

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

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

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

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

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

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

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

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

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

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

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

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1.368 attr 2.4.48 4

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being @var{list}.
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@c ispell-local-pdict: "ispell-dict"
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In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.

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| 1.3 thru 1.5.2 | 1.2 | 1995-1999 | CNRI | yes |
|----------------+--------------+-----------+------------+-----------------|
| 1.6 | 1.5.2 | 2000 | CNRI | no |
|----------------+--------------+-----------+------------+-----------------|
| 2.0 | 1.6 | 2000 | BeOpen.com | no |
|----------------+--------------+-----------+------------+-----------------|
| 1.6.1 | 1.6 | 2001 | CNRI | no |
|----------------+--------------+-----------+------------+-----------------|
| 2.1 | 2.0+1.6.1 | 2001 | PSF | no |
|----------------+--------------+-----------+------------+-----------------|
| 2.0.1 | 2.0+1.6.1 | 2001 | PSF | yes |
|----------------+--------------+-----------+------------+-----------------|
| 2.1.1 | 2.1+2.0.1 | 2001 | PSF | yes |
|----------------+--------------+-----------+------------+-----------------|
| 2.1.2 | 2.1.1 | 2002 | PSF | yes |
|----------------+--------------+-----------+------------+-----------------|
| 2.1.3 | 2.1.2 | 2002 | PSF | yes |
|----------------+--------------+-----------+------------+-----------------|
| 2.2 and above | 2.1.1 | 2001-now | PSF | yes |
|----------------+--------------+-----------+------------+-----------------|

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

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

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

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

The `mod:` `socket` module uses the functions, `:func:` `getaddrinfo`, and
`:func:` `getnameinfo`, which are coded in separate source files from the WIDE
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L. Peter Deutsch<br>ghost@aladdin.com<br>

Independent implementation of MD5 (RFC 1321).
This code implements the MD5 Algorithm defined in RFC 1321, whose text is available at

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

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

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

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

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Modified by Jack Jansen, CWI, July 1995:
- Use binascii module to do the actual line-by-line conversion
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-----

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-----

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----

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1.374 p11-kit 0.23.3 2

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org.ow2.asm:asm-commons
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org.apache.taglibs:taglibs-standard-spec
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org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el
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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:javax.mail.glassfish

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Oracle

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

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Oracle OpenJDK

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* java.sun.security.ssl

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

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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

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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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1.381 websocket-server 9.4.26.v20200117

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

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Oracle

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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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org.ow2.asm:asm-commons
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org.apache.taglibs:taglibs-standard-spec
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org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
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.toolchain:jetty-schemas

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1.395 hash-base 3.1.0

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1.396 antisamy 1.5.8

1.397 spring-boot 2.2.4
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>>> org.codehaus.plexus:plexus-cipher
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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>, public domain.

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1.411 apache-xml-rpc-client-library 3.1.2

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1.413 compress 1.19

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1.415 mockserver-client-java 5.5.1
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* $Id: IterableFollowingAxis.java 1162 2006-06-03 20:52:26Z elharo $
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* $Id: EvaluateFunction.java 1128 2006-02-05 21:49:04Z elharo $
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* $Id: JaxenException.java 1161 2006-06-03 20:36:00Z elharo $
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*
* $Id: DefaultVariableReferenceExpr.java 1367 2012-05-05 16:31:33Z elharo $
*/

Found in path(s):
  */opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-jar/org/jaxen/expr/DefaultVariableReferenceExpr.java
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 * $Revision: 1168 $
 * $Date: 2006-07-03 04:58:31 -0700 (Mon, 03 Jul 2006) $
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* $Id: VariableContext.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/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 $
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 */
* $Id: FloorFunction.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/FloorFunction.java
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* $Id: DocumentNavigator.java 1198 2006-09-21 11:48:05Z elharo $
*/

Found in path(s):
* /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 $
*/

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

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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-
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* $Id: XPathFactory.java 1337 2008-12-03 01:58:10Z elharo $
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  $Id: NotFunction.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/expr/NameStep.java

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* $Header$
* $Revision: 1179 $
* $Date: 2006-07-16 04:07:25 -0700 (Sun, 16 Jul 2006) $
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* $Id: FunctionCallException.java 1179 2006-07-16 11:07:25Z elharo $
* /

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

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 * $Revision: 1248 $
 * $Date: 2006-11-08 11:20:29 -0800 (Wed, 08 Nov 2006) $
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$Id: VariableReferenceExpr.java 1248 2006-11-08 19:20:29Z elharo $

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/path(s):
/opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-jar/org/jaxen/expr/VariableReferenceExpr.java
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* $Id: RoundFunction.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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* $Header$
* $Revision: 1162 $
* $Date: 2006-06-03 13:52:26 -0700 (Sat, 03 Jun 2006) $
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$Id: IterableNamespaceAxis.java 1162 2006-06-03 20:52:26Z elharo $

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$Revision: 1261 $

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

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

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$Header$
$Revision: 1257 $
$Date: 2006-11-13 14:10:09 -0800 (Mon, 13 Nov 2006) $

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* $Id: PrecedingAxisIterator.java 1257 2006-11-13 22:10:09Z elharo $
* /

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-
jar/org/jaxen/util/PrecedingAxisIterator.java
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 * $Header$
 * $Revision: 1364 $
 * $Date: 2011-07-30 05:46:45 -0400 (Sat, 30 Jul 2011) $
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$Id: DocumentNavigator.java 1364 2011-07-30 09:46:45Z elharo $

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Found in path(s):
* /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-
  jar/org/jaxen/expr/PathExpr.java
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* $Date: 2006-11-09 10:20:12 -0800 (Thu, 09 Nov 2006) $
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*   $Id: AncestorAxisIterator.java 1255 2006-11-09 18:20:12Z elharo $
* /

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

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

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

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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 $
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* $Id: DefaultProcessingInstructionNodeStep.java 1279 2007-01-06 12:21:12Z elharo $
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* $Id: DOMXPath.java 1162 2006-06-03 20:52:26Z elharo $
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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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* $Id: SAXPathEventSource.java 1128 2006-02-05 21:49:04Z elharo $
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* $Date: 2006-11-09 08:21:05 -0800 (Thu, 09 Nov 2006) $
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 *
* $Id: EqualityExpr.java 1252 2006-11-09 16:21:05Z elharo $
*/

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

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

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* /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-jar/org/jaxen/expr/CommentNodeStep.java
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* $Header$
* $Revision: 1245 $
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 * $Revision: 1128 $
 * $Date: 2006-02-05 13:49:04 -0800 (Sun, 05 Feb 2006) $
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 * $Id: SimpleFunctionContext.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/SimpleFunctionContext.java

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* /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-jar/org/jaxen/expr/DefaultRelativeLocationPath.java
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 * $Date: 2007-05-02 07:33:29 -0700 (Wed, 02 May 2007) $
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* $Id: SelfAxisIterator.java 1302 2007-05-02 14:33:29Z elharo $
*/

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

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

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

*/

Found in path(s):

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

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* $Id: Operator.java 1128 2006-02-05 21:49:04Z elharo $
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* $Revision: 1277 $
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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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    jar/org/jaxen/XPathFunctionContext.java
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/*
  $Id: IterableChildAxis.java 1162 2006-06-03 20:52:26Z elharo $
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  jar/org/jaxen/expr/iter/IterableChildAxis.java

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* $Id: PrecedingSiblingAxisIterator.java 1257 2006-11-13 22:10:09Z elharo $
* /

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

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  * $Id: DefaultLiteralExpr.java 1273 2007-01-03 20:47:42Z elharo $
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$Id: LocalNameFunction.java 1128 2006-02-05 21:49:04Z elharo $

$Id: Context.java 1219 2006-10-15 21:08:16Z elharo $
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  * $Id: DefaultLocationPath.java 1345 2009-10-22 11:25:23Z elharo $

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$Id: SAXPathException.java 1161 2006-06-03 20:36:00Z elharo $
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 * $Id: DefaultXPathFactory.java 1251 2006-11-09 16:11:38Z elharo $
Found in path(s):
* /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-jar/org/jaxen/expr/DefaultXPathFactory.java
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$Id: Function.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.java

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

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* $Revision: 1258 $
* $Date: 2006-11-13 14:38:17 -0800 (Mon, 13 Nov 2006) $
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* $Id: PredicateSet.java 1258 2006-11-13 22:38:17Z elharo $
*/

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

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

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* $Id: DefaultNavigator.java 1128 2006-02-05 21:49:04Z elharo $
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* $Id: StackedIterator.java 1128 2006-02-05 21:49:04Z elharo $
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* $Id: XPathSyntaxException.java 1161 2006-06-03 20:36:00Z elharo $
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* /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-
  jar/org/jaxen/saxpath/XPathSyntaxException.java
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* $Id: AncestorOrSelfAxisIterator.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/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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$Id: LangFunction.java 1128 2006-02-05 21:49:04Z elharo $
/

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/opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-
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* /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-
jar/org/jaxen/expr/DefaultTextNodeStep.java
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 * $Revision: 1324 $
 * $Date: 2008-04-26 18:48:59 -0700 (Sat, 26 Apr 2008) $
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* $Id: StringLengthFunction.java 1324 2008-04-27 01:48:59Z elharo $
* /

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* /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-
  jar/org/jaxen/function/StringLengthFunction.java
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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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$Id: DefaultAdditiveExpr.java 1128 2006-02-05 21:49:04Z elharo $
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* $Id: DefaultXPathExpr.java 1162 2006-06-03 20:52:26Z elharo $
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* $Id: NamespaceTest.java 1128 2006-02-05 21:49:04Z elharo $
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 * $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 $
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* /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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* $Id: EndsWithFunction.java 1128 2006-02-05 21:49:04Z elharo $
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* *
* $Id: TokenTypes.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/TokenTypes.java
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* 
* $Id: NamespaceUriFunction.java 1128 2006-02-05 21:49:04Z elharo $
* */

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-
* jar/org/jaxen/function/NamespaceUriFunction.java
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* $Id: UnionExpr.java 1228 2006-11-08 16:00:22Z elharo $
*/

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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* $Revision: 1128 $
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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 $
*/

Found in path(s):
* /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: ProcessingInstructionNodeStep.java 1226 2006-11-08 15:44:33Z elharo $
* /

Found in path(s):
/ opt / ws _ local / PERMITS _ SQL / 1018361820_1591370763.9 / 0 / jaxen-1-1-6-sources- jar / org / jaxen / expr / ProcessingInstructionNodeStep.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/function/BooleanFunction.java
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 * $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 $
*

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

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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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* /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-jar/org/jaxen/JaxenHandler.java
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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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* $Header$
* $Revision: 1386$
* $Date: 2012-07-29 09:29:13 -0400 (Sun, 29 Jul 2012) $
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 * $Revision: 1128 $ 
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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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 * REVISION: 1325 $ 
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* $Id: MultiplicativeExpr.java 1325 2008-04-27 01:55:05Z elharo $ 
*/

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

Found in path(s):
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jar/org/jaxen/QualifiedName.java
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* $Id: TrueFunction.java 1128 2006-02-05 21:49:04Z elharo $
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* /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-
jar/org/jaxen/function/TrueFunction.java
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 * $Revision: 1161 $
 * $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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* /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-
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* $Id: SumFunction.java 1128 2006-02-05 21:49:04Z elharo $
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  jar/org/jaxen/function/SumFunction.java
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* $Id: DefaultGreaterThanExpr.java 1396 2013-01-13 12:22:49Z elharo $

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

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 * $Date: 2006-06-03 13:52:26 -0700 (Sat, 03 Jun 2006) $
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* $Id: Dom4jXPath.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/dom4j/Dom4jXPath.java
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$Id: UnsupportedAxisException.java 1160 2006-06-03 20:26:02Z elharo $

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

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jar/org/jaxen/javabean/DocumentNavigator.java
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* $Revision: 1300 $
* $Date: 2007-05-02 07:27:46 -0700 (Wed, 02 May 2007) $
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Found in path(s):
* /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-jar/org/jaxen/expr/DefaultEqualsExpr.java
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 * $Id: DefaultModExpr.java 1261 2006-11-30 18:49:27Z elharo $
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* /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-jar/org/jaxen/expr/DefaultModExpr.java

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* $Id: UnaryExpr.java 1247 2006-11-08 19:06:30Z elharo $
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$Id: AnyChildNodeTest.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: LocationPath.java 1235 2006-11-08 17:02:21Z elharo $

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

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* $Date: 2006-07-03 06:17:30 -0700 (Mon, 03 Jul 2006) $
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*/ $Revision: 1335 $

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  $Id: DefaultTruthExpr.java 1335 2008-11-30 14:20:38Z elharo $
  */

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 * $Revision: 1162 $
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  * $Id: IterablePrecedingSiblingAxis.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/IterablePrecedingSiblingAxis.java
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 * $Revision: 1193 $
 * $Date: 2006-09-15 13:41:38 -0700 (Fri, 15 Sep 2006) $
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* $Id: XPathReaderFactory.java 1193 2006-09-15 20:41:38Z elharo $
*/

Found in path(s):
/ opt/ ws_ local/ PERMITS_ SQL/ 1018361820_ 1591370763. 9/ 0/jaxen- 1- 1- 6- sources- jar/ org/ jaxen/ saxpath/ helpers/ XPathReaderFactory. java
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 * $Id: NodeTest.java 1128 2006-02-05 21:49:04Z elharo $
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 * $Header$
 * $Revision: 1161 $
 * $Date: 2006-06-03 13:36:00 -0700 (Sat, 03 Jun 2006) $
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* $Id: XPathSyntaxException.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-jar/org/jaxen/XPathSyntaxException.java

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

Found in path(s):
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* $Id: FilterExpr.java 1326 2008-04-27 01:56:10Z elharo $
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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 $
*/

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

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

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 * $Id: DefaultStep.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/CountFunction.java
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* /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-
  jar/org/jaxen/function/SubstringFunction.java

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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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* $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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* /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-
  jar/org/jaxen/javabean/JavaBeanXPath.java
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* $Id: NameTest.java 1128 2006-02-05 21:49:04Z elharo $
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* /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-
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* $Id: NamespaceContext.java 1168 2006-07-03 11:58:32Z elharo $
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* $Id: Predicated.java 1241 2006-11-08 18:07:25Z elharo $
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* $Id: XPathLexer.java 1334 2008-11-29 17:58:48Z elharo $
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**1.423** fontconfig 2.11.0 6.7+b1

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1.426 adduser 3.118

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1.427 libxtst 1.2.3-1

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1.428 activation 1.2.0

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 Version: 1.2
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* /opt/ws_local/PERMITS_SQL/1023699204_1590037521.28/0/spring-integration-core-5-2-3-release-sources-jar/org/springframework/integration/support/management/TrackableComponent.java
* /opt/ws_local/PERMITS_SQL/1023699204_1590037521.28/0/spring-integration-core-5-2-3-release-sources-jar/org/springframework/integration/transformer/Transformer.java
* /opt/ws_local/PERMITS_SQL/1023699204_1590037521.28/0/spring-integration-core-5-2-3-release-sources-jar/org/springframework/integration/json/JsonToObjectTransformer.java
* /opt/ws_local/PERMITS_SQL/1023699204_1590037521.28/0/spring-integration-core-5-2-3-release-sources-jar/org/springframework/integration/config/xml/HeaderEnricherParserSupport.java
* /opt/ws_local/PERMITS_SQL/1023699204_1590037521.28/0/spring-integration-core-5-2-3-release-sources-jar/org/springframework/integration/transformer/ContentEnricher.java
* /opt/ws_local/PERMITS_SQL/1023699204_1590037521.28/0/spring-integration-core-5-2-3-release-sources-jar/org/springframework/integration/history/MessageHistoryConfigurer.java
* /opt/ws_local/PERMITS_SQL/1023699204_1590037521.28/0/spring-integration-core-5-2-3-release-sources-jar/org/springframework/integration/transformer/AbstractTransformer.java
* /opt/ws_local/PERMITS_SQL/1023699204_1590037521.28/0/spring-integration-core-5-2-3-release-sources-jar/org/springframework/integration/handler/ReplyRequiredException.java
* /opt/ws_local/PERMITS_SQL/1023699204_1590037521.28/0/spring-integration-core-5-2-3-release-sources-jar/org/springframework/integration/transformer/ContentEnricher.java
* /opt/ws_local/PERMITS_SQL/1023699204_1590037521.28/0/spring-integration-core-5-2-3-release-sources-jar/org/springframework/integration/history/MessageHistoryConfigurer.java
* /opt/ws_local/PERMITS_SQL/1023699204_1590037521.28/0/spring-integration-core-5-2-3-release-sources-jar/org/springframework/integration/transformer/AbstractIntegrationNamespaceHandler.java
* /opt/ws_local/PERMITS_SQL/1023699204_1590037521.28/0/spring-integration-core-5-2-3-release-sources-jar/org/springframework/integration/dispatcher/AbstractDispatcher.java
* /opt/ws_local/PERMITS_SQL/1023699204_1590037521.28/0/spring-integration-core-5-2-3-release-sources-jar/org/springframework/integration/handler/PostProcessingMessageHandler.java
* /opt/ws_local/PERMITS_SQL/1023699204_1590037521.28/0/spring-integration-core-5-2-3-release-sources-jar/org/springframework/integration/splitter/AbstractMessageSplitter.java
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* /opt/ws_local/PERMITS_SQL/1023699204_1590037521.28/0/spring-integration-core-5-2-3-release-sources-jar/org/springframework/integration/util/MessagingAnnotationUtils.java
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* /opt/ws_local/PERMITS_SQL/1023699204_1590037521.28/0/spring-integration-core-5-2-3-release-sources-jar/org/springframework/integration/config/xml/RetryAdviceParser.java
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1.433 not-going-to-be-commons-ssl 0.3.20

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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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Apache Commons Logging 1.2
Byte Buddy 1.8.8
Objenesis 2.5.1

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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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1.436 ca-certificates-java 20170929~deb9u3

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1.437 angular-compiler 9.0.7

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1.438 websocket-api 9.4.26.v20200117

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Eclipse

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

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

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Oracle

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

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

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Oracle OpenJDK

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

* java.sun.security.ssl

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

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OW2

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

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

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Apache

The following artifacts are ASL2 licensed.
org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

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MortBay

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

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

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The following artifacts are CDDL + GPLv2 with classpath exception.

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

org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

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Eclipse

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

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

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Oracle

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

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

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Oracle OpenJDK

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

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPLv2 with classpath exceptions.
http://openjdk.java.net/legal/gplv2+ce.html

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OW2

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

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Apache
The following artifacts are ASL2 licensed.

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

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MortBay

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org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
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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@end example

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@end example

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1.456 angular-messages 1.7.9

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1.457 spring-kafka 2.3.5

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* /opt/ws_local/PERMITS_SQL/1033178477_1591433486.70/spring-kafka-2-3-5-release-sources-jar/org/springframework/kafka/core/KafkaTemplate.java
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* /opt/ws_local/PERMITS_SQL/1033178477_1591433486.70/spring-kafka-2-3-5-release-sources-jar/org/springframework/kafka/listener/ErrorHandler.java
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1.458 evp_bytestokey 1.0.3

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1.459 core-module 1.2.3

1.460 grep 2.27 2

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tools/shhopt.c, tools/shhopt.h:

Title: shhopt - library for parsing command line options.
Version: 1.1.2
Entered-date: 23MAR97
Description: C-functions for parsing command line options, both
    traditional one-character options, and GNU'ish
    --long-options.
Keywords: programming, library, lib, commandline, options
Author: s.h.huseby@usit.uio.no (Sverre H. Huseby)
Primary-site: http://www.ifi.uio.no/~sverrehu/pub-unix/
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1994 Kevin E. Martin (martin@cs.unc.edu)
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    if( w.style.display=="block" ){
        w.style.display = "none";
    } 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';
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Signed-off-by: Liam Girdwood <liam.r.girdwood@linux.intel.com>
---
src/topology/builder.c | 17 +++++++++--------
src/topology/channel.c | 17 +++++++++--------
src/topology/ctl.c | 17 +++++++++--------
src/topology/dapm.c | 17 +++++++++--------
src/topology/data.c | 17 +++++++++--------
src/topology/elemt.c | 17 +++++++++--------
src/topology/ops.c | 17 +++++++++--------
src/topology/parser.c | 17 +++++++++--------
src/topology/pcm.c | 17 +++++++++--------
src/topology/text.c | 17 +++++++++--------
10 files changed, 90 insertions(+), 80 deletions(-)

diff --git a/src/topology/builder.c b/src/topology/builder.c
index 20fa925..dcd9e2a 100644
--- a/src/topology/builder.c
+++ b/src/topology/builder.c
@@ -2,14 +2,15 @@
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         Yao Jin <yao.jin@intel.com>

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index 8c585a7..eef72bb 100644
--- a/src/topology/dapm.c
+++ b/src/topology/dapm.c
@@ -2,14 +2,15 @@
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         Yao Jin <yao.jin@intel.com>

diff --git a/src/topology/data.c b/src/topology/data.c
index 0d5c430..e2aa38c 100644
--- a/src/topology/data.c
+++ b/src/topology/data.c
@@ -2,14 +2,15 @@
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diff --git a/src/topology/ops.c b/src/topology/ops.c
index 1b5c1e2..6f8dc1f 100644
--- a/src/topology/ops.c
+++ b/src/topology/ops.c
@@ -2,14 +2,15 @@
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diff --git a/src/topology/ops.c b/src/topology/ops.c
index 1b5c1e2..6f8dc1f 100644
--- a/src/topology/ops.c
+++ b/src/topology/ops.c
@@ -2,14 +2,15 @@
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    diff --git a/src/topology/parser.c b/src/topology/parser.c
    index c5f9757..cfc20e0 100644
    --- a/src/topology/parser.c
    +++ b/src/topology/parser.c
    @@ -2,14 +2,15 @@
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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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diff --git a/src/topology/text.c b/src/topology/text.c
index 303fbeb..cba6887 100644
--- a/src/topology/text.c
+++ b/src/topology/text.c
@@ -2,14 +2,15 @@

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2.9.3

1.478 datatype 1.4.01

1.479 libpng 1.6.36 6
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* DNS resolver (dirmngr/dns.c)

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Jean-loup Gailly        Mark Adler
jloup@gzip.org          madler@alumni.caltech.edu

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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 preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

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

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0. This License Agreement applies to any software library which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Library General Public License (also called "this License"). Each licensee is addressed as "you".

A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.)
"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) The modified work must itself be a software library.

b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.
(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

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

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

b) 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.

7. You may place library facilities that are a work based on the
Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above,

b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

8. You may not copy, modify, sublicense, link with, or distribute the Library except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, link with, or distribute the Library is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

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license would not permit royalty-free redistribution of the Library by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply, and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

12. If the distribution and/or use of the Library is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Library under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

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Each version is given a distinguishing version number. If the Library specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Library does not specify a license version number, you may choose any version ever published by the Free Software Foundation.

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END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest
possible use to the public, we recommend making it free software that
everyone can redistribute and change. You can do so by permitting
redistribution under these terms (or, alternatively, under the terms of the
ordinary General Public License).

To apply these terms, attach the following notices to the library. It is
safest to attach them to the start of each source file to most effectively
convey the exclusion of warranty; and each file should have at least the
"copyright" line and a pointer to where the full notice is found.

<one line to give the library's name and a brief idea of what it does.>
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Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the library, if
necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the
library `Frob' (a library for tweaking knobs) written by James Random Hacker.

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

That's all there is to it!

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Version 3, 29 June 2007

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When we speak of free software, we are referring to freedom, not
price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for them if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs, and that you know you can do these things.

To protect your rights, we need to prevent others from denying you these rights or asking you to surrender the rights. Therefore, you have certain responsibilities if you distribute copies of the software, or if you modify it: responsibilities to respect the freedom of others.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must pass on to the recipients the same freedoms that you received. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

Developers that use the GNU GPL protect your rights with two steps: (1) assert copyright on the software, and (2) offer you this License giving you legal permission to copy, distribute and/or modify it.

For the developers' and authors' protection, the GPL clearly explains that there is no warranty for this free software. For both users' and authors' sake, the GPL requires that modified versions be marked as changed, so that their problems will not be attributed erroneously to authors of previous versions.

Some devices are designed to deny users access to install or run modified versions of the software inside them, although the manufacturer can do so. This is fundamentally incompatible with the aim of protecting users' freedom to change the software. The systematic pattern of such abuse occurs in the area of products for individuals to use, which is precisely where it is most unacceptable. Therefore, we have designed this version of the GPL to prohibit the practice for those products. If such problems arise substantially in other domains, we stand ready to extend this provision to those domains in future versions of the GPL, as needed to protect the freedom of users.

Finally, every program is threatened constantly by software patents. States should not allow patents to restrict development and use of software on general-purpose computers, but in those that do, we wish to avoid the special danger that patents applied to a free program could make it effectively proprietary. To prevent this, the GPL assures that patents cannot be used to render the program non-free.

The precise terms and conditions for copying, distribution and modification follow.
 TERMS AND CONDITIONS

0. Definitions.

"This License" refers to version 3 of the GNU General Public License.

"Copyright" also means copyright-like laws that apply to other kinds of works, such as semiconductor masks.

"The Program" refers to any copyrightable work licensed under this License. Each licensee is addressed as "you". "Licensees" and "recipients" may be individuals or organizations.

To "modify" a work means to copy from or adapt all or part of the work in a fashion requiring copyright permission, other than the making of an exact copy. The resulting work is called a "modified version" of the earlier work or a work "based on" the earlier work.

A "covered work" means either the unmodified Program or a work based on the Program.

To "propagate" a work means to do anything with it that, without permission, would make you directly or secondarily liable for infringement under applicable copyright law, except executing it on a computer or modifying a private copy. Propagation includes copying, distribution (with or without modification), making available to the public, and in some countries other activities as well.

To "convey" a work means any kind of propagation that enables other parties to make or receive copies. Mere interaction with a user through a computer network, with no transfer of a copy, is not conveying.

An interactive user interface displays "Appropriate Legal Notices" to the extent that it includes a convenient and prominently visible feature that (1) displays an appropriate copyright notice, and (2) tells the user that there is no warranty for the work (except to the extent that warranties are provided), that licensees may convey the work under this License, and how to view a copy of this License. If the interface presents a list of user commands or options, such as a menu, a prominent item in the list meets this criterion.


The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source form of a work.

A "Standard Interface" means an interface that either is an official
standard defined by a recognized standards body, or, in the case of interfaces specified for a particular programming language, one that is widely used among developers working in that language.

The "System Libraries" of an executable work include anything, other than the work as a whole, that (a) is included in the normal form of packaging a Major Component, but which is not part of that Major Component, and (b) serves only to enable use of the work with that Major Component, or to implement a Standard Interface for which an implementation is available to the public in source code form. A "Major Component", in this context, means a major essential component (kernel, window system, and so on) of the specific operating system (if any) on which the executable work runs, or a compiler used to produce the work, or an object code interpreter used to run it.

The "Corresponding Source" for a work in object code form means all the source code needed to generate, install, and (for an executable work) run the object code and to modify the work, including scripts to control those activities. However, it does not include the work's System Libraries, or general-purpose tools or generally available free programs which are used unmodified in performing those activities but which are not part of the work. For example, Corresponding Source includes interface definition files associated with source files for the work, and the source code for shared libraries and dynamically linked subprograms that the work is specifically designed to require, such as by intimate data communication or control flow between those subprograms and other parts of the work.

The Corresponding Source need not include anything that users can regenerate automatically from other parts of the Corresponding Source.

The Corresponding Source for a work in source code form is that same work.

2. Basic Permissions.

All rights granted under this License are granted for the term of copyright on the Program, and are irrevocable provided the stated conditions are met. This License explicitly affirms your unlimited permission to run the unmodified Program. The output from running a covered work is covered by this License only if the output, given its content, constitutes a covered work. This License acknowledges your rights of fair use or other equivalent, as provided by copyright law.

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Conveying under any other circumstances is permitted solely under the conditions stated below. Sublicensing is not allowed; section 10 makes it unnecessary.

3. Protecting Users' Legal Rights From Anti-Circumvention Law.

No covered work shall be deemed part of an effective technological measure under any applicable law fulfilling obligations under article 11 of the WIPO copyright treaty adopted on 20 December 1996, or similar laws prohibiting or restricting circumvention of such measures.

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You may charge any price or no price for each copy that you convey, and you may offer support or warranty protection for a fee.

5. Conveying Modified Source Versions.

You may convey a work based on the Program, or the modifications to produce it from the Program, in the form of source code under the terms of section 4, provided that you also meet all of these conditions:

a) The work must carry prominent notices stating that you modified
it, and giving a relevant date.

b) The work must carry prominent notices stating that it is released under this License and any conditions added under section 7. This requirement modifies the requirement in section 4 to "keep intact all notices".

c) You must license the entire work, as a whole, under this License to anyone who comes into possession of a copy. This License will therefore apply, along with any applicable section 7 additional terms, to the whole of the work, and all its parts, regardless of how they are packaged. This License gives no permission to license the work in any other way, but it does not invalidate such permission if you have separately received it.

d) If the work has interactive user interfaces, each must display Appropriate Legal Notices; however, if the Program has interactive interfaces that do not display Appropriate Legal Notices, your work need not make them do so.

A compilation of a covered work with other separate and independent works, which are not by their nature extensions of the covered work, and which are not combined with it such as to form a larger program, in or on a volume of a storage or distribution medium, is called an "aggregate" if the compilation and its resulting copyright are not used to limit the access or legal rights of the compilation's users beyond what the individual works permit. Inclusion of a covered work in an aggregate does not cause this License to apply to the other parts of the aggregate.

6. Conveying Non-Source Forms.

You may convey a covered work in object code form under the terms of sections 4 and 5, provided that you also convey the machine-readable Corresponding Source under the terms of this License, in one of these ways:

a) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by the Corresponding Source fixed on a durable physical medium customarily used for software interchange.

b) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by a written offer, valid for at least three years and valid for as long as you offer spare parts or customer support for that product model, to give anyone who possesses the object code either (1) a copy of the Corresponding Source for all the software in the
product that is covered by this License, on a durable physical medium customarily used for software interchange, for a price no more than your reasonable cost of physically performing this conveying of source, or (2) access to copy the Corresponding Source from a network server at no charge.

c) Convey individual copies of the object code with a copy of the written offer to provide the Corresponding Source. This alternative is allowed only occasionally and noncommercially, and only if you received the object code with such an offer, in accord with subsection 6b.

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.

e) Convey the object code using peer-to-peer transmission, provided you inform other peers where the object code and Corresponding Source of the work are being offered to the general public at no charge under subsection 6d.

A separable portion of the object code, whose source code is excluded from the Corresponding Source as a System Library, need not be included in conveying the object code work.

A "User Product" is either (1) a "consumer product", which means any tangible personal property which is normally used for personal, family, or household purposes, or (2) anything designed or sold for incorporation into a dwelling. In determining whether a product is a consumer product, doubtful cases shall be resolved in favor of coverage. For a particular product received by a particular user, "normally used" refers to a typical or common use of that class of product, regardless of the status of the particular user or of the way in which the particular user actually uses, or expects or is expected to use, the product. A product is a consumer product regardless of whether the product has substantial commercial, industrial or non-consumer uses, unless such uses represent the only significant mode of use of the product.

"Installation Information" for a User Product means any methods,
procedures, authorization keys, or other information required to install and execute modified versions of a covered work in that User Product from a modified version of its Corresponding Source. The information must suffice to ensure that the continued functioning of the modified object code is in no case prevented or interfered with solely because modification has been made.

If you convey an object code work under this section in, or with, or specifically for use in, a User Product, and the conveying occurs as part of a transaction in which the right of possession and use of the User Product is transferred to the recipient in perpetuity or for a fixed term (regardless of how the transaction is characterized), the Corresponding Source conveyed under this section must be accompanied by the Installation Information. But this requirement does not apply if neither you nor any third party retains the ability to install modified object code on the User Product (for example, the work has been installed in ROM).

The requirement to provide Installation Information does not include a requirement to continue to provide support service, warranty, or updates for a work that has been modified or installed by the recipient, or for the User Product in which it has been modified or installed. Access to a network may be denied when the modification itself materially and adversely affects the operation of the network or violates the rules and protocols for communication across the network.

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1.515 rx-netty-servo 0.4.9

1.516 debian-archive-keyring 2017.5+deb9u1

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1.517 jaxb-core 2.2.11

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1.518 sensible-utils 0.0.9+deb9u1

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1.522 junit 4.10

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* Author: Jim Fulton, MIT The Open Group

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Version: 4.1

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* src/svg.js - Code to embed SVG into normal HTML for browsers that natively support SVG adapted from Sam
  Ruby's code - http://intertwingly.net/blog/2006/12/05/HOWTO-Embed-MathML-and-SVG-into-HTML4 - currently
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* src/svg.js - DOMContentLoaded code adapted from Dean Edwards blog article
  (http://dean.edwards.name/weblog/2005/09/busted/)
* src/svg.js - GUID generation code in guid() adapted from blog post at http://note19.com/2007/05/27/javascript-guid-generator/

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Eclipse

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* org.eclipse.jetty.orbit:org.eclipse.jdt.core

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

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

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Oracle

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

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

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Oracle OpenJDK

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

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module is selected.

* java.sun.security.ssl

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

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OW2

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

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

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Apache

The following artifacts are ASL2 licensed.

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

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MortBay

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

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

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.

1.545 open-ws 1.5.6

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1.547 utah-parser 1.0.1

1.548 powermock-api-mockito2 2.0.0

1.549 libcap-ng 0.7.9-2
1.549.1 Available under license :

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  jar/org/slf4j/impl/Log4jMDCAdapter.java
* /opt/ws_local/PERMITS_SQL/1032656170_1594238129.34/0/slf4j-log4j12-1-7-25-sources-1-
  jar/org/slf4j/impl/Log4jLoggerAdapter.java
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  jar/org/slf4j/impl/StaticMDCBinder.java
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1.559 gson 2.8.6
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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/ContextConfigurationAttributes.java
* /opt/ws_local/PERMITS_SQL/1033212718_1591432933.35/0/spring-test-5-2-3-release-sources-jar/org/springframework/test/context/support/ContextConfigurationAttributes.java
* /opt/ws_local/PERMITS_SQL/1033212718_1591432933.35/0/spring-test-5-2-3-release-sources-jar/org/springframework/test/context/support/ContextConfigurationAttributes.java
* /opt.ws_local/PERMITS_SQL/1033212718_1591432933.35/0/spring-test-5-2-3-release-sources-jar/
Found in path(s):

*/opt/ws_local/PERMITS_SQL/1033212718_1591432933.35/0/spring-test-5-2-3-release-sources-jar/org/springframework/test/context/web/GenericXmlWebContextLoader.java
*/opt/ws_local/PERMITS_SQL/1033212718_1591432933.35/0/spring-test-5-2-3-release-sources-jar/org/springframework/test/context/web/ResponseActions.java
*/opt/ws_local/PERMITS_SQL/1033212718_1591432933.35/0/spring-test-5-2-3-release-sources-jar/org/springframework/test/context/junit4/statements/SpringRepeat.java
*/opt/ws_local/PERMITS_SQL/1033212718_1591432933.35/0/spring-test-5-2-3-release-sources-jar/org/springframework/test/context/junit4/statements/RunBeforeTestClassCallbacks.java
*/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/web/servlet/DefaultRedirectResultMatcher.java
* /opt/ws_local/PERMITS_SQL/1033212718_1591432933.35/0/spring-test-5-2-3-release-sources-jar/org/springframework/test/web/context/BeforeTestMethodEvent.java
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/**
**
* Kotlin compliant `WebTestClient.BodySpec` for expectations on the response body decoded
* to a single Object, see [KT-5464](https://youtrack.jetbrains.com/issue/KT-5464) for
* more details.
* @since 5.0.6
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1033212718_1591432933.35/0/spring-test-5-2-3-release-sources-
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* /opt/ws_local/PERMITS_SQL/1033212718_1591432933.35/0/spring-test-5-2-3-release-sources-jar/org/springframework/test/context/support/DelegatingSmartContextLoader.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/GenericPropertiesContextLoader.java
* /opt/ws_local/PERMITS_SQL/1033212718_1591432933.35/0/spring-test-5-2-3-release-sources-jar/org/springframework/test/context/support/GenericXmlContextLoader.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/MergedTestPropertySources.java

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1.568 flatpickr 4.6.2

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1.569 Jackson Dataformat-XML 2.8.8

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1.570 Isomorphic-fetch 2.2.1

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1.571 conv-lite 0.4.24

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1.572 jline 3.12.1

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1.573 loose-envify 1.4.0

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1.574 aspect-j 1.9.2

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1.575 d3 3.5.17

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Ajay Joshi <jaj@google.com>
Balzs Dn <balazs.dan@gmail.com>
Bharat Mediratta <bharat@menalto.com>
Chandler Carruth <chandlerc@google.com>
Chris Prince <cprince@google.com>
Chris Taylor <taylorc@google.com>
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Ji Sigursson <joi@google.com>
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Upstream-Contact: Yann Collet <Cyan4973@github.com>

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* /opt/ws_local/PERMITS_SQL/1018366213_1591904026.58/0/asm-5-0-3-sources-
  jar/org/objectweb/asm/ClassVisitor.java
* /opt/ws_local/PERMITS_SQL/1018366213_1591904026.58/0/asm-5-0-3-sources-
  jar/org/objectweb/asm/MethodWriter.java
* /opt/ws_local/PERMITS_SQL/1018366213_1591904026.58/0/asm-5-0-3-sources-
  jar/org/objectweb/asm/tree/TableSwitchInsnNode.java
* /opt/ws_local/PERMITS_SQL/1018366213_1591904026.58/0/asm-5-0-3-sources-
  jar/org/objectweb/asm/util/CheckAnnotationAdapter.java
* /opt/ws_local/PERMITS_SQL/1018366213_1591904026.58/0/asm-5-0-3-sources-
  jar/org/objectweb/asm/util/CheckFieldAdapter.java
* /opt/ws_local/PERMITS_SQL/1018366213_1591904026.58/0/asm-5-0-3-sources-
  jar/org/objectweb/asm/Handle.java
* /opt/ws_local/PERMITS_SQL/1018366213_1591904026.58/0/asm-5-0-3-sources-
  jar/org/objectweb/asm/tree/LdcInsnNode.java
* /opt/ws_local/PERMITS_SQL/1018366213_1591904026.58/0/asm-5-0-3-sources-
  jar/org/objectweb/asm/tree/LabelNode.java
* /opt/ws_local/PERMITS_SQL/1018366213_1591904026.58/0/asm-5-0-3-sources-
  jar/org/objectweb/asm/commons/InstructionAdapter.java
* /opt/ws_local/PERMITS_SQL/1018366213_1591904026.58/0/asm-5-0-3-sources-
  jar/org/objectweb/asm/Item.java
* /opt/ws_local/PERMITS_SQL/1018366213_1591904026.58/0/asm-5-0-3-sources-
  jar/org/objectweb/asm/commons/RemappingSignatureAdapter.java
* /opt/ws_local/PERMITS_SQL/1018366213_1591904026.58/0/asm-5-0-3-sources-
  jar/org/objectweb/asm/util/CheckClassAdapter.java
* /opt/ws_local/PERMITS_SQL/1018366213_1591904026.58/0/asm-5-0-3-sources-
  jar/org/objectweb/asm/optimizer/MethodOptimizer.java
* /opt/ws_local/PERMITS_SQL/1018366213_1591904026.58/0/asm-5-0-3-sources-
  jar/org/objectweb/asm/tree/TableSwitchInsnNode.java
* /opt/ws_local/PERMITS_SQL/1018366213_1591904026.58/0/asm-5-0-3-sources-
  jar/org/objectweb/asm/util/CheckAnnotationAdapter.java
* /opt/ws_local/PERMITS_SQL/1018366213_1591904026.58/0/asm-5-0-3-sources-
  jar/org/objectweb/asm/util/CheckFieldAdapter.java
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  jar/org/objectweb/asm/tree/LdcInsnNode.java
* /opt/ws_local/PERMITS_SQL/1018366213_1591904026.58/0/asm-5-0-3-sources-
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jar/org/objectweb/asm/tree/IntInsnNode.java
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* /opt/ws_local/PERMITS_SQL/1018366213_1591904026.58/0/asm-5-0-3-sources-
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* /opt/ws_local/PERMITS_SQL/1018366213_1591904026.58/0/asm-5-0-3-sources-
jar/org/objectweb/asm/tree/analysis/Interpreter.java
* /opt/ws_local/PERMITS_SQL/1018366213_1591904026.58/0/asm-5-0-3-sources-
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* /opt/ws_local/PERMITS_SQL/1018366213_1591904026.58/0/asm-5-0-3-sources-
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jar/org/objectweb/asm/tree/TypeInsnNode.java
* /opt/ws_local/PERMITS_SQL/1018366213_1591904026.58/0/asm-5-0-3-sources-
jar/org/objectweb/asm/tree/MultiANewArrayInsnNode.java
* /opt/ws_local/PERMITS_SQL/1018366213_1591904026.58/0/asm-5-0-3-sources-
jar/org/objectweb/asm/tree/ParameterNode.java
* /opt/ws_local/PERMITS_SQL/1018366213_1591904026.58/0/asm-5-0-3-sources-
jar/org/objectweb/asm/signature/SignatureWriter.java
* /opt/ws_local/PERMITS_SQL/1018366213_1591904026.58/0/asm-5-0-3-sources-
jar/org/objectweb/asm/commons/TableSwitchGenerator.java
* /opt/ws_local/PERMITS_SQL/1018366213_1591904026.58/0/asm-5-0-3-sources-
jar/org/objectweb/asm/util/Printer.java
* /opt/ws_local/PERMITS_SQL/1018366213_1591904026.58/0/asm-5-0-3-sources-
jar/org/objectweb/asm/tree/InncInsnNode.java
* /opt/ws_local/PERMITS_SQL/1018366213_1591904026.58/0/asm-5-0-3-sources-
jar/org/objectweb/asm/tree/LineNumberNode.java
* /opt/ws_local/PERMITS_SQL/1018366213_1591904026.58/0/asm-5-0-3-sources-
jar/org/objectweb/asm/tree/MethodInsnNode.java
* /opt/ws_local/PERMITS_SQL/1018366213_1591904026.58/0/asm-5-0-3-sources-
jar/org/objectweb/asm/commons/AdviceAdapter.java
* /opt/ws_local/PERMITS_SQL/1018366213_1591904026.58/0/asm-5-0-3-sources-
jar/org/objectweb/asm/commons/LocalVariablesSorter.java
* /opt/ws_local/PERMITS_SQL/1018366213_1591904026.58/0/asm-5-0-3-sources-
jar/org/objectweb/asm/optimizer/ClassConstantsCollector.java
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jar/org/objectweb/asm/tree/TypeInsnNode.java
* /opt/ws_local/PERMITS_SQL/1018366213_1591904026.58/0/asm-5-0-3-sources-
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jar/org/objectweb/asm/tree/FieldInsnNode.java
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* /opt/ws_local/PERMITS_SQL/1018366213_1591904026.58/0/asm-5-0-3-sources-
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jar/org/objectweb/asm/Label.java
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* /opt/ws_local/PERMITS_SQL/1018366213_1591904026.58/0/asm-5-0-3-sources-jar/org/objectweb/asm/commons/CodeSizeEvaluator.java
* /opt/ws_local/PERMITS_SQL/1018366213_1591904026.58/0/asm-5-0-3-sources-jar/org/objectweb/asm/util/CheckSignatureAdapter.java
* /opt/ws_local/PERMITS_SQL/1018366213_1591904026.58/0/asm-5-0-3-sources-jar/org/objectweb/asm/tree/analysis/AnalyzerException.java
* /opt/ws_local/PERMITS_SQL/1018366213_1591904026.58/0/asm-5-0-3-sources-jar/org/objectweb/asm/commons/SerialVersionUIDAdder.java
* /opt/ws_local/PERMITS_SQL/1018366213_1591904026.58/0/asm-5-0-3-sources-jar/org/objectweb/asm/util/ASMifier.java
* /opt/ws_local/PERMITS_SQL/1018366213_1591904026.58/0/asm-5-0-3-sources-jar/org/objectweb/asm/tree/FrameNode.java
* /opt/ws_local/PERMITS_SQL/1018366213_1591904026.58/0/asm-5-0-3-sources-jar/org/objectweb/asm/tree/TypeAnnotationNode.java
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* /opt/ws_local/PERMITS_SQL/1018366213_1591904026.58/0/asm-5-0-3-sources-jar/org/objectweb/asm/signature/SignatureVisitor.java
* /opt/ws_local/PERMITS_SQL/1018366213_1591904026.58/0/asm-5-0-3-sources-jar/org/objectweb/asm/tree/analysis/SourceInterpreter.java
* /opt/ws_local/PERMITS_SQL/1018366213_1591904026.58/0/asm-5-0-3-sources-jar/org/objectweb/asm/optimizer/ClassOptimizer.java
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* /opt/ws_local/PERMITS_SQL/1018366213_1591904026.58/0/asm-5-0-3-sources-jar/org/objectweb/asm/tree/InsnList.java
* /opt/ws_local/PERMITS_SQL/1018366213_1591904026.58/0/asm-5-0-3-sources-jar/org/objectweb/asm/optimizer/AnnotationConstantsCollector.java
* /opt/ws_local/PERMITS_SQL/1018366213_1591904026.58/0/asm-5-0-3-sources-jar/org/objectweb/asm/tree/InnerClassNode.java
* /opt/ws_local/PERMITS_SQL/1018366213_1591904026.58/0/asm-5-0-3-sources-jar/org/objectweb/asm/util/TraceMethodVisitor.java
* /opt/ws_local/PERMITS_SQL/1018366213_1591904026.58/0/asm-5-0-3-sources-jar/org/objectweb/asm/commons/Method.java
* /opt/ws_local/PERMITS_SQL/1018366213_1591904026.58/0/asm-5-0-3-sources-jar/org/objectweb/asm/Attribute.java
* /opt/ws_local/PERMITS_SQL/1018366213_1591904026.58/0/asm-5-0-3-sources-jar/org/objectweb/asm/tree/analysis/Frame.java
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/**
 * Creates a new {@link AnalyzerAdapter}. <i>Subclasses must not use this
 * constructor</i>. Instead, they must use the
 * {@link #AnalyzerAdapter(int, String, int, String, String, MethodVisitor)}
 * version.
 *
 * @param owner
 *            the owner's class name.
 * @param access
 *            the method's access flags (see {@link Opcodes}).
 * @param name
 *            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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* /opt/ws_local/PERMITS_SQL/1018366213_1591904026.58/0/asm-5-0-3-sources-
jar/org/objectweb/asm/commons/AnalyzerAdapter.java
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* /opt/ws_local/PERMITS_SQL/1018366213_1591904026.58/0/asm-5-0-3-sources-
  * jar/org/objectweb.asm/xml/SAXClassAdapter.java
* /opt/ws_local/PERMITS_SQL/1018366213_1591904026.58/0/asm-5-0-3-sources-
  * jar/org/objectweb.asm/xml/SAXCodeAdapter.java
* /opt/ws_local/PERMITS_SQL/1018366213_1591904026.58/0/asm-5-0-3-sources-
  * jar/org/objectweb.asm/xml/SAXAnnotationAdapter.java
* /opt/ws_local/PERMITS_SQL/1018366213_1591904026.58/0/asm-5-0-3-sources-
  * jar/org/objectweb.asm/xml/ASMContentHandler.java
* /opt/ws_local/PERMITS_SQL/1018366213_1591904026.58/0/asm-5-0-3-sources-
  * jar/org/objectweb.asm/xml/SAXAdapter.java
* /opt/ws_local/PERMITS_SQL/1018366213_1591904026.58/0/asm-5-0-3-sources-
  * jar/org/objectweb.asm/xml/Processor.java
* /opt/ws_local/PERMITS_SQL/1018366213_1591904026.58/0/asm-5-0-3-sources-
  * jar/org/objectweb.asm/xml/SAXFieldAdapter.java

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*/

/**
 * Constructs a new {@link LocalVariableAnnotationNode}. <i>Subclasses must
 * not use this constructor</i>. Instead, they must use the
 * {@link #LocalVariableAnnotationNode(int, TypePath, LabelNode[], LabelNode[], int[], String)}
 * version.
 *
 * @param typeRef
 * a reference to the annotated type. See {@link TypeReference}.
 * @param typePath
 * the path to the annotated type argument, wildcard bound, array
 * element type, or static inner type within 'typeRef'. May be
 * null if the annotation targets 'typeRef' as a whole.
 * @param start
 * the fist instructions corresponding to the continuous ranges
 * that make the scope of this local variable (inclusive).
 * @param end
 * the last instructions corresponding to the continuous ranges
 * that make the scope of this local variable (exclusive). This
 * array must have the same size as the 'start' array.
 * @param index
 * the local variable's index in each range. This array must have
 * the same size as the 'start' array.
 * @param desc
 * the class descriptor of the annotation class.
 */

Found in path(s):
*/opt/ws_local/PERMITS_SQL/1018366213_1591904026.58/0/asm-5-0-3-sources-jar/org/objectweb/asm/tree/LocalVariableAnnotationNode.java
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/**
 * Constructs a new {@link ClassNode}. <i>Subclasses must not use this
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 * version.
 *
 * @throws IllegalStateException
 *             If a subclass calls this constructor.
 */

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/**
 * Creates a new JSRInliner. <i>Subclasses must not use this</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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/**
* Creates a new {@link GeneratorAdapter}. <i>Subclasses must not use this
* constructor</i>. Instead, they must use the
* {@link GeneratorAdapter(int, MethodVisitor, int, String, String)}
* version.
*
* @param mv
*    the method visitor to which this adapter delegates calls.
* @param access
*    the method's access flags (see {@link Opcodes}).
* @param name
*    the method's name.
* @param desc
*    the method's descriptor (see {@link Type Type}).
* @throws IllegalStateException
*    If a subclass calls this constructor.
*/
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* 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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OW2
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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.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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Source code for a work means the preferred form of the work for making modifications to it. For an executable file, complete source code means all the source code for all modules it contains; but, as a special exception, it need not include source code for modules which are standard libraries that accompany the operating system on which the executable file runs, or for standard header files or definitions files that
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terms.

To do so, attach the following notices to the program. It is safest to
attach them to the start of each source file to most effectively convey
the exclusion of warranty; and each file should have at least the
"copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
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<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

That's all there is to it!

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[This is the first released version of the library GPL. It is numbered 2 because it goes with version 2 of the ordinary GPL.]
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The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

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

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

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

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

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b) You must cause the files modified to carry prominent notices
   stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no
   charge to all third parties under the terms of this License.

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

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

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If distribution of object code is made by offering access to copy
from a designated place, then offering equivalent access to copy the
source code from the same place satisfies the requirement to
distribute the source code, even though third parties are not
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5. A program that contains no derivative of any portion of the
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library". The executable is therefore covered by this License.
Section 6 states terms for distribution of such executables.

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

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1.597 reactor-core 3.3.2

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1.599 jackson-databind 2.9.7
1.599.1 Available under license:

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Jackson is a high-performance, Free/Open Source JSON processing library. It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has been in development since 2007. It is currently developed by a community of developers, as well as supported commercially by FasterXML.com.

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1.601 selinux 2.6-3+b3
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Ajay Joshi <jaj@google.com>
Balzs Dn <balazs.dan@gmail.com>
Bharat Mediratta <bharat@menalto.com>
Chandler Carruth <chandlerc@google.com>
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Keir Mierle <mierle@gmail.com>
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1.624 openssh 7.4p1-10+deb9u7

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/* OPENBSD ORIGINAL: sys/sys/poll.h */

#if !defined(HAVE_POLL) && !defined(HAVE_POLL_H)
#defineCompat_POLL_H_
#defineCompat_POLL_H_

typedef struct pollfd {
    int fd;
    short events;
    short revents;
} pollfd_t;

typedef unsigned int nfds_t;

#define POLLIN 0x0001
#define POLLOUT 0x0004
#define POLLERR 0x0008
#define POLLHUP 0x0010
#define POLLNVAL 0x0020
#endif

#define POLLPRI 0x0002
#define POLLRDNORM 0x0040
#define POLLNORM POLLRDNORM
#define POLLWRNORM POLLOUT
#define POLLRDBAND 0x0080
#define POLLWRBAND 0x0100

#define INFTIM (-1) /* not standard */

int poll(struct pollfd *, nfds_t, int);
#endif /* !_COMPAT_POLL_H_ */
#endif /* !HAVE_POLL_H */

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*
*/

#ifndef _BSD_WAITPID_H
#define _BSD_WAITPID_H

#ifndef HAVE_WAITPID
/* Clean out any potential issues */
#undef WIFEXITED
#undef WIFSTOPPED
#undef WIFSIGNALED

/* Define required functions to mimic a POSIX look and feel */
#define _W_INT(w) (*(int *)&(w)) /* convert union wait to int */
#define WIFEXITED(w) (!(_W_INT(w) & 0377))
#define WIFSTOPPED(w) ((_W_INT(w)) & 0100)
#define WIFSIGNALED(w) (!WIFEXITED(w) && !WIFSTOPPED(w))
#define WEXITSTATUS(w) (int)(WIFEXITED(w) ? ((_W_INT(w) >> 8) & 0377) : -1)
#define WTERMSIG(w) (int)(WIFSIGNALED(w) ? (_W_INT(w) & 0177) : -1)
#define WCOREFLAG 0x80
#define WCOREDUMP(w) ((_W_INT(w)) & WCOREFLAG)

/* Prototype */
pid_t waitpid(int, int *, int);

#endif /* HAVE_WAITPID */
#endif /* _BSD_WAITPID_H */

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*/

#ifndef HAVE_SETRESGID
int setresgid(gid_t, gid_t, gid_t);
#endif
#ifndef HAVE_SETRESUID
int setresuid(uid_t, uid_t, uid_t);
#endif
1.625 cipher-base 1.0.4
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1.638 jsonassert 1.5.0

1.639 perl 5.24.1 3+deb9u5
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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';
}
else

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

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

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

---
abstract: 'Build and install Perl modules'
author:
  - 'Ken Williams <kwilliams@cpan.org>'
  - "Development questions, bug reports, and patches should be sent to
    the Module-Build mailing list at <module-build@perl.org>.'
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

1.640 spring-cloud-starter-consul 2.2.0
1.640.1 Available under license:
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1.646 libcap-ng 0.7.7-3+b1

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1.647 deep-diff 0.3.8

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1.648 spring-retry 1.2.5

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1.649 tiny-emitter 1.2.0

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1.650 safer-buffer 2.1.2

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1.651 jakarta-validation-api 2.0.2

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1.652 sqlite 3.27.2 3

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

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org.ow2.asm:asm-commons
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org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util

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

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The following artifacts are CDDL + GPLv2 with classpath exception.

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

org.eclipse.jetty.toolchain:jetty-schemas

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1.657 swagger 1.5.20

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1.659 jquery-ui-dist 1.12.1

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```
var ab = (new Int8Array(5)).buffer;
var sliced = sliceBuffer(ab, 1, 3);
sliced = sliceBuffer(ab, 1);
```

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* /opt/ws_local/PERMITS_SQL/1047774230_1591430399.74/0/arraybuffer-slice-0-0-6-3-
tgz/package/README.md

1.662 jetty-io 9.4.26.v20200117

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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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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
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org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
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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/util/atomic/SpscExactAtomicArrayQueue.java
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* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/observers/AssertableSubscriber.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/observers/SafeCompletableSubscriber.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/operators/CompletableFlatMapSingleToCompletable.java
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* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/operators/OnSubscribeCreate.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/plugins/RxJavaSingleExecutionHookDefault.java
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* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/operators/OperatorToObservableList.java
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* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/util/SuppressAnimalSniffer.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/operators/OnSubscribeFromCallable.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/schedulers/SchedulerLifecycle.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/operators/OnSubscribeReduceSeed.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/operators/SingleOperatorOnErrorResumeNext.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/operators/OnSubscribeConcatMap.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/operators/DeferredScalarSubscriber.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/operators/OnSubscribeCollect.java
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* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/operators/OnSubscribeConcatMap.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/operators/DeferredScalarSubscriber.java
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* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-
jar/rx/internal/operators/SingleOnSubscribeUsing.java
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* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources.jar/rx/internal/operators/OnSubscribeTakeLastOne.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources.jar/rx/internal/operators/OnSubscribePublishMulticast.java
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* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources.jar/rx/internal/operators/OnSubscribeTimerPeriodically.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources.jar/rx/internal/operators/OperatorBufferWithSingleObservable.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources.jar/rx/internal/operators/OnSubscribeTimerOnce.java
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* /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
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/operators/OperatorSampleWithTime.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/operators/OperatorWindowWithTime.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources.jar/rx/functions/Actions.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/operators/OperatorSkipUntil.java
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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
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 * Scheduler.newThreadScheduler) all use this hook, so it's a convenient way to
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core/src/main/java/org/jctools/queues/LinkedQueueNode.java
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ar/jar/org/springframework/scheduling/quartz/JobMethodInvocationFailedException.java
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* /opt/ws_local/PERMITS_SQL/1026753736_1590037547.45/0/spring-context-support-5-2-3-release-sources-jar/org/springframework/ui/freemarker/FreeMarkerConfigurationFactoryBean.java
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Jackson is a high-performance, Free/Open Source JSON processing library. It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has been in development since 2007. It is currently developed by a community of developers, as well as supported commercially by FasterXML.com.

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1.709 split-js 1.5.11

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1.711 libgcrypt 1.7.6 2+deb9u3

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<eric@debian.org>, James Westby <jw+debian@jameswestby.net>

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Authors with a FSF copyright assignment

LIBGCRYPT Werner Koch 2001-06-07
Assigns past and future changes.
Assignment for future changes terminated on 2012-12-04.
wk@gnupg.org
Designed and implemented Libgcrypt.

GNUPG Matthew Skala 1998-08-10
Disclaims changes.
mskala@ansuz.sooke.bc.ca
Wrote cipher/twofish.c.

GNUPG Natural Resources Canada 1998-08-11
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/encr-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/mpi-h-mul3.S, mpi/hppa1.1/udiv-qrnd.S, mpi/hppa1.1/mpi-mul2.S, mpi/hppa1.1/mpi-mul1.S, mpi/Makefile.am, tests/prime.c, tests/register.c, tests/ac.c, tests/basic.c, tests/tsexp.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 Miller 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
phcoder@gmail.com
(cipher/serpent.c)

Authors with a DCO
==================
Andrei Scherer <andsch@inbox.com>
2014-08-22:BF7CEF794F9.000003F0andsch@inbox.com:

Christian Aistleitner <christian@quelltextlich.at>
2013-02-26:20130226110144.GA12678@quelltextlich.at:

Christian Grothoff <christian@grothoff.org>
2013-03-21:514B5D8A.6040705@grothoff.org:

Dmitry Eremin-Solenikov <dbaryshkov@gmail.com>
2013-07-13:20130713144407.GA27334@fangorn.rup.mentorg.com:

Dmitry Kasatkin <dmitry.kasatkin@intel.com>
2012-12-14:50CAE2DB.80302@intel.com:

Jrmie Courrges-Anglas <jca@wxcvbn.org>
2016-05-26:87bn3ssg0.fsf@ritchiewxcvbn.org

Jussi Kivilinna <jussi.kivilinna@mbnet.fi>
2012-11-15:20121115172331.150537dzb5t6jmy8@www.dalek.fi:

Jussi Kivilinna <jussi.kivilinna@iki.fi>
2013-05-06:5186720A.4090101@iki.fi:

Markus Teich <markus dot teich at stusta dot mhn dot de>
2014-10-08:20141008180509.GA2770@trolle:

Milan Broz <gmazyland@gmail.com>
2014-01-13:52D44CC6.4050707@gmail.com:

Peter Wu <peter@lekensteyn.nl>
2015-07-22:20150722191325.GA8113@al:

Rafal Carr <funman@videolan.org>
2012-04-20:4F91988B.1080502@videolan.org:
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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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# 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

* [Basic demo](http://ionden.com/a/plugins/ion.rangeSlider/demo.html)
* [Advanced demo](http://ionden.com/a/plugins/ion.rangeSlider/demo_advanced.html)
* [Interactions demo](http://ionden.com/a/plugins/ion.rangeSlider/demo_interactions.html)

## GitHub

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

## Update history


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/*! normalize.css v3.0.2 | MIT License | git.io/normalize */

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1.715 swagger-annotations 1.5.22
1.715.1 Available under license:

```java
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 "";
```

1.716 servlet-api 4.0.1

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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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# Constant-time SSSE3 AES core implementation.
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#
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1.725 angular-platform-browser 9.0.7

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

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

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Oracle OpenJDK

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

* java.sun.security.ssl

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

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OW2

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

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

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Apache

The following artifacts are ASL2 licensed.

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

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MortBay

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

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

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.
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1.728 init-system-helpers 1.56+nmu1
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1.738 d3-tip 0.6.8

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1.755 parseuri 0.0.5

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1.756 angular-uuid-secure 0.0.6

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1.757 spring-security-jwt 1.0.10

1.758 brave-instrumentation-httpclient 5.9.0

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1.763 hostname 3.21
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hostname -- set the host name or show the host/domain name

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1.765 spring-cloud-sleuth-core 2.2.0

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src/bdf/bdfdrivr.c
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1.777 python-defaults 2.7.13 2

1.777.1 Available under license:
This is the Debian GNU/Linux prepackaged version of the Python programming
language. Python was written by Guido van Rossum <guido@cwi.nl> and others.

This package was put together by Klee Dienes <klee@debian.org> from
sources from ftp.python.org:/pub/python, based on the Debianization by
the previous maintainers Bernd S. Brentrup <bsb@uni-muenster.de> and
Bruce Perens.

Current maintainer is Matthias Klose <doko@debian.org> until the final
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--------------------------------------------------------------

A. HISTORY OF THE SOFTWARE

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Python was created in the early 1990s by Guido van Rossum at Stichting
Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands
as a successor of a language called ABC. Guido remains Python's
principal author, although it includes many contributions from others.

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

In May 2000, Guido and the Python core development team moved to
BeOpen.com to form the BeOpen PythonLabs team. In October of the same
year, the PythonLabs team moved to Digital Creations (now Zope
Corporation, see http://www.zope.com). In 2001, the Python Software
Foundation (PSF, see http://www.python.org/psf/) was formed, a
non-profit organization created specifically to own Python-related
Intellectual Property. Zope Corporation is a sponsoring member of
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All Python releases are Open Source (see http://www.opensource.org for
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dh_python2, pycompile, pyclean and debpython module:

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   under certain conditions; type `show c' for details.

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   Yoyodyne, Inc., hereby disclaims all copyright interest in the
   program `Gnomovision' (a program to direct compilers to make passes
   at assemblers) written by James Hacker.

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

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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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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* /opt/ws_local/PERMITS_SQL/1018334783_1594188426.05/0/servo-core-0-12-21-sources-jar/com/netflix/servo/monitor/StatsTimer.java
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jar/com/netflix/servo/util(ThreadCpuStats.java
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* /opt/ws_local/PERMITS_SQL/1018334783_1594188426.05/0/servo-core-0-12-21-sources-
* Subinterfaces and implementations for `{@link com.netflix.servo.monitor.Monitor}`.

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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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* /opt/ws_local/PERMITS_SQL/1018334783_1594188426.05/0/servo-core-0-12-21-sources-jar/com/netflix/servo/publish/CounterToRateMetricTransform.java
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 * <p/>
 * Monitor registry and helper classes to expose monitored attributes to
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 * <p/>
 * Code related to Tagging objects with metadata.
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 * Code related to Tagging objects with metadata.
* <p/>
* Code related to Tagging objects with metadata.
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* /opt/ws_local/PERMITS_SQL/1018334783_1594188426.05/0/servo-core-0-12-21-sources-jar/com/netflix/servo/tag/package-info.java

1.789 process-nextick-args 2.0.1

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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

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

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

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1.816 netty-resolver 4.1.45

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1.822 sensible-utils 0.0.12

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1.824 angular-simple-logger 0.1.7

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1.825 findutils 4.6.0+git+20161106 2

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1.826 ribbon-httpclient 2.3.0

1.827 reactor-extra 3.3.2

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* /opt/ws_local/PERMITS_SQL/1033178653_1591205810.04/0/reactor-extra-3-3-2-release-sources-
  jar/reactor/retry/AbstractRetry.java
* /opt/ws_local/PERMITS_SQL/1033178653_1591205810.04/0/reactor-extra-3-3-2-release-sources-
  jar/reactor/retry/Retry.java
* /opt/ws_local/PERMITS_SQL/1033178653_1591205810.04/0/reactor-extra-3-3-2-release-sources-
  jar/reactor/retry/DefaultContext.java
* /opt/ws_local/PERMITS_SQL/1033178653_1591205810.04/0/reactor-extra-3-3-2-release-sources-
  jar/reactor/retry/IterationContext.java
* /opt/ws_local/PERMITS_SQL/1033178653_1591205810.04/0/reactor-extra-3-3-2-release-sources-
  jar/reactor/retry/RetryExhaustedException.java
* /opt/ws_local/PERMITS_SQL/1033178653_1591205810.04/0/reactor-extra-3-3-2-release-sources-
  jar/reactor/retry/BackoffDelay.java
* /opt/ws_local/PERMITS_SQL/1033178653_1591205810.04/0/reactor-extra-3-3-2-release-sources-
  jar/reactor/retry/RepeatContext.java
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  jar/reactor/retry/IterationContext.java
* /opt/ws_local/PERMITS_SQL/1033178653_1591205810.04/0/reactor-extra-3-3-2-release-sources-
  jar/reactor/retry/RetryContext.java
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  jar/reactor/retry/RepeatContext.java
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  jar/reactor/retry/IterationContext.java
* /opt/ws_local/PERMITS_SQL/1033178653_1591205810.04/0/reactor-extra-3-3-2-release-sources-
  jar/reactor/retry/RetryContext.java
* /opt/ws_local/PERMITS_SQL/1033178653_1591205810.04/0/reactor-extra-3-3-2-release-sources-
  jar/reactor/retry/Jitter.java
* /opt/ws_local/PERMITS_SQL/1033178653_1591205810.04/0/reactor-extra-3-3-2-release-sources-
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  jar/reactor/retry/Repeat.java
* /opt/ws_local/PERMITS_SQL/1033178653_1591205810.04/0/reactor-extra-3-3-2-release-sources-
  jar/reactor/retry/Backoff.java

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jar/reactor/bool/BooleanUtils.java
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jar/reactor/function/Function6.java
* /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
* /opt/ws_local/PERMITS_SQL/1033178653_1591205810.04/0/reactor-extra-3-3-2-release-sources-
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* /opt/ws_local/PERMITS_SQL/1033178653_1591205810.04/0/reactor-extra-3-3-2-release-sources-
jar/reactor/scheduler/forkjoin/ForkJoinPoolScheduler.java
* /opt/ws_local/PERMITS_SQL/1033178653_1591205810.04/0/reactor-extra-3-3-2-release-sources-
jar/reactor/function/Function4.java
* /opt/ws_local/PERMITS_SQL/1033178653_1591205810.04/0/reactor-extra-3-3-2-release-sources-
jar/reactor/function/Function5.java
* /opt/ws_local/PERMITS_SQL/1033178653_1591205810.04/0/reactor-extra-3-3-2-release-sources-jar/reactor/function/Function8.java
* /opt/ws_local/PERMITS_SQL/1033178653_1591205810.04/0/reactor-extra-3-3-2-release-sources-jar/reactor/function/Predicate7.java
* /opt/ws_local/PERMITS_SQL/1033178653_1591205810.04/0/reactor-extra-3-3-2-release-sources-jar/reactor/maths/MonoSumInt.java
* /opt/ws_local/PERMITS_SQL/1033178653_1591205810.04/0/reactor-extra-3-3-2-release-sources-jar/reactor/function/Predicate5.java
* /opt/ws_local/PERMITS_SQL/1033178653_1591205810.04/0/reactor-extra-3-3-2-release-sources-jar/reactor/function/Consumer4.java
* /opt/ws_local/PERMITS_SQL/1033178653_1591205810.04/0/reactor-extra-3-3-2-release-sources-jar/reactor/cache/CacheMono.java
* /opt/ws_local/PERMITS_SQL/1033178653_1591205810.04/0/reactor-extra-3-3-2-release-sources-jar/reactor/maths/MonoSumDouble.java
* /opt/ws_local/PERMITS_SQL/1033178653_1591205810.04/0/reactor-extra-3-3-2-release-sources-jar/reactor/function/Consumer3.java
* /opt/ws_local/PERMITS_SQL/1033178653_1591205810.04/0/reactor-extra-3-3-2-release-sources-jar/reactor/maths/MonoMinMax.java
* /opt/ws_local/PERMITS_SQL/1033178653_1591205810.04/0/reactor-extra-3-3-2-release-sources-jar/reactor/function/Consumer8.java
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* /opt/ws_local/PERMITS_SQL/1033178653_1591205810.04/0/reactor-extra-3-3-2-release-sources-jar/reactor/function/Predicate6.java
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* /opt/ws_local/PERMITS_SQL/1033178653_1591205810.04/0/reactor-extra-3-3-2-release-sources-jar/reactor/maths/MonoAverageDouble.java
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* /opt/ws_local/PERMITS_SQL/1033178653_1591205810.04/0/reactor-extra-3-3-2-release-sources-jar/reactor/maths/MonoSumLong.java
* /opt/ws_local/PERMITS_SQL/1033178653_1591205810.04/0/reactor-extra-3-3-2-release-sources-jar/reactor/cache/CacheFlux.java
* /opt/ws_local/PERMITS_SQL/1033178653_1591205810.04/0/reactor-extra-3-3-2-release-sources-jar/reactor/maths/MonoSumFloat.java
* /opt/ws_local/PERMITS_SQL/1033178653_1591205810.04/0/reactor-extra-3-3-2-release-sources-jar/reactor/scheduler/clock/SchedulerClock.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/WaitStrategy.java
* /opt/ws_local/PERMITS_SQL/1033178653_1591205810.04/0/reactor-extra-3-3-2-release-sources-jar/reactor/extra/processor/TopicProcessor.java
* /opt/ws_local/PERMITS_SQL/1033178653_1591205810.04/0/reactor-extra-3-3-2-release-sources-jar/reactor/math/MonoAverageBigDecimal.java
* /opt/ws_local/PERMITS_SQL/1033178653_1591205810.04/0/reactor-extra-3-3-2-release-sources-jar/reactor/math/MonoSumBigDecimal.java
* /opt/ws_local/PERMITS_SQL/1033178653_1591205810.04/0/reactor-extra-3-3-2-release-sources-jar/reactor/math/MonoSumBigInteger.java
* /opt/ws_local/PERMITS_SQL/1033178653_1591205810.04/0/reactor-extra-3-3-2-release-sources-jar/reactor/extra/processor/EventLoopProcessor.java
* /opt/ws_local/PERMITS_SQL/1033178653_1591205810.04/0/reactor-extra-3-3-2-release-sources-jar/reactor/math/MonoAverageBigInteger.java

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1.829 python-idna 2.2-1

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1.837 angular-upgrade 9.0.7
1.837.1 Available under license:

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

```json
{"version":3,"file":"upgrade.js","sources":[]}
```

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```json
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 * Copyright Google Inc. All Rights Reserved.
 *
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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');
```

```json
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 * 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?: 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;
}
```
let angular: {
  bootstrap: (e: Element, modules: (string | IInjectable)[]?, config?: IAngularBootstrapConfig) =>
    INjectionService,
  module: (prefix: string, dependencies?: string[]) =>
    IModule,
  element: (e: string | Element | Document | IAugmentedJQuery): IAugmentedJQuery;
} = {
  bootstrap: noNg,
  module: noNg,
  element: noNgElement,
};

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

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

export class PropertyBinding {
  bracketAttr!: string;
  bracketParenAttr!: string;
  parenAttr!: string;
  onAttr!: string;
  bindAttr!: string;
  bindonAttr!: string;

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

  private parseBinding() {
    this.bracketAttr = `\[${attr}\]`;
    this.parenAttr = `\(${attr}\)`;
    this.bracketParenAttr = `\[${(attr)}\]`;
    this.onAttr = `\[\[\-${attr}\]\]`;  // TODO(issue/24571): remove '!'
    this.bindAttr = `\[${attr}\]`;  // TODO(issue/24571): remove '!'
    this.bindonAttr = `\[${attr}\]`;  // TODO(issue/24571): remove '!'
  }
}
this.attr.charAt(0).toUpperCase() + this.attr.substr(1);

this.onAttr = `on${capitalAttr}`;

this.bindAttr = `bind${capitalAttr}`;

this.bindonAttr = `bindon${capitalAttr}`;

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;
}

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

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

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];
}

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

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

function supportsNgModel(component: any) {
  return typeof component.writeValue === 'function' &&
      typeof component.registerOnChange === 'function';
}

const enum UpgradeAppType {
  // App NOT using `@angular/upgrade`. (This should never happen in an
  // ngUpgrade app.)
  None,

  // App using the deprecated `@angular/upgrade` APIs (a.k.a. dynamic
  // 'ngUpgrade').
  Dynamic,

  // App using `@angular/upgrade/static` with `UpgradeModule`. Static,

  // App using `@angular/upgrade/static` with `downgradeModule()` (a.k.a.
  // 'ngUpgrade'-lite ). Lite,
}

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

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

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

const DIRECTIVE_PREFIX_REGEXP = /^\((?:\[data]:(?:[^\]]*)?\)\)/;const DIRECTIVE_SPECIAL_CHARS_REGEXP = /[\-_.]+(.)/g;

export function getTypeName(type: Type<any>): string {
  return (type as any).overriddenName || type.name || type.toString().split('
')[0];
}

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

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

export const enum UpgradeAppType {
  // App NOT using `@angular/upgrade`. (This should never happen in an
  // ngUpgrade app.)
  None,

  // App using the deprecated `@angular/upgrade` APIs (a.k.a. dynamic
  // 'ngUpgrade').
  Dynamic,

  // App using `@angular/upgrade/static` with `UpgradeModule`. Static,

  // App using `@angular/upgrade/static` with `downgradeModule()` (a.k.a.
  // 'ngUpgrade'-lite ). Lite,
}

/**
 * @return
 * Whether the passed-in component implements the subset of the
 *   `ControlValueAccessor` interface needed for AngularJS `NgModelController` (if it exists) to the component
 *   (if it implements the needed subset of
the 'ControlValueAccessor' interface).

```typescript
/*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 {
  return val1 === val2 || (val1 !== val1 && val2 !== val2);
}

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 */

import {ApplicationRef, ChangeDetectorRef, ComponentFactory, ComponentRef, EventEmitter, Injector, OnChanges, SimpleChange, SimpleChanges, StaticProvider, Testability, TestabilityRegistry, Type} from '@angular/core';

import {IAttributes, IAugmentedJQuery, ICompileService, 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;

  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.componentFactory.create(childInjector, projectableNodes, this.element[0]);
    this.viewChangeDetector = this.componentFactory.create(this.componentRef.injector,
      ChangeDetectorRef); this.changeDetector = this.componentFactory.create(this.componentRef.changeDetectorRef);
    this.component = this.componentFactory.instance;
    // testability hook is commonly added during component bootstrap
    // in downgraded application, component creation will take place here as well as adding the
    // testability hook.
    if (testability) {
      this.componentFactory.injector.get(Testability, null); if (testability) {
        this.componentFactory.injector.get(TestabilityRegistry);
      }
    }
    this.updateInput(prop, prevValue, currValue);
  }

  setupInputs(manuallyAttachView: boolean, propagateDigest = true): void {
    const attrs = this.attrs;
    const inputs = this.componentFactory.inputs || [];
    for (let i = 0; i < inputs.length; i++) {
      const attr = this.attrs[inputs[i].templateName];
      if (inputs[i].propName) {
        let expr: string = null;
        if (attr.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)) {
                prevValue = currValue;
              }
              this.updateInput(prop, prevValue, currValue);
            }
          };
          const eventProp = prop;
          const inputs = this.attrs[inputs[i].templateName];
          if (this.updateInput(prop, prevValue, currValue)) {
            prevValue = currValue;
          }
        }
      }
    }
  }

  private updateInput(prop, prevValue, currValue) {
    // This is a hack to preserve the attribute value from the downgraded
    // component, which is necessary for the testability hook.
    this.$injector.$get('IProcedural')(attr, input, prop, prevValue, currValue);
  }
```

---

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// 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 = null;
  observeFn(attrs[input.attr]);
})
else if (attrs.hasOwnProperty(input.bindAttr)) {
  expr = attrs[input.bindAttr];
} else if (attrs.hasOwnProperty(input.bracketAttr)) {
  expr = attrs[input.bracketAttr];
} else if (attrs.hasOwnProperty(input.bindonAttr)) {
  expr = attrs[input.bindonAttr];
}
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.$watch(() =>
  this.updateInput(prop, prevValue, currValue))(input.prop);
this.componentScope.$watch(() => thisInputChangeCount,
  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 digestes, invoke change detection
    if (!propagateDigest) {
      detectChanges();
    }
  }));

// If not opted out of
// propagating digests, invoke change detection on every digest
if (propagateDigest) {
  this.componentScope.$watch(this.wrapCallback(detectChanges));
}

// If necessary, attach the view so that
// it will be dirty-checked. // (Allow time for the initial input values to be set and `$ngOnChanges()` to be called.)
if (manuallyAttachView || !propagateDigest) {
  let unwatch: Function = null;
  unwatch = null;

  const appRef =
    this.parentInjector.get<ApplicationRef>(ApplicationRef);
  appRef.attachView(this.componentRef.hostView);
}

// 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]);
}

for `\`downgrading`\` an Angular component.

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 that wraps the `\`downgrade\` component. For more details and examples on downgrading Angular Components to AngularJS components please visit the Upgrade guide.

### Examples

Let's assume that you have an Angular component called `ng2Heroes` that needs to be made available in AngularJS templates.

```typescript
{@example upgrade/static/ts/full/module.ts region="ng2-heroes"}
```

We must create an AngularJS directive that 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 `\`downgrade\` component.

```typescript
{@example upgrade/static/ts/full/module.ts region="ng2-heroes-wrapper"}
```

For more details and examples on downgrading Angular Components to AngularJS components please visit the Upgrade guide.

#### `downgradeComponent` function

The `downgradeComponent()` function returns a factory function that we can use to define the AngularJS directive that wraps the `\`downgrade\` component. We must create an AngularJS directive that will make this component available in AngularJS templates.

#### Examples

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 that wraps the `\`downgrade\` component. For more details and examples on downgrading Angular Components to AngularJS components please visit the Upgrade guide.

### Examples

Let's assume that you have an Angular component called `ng2Heroes` that needs to be made available in AngularJS templates.

```typescript
{@example upgrade/static/ts/full/module.ts region="ng2-heroes"}
```

We must create an AngularJS directive that 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 `\`downgrade\` component.

```typescript
{@example upgrade/static/ts/full/module.ts region="ng2-heroes-wrapper"}
```

For more details and examples on downgrading Angular Components to AngularJS components please visit the Upgrade guide.
be
  // on the same tree as the `NgModule` that declares this downgraded component.
  `finalParentInjector` is used for all other injection purposes.
  (Note that Angular knows to only traverse the component-tree part of that injector,
  when looking for an injectable and then switch to the module injector.)

  // There are basically three cases:
  // - If there is no parent component (thus no `parentInjector`), we bootstrap the downgraded
    `NgModule` and use its injector as both `finalModuleInjector` and `finalParentInjector`.
  // - If there is a parent component (and thus a `parentInjector`) and we are sure that it doesn't
    belong 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 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
    'NgModule's injector as `finalModuleInjector` and `finalParentInjector`.

    const finalParentInjector = parentInjector || moduleInjector !;

    // If this is a "top-level" Angular component, use the module injector.
    const finalModuleInjector = moduleInjector || parentInjector !;

    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, Sinjector, $compile, $parse,
        componentFactory, wrapCallback);

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

      injectorPromise.resolve(facade.getInjector());

      if (ranAsync) {
        scope.$evalAsync(() => {});
      }
    };

    directiveFactory =
      !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: ...$downgrade_component_ParentInjectorPromise.all is not a
    // function`) which is inherited from `SyncPromise`), because
    // `Closure Compiler (or some related tool) complains:
    // `TypeError: ...$downgrade_component_ParentInjectorPromise.all is not a
    // function`)
    // of closure - see #14441
    //.directiveFactory['$inject'] = [SCOMPILE, SINJECTOR, SPARSE];
    return directiveFactory;
  }
}

/**
 * Synchronous promise-like object to wrap parent injectors,
 * to preserve the synchronous nature of AngularJS's `$compile`.
 */
class ParentInjectorPromise extends SyncPromise<Injector> {
  constructor(private element: IAugmentedJQuery) {
    super();

    // Store the promise on the element.
    element.data !(this.injectorKey, this);
  }

  resolve(injector) {
    return injector;
  }
}

// bracket-notation because
// of closure - see #14441
directiveFactory['$inject'] = [SCOMPILE, SINJECTOR, SPARSE];

return directiveFactory;
}
this);\n }\n}\n resolve(injector: Injector): void {\n // Store the real injector on the element.\n this.element.data !(this.injectorKey, injector);\n }\n // Release the element to prevent memory leaks.\n this.element = null;\n// Resolve the promise.\n super.resolve(injector);\n }\n }\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 found in the LICENSE file at https://angular.io/license\n */

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

/**\n * @description\n *
 * A helper function to allow an Angular service to be accessible from AngularJS.\n * @usageNotes\n * ### Examples\n *
 * 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' that provides them is instantiated. In order to be safe, you need to ensure that the module is downgraded and 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 module provided by the same Angular module as the injectable, but it is _not OK_ to use it in an AngularJS module that may be used independently of Angular or in a downgraded Angular component from a different module.\n *
 * 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 module is downgraded and not used anywhere outside the part of the app where it is guaranteed that their module has been instantiated.\n *
 * (This option is only necessary when using `downgradeModule()` to downgrade more than one Angular module.\n * @returns a [factory function](https://docs.angularjs.org/guide/di) that can be used to register the service on an AngularJS module.\n * @publicApi\n */
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;
}

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

import {El} from '../el';
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');
    } else if (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');
      else if (directive.replace) notSupported(name, 'replace');
    } else if (directive.terminal) notSupported(name, 'terminal');

    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 = 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');
      } else {
        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.
    const locals = {
      $scope: $scope, $element: this.$element,
      controller: this.$controller(controllerType,
      locals, null,
      this.directive.controllerAs),
      element.data !(controllerKey(this.directive.name !), controller);
      return controller;
    };

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

    const
    transcludeFn: ILinkFn = (scope, cloneAttachFn) => {
      // 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');
      else if (directive.replace) notSupported(name, 'replace');
    } else if (directive.terminal) notSupported(name, 'terminal');

    return this.compileHtml($template, $element, locals);
const filledSlots = Object.create(null); // Parse the element selectors.

Object.keys(transclude).forEach(slotName => {
  let selector = transclude[slotName];
  const optional = selector.charAt(0) === '?';
  selector = optional ? selector.substring(1) : selector;

  slotMap[selector] = slotName;
  slots[slotName] = null; // null: Defined but not yet filled.
  filledSlots[slotName] = optional; // Consider optional slots as filled.
});

// Add the matching elements into their slot.
contentChildNodes.forEach(node => {
  const slotName = slotMap[directiveNormalize(node.nodeName.toLowerCase())];
  if (slotName) {
    filledSlots[slotName] = true;
    slots[slotName] = slots[slotName] || [];
    slots[slotName].push(node);
  } else {
    $template.push(node);
  }
});

// Check for required slots that were not filled.
Object.keys(filledSlots).forEach(slotName => {
  if (!filledSlots[slotName]) {
    throw new Error(`Required transclusion slot '${slotName}' on directive: ${this.name}`);
  }
});

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

// 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 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+
$template.forEach(node => {
  if (node.nodeType === Node.TEXT_NODE && !node.nodeValue) {
    node.nodeValue = '\u200C';
  }
});
$injector: IInjectorService): Promise<string[]> { 
  const promises = Object.keys(exportedComponents).map(name =>
    { 
      const exportedComponent = exportedComponents[name];
      exportedComponent.directive = UpgradeHelper.getDirective($injector, name);
      exportedComponent.extractBindings();
      return Promise
      .resolve(UpgradeHelper.getTemplate($injector, exportedComponent.directive, true));
    });
  return Promise.all(promises);
}

UpgradeNg1ComponentAdapter implements OnInit, OnChanges, DoCheck {
  private controllerInstance: IControllerInstance|null = null;
  destinationObj: IBindingDestination|null = null;
  checkLastValues: any[] = [];
  directive: IDirective;
  element: Element;
  $element: any = null;
  componentScope: IScope;
  constructor($injector: IInjectorService): Promise<string[]> {
    const promises = Object.keys(exportedComponents).map(name =>
      { 
        const exportedComponent = exportedComponents[name];
        exportedComponent.directive = UpgradeHelper.getDirective($injector, name);
        exportedComponent.extractBindings();

        return Promise
          .resolve(UpgradeHelper.getTemplate($injector, exportedComponent.directive, true))
          .then(template =>
            exportedComponent.template = template
          );
      });
    return Promise.all(promises);
  }
}

class UpgradeNg1ComponentAdapter implements OnInit, OnChanges, DoCheck {
  private controllerInstance: IControllerInstance|null = null;
  destinationObj: IBindingDestination|null = null;
  checkLastValues: any[] = [];

  directive: IDirective;
  element: Element;
  $element: any = null;
  componentScope: IScope;

  constructor($injector: IInjectorService, scope: IScope, private template: string,
    private inputs: string[], private outputs: string[], private propOuts: string[],
    private checkProperties: string[], private propertyMap: {[key: string]: string}) {
    this.directive = this.helper.directive;
    this.element = this.helper.element;
    this.componentScope = scope;

    this.checkLastValues.push(INITIAL_VALUE);

    if (this.directive.bindToController & this.controllerType) {
      this.controllerInstance
        = this.helper.buildController(controllerType, this.componentScope);
      this.destinationObj = this.controllerInstance;
    } else {
      this.destinationObj = this.componentScope;
      for (let i = 0; i < inputs.length; i++) {
        const input = inputs[i];
        (this as any)[input] = null;
      }
      for (let j = 0; j < outputs.length; j++) {
        const output = outputs[j];
        this.componentScope[output] = new EventEmitter();
        if (this.propOuts.indexOf(output) === -1) {
          this.setComponentProperty(output, (eventEmitter => (value: any) =>
            eventEmitter.emit(value))(value));
        }
      }
    }
    this.ngOnInit();
  }

  ngOnInit() {
    // Collect contents, insert and compile template
    const attachChildNodes: ILinkFn|undefined = this.helper.prepareTransclusion();
    const linkFn = this.helper.compileTemplate(this.template);

    // Instantiate controller
    const controllerType = this.directive.controller;
    const bindToController = this.directive.bindToController;
    if (controllerType && !bindToController) {
      this.controllerInstance
        = this.helper.buildController(controllerType, this.componentScope);
    }
    const requiredControllers = this.helper.resolveAndBindRequiredControllers(this.controllerInstance);

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

    // Linking
    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();
    }
  }

  ngDoCheck() {
    this.checkLastValues.push(INITIAL_VALUE);
    if (this.directive.checkLastValues) {
      this.checkLastValues.push(INITIAL_VALUE);
    }
  }

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

  setComponentProperty(name: string, value: any) {
    this.componentScope[name] = value;
  }
}
import {Compiler, CompilerOptions, Injector, NgModule, NgModuleRef, NgZone, StaticProvider, Testability, Type, isDevMode, resolveForwardRef} from '@angular/core';
import {AngularBootstrapConfig, IAugmentedJQuery, InjectorService, IModule, IProvideService, IRootScopeService, ITestabilityService, bootstrap, element as angularElement, module_ as angularModule} from '../common/src/angular1';
import {$$TESTABILITY, $COMPILE, $INJECTOR, $ROOT_SCOPE, COMPILER_KEY, INJECTOR_KEY, LAZY_MODULE_REF, NG_ZONE_KEY, UPGRADE_APP_TYPE_KEY} from '../common/src/constants';
import {Deferred, LazyModuleRef, UpgradeAppType, controllerKey, onError} from '../common/src/util';

import {UpgradeNg1ComponentAdapterBuilder} from './upgrade_ng1_adapter';

let upgradeCount: number = 0;

/**
 * Use `UpgradeAdapter` to allow AngularJS and Angular to coexist in a single application.
 *
 * The `UpgradeAdapter` allows:
 * 1. creation of Angular component from AngularJS component directive
 *    (See [UpgradeAdapter#upgradeNg1Component()])
 * 2. creation of AngularJS directive from Angular component.
 *    (See [UpgradeAdapter#downgradeNg2Component()])
 * 3. Bootstrapping of a hybrid Angular application which contains both of the frameworks
 *    coexisting in a single application. The `UpgradeAdapter` allows:
 * 1. creation of Angular component from AngularJS component directive
 *    (See [UpgradeAdapter#upgradeNg1Component()])
 * 2. creation of AngularJS directive from Angular component.
 *    (See [UpgradeAdapter#downgradeNg2Component()])
 * 3. Bootstrapping of a hybrid Angular application which contains both of the frameworks
 *    coexisting in a single application.
 *
 * An AngularJS component can be upgraded to an Angular component. This creates an Angular
directive, which bootsraps the AngularJS component directive in that location. An Angular component
can be downgraded to an AngularJS component directive. This creates an AngularJS directive,
which bootsraps the Angular component in that location.
*

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 bootsraps the AngularJS component directive in that location.

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()`.

class UpgradeAdapter {
  private idPrefix: string = `NG2_UPGRADE_${upgradeCount++}_`;
  private downgradedComponents: Type<any>[] = [];
  /**
   * An internal map of ng1 components which need to 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
   */
}

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upgrade until ng1 injector is bootstrapped.\n *\n * @internal\n */\n private ng1ComponentsToBeUpgraded:
{[name: string]: UpgradeNg1ComponentAdapterBuilder} = {};\n private upgradedProviders: StaticProvider[] =
[];\n // TODO(issue/24571): remove '!'.\n private ngZone !: NgZone;\n // TODO(issue/24571): remove '!'.\n
private ng1Module !: IModule;\n private moduleRef: NgModuleRef<any>|null = null;\n // TODO(issue/24571):
remove '!'.\n private ng2BootstrapDeferred !: Deferred<IInjectorService>;\n\n constructor(private ng2AppModule:
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',

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adapter.downgradeNg2Component(Ng2Component);\n
```typescript
function upgradeNg2Component(name: string): Type<any> {
    if ((<any>this.ng1ComponentsToBeUpgraded).hasOwnProperty(name)) {
        return this.ng1ComponentsToBeUpgraded[name].type;
    } else {
        return (this.ng1ComponentsToBeUpgraded[name] = new UpgradeNg1ComponentAdapterBuilder(name)).type;
    }
}
```

**Example:**

```typescript
adapter.bootstrap(document.body, ['myExample']).ready(function() {
    expect(document.body.textContent).toEqual("Hello World! - transclude");
});
```

**UpgradeAdapterRef**

```typescript
require('angular2').bootstrap(document.body, ['myExample']).ready(function() {
    expect(document.body.textContent).toEqual("ng2 template: Hello world! - text");
});
```

adapter.upgradeNg1Component('greet');

**Example:**

```typescript
adapter.upgradeNg1Component(document.body, ['greet']);
```

adapter.upgradeNg1Component('greet');

**Example:**

```typescript
adapter.upgradeNg1Component(document.body, ['greet']);
```

adapter.upgradeNg1Component(document.body, ['greet']);

**Example:**

```typescript
adapter.upgradeNg1Component(document.body, ['greet']);
```

adapter.upgradeNg1Component(document.body, ['greet']);

**Example:**

```typescript
adapter.upgradeNg1Component(document.body, ['greet']);
```
void = windowAngular.resumeBootstrap;\n
windowAngular.resumeBootstrap = function() {\n
windowAngular.resumeBootstrap = originalResumeBootstrap;\n
const r =
windowAngular.resumeBootstrap.apply(this, arguments);\n
resolve();\n
return r;\n
};\n
} else {\n
resolve();\n
}\n });\n\n Promise.all([this.ng2BootstrapDeferred.promise,
ng1BootstrapPromise]).then(([ng1Injector]) => {\n
angularElement(element).data
!(controllerKey(INJECTOR_KEY), this.moduleRef !.injector);\n
this.moduleRef
!.injector.get<NgZone>(NgZone).run(\n
() => { (<any>upgrade)._bootstrapDone(this.moduleRef,
ng1Injector); });\n }, onError);\n return upgrade;\n }\n\n /**\n * Allows AngularJS service to be accessible
from Angular.\n *\n * @usageNotes\n * ### Example\n *\n * ```\n * class Login { ... }\n * class Server { ...
}\n *\n * @Injectable()\n * class Example {\n * constructor(@Inject('server') server, login: Login) {\n *
...\n * }\n * }\n *\n * const module = angular.module('myExample', []);\n * module.service('server',
Server);\n * module.service('login', Login);\n *\n * const adapter = new UpgradeAdapter(MyNg2Module);\n *
adapter.upgradeNg1Provider('server');\n * adapter.upgradeNg1Provider('login', {asToken: Login});\n *\n *
adapter.bootstrap(document.body, ['myExample']).ready((ref) => {\n * const example: Example =
ref.ng2Injector.get(Example);\n * });\n *\n * ```\n */\n upgradeNg1Provider(name: string, options?: {asToken:
any}) {\n const token = options && options.asToken || name;\n this.upgradedProviders.push({\n
provide:
token,\n
useFactory: ($injector: IInjectorService) => $injector.get(name),\n
deps: [$INJECTOR]\n });\n
}\n\n /**\n * Allows Angular service to be accessible from AngularJS.\n *\n * @usageNotes\n * ###
Example\n *\n * ```\n * class Example {\n * }\n *\n * const adapter = new
UpgradeAdapter(MyNg2Module);\n *\n * const module = angular.module('myExample', []);\n *
module.factory('example', adapter.downgradeNg2Provider(Example));\n *\n * adapter.bootstrap(document.body,
['myExample']).ready((ref) => {\n * const example: Example = ref.ng1Injector.get('example');\n * });\n *\n *
```\n */\n downgradeNg2Provider(token: any): Function { return downgradeInjectable(token); }\n\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 * @param modules
The AngularJS modules that this upgrade module should depend upon.\n * @returns The AngularJS upgrade
module that is declared by this method\n *\n * @usageNotes\n * ### Example\n *\n * ```\n * const
upgradeAdapter = new UpgradeAdapter(MyNg2Module);\n * upgradeAdapter.declareNg1Module(['heroApp']);\n
* ```\n */\n private declareNg1Module(modules: string[] = []): IModule {\n const delayApplyExps: Function[] =
[];\n let original$applyFn: Function;\n let rootScopePrototype: any;\n let rootScope: IRootScopeService;\n
const upgradeAdapter = this;\n const ng1Module = this.ng1Module = angularModule(this.idPrefix, modules);\n
const platformRef = platformBrowserDynamic();\n\n this.ngZone = new NgZone({enableLongStackTrace:
Zone.hasOwnProperty('longStackTraceZoneSpec')});\n this.ng2BootstrapDeferred = new Deferred();\n
ng1Module.constant(UPGRADE_APP_TYPE_KEY, UpgradeAppType.Dynamic)\n
.factory(INJECTOR_KEY, () => this.moduleRef !.injector.get(Injector))\n
.factory(\n
LAZY_MODULE_REF,\n
[INJECTOR_KEY, (injector: Injector) => ({ injector } as LazyModuleRef)])\n
.constant(NG_ZONE_KEY, this.ngZone)\n
.factory(COMPILER_KEY, () => this.moduleRef
!.injector.get(Compiler))\n
.config([\n
'$provide', '$injector',\n
(provide: IProvideService,
ng1Injector: IInjectorService) => {\n
provide.decorator($ROOT_SCOPE, [\n
'$delegate',\n
function(rootScopeDelegate: IRootScopeService) {\n
// Capture the root apply so that we can delay first
call to $apply until we\n
// bootstrap Angular and then we replay and restore the $apply.\n
rootScopePrototype = rootScopeDelegate.constructor.prototype;\n
if
(rootScopePrototype.hasOwnProperty('$apply')) {\n
original$applyFn = rootScopePrototype.$apply;\n
rootScopePrototype.$apply = (exp: any) => delayApplyExps.push(exp);\n
} else {\n
throw
new Error('Failed to find \\'$apply\\' on \\'$rootScope\\'!');\n
}\n
return rootScope =
rootScopeDelegate;\n
}\n
]);\n
if (ng1Injector.has($$TESTABILITY)) {\n
provide.decorator($$TESTABILITY, [\n
'$delegate',\n
function(testabilityDelegate:
ITestabilityService) {\n
const originalWhenStable: Function = testabilityDelegate.whenStable;\n

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// Cannot use arrow function below because we need the context
const newWhenStable = function(this: unknown, callback: Function) {
  originalWhenStable.call(this, function(this: unknown) {
    if (ng2Testability.isStable()) {
      callback.apply(this, arguments);
    } else {
      ng2Testability.whenStable(newWhenStable.bind(this, callback));
    }
  });
}

ng1Injector: InjectorService, rootScope: IRootScopeService) => {
  // Note: There is a bug in TS 2.4 that prevents us from inlining this into @NgModule
  // TODO(tbosch): find or file a bug against TypeScript for this.
  const ngModule = {
    providers: [{provide: $INJECTOR, useFactory: () => ng1Injector}],
    imports: [resolveForwardRef(this.ng2AppModule)],
    entryComponents: this.downgradedComponents
  };
  // At this point we have ng1 injector and we have prepared ng1 components to be upgraded, we now can bootstrap
  ng2.$injector @NgModule({jit: true, ...ngModule})
            .then(() => {
              // Note: There is a bug in TS 2.4 that prevents us from inlining this into @NgModule
              // TODO(tbosch): find or file a bug against TypeScript for this.
              const ngModule = {
                providers: [{provide: $INJECTOR, useFactory: () => ng1Injector}],
                imports: [resolveForwardRef(this.ng2AppModule)],
                entryComponents: this.downgradedComponents
              };
              // At this point we have ng1 injector and we have prepared ng1 components to be upgraded, we now can bootstrap
              ng2.$injector @NgModule({jit: true, ...ngModule})
            }
          })
        ];
      });
    }
};

platformRef
    .bootstrapModule
    .then((ref: NgModuleRef<any>) => {
      this.moduleRef = ref;
      this.ngZone.run(() => {
        if (rootScopePrototype) {
          rootScopePrototype.$apply = original$applyFn;  // restore original $apply
          while (delayApplyExps.length) {
            rootScope.$apply(delayApplyExps.shift());
          }
          rootScopePrototype = null;
        }
      });
    })
    .then(() => {
      let subscription =
        this.ngZone.onMicrotaskEmpty.subscribe({
          next: () => {
            if (rootScope.$$phase) {
              if (isDevMode()) {
                console.warn(
                    'A digest was triggered while one was already in progress. This may mean that something is triggering digests outside the Angular zone.';
                }
            return rootScope.$evalAsync(() => {});
          }
        return rootScope.$digest();
          }
        });
        rootScope.$on('$destroy', () => {
          subscription.unsubscribe(); });
    })
    .catch((e) => {
      this.ng2BootstrapDeferred.reject(e);
    });
  }
}

/**
 * Use UpgradeAdapterRef to control a hybrid AngularJS / Angular application.
 *
 * @deprecated Deprecated since v5. Use upgrade/static instead, which also supports *
 * [Ahead-of-Time compilation](guide/aot-compiler).
 * @publicApi
 */
export class UpgradeAdapterRef {
  /* @internal */
  private _readyFn: ((upgradeAdapterRef: UpgradeAdapterRef) => void)|null = null;

  ng1RootScope: IRootScopeService = null !;
  ng1Injector: InjectorService = null !;
  ng2ModuleRef: NgModuleRef<any> = null !;
  ng2Injector: Injector = null !;
  platformRef
    .bootstrapModule
    .then((ref: NgModuleRef<any>) => {
      this.moduleRef = ref;
      this.ngZone.run(() => {
        if (rootScopePrototype) {
          rootScopePrototype.$apply = original$applyFn;  // restore original $apply
          while (delayApplyExps.length) {
            rootScope.$apply(delayApplyExps.shift());
          }
          rootScopePrototype = null;
        }
      });
    })
    .then(() => {
      let subscription =
        this.ngZone.onMicrotaskEmpty.subscribe({
          next: () => {
            if (rootScope.$$phase) {
              if (isDevMode()) {
                console.warn(
                    'A digest was triggered while one was already in progress. This may mean that something is triggering digests outside the Angular zone.';
                }
            return rootScope.$evalAsync(() => {});
          }
        return rootScope.$digest();
          }
        });
        rootScope.$on('$destroy', () => {
          subscription.unsubscribe(); });
    })
    .catch((e) => {
      this.ng2BootstrapDeferred.reject(e);
    });
  }
};

/**
 * Synchronous promise-like object to wrap parent injectors, to preserve the synchronous nature of AngularJS's $compile.
 * @publicApi
 */
export class ParentInjectorPromise {
  // TODO(issue/24571): remove '!'.
  private injector !: Injector;
  private callbacks: ((injector: Injector) => any)[] = [];

  constructor(private element: IAugmentedJQuery) {
    // store the promise on the element
    element.data !(controllerKey(INJECTOR_KEY), this);
  }

  then(callback: (injector: Injector) => any) {
    if (this.injector) {
      callback(this.injector);
    } else {
      this.callbacks.push(callback);
    }
  }

  resolve(injector: Injector) {
    this.injector = injector;

    // reset the element data to point to the real injector
    this.element.data !(controllerKey(INJECTOR_KEY), injector);

    // clean out the element to prevent memory leaks
    this.element = null !;
    // run all the queued callbacks
    this.callbacks.forEach(callback => callback);
    this.callbacks.length = 0;

    // Use 'UpgradeAdapterRef' to control a hybrid AngularJS / Angular application.
    * @deprecated Deprecated since v5. Use 'upgrade/static' instead, which also supports *
    * [Ahead-of-Time compilation](guide/aot-compiler).
    */
    @publicApi
    *export class UpgradeAdapterRef {
      /* @internal */
      private _readyFn: ((upgradeAdapterRef: UpgradeAdapterRef) => void)|null = null;
      public ng1RootScope: IRootScopeService = null !;
      public ng1Injector: InjectorService = null !;
      public ng2ModuleRef: NgModuleRef<any> = null !;
      public ng2Injector: Injector = null !;
      * @internal */
      private _readyFn: ((upgradeAdapterRef: UpgradeAdapterRef) => void)|null = null;
      public ng1RootScope: IRootScopeService = null !;
      public ng1Injector: InjectorService = null !;
      public ng2ModuleRef: NgModuleRef<any> = null !;
      public ng2Injector: Injector = null !;
    }

    return ng1Module;
  }
}

/**
 * Synchronous promise-like object to wrap parent injectors, to preserve the synchronous nature of AngularJS's $compile.
 * @publicApi
 */
export class ParentInjectorPromise {
  // TODO(issue/24571): remove '!'.
  private injector !: Injector;
  private callbacks: ((injector: Injector) => any)[] = [];

  constructor(private element: IAugmentedJQuery) {
    // store the promise on the element
    element.data !(controllerKey(INJECTOR_KEY), this);
  }

  then(callback: (injector: Injector) => any) {
    if (this.injector) {
      callback(this.injector);
    } else {
      this.callbacks.push(callback);
    }
  }

  resolve(injector: Injector) {
    this.injector = injector;

    // reset the element data to point to the real injector
    this.element.data !(controllerKey(INJECTOR_KEY), injector);

    // clean out the element to prevent memory leaks
    this.element = null !;
    // run all the queued callbacks
    this.callbacks.forEach(callback => callback);
    this.callbacks.length = 0;

    // Use 'UpgradeAdapterRef' to control a hybrid AngularJS / Angular application.
    * @deprecated Deprecated since v5. Use 'upgrade/static' instead, which also supports *
    * [Ahead-of-Time compilation](guide/aot-compiler).
    */
    @publicApi
    *export class UpgradeAdapterRef {
      /* @internal */
      private _readyFn: ((upgradeAdapterRef: UpgradeAdapterRef) => void)|null = null;
      public ng1RootScope: IRootScopeService = null !;
      public ng1Injector: InjectorService = null !;
      public ng2ModuleRef: NgModuleRef<any> = null !;
      public ng2Injector: Injector = null !;
    }

    return ng1Module;
  }
}

/**
 * Synchronous promise-like object to wrap parent injectors, to preserve the synchronous nature of AngularJS's $compile.
 * @publicApi
 */
export class ParentInjectorPromise {
  // TODO(issue/24571): remove '!'.
  private injector !: Injector;
  private callbacks: ((injector: Injector) => any)[] = [];

  constructor(private element: IAugmentedJQuery) {
    // store the promise on the element
    element.data !(controllerKey(INJECTOR_KEY), this);
  }

  then(callback: (injector: Injector) => any) {
    if (this.injector) {
      callback(this.injector);
    } else {
      this.callbacks.push(callback);
    }
  }

  resolve(injector: Injector) {
    this.injector = injector;

    // reset the element data to point to the real injector
    this.element.data !(controllerKey(INJECTOR_KEY), injector);

    // clean out the element to prevent memory leaks
    this.element = null !;
    // run all the queued callbacks
    this.callbacks.forEach(callback => callback);
    this.callbacks.length = 0;

    // Use 'UpgradeAdapterRef' to control a hybrid AngularJS / Angular application.
    * @deprecated Deprecated since v5. Use 'upgrade/static' instead, which also supports *
    * [Ahead-of-Time compilation](guide/aot-compiler).
    */
    @publicApi
    *export class UpgradeAdapterRef {
      /* @internal */
      private _readyFn: ((upgradeAdapterRef: UpgradeAdapterRef) => void)|null = null;
      public ng1RootScope: IRootScopeService = null !;
      public ng1Injector: InjectorService = null !;
      public ng2ModuleRef: NgModuleRef<any> = null !;
      public ng2Injector: Injector = null !;
    }

    return ng1Module;
  }
}
this._readyFn(this);
} //\n\n/**
* Register a callback function which is notified upon successful hybrid
AngularJS / Angular application has been bootstrapped.
* The `ready` callback function is invoked inside the Angular zone, therefore it does not require a call to `\$apply()`.
* Dispose of running hybrid AngularJS / Angular application.
*/

public ready(fn: (upgradeAdapterRef: UpgradeAdapterRef) => void) {
  this._readyFn = fn;
}

/**
* Dispose of running hybrid AngularJS / Angular application.
*/
public dispose() {
  this.ng1Injector!.get($ROOT_SCOPE).$destroy();
  this.ng2ModuleRef!.destroy();
}
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
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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 with
  // `$inject?: string[]`, which is not compatible with `$inject?: ReadonlyArray<string>` (used in
  // latest versions).
  $inject?: Function
}

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: Injectable): IModule,
  component(selector: string, component: Injectable): IModule,
  controller(name: string, type: Injectale): IModule,
  value(key: Ng1Token, value: any): IModule,
  constant(token: Ng1Token, value: any): IModule,
  run(a: Injectable): IModule,
  require(\n  for \n}
number, invokeApply?: boolean, ...args: any[]): Promise<any>;
  cancel(promise: Promise<any>): void;
  $setUntouched(): void;
  $setTouched(): void;
  $rollbackViewValue(): void;
  $commitViewValue(): void;
  $setValidity(validationErrorKey: string, isValid: boolean): void;
  $setPristine(): void;
  $setDirty(): void;
  $setEmpty(): void;
  $setUntouched(): void;
  $setTouched(): void;
  $commitViewValue(): void;
  $rollbackViewValue(): void;
  $isValid: boolean;
  $isPending: boolean;
  $isDirty: boolean;
  $isPristine: boolean;
  $isViewValue: boolean;
  $isModelValue: boolean;
  $isSparsers: boolean;
  $isFormatters: boolean;
  $isValidators: boolean;
  $isAsyncValidators: boolean;
  $isViewChangeListeners: boolean;
  $isError: boolean;
  $isSuspend: boolean;
  $isStable: boolean;
  $isStable(): Promise<any>;

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;
  $setEmpty(): void;
  $setUntouched(): void;
  $setTouched(): void;
  $commitViewValue(): void;
  $rollbackViewValue(): void;
  $isValid: boolean;
  $isPending: boolean;
  $isDirty: boolean;
  $isPristine: boolean;
  $isViewValue: boolean;
  $isModelValue: boolean;
  $isSparsers: boolean;
  $isFormatters: boolean;
  $isValidators: boolean;
  $isAsyncValidators: boolean;
  $isViewChangeListeners: boolean;
  $isError: boolean;
  $isSuspend: boolean;
  $isStable: boolean;
  $isStable(): Promise<any>;

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

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

/**
 * @deprecated Use `getAngularJSGlobal`

 * @publicApi
 */
export function
  getAngularLib(): any {
    return
    getAngularJSGlobal();
}

/**
 * Resets the AngularJS global.
 *
 * Used when AngularJS is loaded lazily,
 * and not available on `window`. Use it as a module to prevent webpack
g

 * (see https://github.com/angular/angular/issues/30050).
 *
 * @publicApi
 */
export function
  setAngularJSGlobal(ng: any): void {
    angular = ng;
}

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

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

// Do not declare as `module` to avoid webpack bug

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

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';
/*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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 *
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 *
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 */

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';
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; }
}

/**
 * A helper function to use when unit testing Angular services that depend upon upgraded AngularJS
 * services. In the following code snippet, HeroesService is an Angular service that depends upon an
 * Angular service, 'titleCase'. In the normal * Services that are (or have dependancies on) an upgraded AngularJS service, will be instantiated
 * as needed by the AngularJS 'Injector'.
 *
 * 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 'createAngularJSTestingModule'.
 *
 * Here is the example application and its unit tests that use 'createAngularTestingModule'
 */

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

  return AngularTestingModule;
}

/**
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 *
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 */

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 Angular services that depend upon downgraded Angular
 * services. This function returns an AngularJS module that is configured to wire up the AngularJS
 * injectors without the need to actually bootstrap a hybrid application.
 */

export function createAngularJSTestingModule(angularJSModules: string[], strictDi?: boolean): Type<any> {
  angular.module('$$AngularJSTestingModule', angularJSModules)
    .constant(UPGRADE_APP_TYPE_KEY, UpgradeAppType.Static)
    .factory(INJECTOR_KEY, () => injector);

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

```typescript
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);
    }])
    .name;}

export {createAngularTestingModule} from './src/create_angular_testing_module';
export {createAngularJSTestingModule} from './src/create_angularjs_testing_module';

export * from './public_api';

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';
```

This helper is for testing services not components. 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. 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.

```typescript
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);
    }])
    .name;}

export {createAngularTestingModule} from './src/create_angular_testing_module';
export {createAngularJSTestingModule} from './src/create_angularjs_testing_module';

export * from './public_api';

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';
```
Angular

========

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

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

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

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1047774535_1591199783.98/0/angular-upgrade-9-0-7-src-zip/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/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/constants.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/src/common/src/downgrade_component.js
* /opt/ws_local/PERMITS_SQL/1047774535_1591199783.98/0/angular-upgrade-9-0-7-src-zip/esm5/public_api.js
* /opt/ws_local/PERMITS_SQL/1047774535_1591199783.98/0/angular-upgrade-9-0-7-src-zip/esm5/src/common/src/downgrade_component_adapter.js
* /opt/ws_local/PERMITS_SQL/1047774535_1591199783.98/0/angular-upgrade-9-0-7-src-zip/esm2015/index.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/src/common/src/util.js
* /opt/ws_local/PERMITS_SQL/1047774535_1591199783.98/0/angular-upgrade-9-0-7-src- zip/esm5/static/testing/index.js
* /opt/ws_local/PERMITS_SQL/1047774535_1591199783.98/0/angular-upgrade-9-0-7-src- zip/esm5/static/src/angular1_providers.js
* /opt/ws_local/PERMITS_SQL/1047774535_1591199783.98/0/angular-upgrade-9-0-7-src- zip/esm5/static/src/downgrade_injectable.js
* /opt/ws_local/PERMITS_SQL/1047774535_1591199783.98/0/angular-upgrade-9-0-7-src- zip/esm5/static/testing/public_api.js
* /opt/ws_local/PERMITS_SQL/1047774535_1591199783.98/0/angular-upgrade-9-0-7-src- zip/esm5/static/src/upgrade_component.js
* /opt/ws_local/PERMITS_SQL/1047774535_1591199783.98/0/angular-upgrade-9-0-7-src- zip/esm5/static/src/upgrade_component_adapter.js
* /opt/ws_local/PERMITS_SQL/1047774535_1591199783.98/0/angular-upgrade-9-0-7-src- zip/esm5/static/src/downgrade_component_adapter.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/esm5/static/src/downgrade_injectable.js
* /opt/ws_local/PERMITS_SQL/1047774535_1591199783.98/0/angular-upgrade-9-0-7-src- zip/esm5/static/public_api.js
* /opt/ws_local/PERMITS_SQL/1047774535_1591199783.98/0/angular-upgrade-9-0-7-src- zip/esm5/static/index.js
* /opt/ws_local/PERMITS_SQL/1047774535_1591199783.98/0/angular-upgrade-9-0-7-src- zip/esm5/static/index.js
* /opt/ws_local/PERMITS_SQL/1047774535_1591199783.98/0/angular-upgrade-9-0-7-src- zip/esm5/static/index.js
* /opt/ws_local/PERMITS_SQL/1047774535_1591199783.98/0/angular-upgrade-9-0-7-src- zip/esm5/static/index.js
* /opt/ws_local/PERMITS_SQL/1047774535_1591199783.98/0/angular-upgrade-9-0-7-src- zip/esm5/static/index.js
* /opt/ws_local/PERMITS_SQL/1047774535_1591199783.98/0/angular-upgrade-9-0-7-src- zip/esm5/static/index.js
* /opt/ws_local/PERMITS_SQL/1047774535_1591199783.98/0/angular-upgrade-9-0-7-src- zip/esm5/static/index.js
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import { 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';
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; }
}

/**
 * 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. The `Ng2AppModule` is the Angular part of our hybrid application and the `ng1AppModule` is the AngularJS part. Once this is done we can get hold of services via the Angular `Injector` as normal. Services that are (or have dependencies on) an upgraded AngularJS service, will be instantiated as needed by the AngularJS `injector`. In the following code snippet, `HeroesService` is an Angular service that depends upon an AngularJS service, `titleCase`. Here is the example application and its unit tests that use `createAngularTestingModule` and `createAngularJSTestingModule`.

```typescript
/**
 * 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` 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 `injector` as normal. Services that are (or have dependencies on) a downgraded Angular service, will be instantiated as needed by the Angular root `injector`. In the following code snippet, `heroesService` is a downgraded Angular service that we are accessing from AngularJS as an AngularJS service, `titleCase`.

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

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

```typescript
export function createAngularJSTestingModule(angularModules: any[]): string {
  return ng.module_('$$angularJSTestingModule', angularModules)
    .constant(UPGRADE_APP_TYPE_KEY, UpgradeAppType Static)
    .factory('Injector', () => TestBed.configureTestingModule({
      imports: angularModules,
      providers: [
        ng.INJECTOR, ng.IInjectorService
      ]
    }).injector());
}
```

Do not use `createAngularTestingModule` in the same spec as
`createAngularJSTestingModule`.

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

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

export {module_ as ɵangular_packages_upgrade_static_testing_testing_a} from
  ' '../../src/common/src/angular1';
export {INJECTOR_KEY as ɵangular_packages_upgrade_static_testing_testing_d, UPGRADE_APP_TYPE_KEY as
  ɵangular_packages_upgrade_static_testing_testing_b} from ' '../../src/common/src/constants';
export {UpgradeAppType as ɵangular_packages_upgrade_static_testing_testing_c} from
  ' '../../src/common/src/util';
```
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_]+(.)/g;\n function onError(e) {\n
// TODO: (misko): We seem to not have a stack trace here!\n
if
(console.error) {\n
console.error(e, e.stack);\n
}\n
else {\n
// tslint:disable-next-line:noconsole\n
console.log(e, e.stack);\n
}\n
throw e;\n }\n function controllerKey(name) {\n
return '$' + name + 'Controller';\n }\n function directiveNormalize(name) {\n
return
name.replace(DIRECTIVE_PREFIX_REGEXP, '')\n
.replace(DIRECTIVE_SPECIAL_CHARS_REGEXP,
function (_, letter) { return letter.toUpperCase(); });\n }\n function getTypeName(type) {\n
// Return the
name of the type or the first line of its stringified version.\n
return type.overriddenName || type.name ||
type.toString().split('\\n')[0];\n }\n function getDowngradedModuleCount($injector) {\n
return
$injector.has(DOWNGRADED_MODULE_COUNT_KEY) ?
$injector.get(DOWNGRADED_MODULE_COUNT_KEY) :\n
0;\n }\n function
getUpgradeAppType($injector) {\n
return $injector.has(UPGRADE_APP_TYPE_KEY) ?
$injector.get(UPGRADE_APP_TYPE_KEY) :\n
0 /* None */;\n }\n function isFunction(value) {\n
return typeof value === 'function';\n }\n function validateInjectionKey($injector, downgradedModule,
injectionKey, attemptedAction) {\n
var upgradeAppType = getUpgradeAppType($injector);\n
var
downgradedModuleCount = getDowngradedModuleCount($injector);\n
// Check for common errors.\n
switch (upgradeAppType) {\n
case 1 /* Dynamic */:\n
case 2 /* Static */:\n
if
(downgradedModule) {\n
throw new Error(\"Error while \" + attemptedAction + \": 'downgradedModule'
unexpectedly specified.\\n\" +\n
'You should not specify a value for \\'downgradedModule\\', unless
you are downgrading ' +\n
'more than one Angular module (via \\'downgradeModule()\\').');\n
}\n
break;\n
case 3 /* Lite */:\n
if (!downgradedModule && (downgradedModuleCount
>= 2)) {\n
throw new Error(\"Error while \" + attemptedAction + \": 'downgradedModule' not
specified.\\n\" +\n
'This application contains more than one downgraded Angular module, thus you
need to ' +\n
'always specify \\'downgradedModule\\' when downgrading components and
injectables.');\n
}\n
if (!$injector.has(injectionKey)) {\n
throw new Error(\"Error
while \" + attemptedAction + \": Unable to find the specified downgraded module.\\n\" +\n
'Did you
forget to downgrade an Angular module or include it in the AngularJS ' +\n
'application?');\n
}\n
break;\n
default:\n
throw new Error(\"Error while \" + attemptedAction + \": Not a
valid '@angular/upgrade' application.\\n\" +\n
'Did you forget to downgrade an Angular module or
include it in the AngularJS ' +\n
'application?');\n
}\n }\n var Deferred = /** @class */ (function
() {\n
function Deferred() {\n
var _this = this;\n
this.promise = new Promise(function (res, rej) {\n
_this.resolve = res;\n
_this.reject = rej;\n
});\n
}\n
return Deferred;\n }());\n
/**\n * @return Whether the passed-in component implements the subset of the\n * `ControlValueAccessor`
interface needed for AngularJS `ng-model`\n * compatibility.\n */\n function
supportsNgModel(component) {\n
return typeof component.writeValue === 'function' &&\n
typeof
component.registerOnChange === 'function';\n }\n /**\n * Glue the AngularJS `NgModelController` (if it
exists) to the component\n * (if it implements the needed subset of the `ControlValueAccessor` interface).\n
*/\n function hookupNgModel(ngModel, component) {\n
if (ngModel && supportsNgModel(component)) {\n
ngModel.$render = function () { component.writeValue(ngModel.$viewValue); };\n
component.registerOnChange(ngModel.$setViewValue.bind(ngModel));\n
if (typeof
component.registerOnTouched === 'function') {\n
component.registerOnTouched(ngModel.$setTouched.bind(ngModel));\n
}\n
}\n }\n /**\n * Test
two values for strict equality, accounting for the fact that `NaN !== NaN`.\n */\n function strictEquals(val1,
val2) {\n
return val1 === val2 || (val1 !== val1 && val2 !== val2);\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 INITIAL_VALUE =
{\n
__UNINITIALIZED__: true\n };\n var DowngradeComponentAdapter = /** @class */ (function () {\n
function DowngradeComponentAdapter(element, attrs, scope, ngModel, parentInjector, $injector, $compile,
$parse, componentFactory, wrapCallback) {\n
this.element = element;\n
this.attrs = attrs;\n

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this.scope = scope;n
this.ngModel = ngModel;n
this.parentInjector = parentInjector;n
this.injector = injector;n
this.$compile = $compile;n
this.$injector = $injector;n
this.$parse = $parse;n
this.componentScope = scope.$new();

DowngradeComponentAdapter.prototype.compileContents =
    function () {
        var _this = this;n
        var compiledProjectableNodes = [];n
        var linkFs = projectableNodes.map(function (nodes) {
            return _this.$compile(nodes); });n
        var linkFn = function (clone) {
            compiledProjectableNodes.push(clone);
            _this.element.append(clone);
        };

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

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

DowngradeComponentAdapter.prototype.setupInputs = function (manuallyAttachView, propagateDigest) {
    var _this = this;n
    var attrs = this.attrs;n
    var inputs = this.componentFactory.inputs || [];
    var _loop_1 = function (i) {
        var input =
            new PropertyBinding(inputs[i].propName, inputs[i].templateName);
        var expr = null;
        if (attrs.hasOwnProperty(input.attr)) {
            var observeFn = (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.$observe(input.attr, observeFn);
            // Use `$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 `$observe()`
            // callback.
            var unwatch =
                this.componentScope.$watch(function () {
                    unwatch();
                    unwatch = null;
                    observeFn(attrs[input.attr]);
                });n
        } else if (attrs.hasOwnProperty(input.bindAttr)) {
            expr = attrs[input.bindAttr];
        } else if (attrs.hasOwnProperty(input.bracketAttr)) {
            expr = attrs[input.bracketAttr];
        } else if (attrs.hasOwnProperty(input.bindonAttr)) {
            expr =
                attrs[input.bindonAttr];
        } else if (attrs.hasOwnProperty(input.bracketParenAttr)) {
            expr =
                attrs[input.bracketParenAttr];
        }
        if (expr != null) {
            var watchFn =
                (function (prop) { return function (currValue, prevValue) {
                    return _this.updateInput(prop,
                        prevValue, currValue); }); })(input.prop);
            this.componentScope.$watch(expr,
                watchFn);n
        }
    };

    detectChanges = function () { return _this.changeDetector.detectChanges(); };
    prototype =

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 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; };
on the given content selectors.

```typescript
function findMatchingNgContentIndex(node, ngContentSelectors) {
    if (ngContentIndex !== null) {
        var wildcardNgContentIndex = findMatchingNgContentIndex(node, ngContentSelectors);
    } else {
        ngContentIndices.push(i);
    }
}
```

The `findMatchingNgContentIndex()` function returns a `SyncPromise` which makes 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 `downgraded` component.

```typescript
function downgradeComponent() {
    return ngContentIndices.length ? ngContentIndices[0] : null;
}
```

**Examples**

- Let’s assume that you have an Angular component called `ng2Heroes` that needs a library for hybrid upgrade apps that support AOT compilation.
- This helper function returns a factory function to be used for registering a new AngularJS wrapper directive for `\downgrading\` an Angular 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).
- For more details and examples on downgrading Angular components to AngularJS components please visit the [Upgrade guide](guide/upgrade#using-angular-components-from-angularjs).
- 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 `\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).

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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
  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

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@usageNotes

* ### Examples
*

* First ensure that the service to be downgraded is provided in an
  function that provides access to the Angular
  * service identified by the `token` parameter.

* library for hybrid upgrade apps that support AOT compilation*

* This helper function returns a factory
  service to be accessible from AngularJS.

* Part of the [upgrade/static](api?query=upgrade%2Fstatic)

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found in the LICENSE file at

SyncPromise.all }

/**
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 *
 * Use of

 * $parse
 *
 * - to preserve the synchronous nature of AngularJS's `$compile`.
 *
 * @return {Synchronous promise-like object to wrap parent
 * injectors. * * @preserve
*NgModule*\`*` that will be part of the upgrade application. For example, let’s assume we have

```typescript
#define HeroesService\`*

* `@example upgrade/static/ts/full/module.ts region="ng2-heroes-service"`*\n
*and that we have included this in our upgrade app `NgModule\`*\n
* `@example upgrade/static/ts/full/module.ts region="ng2-module"`*\n
*Now we can register the `downgradeInjectable` factory function for the service on an AngularJS module.

```typescript
* `@example upgrade/static/ts/full/module.ts region="downgrade-ng2-heroes-service"`*\n
*Inside an AngularJS component's controller we can get hold of the\`*` *downgraded service via the name we gave when downgrading.

```typescript
* `@example upgrade/static/ts/full/module.ts region="example-app"`*\n
* For example, it is _OK_ to use a downs" + INJECTOR_KEY + "e\{code\} ++

```typescript
var returnInject\`[injectorKey] = \"\" + INJECTOR_KEY + ");\n
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*/

// We store the ng1 injector so that the provider in the module injector can access it\n
// Then we \`return\` the ng1 injector from the module injector, which triggers the provider to read\n
```

```typescript
var tempInjectorRef = null;\n
function setTempInjectorRef(injector) {\n    tempInjectorRef = injector;\n}
```

```typescript
\n```

```typescript
function parseFactory(i) {\n    return i.get('Sparse');\n}
```

```typescript
\n```

```typescript
function angular1Providers = [];\n
// We must use exported named functions for the ng2 factories to keep the compiler happy:\n
// > Metadata collected contains an error that will be reported at runtime:\n
// > Consider replacing the function or lambda with a reference to an exported function\n
```typescript
\n```

```typescript
```

```typescript
```
```javascript
NgAdapterInjector.prototype.get = function (token, notFoundValue) {
    if (notFoundValue === core.NOT_FOUND_CHECKONLYELEMENTINJECTOR) {
        return notFoundValue;
    }
    return this.modInjector.get(token, notFoundValue);
}

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 */

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 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.
 *
 * `\@NgModuleFactory` 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()`.
 * - `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.
 *
 * @example upgrade/static/ts/lite/module.ts region="basic-how-to"
 *
 * For more details on how to use `downgradeModule()` see [Upgrading for Performance](guide/upgrade-performance).
 *
 * Apart from `UpgradeModule`, you can use the rest of the `upgrade/static` helpers as usual.
 *
 * 1. Unlike `UpgradeModule`, `\@link downgradeModule downgraded component` does not automatically run `\$digest()` when changes are detected in the Angular part of the application.
 * 2. Because the Angular pieces (e.g. `\@link NgZone` Angular zone) are compiled separately, there is not a tight coupling between the Angular and AngularJS parts of the hybrid component.
 *
 * In case you need both frameworks to run `\$digest()` on the same page, you can use the same `\$digest()` signal from the `UpgradeModule` component.
 *
 * See [Upgrading for Performance](guide/upgrade-performance) for more details.
 */
```

---

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 You can manually trigger a change detection run in Angular using `@link NgZone#run` or `@link NgZone#run(() => {})`.

Downgrading multiple modules

- Each downgraded component/injectable needs to be shared among all downgraded modules, you can provide them as

- `StaticProvider` s, when creating the `PlatformRef` (e.g. `platformBrowserDynamic`).

- When using `@link PlatformRef#bootstrapmodule
  `bootstrapModule()`} or

### Downgrading multiple modules

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

- Things to keep in mind, when downgrading multiple modules:
  - Each downgraded component/injectable needs to be explicitly associated with a downgraded module. See ` downgradeComponent()` and ` downgradeInjectable()` for more details.

- If you want some injectables to be shared among all downgraded modules, you can provide them as

  - `StaticProvider`s, when creating the `PlatformRef` (e.g. `platformBrowserDynamic`).

  - When using `@link PlatformRef#bootstrapmodule
    `bootstrapModule()`} or

    `platformBrowserDynamic`).

    - When using `@link PlatformRef#bootstrapmodulefactory
      `bootstrapModuleFactory()`} to

    - Create an `ng1` module to bootstrap.

    ```
    module(angular1Providers).
      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;
                    )
        
    function upgradeModule(moduleFactoryOrBootstrapFn) {
        var lazyModuleName =
            UPGRADE_MODULE_NAME + ".lazy" + ++moduleUid;
        var lazyModuleRefKey = "" + LAZY_MODULE_REF + lazyModuleName;
        var lazyModuleRefKey = "" + INJECTOR_KEY +
            lazyModuleName;
        var bootstrapFn = moduleFactoryOrBootstrapFn
            return bootstrapFn = angular1Providers.
            factory(angular1Providers).
              setTempInjectorRef($injector);
              var result = {
                promise:
                    injector = result.injector = new
                        NgAdapterInjector(ref.injector);
                        injector.get($INJECTOR);
                        return injector;
                })
        }
    })
    function (Sinjector) {
      var injector =.Sinjector;
      var result = {
        promise:
            bootstrapFn(angular1Providers).
                then(function (ref) {
                  injector = result.injector = new
                      injector.get(SINJECTOR);
                      return injector;
                  )
              )
        }
    }
    function (Sinjector, $provide) {
      $provide.constant(DOWNGRADED_MODULE_COUNT_KEY, getDowngradedModuleCount(Sinjector) + 1);
    }
    ```

- `AngularJS` will transform `link: xyz` to `compile: () => xyz`. So we can only tell there was

  - user-defined `compile` if there is no `link`. In other cases, we will just ignore `compile`. 

```
UpgradeHelper.prototype.getTemplate = function ($injector, directive, fetchRemoteTemplate, $element) {
    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');
    } else {
        return new Promise(function (resolve, reject) {
            var $httpBackend = $injector.get($HTTP_BACKEND);
            $httpBackend('GET', url_1, null, function (status, response) {
                if (status === 200) {
                    resolve($templateCache_1.put(url_1, response));
                } else {
                    reject("GET component template from '" + url_1 + "' returned '" + status + ": " + response + "'");
                }
            });
        });
    }
};

UpgradeHelper.prototype.buildController = function (controllerType, $scope) {
    var locals = { '$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
    // $element
    // https://github.com/jquery/jquery/blob/e743c6d28553267f955f71ea7248377915613fd9/src/manipulation.js#L223
    // https://github.com/angular/angular.js/blob/26ddc5f830f902a3d22f4b2aad70b86d4d688c82/src/jqLite.js#L306-L312
    // `cleanData` will invoke the AngularJS `$destroy` DOM event
    // https://github.com/angular/angular.js/blob/26ddc5f830f902a3d22f4b2aad70b86d4d688c82/src/jqLite.js#L1911-L1924
    element.cleanData($element);
    element.cleanData($element.querySelectorAll('*'));
};

UpgradeHelper.prototype.prepareTransclusion = function () {
    var _this = this;
    var transclude = this.directive.transclude;
    var contentChildNodes = this.extractChildNodes();
    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[selector] = slotName;
                slots_1[slotName] = null; // `null`:
                Defined but not yet filled;
                filledSlots_1[slotName] = optional; // Consider optional slots as filled;
        }
    }
};
});\n
// Add the matching elements into their slot.\n
contentChildNodes.forEach(function (node) {\n
var slotName =
slotMap_1[directiveNormalize(node.nodeName.toLowerCase())];\n
if (slotName) {\n
filledSlots_1[slotName] = true;\n
slots_1[slotName] = slots_1[slotName] || [];\n
slots_1[slotName].push(node);\n
}\n
else {\n
$template.push(node);\n
}\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

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function getOrCall(property) {
    var args = []; 
    for (var _i = 0; _i < arguments.length; _i++) {
        args[_i] = arguments[_i];
    }
    return isFunction(property) ? property.apply(void 0, __spread(args)) : property;
}

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 + "'.");
}

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 *
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 */

var NOT_SUPPORTED = 'NOT_SUPPORTED';
var INITIAL_VALUE$1 = {
    __UNINITIALIZED__: true
};

class Bindings {
    constructor() {
        this.twoWayBoundProperties = [];
        this.twoWayBoundLastValues = [];
        this.expressionBoundProperties = [];
        this.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 SSCOPE = injector.get(SSCOPE);
        // QUESTION 1: Should we create an isolated scope if the scope is only true?
        // QUESTION 2: Should we make the scope accessible through `scope` or `isolateScope()`?
        this.SComponentScope = SSCOPE.$new();
        this.initializeOutputs();
        UpgradeComponent.prototype.ngOnInit = function () {
            // Collect contents, insert and compile template
            var attachChildNodes = this.helper.prepareTransclusion();
            var linkFn = this.helper.compileTemplate();
            // Instantiate controller
            var controllerType = this.directive.controller;
            var bindToController = this.directive.bindToController;
            if (controllerType) {
                this.controllerInstance = this.helper.buildController(controllerType,
                
            thor
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```javascript
else if (bindToController) {
    throw new Error("Upgraded directive \"bindToController\" but no controller.\n" + this.directive.name + \\
    }\n    Set up outputs\n    this.bindingDestination = bindToController ? this.controllerInstance : this.componentScope;\n    this.bindOutputs();\n    // Require other controllers\n    var requiredControllers = this.helper.resolveAndBindRequiredControllers(this.controllerInstance);\n    // Hook: $onChanges\n    if (this.pendingChanges) {\n        this.forwardChanges(this.pendingChanges);\n        this.pendingChanges = null;\n    }\n    // Hook: $onInit\n    if (this.controllerInstance && isFunction(this.controllerInstance.$onInit)) {\n        this.controllerInstance.$onInit();\n    }\n    // Hook: $doCheck\n    if (this.controllerInstance && &isFunction(this.controllerInstance.$doCheck)) {\n        var callDoCheck = function () { return _this.controllerInstance.$doCheck(); }\n        this.unregisterDoCheckWatcher = this.componentScope.$parent.$watch(callDoCheck);\n    }\n    var this.directive = this.directive.scope;\n    var linkFn = this.componentScope.$parent.$watch(linkFn);\n    if (postLink) {\n        postLink(this.componentScope, this.controllerInstance, transcludeFn);\n    }\n    UpgradeComponent.prototype.ngOnChanges = function (changes) {\n        if (!this.bindingDestination) {\n            this.pendingChanges = changes;\n        } else {\n            this.forwardChanges(changes);
        }\n    };
    UpgradeComponent.prototype.initializeBindings = function (directive) {\n        varbtcIsObject = typeof directive.bindToController === 'object';\n        if (btcIsObject && Object.keys(directive.scope).length) {\n            throw new Error("Binding definitions on scope and controller at the same time is not supported.\n" + this.directive.name + \\
        }\n        var context = btcIsObject ? directive.bindToController : this.directive.scope;\n        var bindings = new Bindings();\n        if (typeof context == 'object') {\n            Object.keys(context).forEach(function (propName) {\n                var definition = context[propName];\n                var bindingType = definition.charAt(0);\n                switch (bindingType) {\n                    case '@':\n                        case '<':\n                            // We don't need to do anything special. They will be defined as inputs on the\n                        break;\n                    case '=':\n                        case '&':\n                            case '<':\n                                // We don't
                            break;\n                        default:\n                            case '=':\n                                bindings.twoWayBoundProperties.push(propName);\n                            break;\n                            break;\n                        default:\n                            var json = JSON.stringify(context);\n                            throw new Error("Unexpected mapping \"\n```

UpgradeComponent.prototype.initializeOutputs = function () {
    var _this = this;
    // Initialize the outputs for `=` and `&` bindings
    this.bindings.twoWayBoundProperties.concat(this.bindings.expressionBoundProperties)
    .forEach(function (propName) {
        var outputName = _this.bindings.propertyToOutputMap[propName];
        _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.bindingDestination[propName] = function (value) { return emitter.emit(value); }
        });
    };

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

    return UpgradeComponent;
};

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 *
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 */

/**
 * @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*
 *
 * See also the [@link UpgradeModule#upgrading-an-angular-1-service Upgrading an AngularJS service] below.
 *
 * *4. Creation of an AngularJS service that wraps and exposes an AngularJS component so that it can be injected into an Angular context. See
 * 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
 * 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`
 * 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`
 * 0. Creation of an AngularJS directive that wraps and exposes an AngularJS component so that it can be used in an AngularJS template. See `downgradeComponent`
 */

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 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 AngularJS directive, which bootstraps the Angular component at its location in the DOM. See `downgradeComponent`
* 7. Whenever an upgraded/downgraded component is instantiated the host element is owned by the framework doing the instantiation. The other framework then instantiates and owns the view for that component.

This implies that the component bindings will always follow the semantics of the

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instantiation framework.

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

3. However the template binding syntax will always use the Angular style, e.g. square brackets (`[...]`) for property binding.

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

9. The new application is running in an Angular zone, and therefore it no longer needs calls to `\$.apply()`.

### The `UpgradeModule` class

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

* Importing this `NgModule` will add providers for the core AngularJS services.

* It also contains properties to access the `UpgradeModule#injector root injector`, the bootstrap `NgZone` and the AngularJS `Injector`.

> ### Examples

* * * [AngularJS Service](https://docs.angularjs.org/api/ng/service) to the root injector.* * * It 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 `UpgradeModule#injector root injector`, the bootstrap `NgZone` and the AngularJS `$injector`.

### Examples

* [AngularJS Service](https://docs.angularjs.org/api/ng/service) to the root injector.* * * It 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 `UpgradeModule#injector root injector`, the bootstrap `NgZone` and the AngularJS `$injector`.

### Upgrading an AngularJS service

* There is no specific API for upgrading an AngularJS service.

Instead you should just follow these steps:

* Let's say you have an AngularJS service:

```

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* It also contains properties to access the `UpgradeModule#injector root injector`, the bootstrap `NgZone` and the AngularJS `$injector`.

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

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

    exports.UpgradeComponent = UpgradeComponent;
    exports.UpgradeModule = UpgradeModule;
    exports.VERSION = VERSION;
    exports.downgradeComponent = downgradeComponent;
    exports.downgradeInjectable = downgradeInjectable;
    exports.downgradeModule = downgradeModule;
    exports.getAngularJSGlobal = getAngularJSGlobal;
    exports.getAngularLib = getAngularLib;
    exports.setAngularJSGlobal = setAngularJSGlobal;
    exports.setAngularLib = setAngularLib;
    exports.angular_packages_upgrade_static_static_a = injectorFactory;
    exports.angular_packages_upgrade_static_static_b = rootScopeFactory;
    exports.angular_packages_upgrade_static_static_c = compileFactory;
    exports.angular_packages_upgrade_static_static_d = parseFactory;
    exports.angular_packages_upgrade_static_static_e = angular1Providers;

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

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

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

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

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 */

(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';

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    PARTICULAR PURPOSE, OR NON-INFRINGEMENT. See the Apache Version 2.0 License for specific language governing permissions
    and limitations under the License.
    ****************************************************************************/
angular.resumeBootstrap();

angular.resumeBootstrap();

getTestability = function (e) { return angular.getTestability(e); }

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 */

$COMPILE = '$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 = '$$angularCompiler';

DOWNGRADED_MODULE_COUNT_KEY = '$$angularDowngradedModuleCount';

GROUP_PROJECTABLE_NODES_KEY = '$$angularGroupProjectableNodes';

INJECTOR_KEY = '$$angularInjector';

LAZY_MODULE_REF = '$$angularLazyModuleRef';

NG_ZONE_KEY = '$$angularNgZone';

UPGRADE_APP_TYPE_KEY = '$$angularUpgradeAppType';

REQUIRE_INJECTOR = '?^^' + INJECTOR_KEY;

REQUIRE_NG_MODEL = '?ngModel';

UPGRADE_MODULE_NAME = '$$UpgradeModule';

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

$injector = null;

injector$1;

$injectorFactory() {
    return $injector;
}

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

createAngularTestingModule(angularJSModules, strictDi) {

* @publicApi
*/


module_(`$$angularJSTestingModule`, angularJSModules)\n    .constant(UPGRADE_APP_TYPE_KEY, 2 /* Static */)\n    .factory(INJECTOR_KEY, function () { return injector$1; })\n    .injector = injector([`ng`, `$$angularJSTestingModule`], strictDi)\n    return AngularTestingModule; \n\n// **\n* @license
* 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* A helper function to use when unit testing AngularJS services that depend upon downgraded Angular\n* services. \n* \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* \n* This makes it simpler and faster to unit test services. \n* \n* Use the returned AngularJS module in a call to \n* \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* \n* In the following code snippet, we are configuring the `Sinjector` with two modules: \n* \n* The AngularJS `ng1AppModule`, which is the AngularJS part of our hybrid application and the \n* `Ng2AppModule`, which is the Angular part. \n* \n* The helper sets up global variables to hold the shared Angular and AngularJS injectors. \n* \n* ** Only call this helper once per spec. \n* \n* Do not use `createAngularJSTestingModule` in the same spec as `createAngularTestingModule`.

```javascript
factory(INJECTOR_KEY, [INJECTOR, \n testing TestBed.configureTestingModule({ \n imports: angularModules, \n providers: [{ \n provide: SINJECTOR, useValue: Sinjector }\n }]);\n return testing TestBed.inject(core.Injector);\n\n// **\n* @license
* 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* A helper function to use when unit testing AngularJS services that depend upon downgraded Angular\n* services. \n* \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* \n* This makes it simpler and faster to unit test services. \n* \n* Use the returned AngularJS module in a call to \n* \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* \n* In the following code snippet, we are configuring the `Sinjector` with two modules: \n* \n* The AngularJS `ng1AppModule`, which is the AngularJS part of our hybrid application and the \n* `Ng2AppModule`, which is the Angular part. \n* \n* The helper sets up global variables to hold the shared Angular and AngularJS injectors. \n* \n* ** Only call this helper once per spec. \n* \n* Do not use `createAngularJSTestingModule` in the same spec as `createAngularTestingModule`.

```
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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.min.js.map

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* /opt/ws_local/PERMITS_SQL/1047774535_1591199783.98/0/angular-upgrade-9-0-7-src-zip/static/testing.d.ts
* /opt/ws_local/PERMITS_SQL/1047774535_1591199783.98/0/angular-upgrade-9-0-7-src-zip/static/static.d.ts
* /opt/ws_local/PERMITS_SQL/1047774535_1591199783.98/0/angular-upgrade-9-0-7-src-zip/upgrade.d.ts
* /opt/ws_local/PERMITS_SQL/1047774535_1591199783.98/0/angular-upgrade-9-0-7-src-zip/static/static.d.ts
* /opt/ws_local/PERMITS_SQL/1047774535_1591199783.98/0/angular-upgrade-9-0-7-src-zip/static/static/testing/testing.d.ts

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***************************************************************************** */
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```javascript

```
export interface IDirectiveCompileFn {
  (templateElement: IAugmentedJQuery, templateAttributes: IAttributes, transclude: ITranscludeFunction): void;
}

export interface IDirectivePrePost {
  (pre?: IDirectivePrePost, post?: IDirectivePrePost, templateLink: IDirectiveLinkFn): IComponent;
}

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}

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?: DirectiveRequireProperty;
  template?: string|Function;
  templateUrl?: string|Function;
  transclude?: DirectiveTranscludeProperty;
}

export interface IAttributes {
  $observe(attr: string, fn: (v: string) => void): void;
}

export interface ITranscludeFunction {
  // If the scope is provided, then the cloneAttachFn must be as well.
  (scope: IScope, cloneAttachFn: ICloneAttachFunction): IAugmentedJQuery;
}

export interface IAugmentedJQuery {
  append?: (content: IAugmentedJQuery | string) => IAugmentedJQuery;
}

export interface IProvider {
  $get: IInjectable;
}

export interface IProvideService {
  provider(token: Ng1Token, provider: IProvider): IProvider;
  service(token: Ng1Token, type: IInjectable): IProvider;
  constant(token: Ng1Token, value: any): void;
  decorator(token: Ng1Token, factory: IInjectable): void;
}

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

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;
}

export interface ITemplateCacheService extends ICacheObject {}

export interface ITemplateRequestService {
  (template: string|any /* TrustedResourceUrl */, ignoreRequestError?: boolean): Promise<string>;
}

export type 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;
  $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: any;
  $pending: any;
  $untouched: boolean;
  $touched: boolean;
  $pristine: boolean;
  $dirty: boolean;
  $valid: boolean;
  $invalid: boolean;
  $name: string;
}

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

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

let angular: {
  bootstrap: (e: Element, modules: (string | IInjectable)[], config?: IAngularBootstrapConfig) => IInjectorService,
  module: (prefix: string, dependencies?: string[]): IModule,
  element: (e: string | Element | Document | IAugmentedJQuery) => IAugmentedJQuery;
}
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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)[:\-_]+\./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.has(UPGRADE_APP_TYPE_KEY) ? $injector.get(UPGRADE_APP_TYPE_KEY) :
    UpgradeAppType.None;
}

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

export function validateInjectionKey($injector: IInjectorService,
      downgradeModule: string, injectionKey: string,
      attemptedAction: string): void {
  const upgradeAppType = getUpgradeAppType($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 + ': ' +
          'You should not specify a value for \
            \'downgradedModule\', unless you are downgrading ' +
          'more than one Angular module (via \'downgradeModule()\').');
      }
      break;
    case UpgradeAppType.Lite:
      if (!downgradedModule && (downgradedModuleCount >= 2)) {
        throw new Error(
          'Error while ' + attemptedAction + ': ' +
          '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. ' +
        'Did you forget to downgrade an Angular module or include it in the AngularJS ' +
        'application?');
  }
}

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 {
  // App NOT using `@angular/upgrade`. (This should never happen in an 'ngUpgrade' app.)
  None,

  // App using the deprecated '@angular/upgrade' APIs (a.k.a. dynamic 'ngUpgrade').
  Dynamic,

  // App using '@angular/upgrade/static' with 'UpgradeModule'.
  Static,
}

/**
 * @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); }
  }
}
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 {
  return val1 === val2 || (val1 !== val1 && val2 !== val2);
}

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 */

import {ApplicationRef, ChangeDetectorRef, ComponentFactory, ComponentRef, EventEmitter, Injector, OnChanges, SimpleChange, SimpleChanges, StaticProvider, Testability, TestabilityRegistry, Type} from '@angular/core';

import {IAttributes, IAugmentedJQuery, ICompileService, 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>;
  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.changeDetector = this.componentRef.changeDetectorRef;
    this.changeDetector = this.componentRef.changeDetectorRef;
    this.component = this.componentRef.instance;
    // testability hook is commonly added during component 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.componentScope);
  }

  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)
                return;
            }
            this.updateInput(prop, prevValue, currValue);
            prevValue = currValue;
          };
        })(input.prop);
        attrs.$observe(input.attr, observeFn);
      }
    }
  }

  updateInput(prop: string, prevValue: any, currValue: any): void {
    this.$injector.get($SCOPE).$digest();
  }

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

        // If opted out of propagating digests, invoke change detection
        when inputs change.
        if (!propagateDigest) {
          detectChanges();
        }
      }));
    }

    // If not opted out of
    propagating digests, invoke change detection on every digest
    if (propagateDigest) {
      this.componentScope.$watch(this.wrapCallback(detectChanges));
    }

    // If necessary, attach the view so that
    it will be dirty-checked.
    // (Allow time for the initial input values to be set and `ngOnChanges()`
    to be called.)
    if (manuallyAttachView || !propagateDigest) {
      let unwatch: Function|null = this.componentScope.$watch(() => {
        unwatch !();
        unwatch = null;
        const appRef =
          this.parentInjector.get<ApplicationRef>(ApplicationRef);
        appRef.attachView(this.componentFactory.hostView);
      });
    }

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

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

    registerCleanup() {
      const testabilityRegistry = this.componentFactory.testabilityRegistry;
      const destroyComponentRef =
        this.componentFactory.componentType.prototype.$destroyComponentRef;
      const destroyApplication =
        this.componentFactory.componentType.prototype.$destroyApplication;
      const destroyComponent =
        this.componentFactory.componentType.prototype.$destroyComponent;
      const destroyView =
        this.componentFactory.componentType.prototype.$destroyView;
      const destroyInjector =
        this.componentFactory.componentType.prototype.$destroyInjector;
      const destroyLocation =
        this.componentFactory.componentType.prototype.$destroyLocation;
      const destroyNativeElement =
        this.componentFactory.componentType.prototype.$destroyNativeElement;
      const destroyPrivateUpdateInput =
        this.componentFactory.componentType.prototype.$destroyPrivateUpdateInput;
      const destroyInputChanges =
        this.componentFactory.componentType.prototype.$destroyInputChanges;
      const destroySetupOutputs =
        this.componentFactory.componentType.prototype.$destroySetupOutputs;
      const destroyGroupProjectableNodes =
        this.componentFactory.componentType.prototype.$destroyGroupProjectableNodes;
      const destroyInputChangeCount =
        this.componentFactory.componentType.prototype.$destroyInputChangeCount;
      const destroyGroupContentSelectors =
        this.componentFactory.componentType.prototype.$destroyGroupContentSelectors;
      const destroyGroupChangeDetector =
        this.componentFactory.componentType.prototype.$destroyGroupChangeDetector;
      const destroyViewChangeDetector =
        this.componentFactory.componentType.prototype.$destroyViewChangeDetector;
      const destroyComponentScope =
        this.componentFactory.componentType.prototype.$destroyComponentScope;
      let destroying = false;
      destroyComponentRef(destroy);
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```javascript

/**
 * Group a set of DOM nodes
 * into `ngContent` groups, based on the given content selectors.
 * @param ngContentSelectors The content selectors that
 * specify how to group the nodes.
 * @param nodes The DOM nodes to group.
 * @returns An array of arrays, where each inner array represents
 * a group of nodes that matches one of the content selectors.
 */
export function groupNodesBySelector(ngContentSelectors: string[], nodes: Node[]): Node[][] {
  const projectableNodes: Node[][] = [];
  let wildcardNgContentIndex: number;

  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.length ? ngContentIndices[0] : null;
}

let _matches: (this: any, selector: string) => boolean;

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;
}

/**
 * @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 a
 * AngularJS wrapper directive that allows an Angular component to be used from AngularJS.
 */

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

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

This option is only necessary when using `downgradeModule()` to downgrade more than one Angular module.

```
@Directive({
  selector: 'downgradedComponent
})
export function downgradeComponent(info: {
  component: Type<any>; downgradedModule?: string;
  propagateDigest?: boolean;
}): any /* angular.IInjectable */ {
  const directiveFactory:
    IAnnotatedFunction = function(
        $compile: ICompileService, $injector: IInjectorService, $parse:
        IParseService): IDirective {
      // When using `downgradeModule()`, we need to handle certain things specially. For
      // example:
      // - We always need to attach the component view to the `ApplicationRef` for it to be
        // dirty-
        // checked.
      // - We need to ensure callbacks to Angular APIs (e.g. change detection) are run inside the
        // Angular zone.
      // NOTE: This is not needed, when using `UpgradeModule`, because `$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($injector) === UpgradeAppType.Lite;
      const wrapCallback: <T>(cb: () => T) => typeof cb =
        !isNgUpgradeLite ? cb => cb : cb => () =>
        NgZone.isInAngularZone() ? cb() : ngZone.run(cb);
      let ngZone: NgZone;
      let moduleInjector: Injector|Thenable<Injector>|undefined = undefined;
      let ranAsync = false;
      if
        !parentInjector || hasMultipleDowngradedModules) {
          const lazyModuleRefKey = `${LAZY_MODULE_REF}${downgradedModule}`;
          validateInjectionKey($injector, downgradedModule, lazyModuleRefKey,
            attemptedAction);¥
          console.log(lazyModuleRef);
        }
    }
```

(Note that Angular knows to only traverse the component-tree part of the 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
'finalModuleInjector' and use its injector as both
'finalParentInjector'.

// If there is a parent component (and thus a 'parentInjector') and we are sure that if
'this' 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.

// If this is a "top-level" Angular component or the parent component may belong to a different 'NgModule', use the module
injector for module-specific dependencies.

// If there is a parent component that belongs to the same
'NgModule', use its injector.

// const finalModuleInjector = moduleInjector || parentInjector

// const doDowngrade = (injector: Injector, moduleInjector: Injector) => {

//   // Retrieve 'ComponentFactoryResolver'
//   // from the injector tied to the 'NgModule' this component belongs to.
//   const injectorPromise = new ParentInjectorPromise(element);

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

//   const projectableNodes = facade.compileContents();

//   facade.createComponent(projectableNodes);

//   facade.setupInputs(isNgUpgradeLite, info.propagateDigest);

//   facade.setupOutputs();

//   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(() => {});

//   }

//   ranAsync = true;
//   doDowngrade(facade.getInjector());
//   Injector, mInjector: Injector) => {

//     if (!isNgUpgradeLite) {

//       // Release the element to prevent memory leaks.
//       this.element = null;

//       // Resolve the promise.

//       super.resolve(injector);
//     }
Reserved.

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import {Injector} from '@angular/core';
import {IInjectorService} from '@angular/core';
import {getTypeName, isFunction, validateInjectionKey} from '@angular/core';

/**
 * @description
 *
 * A helper function to allow an Angular service to be accessible from AngularJS 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()`.
 * @returns a [factory function](https://docs.angularjs.org/guide/di) that can be used to register the service on an AngularJS module.
 */
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, IInjectorService, name, tokens, options, providers];

  return factory;
}
function compileFactory(i: IInjectorService) {
  return i.get('$compile');
}

export function parseFactory(i: IInjectorService) {
  return i.get('$parse');
}

export function injectorFactory(deps: []) {
  return {provide: 'Injector', useFactory: i => i, deps: []};
}

export function rootScopeFactory() {
  return {provide: '$rootScope', useFactory: i => i['$rootScope'], deps: ['$injector']};
}

const angular1Providers = [
  {provide: 'Angular', useClass: Angular1Module, deps: []},
  {provide: 'NgAdapterInjector', useClass: NgAdapterInjector, deps: []},
  {provide: 'NgModule', useClass: NgModule, deps: []},
];

@NgModule({
  imports: [angular1Providers],
  providers: [NgAdapterInjector],
  bootstrap: [AppModule]
})
class AppModule {
  constructor(
    private injector: Injector,
    private rootScope: $rootScope,
    private $compile: $compile,
    private $parse: $parse,
    private $injector: Injector,
    private $rootScope: $rootScope
  ) {
    // Use of this source code is governed by an MIT-style license that can be
    // found in the LICENSE file at https://angular.io/license
  }
}

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

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

@NgModule(
  {imports: [angular1Providers],
    providers: [NgAdapterInjector],
    bootstrap: [AppModule]
  }
)
class AppModule {
  constructor(
    private injector: Injector,
    private rootScope: $rootScope,
    private $compile: $compile,
    private $parse: $parse,
    private $injector: Injector,
    private $rootScope: $rootScope
  ) {
    // 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
  }
}
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`. This means that applications using `UpgradeModule` will run change detection more frequently in order to ensure that both frameworks are properly notified about possible changes. This will inevitably result in more change detection runs than necessary.
2. Unlike `UpgradeModule`, `downgradeModule()` does not automatically run the `$digest()` when changes are detected in the Angular part of the application. It is possible to downgrade multiple modules and include them in an AngularJS application. In that case, each downgrade 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 module is considered a "root" module. As a consequence, a new instance will be created for every injectable provided in `"root"` (via `"root"`) and all downgraded modules using that module's injector. 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.

For a more detailed discussion of the differences and their implications, see [Upgrading for Performance](guide/upgrade-performance).

### Downgrading multiple modules

It is possible to downgrade multiple modules and include them in an AngularJS application. In that case, each downgrade 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 module is considered a "root" module. As a consequence, a new instance will be created for every injectable provided in `"root"` (via `"root"`) and all downgraded modules using that module's injector. 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.
(InjectorService, $provide: IProvideService) => {

$provide.constant(DOWNGRADED_MODULE_COUNT_KEY, getDowngradedModuleCount(InjectorService) + 1);

let lazyModuleName = function identity<T = any>(x: T): T { return x; };

function identity<T = any>(x: T): T {
  return x;
}

/**
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 *
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 */

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.replace was notSupported(name, 'compile'), we will throw new Error:
    if (directive.compile && !directive.replace) notSupported(name, 'compile');

    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 template = $templateCache.get(getOrCall<string>(directive.templateUrl, $element));

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

      return new Promise((resolve, reject) => {
        const $httpBackend = $injector.get($HTTP_BACKEND) as IHttpBackendService;
        $httpBackend('GET', template, null, (status: number, response: string) => {
          if (status === 200) {
            resolve($templateCache.put(template, response));
          } else {
            reject(`GET component template from '${template}' returned '${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);
    ...

    return controller;
  }

  onDestroy($scope: IScope, controllerInstance?: any) {
    ...

    $scope.$destroy();

    // Clean the jQuery/jqLite data on the component+child elements.
    }

  // Equivalent to how

// Open Source Used In MSX vBranch Service Pack 3.9.0  6145
jQuery/jqLite invoke `cleanData` on an Element (this.element)

angularElement.cleanData(this.element);
```javascript
this.directive.name); !\n  if (isMap(require)) { !\n    Object.keys(require).forEach(key => { !\n      const value = require[key]; !\n      const match = value.match(REQUIRE_PREFIX_RE); !\n      const name = value.substring(match[0].length); !\n      if (name) { !\n        return require; !\n      } !\n    }); !\n  } !\n  private resolveRequire(require: require: DirectiveRequireProperty, controllerInstance?: !\n  any): !\n    SingleOrListOrMap<IControllerInstance> !\n    return require; !\n  !\n  if (isMap(require)) { !\n    return require.map(req => this.resolveRequire(req)); !\n  } else if (typeof require === 'object') { !\n    const value: { [key: string]: IControllerInstance } = {} !\n    Object.keys(require).forEach(key => { !\n      const value = require[key]; !\n      const match = value.match(REQUIRE_PREFIX_RE); !\n      const inheritType = match[1] || match[3]; !\n      const name = require.substring(match[0].length); !\n      const isOptional = !!match[2]; !\n      const searchParents = !!inheritType; !\n      const startOnParent = inheritType === '^'; !\n      const controllerKey = controllerKey(name); !\n      const elem = startOnParent ? this.$element.parent() : this.$element; !\n      const value = searchParents ? elem.inheritedData(controllerKey) : elem.data(controllerKey); !\n      if (!value && !isOptional) { !\n        throw new Error(`Unable to find required '${require}' in upgraded directive '${this.name}'.`); !\n      }
    }); !\n    return require; !\n  } else { !\n    throw new Error(`Unrecognized 'require' syntax on upgraded directive '${this.name}': ${require}`); !\n  }
}
```

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

```javascript
function notSupported(name: string, feature: string) { !\n  throw new Error(`Upgraded directive '${name}' contains unsupported feature: '${feature}'.`); !\n}
```

```typescript
/**
 * @license
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 *
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 * can be found in the LICENSE file at https://angular.io/license
 */

import {DoCheck, ElementRef, EventEmitter, IAttributes, IAugmentedJQuery, IDirective, IDirectivePrePost, IInjectorService, ILinkFn, IScope, ITranscludeFunction} from '@angular/core';
import {IBindingDestination, IControllerInstance, UpgradeHelper} from '@angular/common/src/upgrade_helper';
import {isFunction} from '@angular/common/src/util';

const NOT_SUPPORTED: any = 'NOT_SUPPORTED';
const INITIAL_VALUE = { __UNINITIALIZED__: true };

class Bindings { !\n  twoWayBoundProperties: string[] = []; !\n  twoWayBoundLastValues: any[] = []; !\n  expressionBoundProperties: string[] = []; !\n  propertyToOutputMap: {[propName: string]: string} = {}; !\n}
```

```javascript
/**
 * @description
 *
 * A helper class that allows an AngularJS component to be used from
 * Angular templates.
 *
 * *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 AOT compiled.
 *
 * Let's assume that you have an AngularJS component called `ng1Hero` that needs
 * to be made available in
 * Angular templates.
 *
 * ```typescript
 * @example upgrade/static/ts/full/module.ts region="ng1-hero"
 * ```
 *
 * We must create a `Directive` that will make this AngularJS component available inside Angular templates.
 *
 * ```typescript
 * @example upgrade/static/ts/full/module.ts region="ng1-hero-wrapper"
 * ```
 *
 * This is because the AOT compiler requires that this information is statically available at
 * compile time.
 *
 * Note that we must do the following:
 * * specify the directive's selector (`ng1-hero`) in `@NgModule` * specify all inputs and
 *   outputs that the AngularJS component expects * derive from `UpgradeComponent` that wraps AngularJS components
 *   that need to be AOT compiled.
 * * Another important thing to note is that the ElementRef and
 *   Injector for the component are not available at compile time.
 *
 * `element` returns the current DOM element.
 * `element.nativeElement` returns the current DOM element.
 * `element.parent` returns the parent element.
 * `element.children` returns an array of child elements.
 * `element.hasAttribute(name)` returns true if the element has the given attribute.
 * `element.setAttribute(name, value)` sets the attribute with the given name and value.
 * `element.getAttribute(name)` returns the value of the attribute with the given name.
 * `element.removeAttribute(name)` removes the attribute with the given name.
 * `element.textContent` returns the text content of the element.
 */
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;

  //
  TODO(issue/24571): remove '!'.
  private controllerInstance!: IControllerInstance;
  // TODO(issue/24571):

```
remove `!`.

```typescript
private bindingDestination !: IBindingDestination;

// We will be instantiating the controller in the `ngOnInit` hook, when the `SimpleChanges` have already been triggered. We store the `SimpleChanges` and `play them back` later.

// TODO(issue/24571): remove `!`.
private pendingChanges !: SimpleChanges | null;

// 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.
 *
 * @example upgrade/static/ts/full/module.ts region="ng1-hero-wrapper"
 *
 * * 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(name, elementRef, injector);

  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
  const SSCOPE = 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 `$element.scope/isolateScope`?
  this.$componentScope = SSCOPE.$new(!!this.directive.scope);

  this.initializeOutputs();

  // 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.$componentScope);
  } else if (bindToController) {
    throw new Error(`Upgraded directive '${name}' specifies 'bindToController' but no controller.`);
  }

  // Set up outputs
  this.bindingDestination = bindToController ? this.controllerInstance : this.$componentScope;
  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: $ ngOnInit
  if (this.controllerInstance && isFunction(this.controllerInstance.$onInit)) {
    this.controllerInstance.$onInit();
  }

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

  // 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();
  }

  // Hooks: $onChanges, $doCheck

  // Hook: $ ngOnDestroy
  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 '<':
            break; // We don't need to do anything special. They will be handled by `ngOnChanges()`.
          break;
        case '=':
          bindings.propertyToOutputMap[propName] = propName + 'Change';
          bindings.propertyToOutputMap[propName] = propName;
          bindings.expressionBoundProperties.push(propName);
          bindings.expressionBoundProperties.push(propName);
          (this as any)[propName] = new EventEmitter();
          this.bindingDestination[propName] = (value: any) => (this as any)[propName].emit(value);
          break;
        case '&':
          (this as any)[propName] = new EventEmitter();
          this.bindingDestination[propName] = propName;
          break;
        default:
          let json = JSON.stringify(context);
          throw new Error(`Unexpected mapping '${bindingType}' in '${json}' in '${this.name}' directive.`);
      }
    });
  }

  return bindings;
}

private bindOutputs() {
  this.bindings.expressionBoundProperties.forEach(propName => {
    this.bindingDestination[propName] = (value: any) => (this as any)[propName].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);
  }
}

/**
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 *
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 */

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

import {IInjectorService, IIntervalService, IProvideService, ITestabilityService, bootstrap, element as angularElement, module_ as angularModule} from '../../src/common/src/angular1';
import {$$TESTABILITY, $DELEGATE, $INJECTOR, $INTERVAL, $PROVIDE, INJECTOR_KEY, LAZY_MODULE_REF, UPGRADE_APP_TYPE_KEY, UPGRADE_MODULE_NAME} from '../../src/common/src/constants';
import {LazyModuleRef, UpgradeAppType, controllerKey} from './angular1_providers';
import {NgAdapterInjector} from './util';

/**
 * @description
 *
 * An `NgModule`, which you import to provide AngularJS core services,
 * and has an instance method used to bootstrap the hybrid upgrade application.
 *
 * Part of the [upgrade/static](api?query=upgrade/static) library for hybrid upgrade apps that support AOT compilation
 * *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
 * that can be used in an Angular template. See `UpgradeComponent`.
 * * 2. Creation of an AngularJS directive that wraps and exposes an Angular component
 * that can be used in an AngularJS template. See `downgradeComponent`.
 * * 3. Creation of an Angular root injector provider that wraps and exposes an AngularJS
 * service so that it can be injected into an Angular context. See `AngularJS`.
 * * 4. Bootstrapping of a hybrid Angular application below.
 */

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which contains both of the frameworks coexisting in a single application. See also the [link 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 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 Angular 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 boots straps 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 boots straps the Angular component at its location in the DOM. See `downgradeComponent`.

### 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. 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 view for that component. This implies that the component bindings will always follow the semantics of the instantiation framework.

1. 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 Angular framework codebase regardless of where they are instantiated.

2. Angular is bootstrapped first; AngularJS is bootstrapped second. AngularJS always owns the root component of the application. The new application is running in an Angular zone, and therefore it no longer needs calls to `$apply()`. The `UpgradeModule` class is a NgModule, which you import to provide AngularJS core services, and has an instance method used to bootstrap the hybrid upgrade application. Importing this `NgModule` will add providers for the core AngularJS services. Importing this `NgModule` will add providers for the core AngularJS services.

### The `UpgradeModule` class

This class is an NgModule, which you import to provide AngularJS services, and has an instance method used to bootstrap the hybrid upgrade application. It also contains properties to access the root injector, the bootstrap zone for the upgrade application, the Angular Injector and the [AngularJS $injector](https://docs.angularjs.org/api/auto/service/$injector).

### Examples

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

```typescript
@NgModule({
  providers: [
    // AngularJS providers
  ]
})
export class UpgradeModule {
  constructor(
    // The root Injector for the upgrade application
  ) {
    // The Bootstrap zone for the upgrade application
  }
}
```
ngZone: NgZone) {
  this.injector = new NgAdapterInjector(injector);
} /**
 * Bootstrap an AngularJS application from this NgModule
 * @param element the element on which to bootstrap the AngularJS
 * @param [modules] the AngularJS modules to bootstrap for this application
 * @param [config] optional extra AngularJS bootstrap configuration
 * @param [bootstrapConfig]} {
  const INIT_MODULE_NAME = UPGRADE_MODULE_NAME + ":init\n  // Create an ng1 module to bootstrap
  const initModule = angularModule(INIT_MODULE_NAME, [])
  .constant(UPGRADE_APP_TYPE_KEY, UpgradeAppType.Static)
  .value(INJECTOR_KEY, this.injector)
  .factory(LAZY_MODULE_REF, (injector) => {
    const injector = this.injector;
    // Cannot use arrow function below because we need the
    context
    const newWhenStable = function(callback) {
      originalWhenStable.call(testabilityDelegate, function) {
        const ng2Testability = injector.get(Testability);
        if (ng2Testability.isStable()) {
          callback();
        } else {
          ng2Testability.whenStable(newWhenStable
            .bind(testabilityDelegate, callback));
        }
      };
    }
    return testabilityDelegate;
  });

  SModuleRef) {
    .config($provide, SINJECTOR, (provide: IProvideService,
      InjectorService) => {
      if ($injector.has($TESTABILITY)) {
        const injector = this.injector;
        // Use arrow function below because we need the
        context
        const newWhenStable = function(callback) {
          originalWhenStable.call(testabilityDelegate, function) {
            const ng2Testability = injector.get(Testability);
            if (ng2Testability.isStable()) {
              callback();
            } else {
              ng2Testability.whenStable(newWhenStable
                .bind(testabilityDelegate, callback));
            }
          }
        };
      }
      return testabilityDelegate;
    }]

    const windowAngular = (window as any)['angular'];
    windowAngular.resumeBootstrap
      = undefined;

    // Bootstrap the AngularJS application inside our zone
    this.ngZone.run(() => {
      // Run callback in the next VM turn - $interval calls
      // $rootScope.Sapply, and running
      the callback in NgZone will
      // cause a '$digest already in progress' error if it's in the
      // same vm turn
      setTimeout(() => {
        this.ngZone.run(() => fn(...args));
      }, delay, count, invokeApply, ...pass);
    });
  } else {
    const injector = this.injector;
    // Initialize the ng1 $injector provider
    setTempInjectorRef($injector);
    this.injector.get($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 bootup
    // stabilizing
    set.Timeout(() => {
      const $rootScope = $injector.get('$rootScope');
      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();
        }
        return $rootScope.$digest();
      });
      $rootScope.$on('$destroy', () => { subscription.unsubscribe(); });
      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();
  }
}

  UpgradeModule(UpgradeModule.NAME, [INIT_MODULE_NAME].concat(modules));
} */

// Make sure resumeBootstrap() only exists if the current
bootstrap is deferred
const windowAngular = (window as any)['angular'];
windowAngular.resumeBootstrap
  = undefined;
// Bootstrap the AngularJS application inside our zone
  this.ngZone.run(() => {
Found in path(s):
  */opt/ws_local/PERMITS_SQL/1047774535_1591199783.98/0/angular-upgrade-9-0-7-src-zip/fesm5/static.js.map
No license file was found, but licenses were detected in source scan.

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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/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":[]}
/**
 * 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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 *
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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 within `// $inject?`, which is not compatible with `$inject?: ReadonlyArray<string>` (used in latest versions).
  $inject?: string[];
}

export type IInjectable = Ng1Token | Function;

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

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

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

export interface IAngularBootstrapConfig { strictDi?: boolean; }

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;
  templateNamespace?: string;
  terminal?: boolean;
  transclude?: DirectiveTranscludeProperty;
}

export type DirectiveRequireProperty = SingleOrListOrMap<string>;

export type DirectiveTranscludeProperty = boolean | 'element' | {
  [key: string]: string;
};

export interface IDirectiveCompileFn {
  (templateElement: IAugmentedJQuery, templateAttributes: IAttributes, transclude: ITranscludeFunction): IDirectivePrePost;
}

export interface IDirectivePrePost {
  pre?: IDirectiveLinkFn;
  post?: IDirectiveLinkFn;
  (scope: IScope, instanceElement: IAngularBootstrapConfig, strictDi?: boolean): boolean;
  (cloneAttachFn?: ICloneAttachFunction): boolean;
  (key: string): string;
  (scope?: boolean): boolean;
  (template?: string): string;
  (templateNamespace?: string): string;
  (terminal?: boolean): boolean;
  (transclude?: DirectiveTranscludeFunction): boolean;
  (directiveRequireProperty: DirectiveRequireProperty): boolean;
  (name?: string): string;
  (templateUrl?: string): string;
  (template?: string): string;
  (controllerAs?: string): string;
}

export interface IDirectiveLinkFn {
  (scope: IScope, instanceElement: IAngularBootstrapConfig, strictDi?: boolean): boolean;
  (cloneAttachFn?: ICloneAttachFunction): boolean;
  (key: string): string;
  (scope?: boolean): boolean;
  (template?: string): string;
  (templateNamespace?: string): string;
  (terminal?: boolean): boolean;
  (transclude?: DirectiveTranscludeFunction): boolean;
  (directiveRequireProperty: DirectiveRequireProperty): boolean;
  (name?: string): string;
  (templateUrl?: string): string;
  (template?: string): string;
  (controllerAs?: string): string;
}

export interface IComponent {
  controller: any;
  controllerAs?: string;
  require?: DirectiveRequireProperty;
  template?: string|Function;
  templateUrl?: string|Function;
  transclude?: DirectiveTranscludeProperty;
}

export interface IAttributes {
  $observe(attr: string, fn: (v: string) => void): void;
  [key: string]: any;
  $on?: (event?: any, ...args: any[]) => void;
  $scope?: boolean|{
    [key: string]: string;
  };
}

export interface ITranscludeFunction {
  (scope: IScope, instanceElement: IAngularBootstrapConfig, strictDi?: boolean): boolean;
  (cloneAttachFn?: ICloneAttachFunction): boolean;
  (key: string): string;
  (scope?: boolean): boolean;
  (template?: string): string;
  (templateNamespace?: string): string;
  (terminal?: boolean): boolean;
  (transclude?: DirectiveTranscludeFunction): boolean;
  (directiveRequireProperty: DirectiveRequireProperty): boolean;
  (name?: string): string;
  (templateUrl?: string): string;
  (template?: string): string;
  (controllerAs?: string): string;
}

export interface IAugmentedJQuery {
  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;
  $inject?:
  $inject?: string[];
}
=> angular.element(e) as typeof angular.element;\nelement.cleanData = nodes =>
angular.element.cleanData(nodes);\nexport const injector: typeof angular.injector =
    (modules: Array<string|Injectable>, strictDi?: boolean) => angular.injector(modules, strictDi);\nexport const resumeBootstrap: typeof angular.resumeBootstrap = () => angular.resumeBootstrap();\nexport const
getTestability: typeof angular.getTestability = e => angular.getTestability(e);\n
export const$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';

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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 */

/**
 * 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}`;
    thisparenAttr = "\"propAndAttr\" where the property * and attribute have the same identifier. * 
    
  }
}

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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]|\[-]/i;\nconst DIRECTIVE_SPECIAL_CHARS_REGEXP = /[\-\_]+(\()/g;\n
export function onError(e: any) { 
  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 functionName(controllerKey(name: string): string { 
  return name.replace(DIRECTIVE_PREFIX_REGEXP, '')
    .replace(DIRECTIVE_SPECIAL_CHARS_REGEXP, (_, letter) => letter.toUpperCase());
}

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

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

export function validateInjectionKey(
    $injector: IInjectorService,
    downgradeModule: string, injectionKey: string,
    attemptedAction: string): void {
  const upgradeAppType = getUpgradeAppType($injector);
  const downgradeModuleCount = getDowngradeModuleCount($injector);

  // Check for common errors.
  switch (upgradeAppType) {
    case UpgradeAppType.Dynamic:
      // Error while $attemptedAction: 'downgradeModule' unexpectedly specified.
      // 'You should not specify a value for $downgradeModule unless you are downgrading more than one Angular module (via $downgradeModule($)).'
      break;
    case UpgradeAppType.Lite:
      // Error while $attemptedAction: 'downgradeModule' not specified.
      // This application contains more than one downgraded Angular module, thus you need to +
      // always specify $downgradeModule when downgrading components and
      // injectables."
      if ($injector.has(injectionKey)) {
        throw new Error('Error while $attemptedAction: Unable to find the specified downgraded module:');
      }
      break;
    default:
      throw new Error('Error while $attemptedAction: Not a valid '@angular/upgrade' application.' +
          'Did you forget to downgrade an Angular module or include it in the AngularJS application?');
  }
}

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

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

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

export const enum UpgradeAppType {
  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();
    }
  }
}

/**
 * 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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private component: any;
  // TODO(issue/24571): remove `!!`. private changeDetector !: ChangeDetectorRef;
  // TODO(issue/24571): remove `!`. private viewChangeDetector !: ChangeDetectorRef;
  // private constructor:
private element: IAugmentedJQuery, private attrs: IAttributes, private scope: IScope,
private ngModel: INgModelController, private parentInjector: Injector,
  private ngModel: ICompileService,
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 = childInjector.createChildComponent(projectableNodes, this.element[0]);
    this.viewChangeDetector =
        childInjector.get('ChangeDetectorRef');

  }

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

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

              this.updateInput(prop, prevValue, currValue);
              prevValue = currValue;
            }
          };
        })(input.prop);
        attrs.$observe(input.attr, observeFn);

        // Use `$watch()` (in addition to `$observe()`) in
        // order to initialize the input in time for `ngOnChanges()` which means that
        // `ngOnChanges()` (which is called by a watcher) will run before the `$observe()`
        // callback.
        let unwatch: Function | null = this.componentScope.$watch(() => {
          unwatch = null;
          unwatch = attrs.$observe(input.attr, observeFn);
        });

        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);
    }

    // Invoke `ngOnChanges()` and Change Detection
    this.implementsOnChanges = !!(this.prototype &&
        (<OnChanges>this.prototype).ngOnChanges);
    this.componentScope.$watch(() => {
      if (this.implementsOnChanges) {
        const inputChanges = this.inputChanges;
        this.inputChanges = {};
        (<OnChanges>this.component).ngOnChanges(inputChanges);
      }

      this.viewChangeDetector.markForCheck();
    });
  }
<p>elProto.matchesSelector || elProto.mozMatchesSelector || elProto.webkitMatchesSelector || elProto.msMatchesSelector || elProto.oMatchesSelector || elProto.webkitMatchesSelector;
  }
  return el.nodeType === Node.ELEMENT_NODE ? matches.call(el, selector) : false;
}
</p>

```typescript
/**
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 * the LICENSE file at https://angular.io/license
 */

import {isFunction} from './util';

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

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

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

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

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

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

    return aggrPromise;
  }

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

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

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

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

```typescript
/**
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 * the LICENSE file at https://angular.io/license
 */

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

import {IAnnotatedFunction, IAttributes, IAugmentedJQuery, ICompileService, IDirective, IInjectorService, INgModelController, IParseService, IScope} from './angular1';
import {$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
 * component. The factory is defined using the `downgradeComponent()` function, which
 * takes the 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 needs to be made available in AngularJS templates.
 *   (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. (Default: true)
 * - `@returns a factory

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

```typescript
export function downgradeComponent(info: {
  component: Type<any>; downgradedModule?: string;
  propagateDigest?: boolean;
  inputs?: string[];
  outputs?: string[];
  selectors?: string[];
}): any /* angular.IInjectable */ {
  const directiveFactory =
    function(
      $compile: ICompileService,
      $injector: IInjectorService,
      $parse: IPartServices)
```
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 there is a parent component that belongs to the same
        // `NgModule`, use its injector.
        const finalModuleInjector = moduleInjector || parentInjector !;

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

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

          injectorPromise.resolve(facade.getInjector());

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

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

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

        // NOTE:
        // Not
        // using `ParentInjectorPromise.all()` (which is inherited from `SyncPromise`), because
        // Closure Compiler (or
        // some related tool) complains:
        // `TypeError: ...$src$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;
}

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 */

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

/**
 * @description
 *
 * A helper function to
 * allow an Angular service to be accessible from AngularJS.
 *
 * *Part of the
 * [upgrade/static](api?query=upgrade%2Fstatic)
 * library for hybrid upgrade apps that support AOT compilation*
 *
 * @usageNotes
 * ### Examples
 *
 * First ensure that the service to be downgraded is
 * provided in an `NgModule`,
 *
 * ```
 * import {HeroesService} from '@angular/local';
 * ```
 *
 * Now we can register the `downgradeInjectable` factory function for the service
 * on an AngularJS module.
 *
 * ```
 * @example upgrade/static/ts/full/module.ts
 * ```

```
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 downgraded injectables are not used anywhere outside the part of the app where they are 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.

When using `downgradeModule()` to downgrade more than one Angular module, `downgradeInjectable()` will not return a function that can be used to register the service on an AngularJS module.

```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 \x27\${injectableName}\x27`;
    validateInjectionKey($injector, downgradedModule, injectorKey, attemptedAction);

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

  return factory;
}
```

The module, whose injector will be used for instantiating the injectable, can be used only in the part of the app where it is guaranteed that its module has been instantiated. As returned by a call to `downgradeModule()`. It is the module, whose injector will be used for instantiating the injectable. `@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. `@returns a [factory function](https://docs.angularjs.org/guide/di) that can be used to register the service on an AngularJS module. `@public Apіn` `@noexport function downgradeInjectable(token: any, downgradedModule: string = ":"):
```
a\n // [zero-width non-joiner character](https://en.wikipedia.org/wiki/Zero-width_non-joiner)  
 // 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 be detected by AngularJS v1.6.4+ 
 $template.forEach(node => {  
 if (node.nodeType === Node.TEXT_NODE && !node.nodeValue) { 
  node.nodeValue = '\u200C';  
 } });

return attachChildrenFn;
}

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

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

Object.keys(requiredControllersMap).forEach(key => {  
 controllerInstance[key] = requiredControllersMap[key];  
 });

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 directiveRequire = (this.directive.controller &&  
 this.directive.name) || (isMap(require))

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

const name = value.substring(match[0].length);

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

private resolveRequire(require: DirectiveRequireProperty, controllerInstance?: any): SingleOrListOrMap<IControllerInstance>|null {  
 if (!require) {  
 return null;
 } else if (require instanceof Array) {  
 return require.map(req => this.resolveRequire(req));
 } 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}'.
');

}

else {  
 throw new Error(`Unrecognized 'require' syntax on upgraded directive '${this.name}'.
`);

}}

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

isMap<T>(value: SingleOrListOrMap<T>): value is {
  [key: string]: T;
}

notSupported(name: string, feature: string) {  
 throw new Error(`Upgraded directive '${name}' contains unsupported feature: '${feature}'.
`);

}

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import {Directive, DoCheck, ElementRef, EventEmitter, Inject, Injector, OnChanges, OnDestroy, OnInit, SimpleChange, SimpleChanges, Type} from '@angular/core';

import {IAttributes, IDirective, IDirectivePrePost, IInjectorService, ILinkFn, IScope, ITranscludeFunction} from '../../../common/src/upgrade_helper';

import {IAttributeChange, IComponent, IComponentAdapterBuilder, IComponentBuilder, IComponentFactory, IComponentOptions, IDirective, IDirectiveFactory, IDirectivePrePost, IElement, IPropertyMap, IStyleMap, IScope, ITranscludeFunction} from '../angular1';

import {ISCOPE} from '../angular1';

import {ISCOPE} from '../angular1';

import {ISCOPE} from '../angular1';

import {ISCOPE} from '../angular1';

open-source-used-in-MSX-vBranch-Service-Pack-3.9.0
remove `!!`. In template!: string; name.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: string, inputs: string, outputs: string];

template!; 

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.
    directive = {selector: selector, inputs: this.inputs, outputs: this.outputs, propertyOutputs: this.propertyOutputs, checkProperties: this.checkProperties, propertyMap: this.propertyMap}; 

    @Directive({jit: true, ...directive})
    class MyClass extends UpgradeNg1ComponentAdapter implements OnInit, OnChanges, DoCheck, OnDestroy {
        constructor(@Inject(S $SCOPE) scope: IScope, injector: Injector, elementRef: ElementRef) {
            super(new UpgradeHelper(injector, name, elementRef, self.directive || undefined), scope, self.template, self.inputs, self.outputs, self.propertyOutputs, 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('Error in binding definitions on scope and controller at the same time are not supported.
    const directive = this.directive; 
    scope!; name!; if (btcIsObject && Object.keys(this.directive).length) throw new Error('Error in binding definitions on scope and controller at the same time are not supported.
    const directive = this.directive ;
    directive!; name!; 
    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 '@':
            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(outputNameRename);
            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\n/*\n *
 static resolve\n exportedComponents: {}[name: string]: UpgradeNg1ComponentAdapterBuilder,\n Sinjector: ISinjectorService): Promise<null|> {
 const promises = Object.keys(exportedComponents.map(name => {
 const exportedComponent = exportedComponents[name] || UpgradeHelper.getDirective(Sinjector, name); 
 exportedComponent.extractBindings();
 return Promise.resolve(UpgradeHelper.getTemplate(Sinjector, exportedComponent.directive, true));
 }).then(template => exportedComponent.template = template)
 return Promise.all(promises)
 uncle
 UpgradeNg1ComponentAdapter implements OnInit, OnChanges, DoCheck {
 private controllerInstance: IControllerInstance = new null;
 destinationObj: IBindingDestination = null;
 checkLastValues; any: []; I\n directive: IDirective; 
 element: Element; $element: any = null; componentScope: IScope; 
 constructor($private helper: UpgradeHelper, scope: IScope, private template: string, private inputs: string[], private propOuts: string[], private checkProperties: string[], private propertyMap: {key: string: string}) { 
 this.directive = helper.directive;
 this.element = helper.element;
 this.$element = helper.$element;
 this.componentScope = scope; $new(!this.directive.scope); 
 const controllerType = this.directive.controller;
 if (this.directive.bindToController &\n  & controllerType) {
 this.controllerInstance = this.helper.buildController(controllerType, this.componentScope);
 this.destinationObj = this.controllerInstance; } else { 
 this.destinationObj = this.componentScope; 
 for (let i = 0; i < inputs.length; i++) {
 (this as any)[inputs[i]] = null;
 for (let j = 0; j < outputs.length; j++) {
 const emitter = (this as any)[outputs[j]] = new EventEmitter<any>();
 if (this.propOuts.indexOf(outputs[j]) !== -1) 
 this.setComponentProperty(outputs[j], (emitter => (value: any) =>

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emitter.emit(value)(emitter));
      }
    }
    for (let k = 0; k < propOuts.length; k++) {
      this.checkLastValues.push(INITIAL_VALUE);
    }
  }

  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); // Need to require other controllers in case requiredControllers =
    this.helper.resolveAndBindRequiredControllers(this.controllerInstance);
    }
    this.checkProperties = this.checkProperties.map(propName => {
      const value = this.destinationObj[propName];
      const last = this.checkLastValues[propOuts.indexOf(propName)];
      if (!strictEquals(last, value)) {
        const eventEmitter: EventEmitter<any> = (this as any)[propOuts[propOuts.indexOf(propName)]];
        eventEmitter.emit(last = value);
      }
    });
  }

  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;
  }
}

/**
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 *
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 * 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.
 * (See [UpgradeAdapter#upgradeNg1Component()])
 * from 'upgrade_ng1_adapter';
 */

/**
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 * 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.
 * (See [UpgradeAdapter#upgradeNg1Component()])
 * from 'upgrade_ng1_adapter';
 */
frameworks running in a single application, each framework treats
the other as a black box. Each DOM element on the page is owned exactly by one framework. Whichever framework instantiated the element is the owner. Each framework only updates/interacts with its own DOM elements and ignores others.
AngularJS directives always execute inside AngularJS framework codebase regardless of where they are instantiated.
Angular components always execute inside Angular framework codebase regardless of where they are instantiated.
An AngularJS component can be upgraded to an Angular component. This creates an Angular directive, which bootstraps the AngularJS component directive in that location.
An Angular component can be downgraded to an AngularJS component directive. This creates an AngularJS directive, which bootstraps the Angular component in that location.
Whenever an adapter component is instantiated the host element is owned by the framework doing the instantiation. The other framework then instantiates and owns the view for that component. This implies that component bindings will always follow the semantics of the instantiation framework. The syntax is always that of Angular syntax.

### Example
```
const adapter = new UpgradeAdapter(forwardRef(() => MyNg2Module), myCompilerOptions);
const module = angular.module('myExample', []);
module.directive('ng2Comp', adapter.downgradeNg2Component(Ng2Component));

module.directive('ng1Hello', function() {
  return {
    scope: { title: '=' },
    template: 'ng2[<ng1-hello [title]="name">transclude</ng1-hello>](<ng-content></ng-content>)',
    directives: [
      'ngModel',
    ],
    template: '<ng1-hello [title]="name">transclude</ng1-hello>',
  }
});

@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']).then(function() {
  expect(document.body.textContent).toEqual('ng2[ng1[Hello World!]](transclude)');
});
```

@deprecated Deprecated since v5. Use `upgrade/static` instead, which also supports Ahead-of-Time compilation.
@publicApi
export class UpgradeAdapter {
  private idPrefix: string = `NG2_UPGRADE_${upgradeCount++}_`;
  private downgradedComponents: Type<any>[] = [];
  private ng1ComponentsToBeUpgraded: {[name: string]: UpgradeNg1ComponentAdapterBuilder} = {};
  private upgradedProviders: StaticProvider[] = [];
  private ngZone!: NgZone;
  private ng1Module!: IModule;

  constructor(private ng2AppModule: Type<any>, private compilerOptions?: CompilerOptions) {
    if (!ng2AppModule) {
      throw new Error('UpgradeAdapter cannot be instantiated without an NgModule of the Angular app.);
    }
  }

  use `downgradeNg2Component` to create an AngularJS Directive Definition Factory from a Angular Component. The adapter will bootstrap Angular component from within the AngularJS template.

  * Allows Angular Component to be used from AngularJS.
  * Use `downgradeNg2Component` to create an AngularJS Directive Definition Factory from an Angular Component. The adapter will bootstrap Angular component from within the AngularJS template.
  * @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's syntax. This has to be done, this way because we must follow Angular components do not declare how the attributes should be interpreted.
  * 3. `ng-model` is controlled by AngularJS and communicates with the downgraded Angular component by way of the `ControlValueAccessor` interface from @angular/forms. Only components that implement this interface are eligible.

  ```
  \n  * @usageNotes
  * ### Supported Features
  * @Bindings
  * - Attribute: `<comp name="World">`:
  * - Interpolation: `<comp greeting="\{\name\}"`:
  ```

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- Event: `<comp close>"doSomething()"></comp>`
  * - ng-model: `<comp ng-model="name">`
  * - Content projection: yes
  * * - Example
  * - const adapter = new UpgradeAdapter(forwardRef() => MyNg2Module);
  * - const module = angular.module('myExample', []);
  * - module.directive('greet', adapter.downgradeNg2Component(Greeter));
  * * @Component({selector: 'greet', template: '{[salutation]} {name}! - <ng-content></ng-content>'})
  * * @Input() salutation: string;
  * * @Input() name: string;
  * * - Content
  *
  * ### Example
  *
  * ```
  * const adapter = new UpgradeAdapter(forwardRef(() => MyNg2Module));
  * const module = angular.module('myExample', []);
  * module.directive('greet',
  *   function() {
  *     return {
  *       scope: {name: '='},
  *       template: 'greet template: <greet salutation="Hello" [name]="world">text</greet>'
  *     };
  *   });
  *
  * module.directive('ng2',
  *   adapter.downgradeNg2Component(Ng2Component));
  * class Ng2Component {
  *   constructor() {
  *     // ... other constructor code...
  *   }
  *
  *   @NgModule({
  *     declarations: [Ng2Component],
  *     imports: [
  *       BrowserModule
  *     ]
  *   })
  *   class MyNg2Module {}
  *
  * document.body.innerHTML = '<ng2></ng2>';
  *
  * adapter.bootstrap(document.body, ['myExample']).ready(function() {
  *   expect(document.body.textContent).toEqual("ng2 template: Hello world! - text()");
  * });
  * ```
  */
  
  upgradeNg1Component(name: string): Type<any> {
    if ((<any>this.ng1ComponentsToBeUpgraded).hasOwnProperty(name)) {
      return this.ng1ComponentsToBeUpgraded[name].type;
    } else {
      return new UpgradeNg1ComponentAdapterBuilder(name).type;
    }
  }
hello", (done) => {
  upgradeAdapterRef.ready() => {
    const element = $compile("<my-component></my-component>")($rootScope);
    $rootScope.$apply();
    expect(element.html()).toContain("Hello World!");
    done();
  });
}

@returns a `ready()` callback to run assertions once the Angular components are ready to test through AngularJS.

### Example

```js
const adapter = new UpgradeAdapter(MyNg2Module);
const module = angular.module('myExample', []);
module.directive('ng2', adapter.downgradeNg2Component(Ng2));
module.directive('ng1', function() {
  return {
    scope: { title: '=' },
    template: 'ng1[Hello \{title\}](<span ng-transclude></span>)'
  };
});

@Component({
  selector: 'ng2',
  inputs: ['name'],
  template: 'ng2[<ng1 [title]="name">transclude</ng1>](<ng-content></ng-content>)'
})
class Ng2 {
}

@NgModule({
  declarations: [Ng2, adapter.upgradeNg1Component('ng1')],
  imports: [BrowserModule]
})
class MyNg2Module {}

document.body.innerHTML = '<ng2 name="World">project</ng2>';
adapter.bootstrap(document.body, ['myExample']).ready(function() {
  expect(document.body.textContent).toEqual('ng2[ng1[Hello World!(transclude)(project)]]');
});
```

### Example

```js
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);
const adapter = new UpgradeAdapter(MyNg2Module);
const originalResumeBootstrap: () => void = windowAngular.resumeBootstrap;
windowAngular.resumeBootstrap = function() {
  ...
};

adapter.upgradeNg1Provider('server');
adapter.upgradeNg1Provider('login', {asToken: Login});
adapter.bootstrap(document.body, ['myExample']).ready((ref) => {
  const example: Example = ref.ng2Injector.get(Example);
});
```

### Example

```js
hello", (done) => {
  const element = $compile("<my-component>")($rootScope);
  $rootScope.$apply();
  expect(element.html()).toContain("Hello World!");
  done();
});
```

@returns a `ready()` callback to run assertions once the Angular components are ready to test through AngularJS.

### Example

```js
const adapter = new UpgradeAdapter(MyNg2Module);
const module = angular.module('myExample', []);
module.directive('ng2', adapter.downgradeNg2Component(Ng2));
module.directive('ng1', function() {
  return {
    scope: { title: '=' },
    template: 'ng1[Hello \{title\}](<span ng-transclude></span>)'
  };
});

@Component({
  selector: 'ng2',
  inputs: ['name'],
  template: 'ng2[<ng1 [title]="name">transclude</ng1>](<ng-content></ng-content>)'
})
class Ng2 {
}

@NgModule({
  declarations: [Ng2, adapter.upgradeNg1Component('ng1')],
  imports: [BrowserModule]
})
class MyNg2Module {}

document.body.innerHTML = '<ng2 name="World">project</ng2>';
adapter.bootstrap(document.body, ['myExample']).ready(function() {
  expect(document.body.textContent).toEqual('ng2[ng1[Hello World!(transclude)(project)]]');
});
```
Example

```typescript
class Example {
}

const adapter = new UpgradeAdapter(MyNg2Module);

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

downgradeNg2Provider(token: any): Function {
  return downgradeInjectable(token);
}

downgradeNg2Provider(token: any) {
  const upgradeAdapter = new UpgradeAdapter(MyNg2Module);
  upgradeAdapter.declareNg1Module(['heroApp']);

  const module = angular.module('myExample', []);
  module.factory('example', adapter.downgradeNg2Provider);

  module.factory('example', () => {
    return adapter.downgradeNg2Provider(token);
  });

  return adapter.downgradeNg2Provider(token);
}
```
{ngZone: this.ngZone})
  .then((ref: NgModuleRef<any>) => {
    this.moduleRef = ref;
  })
  .then(() => {
    rootScopePrototype.$apply = original$applyFn;  // restore original $apply
    while (delayApplyExps.length) {
      rootScope.$apply(delayApplyExps.shift());
    }
    rootScopePrototype = null;
  });

return rootScope.$digest();

return ng1Injector;
Found in path(s):
* /opt/ws_local/PERMITS_SQL/1047774535_1591199783.98/0/angular-upgrade-9-0-7-src-
zip/fesm5/upgrade.js.map

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

{"version":3,"sources":["packages/upgrade/upgrade.umd.js"],"names":["global","factory","exports","module","requi-
re","define","amd","self","ng","upgrade","core","platformBrowserDynamic","this","VERSION","Version","extendS-
tatics","d","b","Object","setPrototypeOf","__proto__","Array","p","hasOwnProperty","__extends","__","constructor","prototype","create","__assign","assign","t","s","i","n","arguments","length","call","apply","__decorate","decorators","target","key","desc","c","r","getOwnPropertyDescriptor","Reflect","decorate","defineProperty","__metadata","metadataKey","metadataValue","metadata","__read","o","m","Symbol","iterator","e","ar","next","done","push","value","error","noNg","Error","noNgElement","cleanData","angular","bootstrap","element","injector","version","undef-
inged","resumeBootstrap","getTestability","window","_a","nodes","$COMPILE","$CONTROLLER","$INJECTOR","$SCOPE","DOWNGRADED_MODULE_COUNT_KEY","INJECTOR_KEY","UPGRADE_APP_TYPE_KEY","PropertyBinding","prop","attr","parseBinding","bracketAttr","parenAttr","bracketParentAttr","capitalAttr","charAttr","toUpperCaseCase","subscr","onAttr","bindAttr","bindonAttr","DIRECTIVE_PREFIX_REGEXP","DIRECTIVE_SPECIAL_CHARS_REGEXP","onError","console","stack","log","controllerKey","name","getTypeName","type","overriddenName","toString","split","getDowngradedModuleCount","$injector","has","get","getUpgradeAppType","isFunction","validate InjectionKey","downgradedModule","injectionKey","attemptedAction"}
o[Symbol.iterator](), i = {}, verb(\"next\"), verb(\"throw\"), verb(\"return\"), i[Symbol.asyncIterator] = function () {
return this; }, i);\r\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); }); }; }\r\n
function settle(resolve, reject, d, v) {
Promise.resolve(v).then(function(v) { resolve({ value: v, done: d }); }, reject); }\r\n }\r\n\r\n function
__makeTemplateObject(cooked, raw) {\r\n
if (Object.defineProperty) { Object.defineProperty(cooked, \"raw\",
{ value: raw }); } else { cooked.raw = raw; }\r\n
return cooked;\r\n };\r\n\r\n function __importStar(mod)
{\r\n
if (mod && mod.__esModule) return mod;\r\n
var result = {};\r\n
if (mod != null) for (var k in
mod) if (Object.hasOwnProperty.call(mod, k)) result[k] = mod[k];\r\n
result.default = mod;\r\n
return
result;\r\n }\r\n\r\n function __importDefault(mod) {\r\n
return (mod && mod.__esModule) ? mod : {
default: mod };\r\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 noNg() {\n
throw new Error('AngularJS v1.x is not loaded!');\n
}\n var noNgElement = (function () { return noNg(); });\n noNgElement.cleanData = noNg;\n var angular =
{\n
bootstrap: noNg,\n
module: noNg,\n
element: noNgElement,\n
injector: noNg,\n
version:
undefined,\n
resumeBootstrap: noNg,\n
getTestability: noNg\n };\n try {\n
if
(window.hasOwnProperty('angular')) {\n
angular = window.angular;\n
}\n }\n catch (_a) {\n
//
ignore in CJS mode.\n }\n /**\n * @deprecated Use `setAngularJSGlobal` instead.\n *\n * @publicApi\n
*/\n function setAngularLib(ng) {\n
setAngularJSGlobal(ng);\n }\n /**\n * @deprecated Use
`getAngularJSGlobal` instead.\n *\n * @publicApi\n */\n function getAngularLib() {\n
return
getAngularJSGlobal();\n }\n /**\n * Resets the AngularJS global.\n *\n * Used when AngularJS is
loaded lazily, and not available on `window`.\n *\n * @publicApi\n */\n function setAngularJSGlobal(ng)
{\n
angular = ng;\n }\n /**\n * Returns the current AngularJS global.\n *\n * @publicApi\n */\n
function getAngularJSGlobal() {\n
return angular;\n }\n var bootstrap = function (e, modules, config) {\n
return angular.bootstrap(e, modules, config);\n };\n // Do not declare as `module` to avoid webpack bug\n //
(see https://github.com/angular/angular/issues/30050).\n var module_ = function (prefix, dependencies) {\n
return angular.module(prefix, dependencies);\n };\n var element = (function (e) { return angular.element(e); });\n
element.cleanData = function (nodes) { return angular.element.cleanData(nodes); };\n var injector = function
(modules, strictDi) { return angular.injector(modules, strictDi); };\n var resumeBootstrap = function () { return
angular.resumeBootstrap(); };\n var getTestability = function (e) { return angular.getTestability(e); };\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
$COMPILE = '$compile';\n var $CONTROLLER = '$controller';\n var $DELEGATE = '$delegate';\n var
$EXCEPTION_HANDLER = '$exceptionHandler';\n var $HTTP_BACKEND = '$httpBackend';\n var
$INJECTOR = '$injector';\n var $INTERVAL = '$interval';\n var $PARSE = '$parse';\n var $PROVIDE =
'$provide';\n var $ROOT_SCOPE = '$rootScope';\n var $SCOPE = '$scope';\n var $TEMPLATE_CACHE =
'$templateCache';\n var $TEMPLATE_REQUEST = '$templateRequest';\n var $$TESTABILITY =
'$$testability';\n var COMPILER_KEY = '$$angularCompiler';\n var
DOWNGRADED_MODULE_COUNT_KEY = '$$angularDowngradedModuleCount';\n var
GROUP_PROJECTABLE_NODES_KEY = '$$angularGroupProjectableNodes';\n var INJECTOR_KEY =
'$$angularInjector';\n var LAZY_MODULE_REF = '$$angularLazyModuleRef';\n var NG_ZONE_KEY =
'$$angularNgZone';\n var UPGRADE_APP_TYPE_KEY = '$$angularUpgradeAppType';\n var
REQUIRE_INJECTOR = '?^^' + INJECTOR_KEY;\n var REQUIRE_NG_MODEL = '?ngModel';\n var
UPGRADE_MODULE_NAME = '$$UpgradeModule';\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 * 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 */\n var
PropertyBinding = /** @class */ (function () {\n
function PropertyBinding(prop, attr) {\n
this.prop =

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prop;
this.attr = attr;
this.parseBinding();

PropertyBinding.prototype.parseBinding =
function () {
    this.bracketAttr = '\[' + this.attr + '\'];
    this.parenAttr = '\(' + this.attr + '\');
    var capitalAttr = this.attr.charAt(0).toUpperCase() + this.attr.substr(1);
    this.onAttr = 'on' + capitalAttr;
    this.bindAttr = 'bind' + capitalAttr;
    this.bindonAttr = 'bindon' + capitalAttr;
}

PropertyBinding.prototype.parseBinding =
function () {
    this.bracketAttr = '\[' + this.attr + '\'];
    this.parenAttr = '\(' + this.attr + '\');
    this.bracketParenAttr = '\[\(' + this.attr + '\)\]';
    var capitalAttr = this.attr.charAt(0).toUpperCase() + this.attr.substr(1);
    this.onAttr = 'on' + capitalAttr;
    this.bindAttr = 'bind' + capitalAttr;
    this.bindonAttr = 'bindon' + capitalAttr;
}

return PropertyBinding;

/**
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 */

var DIRECTIVE_PREFIX_REGEXP = /^\w\w\w\w\w\w[\-\_]/i;

var DIRECTIVE_SPECIAL_CHARS_REGEXP = /[:\-\_]+(.)/g;

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

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

function directiveNormalize(name) {
    return
    name.replace(DIRECTIVE_PREFIX_REGEXP, "")
    .replace(DIRECTIVE_SPECIAL_CHARS_REGEXP,
    function (_, letter) { return letter.toUpperCase(); });
}

function getTypeName(type) {
    // Return the name of the type or the first line of its stringified version.
    return type.toString().split('\n')[0];
}

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

function getUpgradeAppType($injector) {
    return $injector.has(UPGRADE_APP_TYPE_KEY) ?
        $injector.get(UPGRADE_APP_TYPE_KEY) :
            0 /* None */;
}

function isFunction(value) {
    return typeof value === 'function';
}

function validateInjectionKey($injector, downgradedModule, injectionKey, attemptedAction) {
    var upgradeAppType = getUpgradeAppType($injector);
    var

    if (upgradeAppType) {
        if (downgradedModule) {
            throw new Error("Error while " + attemptedAction + ": 'downgradedModule'
                        unexpectedly specified.\n                        You should not specify a value for 'downgradedModule', unless
                        you are downgrading ' + 
            case 1 /* Dynamic */:
            case 2 /* Static */:
                if (!downgradedModule && (downgradedModuleCount
                >= 2)) {
                    throw new Error("Error while ' + attemptedAction + '\': 'downgradedModule' not
                        specified.\n                        This application contains more than one downgraded Angular module, thus you
                        need to ' + 
                        always specify 'downgradedModule\' when downgrading components and
                        injectables.\n
                        You should not specify a value for 'downgradedModule', unless
                        you are downgrading ' + 
                        more than one Angular module (via 'downgradedModule(W)\');
                }
            }
            var downgradeAppType = getUpgradeAppType($injector);
            var
downgradedModuleCount = getDowngradedModuleCount($injector);
            // Check for common errors.
            if (downgradedModule) {
                throw new Error("Error while ' + attemptedAction + '\': 'downgradedModule' not
                        specified.\n                        Did you forget to downgrade an Angular module or include it in the AngularJS ' +
                        'application?\n
                        Not a valid '@angular/upgrade' application.\n                        Did you forget to downgrade an Angular module or
                        include it in the AngularJS ' +
                        'application?\n
                        * @return Whether the passed-in component implements the subset of the
                        * 'ControlValueAccessor' interface needed for AngularJS 'ng-model'\n                        * compatibility.\n
                        * function

                        * function

                        * function

                        * function

                        * function

                        * function

                        * function

                        * function

                        * function

                        * function

                        * function

                        * function

                        * function

                        * function
component.registerOnTouched(ngModel.$setTouched.bind(ngModel));
            }
        }
    }
    /**
     * Test two values for strict equality, accounting for the fact that `NaN !== NaN`.
     */
    function strictEquals(val1,
        val2) {
        return val1 === val2 || (val1 !== val1 && val2 !== val2);
    }

    /**
     * @license
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     * found in the LICENSE file at https://angular.io/license
     */
    var INITIAL_VALUE = {
        __UNINITIALIZED__: true
    };
    var DowngradeComponentAdapter = /** @class */ (function () {

        function DowngradeComponentAdapter(element, attrs, scope, ngModel, parentInjector, $injector, $compile,
            $parse, componentFactory, wrapCallback) {
            this.element = element;
            this.attrs = attrs;
            this.scope = scope;
            this.ngModel = ngModel;
            this.parentInjector = parentInjector;
            this.$injector = $injector;
            this.$compile = $compile;
            this.$parse = $parse;
            this.componentFactory = componentFactory;
            this.wrapCallback = wrapCallback;

            this.implementsOnChanges = false;
            this.inputChangeCount = 0;
            this.inputChanges = {};
            this.componentScope = scope.$new();

            this.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) { return
                    linkFn(this.componentScope, function (clone) {
                        compiledProjectableNodes.push(clone);
                        this.element.append(clone);
                    });
                });
                return compiledProjectableNodes;
            };

            this.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/bootsrap.js
                // 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.componentRef.location.nativeElement, testability);
                }
                hookUpNgModel(this.ngModel, this.component);
            };

            this.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 = inputs[i].propName;
                    var expr = null;
                    if (attrs.hasOwnProperty(input)) {
                        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)` then
                                // `null` is returned by `null`. 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.
                                if (prevValue !== INITIAL_VALUE) {
                                    prevValue = currValue;
                                }
                                if (prevValue === INITIAL_VALUE) {
                                    this.updateInput(prop, prevValue, currValue);
                                }
                            };
                        })(input.prop);
                        attrs.$observe(input, observeFn_1);
                        // Use `$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
                        // `$observe()` callback.
                        var unwatch_1 = this.componentScope.$watch(function () {
                            unwatch_1 = null;
                            observeFn_1(attrs[input.attr]);
                        });
                        if (unwatch_1) {
                            unwatch_1 = null;
                        }
                        else if (attrs.hasOwnProperty(input.bindAttr)) {
                            expr = attrs[input.bindAttr];
                        }
                        else if (attrs.hasOwnProperty(input.bracketAttr)) {
                            expr = attrs[input.bracketAttr];
                        }
                    }
                };
            };
        };
    }();
}
```javascript
else if (attrs.hasOwnProperty(input.bindonAttr)) {
    expr = attrs[input.bindonAttr];
} else if (attrs.hasOwnProperty(input.bracketParenAttr)) {
    expr = attrs[input.bracketParenAttr];
} else if (expr != null) {
    var watchFn = (function (prop) {
        return function (currValue, prevValue) {
            return _this.updateInput(prop, prevValue, currValue);
        };
    })(input.prop);
    this.componentScope.$watch(expr, watchFn);
}

var this_1 = this;
for (var i = 0; i < inputs.length; i++) {
    _loop_1(i);
}

// Invoke `ngOnChanges()` and Change Detection (when necessary)
var detectChanges = function () { return _this.changeDetector.detectChanges(); };
var prototype = this.componentFactory.componentType.prototype;
this.implementsOnChanges = !!((prototype &
    prototype.ngOnChanges) || this.componentScope.$watch(function () { return _this.implementsOnChanges }));

// If not opted out of propagating digests, invoke change detection when inputs change
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) {
    var unwatch_2 = this.componentScope.$watch(function () {
        unwatch_2();
        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], true);
        }
        if (attrs.hasOwnProperty(output.parenAttr)) {
            this.subscribeToOutput(output, attrs[output.parenAttr], true);
        }
    }
}
```

DowngradeComponentAdapter.prototype.getInjector = function () { return this.componentRef.injector; };

DowngradeComponentAdapter.prototype.updateInput = function (prop, prevValue, currValue) {
    if (this.implementsOnChanges) {
        thisInputChanges[prop] = new core.SimpleChange(prevValue, currValue, prevValue === currValue);
        thisInputChangeCount++;
    }
}

var ngContentSelectors = this.componentFactory.ngContentSelectors;

var groupNodesBySelector = function (ngContentSelectors, nodes) {
    var projectableNodes = [];
    var wildcardNgContentIndex = -1;
    for (var i = 0, ii = ngContentSelectors.length; i < ii; i++) {
        var projectableNode = ngContentSelectors[i];
        for (var j = 0, jj = nodes.length; j < jj; j++) {
            var node = nodes[j];
            if (matchesSelector(node, projectableNode)) {
                projectableNodes.push(node);
            }
        }
    }
    return projectableNodes;
}

function findMatchingNgContentIndex(projectableNodes, selector) {
    var matches = [];
    var wildcardNgContentIndex = -1;
    for (var i = 0, ii = projectableNodes.length; i < ii; i++) {
        var node = projectableNodes[i];
        if (matchesSelector(node, selector)) {
            matches.push(i);
        }
    }
    matches.sort();
    if (wildcardNgContentIndex !== -1) {
        matches.push(wildcardNgContentIndex);
    }
    return matches.length ? matches[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;
}

var _isThenable = function (obj) {
    return !!obj && isFunction(obj.then);
}

var SyncPromise = function SyncPromise() {
    this.resolved = false;
    this.callbacks = [];
}

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 callback(this.value);
    this.callbacks.push(callback);
}

var SyncPromise = function SyncPromise() {
    this.resolved = false;
    this.callbacks = [];
}

var SyncPromise.all = function (valuesOrPromises) {
    var aggrPromise = new SyncPromise();
    var resolvedCount = 0;
    var results = [];
    for (var i = 0; i < valuesOrPromises.length; i++) {
        var promise = valuesOrPromises[i];
        if (promise instanceof SyncPromise)
            promise.callbacks.forEach(function (callback) { return aggrPromise.resolve(callback); });
        else {
            promise.then(function (value) { return aggrPromise.resolve(value); });
        }
    }
    return aggrPromise;
}

var SyncPromise.prototype.resolve = function (value) {
    this.resolved = true;
    this.callbacks.forEach(function (callback) { return callback(value); });
    this.callbacks.length = 0;
}

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

var SyncPromise = function SyncPromise() {
    this.resolved = false;
    this.callbacks = [];
}

var SyncPromise.all = function (valuesOrPromises) {
    var aggrPromise = new SyncPromise();
    var resolvedCount = 0;
    var results = [];
    for (var i = 0; i < valuesOrPromises.length; i++) {
        var promise = valuesOrPromises[i];
        if (promise instanceof SyncPromise)
            promise.callbacks.forEach(function (callback) { return aggrPromise.resolve(callback); });
        else {
            promise.then(function (value) { return aggrPromise.resolve(value); });
        }
    }
    return aggrPromise;
}

var SyncPromise.prototype.resolve = function (value) {
    this.resolved = true;
    this.callbacks.forEach(function (callback) { return callback(value); });
    this.callbacks.length = 0;
}

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

var SyncPromise = function SyncPromise() {
    this.resolved = false;
    this.callbacks = [];
}

var SyncPromise.all = function (valuesOrPromises) {
    var aggrPromise = new SyncPromise();
    var resolvedCount = 0;
    var results = [];
    for (var i = 0; i < valuesOrPromises.length; i++) {
        var promise = valuesOrPromises[i];
        if (promise instanceof SyncPromise)
            promise.callbacks.forEach(function (callback) { return aggrPromise.resolve(callback); });
        else {
            promise.then(function (value) { return aggrPromise.resolve(value); });
        }
    }
    return aggrPromise;
}

var SyncPromise.prototype.resolve = function (value) {
    this.resolved = true;
    this.callbacks.forEach(function (callback) { return callback(value); });
    this.callbacks.length = 0;
}

var SyncPromise.prototype.then = function (callback) {
    if (this.resolved)
        return callback(this.value);
    this.callbacks.push(callback);
}
are sure that it
                    //   belongs to the same `NgModule` as this downgraded component (e.g. because there
                    //   `finalParentInjector`.
                    // - If there is a parent component (and thus a `parentInjector`) and we
                    bootstrap the downgraded
                    //   `NgModule` and use its injector as both `finalModuleInjector` and
                    // - If there is no parent component (thus no `parentInjector`), we
                    //   when looking for an injectable and then switch to the module injector.)
                    //
                    // There are basically three cases:
                    // - `finalParentInjector` is used for all other injection
                    //   purposes.
                    //   (Note that Angular knows to only traverse the component-tree part of that injector,
                    //   which might be
                    // the same instance, but that is irrelevant):
                    // - `finalModuleInjector` is used to
                    //   retrieve `ComponentFactoryResolver`, thus it must be\n                    //   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,\n                    //   when looking for an injectable and then switch to the module injector.)
                    //
                    Notes:\n                    //   There are two injectors: `finalModuleInjector` and `finalParentInjector` (they
                    //   might be\n                    //   the same instance, but that is irrelevant):
                    // - `finalModuleInjector` is used to
                    //   retrieve `ComponentFactoryResolver`, thus it must be\n                    //   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,\n                    //   when looking for an injectable and then switch to the module injector.)
                    //
                    There are basically three cases:\n                    // - If there is no parent component (thus no `parentInjector`), we
                    //   bootstrap the downgraded\n                    //   `NgModule` and use its injector as both `finalModuleInjector` and\n                    //   `finalParentInjector`\n                    // - If there is a parent component (and thus a `parentInjector`) and we
                    //   are sure that it\n                    // belongs to the same `NgModule` as this downgraded component (e.g. because there
                    //
is only
    // 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.
    var finalParentInjector = parentInjector || moduleInjector;
    // If this is a `top-level` Angular component or
    the parent component may belong to another
    // 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 = moduleInjector || parentInjector;
    var doDowngrade = function (injector, moduleInjector) {
        // Retrieve `ComponentFactoryResolver` from the injector tied
to the `NgModule` this
        // component belongs to.
        var componentFactoryResolver = moduleInjector.get(core.ComponentFactoryResolver);
        var componentFactory = componentFactoryResolver.resolveComponentFactory(info.component);
        if (!componentFactory) {
            throw new Error("Expecting ComponentFactory for: " + getTypeName(info.component));
        }
        var injectorPromise = new ParentInjectorPromise(element);
        var facade = new DowngradeComponentAdapter(element, attrs, scope, ngModel, injector, $injector, $compile, $parse,
            componentFactory, wrapCallback);
        var projectableNodes = facade.compileContents();
        facade.createComponent(projectableNodes);
        facade.setupInputs(isNgUpgradeLite, componentFactoryResolver.resolveComponentFactory(info.component));
        if (!isNgUpgradeLite) {
            facade.setupOutputs();
            facade.registerCleanup();
            facade.createComponent(projectableNodes);
            facade.setupInputs(isNgUpgradeLite, componentFactoryResolver.resolveComponentFactory(info.component));
            if (!isNgUpgradeLite) {
                facade.setupOutputs();
                facade.registerCleanup();
            }
        }
        // Not using `ParentInjectorPromise.all()` (which is inherited from `SyncPromise`), because
        // Closure Compiler (or some related tool) complains: 
        // `TypeError: ...Src$ downgrade_component_ParentInjectorPromise.all is not a function` 
    }
    SyncPromise.all([finalParentInjector, finalModuleInjector]).then(function (_a) {
        var _b = _read(a, 2), pInjector = _b[0], mInjector = _b[1];
        return downgradeFn(pInjector, mInjector);});
    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(function () { });
    }
    var 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: ...

the promise.

```
_super.prototype.resolve.call(this, injector);
return ParentInjectorPromise;
```

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```
# "typically," but not necessarily.
# * The promise.
```
notSupported(name, 'compile');
if (directive.replace)
notSupported(name, 'replace');
if (directive.terminal)
notSupported(name, 'terminal');
return directive;
}
UpgradeHelper.getTemplate = function ($injector, directive, fetchRemoteTemplate, $element) {
    if (fetchRemoteTemplate !== void 0) {
        fetchRemoteTemplate = false;
    }
    if (directive.template !== undefined) {
        return getOrCall(directive.template, $element);
    }
    else if (directive.templateUrl) {
        var $templateCache_1 = $injector.get($TEMPLATE_CACHE);
        var url_1 = getOrCall(directive.templateUrl, $element);
        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);
    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
        // Equivelent to how jQuery/jqLite invoke ‘cleanData’ on an Element
        // https://github.com/jquery/jquery/blob/e743cbd28553267f955f71ea7248377915613fd9/src/manipulation.js#L223
        // https://github.com/angular/angular.js/blob/26ddc5f830f902a3d22f4b2aa7b70d64d688c82/src/jqLite.js#L306-L312
        // `cleanData` will invoke the AngularJS `$destroy` DOM event
        // https://github.com/angular/angular.js/blob/26ddc5f830f902a3d22f4b2aa7b70d64d688c82/src/Angular.js#L1911-L1924
        element.cleanData([this.element]);
        UpgradeHelper.prototype.prepareTransclusion = function () {
            var this_1 = this;
            var transclude = this.directive.transclude;
            var contentChildNodes = this.extractChildNodes();
            var attachChildrenFn = function (scope, cloneAttachFn) {
                // Since AngularJS v1.5.8, `cloneAttachFn` will try to destroy the transclusion scope
                if (transclude !== undefined) {
                    // `Stemplate` is empty. Since the transcluded content comes from
                    // Angular, not AngularJS,
                    // there will be no transclusion scope here.
                    // Provide a dummy
                    // `scope.$destroy()` method to prevent `cloneAttachFn` from throwing.
                    scope = scope || { $destroy: function () { return undefined; } };
                    return cloneAttachFn(Stemplate, scope);
                }
                var $template = contentChildNodes;
                if (transclude !== undefined) {
                    var slots_1 = Object.create(null);
                    if (typeof transclude === 'object') {
                        $template = [];
                        var slotMap_1 = Object.create(null);
                        var slotMap_1 = Object.create(null);
                        var filledSlots_1 = Object.create(null);
                        var slots_1 = slotName;
                        var optional = selector.charAt(0) === '?';
                        selector = selector.substring(1);
                        Object.keys(transclude).forEach(function (slotName) {
                            var selector = transclude[slotName];
                            var optional = selector.charAt(0) === '?';
                            selector = selector.substring(1);
                            if (typeof transclude === 'object') {
                                $template = [];
                                var slotMap_1 = Object.create(null);
                                var filledSlots_1 = Object.create(null);
                                Object.keys(transclude).forEach(function (slotName) {
                                    var selector = transclude[slotName];
                                    if (optional) {
                                        selector = selector.substring(1);
                                    }
                                    var slotMap_1 = slotName;
                                    var slots_1 = slotName;
                                    // `null`:
                                    Defined but not yet filled.
                                    if (filledSlots_1[slotName] is optional; // Consider optional slots as filled.
                                    })
                                };
                                // Add the matching elements into their slot.
                            };
                        });
                    };
                    UpgradeHelper.prototype.prepareTransclusion = function () {
                        var var_this = this;
                        var transclude = this.directive.transclude;
                        var contentChildNodes = this.extractChildNodes();
                        var attachChildrenFn = function (scope, cloneAttachFn) {
                            // Since AngularJS v1.5.8, `cloneAttachFn` will try to destroy the transclusion scope
                            if (transclude !== undefined) {
                                // `Stemplate` is empty. Since the transcluded content comes from
                                // Angular, not AngularJS,
                                // there will be no transclusion scope here.
                                // Provide a dummy
                                // `scope.$destroy()` method to prevent `cloneAttachFn` from throwing.
                                scope = scope || { $destroy: function () { return undefined; } };
                                return cloneAttachFn(Stemplate, scope);
                            }
                            var $template = contentChildNodes;
                            if (transclude !== undefined) {
                                var slots_1 = Object.create(null);
                                if (typeof transclude === 'object') {
                                    $template = [];
                                    var slotMap_1 = Object.create(null);
                                    var filledSlots_1 = Object.create(null);
                                    var slotMap_1 = Object.create(null);
                                    Object.keys(transclude).forEach(function (slotName) {
                                        var selector = transclude[slotName];
                                        if (optional) {
                                            selector = selector.substring(1);
                                        }
                                        var slotMap_1 = slotName;
                                        var slots_1 = slotName;
                                        // `null`:
                                        Defined but not yet filled.
                                        if (filledSlots_1[slotName] is optional; // Consider optional slots as filled.
                                        })
                                    };
                                };
                            };
                        };
                    };
                };
            };
        };
    };
};
UpgradeHelper.prototype.compileTemplate = function (template) {
    if (template === undefined) {
        template =
                UpgradeHelper.getTemplate(this.$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
    // Equivelent to how jQuery/jqLite invoke ‘cleanData’ on an Element
    // https://github.com/jquery/jquery/blob/e743cbd28553267f955f71ea7248377915613fd9/src/manipulation.js#L223
    // https://github.com/angular/angular.js/blob/26ddc5f830f902a3d22f4b2aa7b70d64d688c82/src/jqLite.js#L306-L312
    // `cleanData` will invoke the AngularJS `$destroy` DOM event
    // https://github.com/angular/angular.js/blob/26ddc5f830f902a3d22f4b2aa7b70d64d688c82/src/Angular.js#L1911-L1924
    element.cleanData([this.element]);
    UpgradeHelper.prototype.prepareTransclusion = function () {
        var this_1 = this;
        var transclude = this.directive.transclude;
        var contentChildNodes = this.extractChildNodes();
        var attachChildrenFn = function (scope, cloneAttachFn) {
            // Since AngularJS v1.5.8, `cloneAttachFn` will try to destroy the transclusion scope
            if (transclude !== undefined) {
                // `Stemplate` is empty. Since the transcluded content comes from
                // Angular, not AngularJS,
                // there will be no transclusion scope here.
                // Provide a dummy
                // `scope.$destroy()` method to prevent `cloneAttachFn` from throwing.
                scope = scope || { $destroy: function () { return undefined; } };
                return cloneAttachFn(Stemplate, scope);
            }
            var $template = contentChildNodes;
            if (transclude !== undefined) {
                var slots_1 = Object.create(null);
                if (typeof transclude === 'object') {
                    $template = [];
                    var slotMap_1 = Object.create(null);
                    var filledSlots_1 = Object.create(null);
                    Object.keys(transclude).forEach(function (slotName) {
                        var selector = transclude[slotName];
                        if (optional) {
                            selector = selector.substring(1);
                        }
                        var slotMap_1 = slotName;
                        var slots_1 = slotName;
                        // `null`:
                        Defined but not yet filled.
                        if (filledSlots_1[slotName] is optional; // Consider optional slots as filled.
                        })
                    };
                };
            };
        };
    };
    UpgradeHelper.prototype.prepareTransclusion = function () {
        var this_1 = this;
        var transclude = this.directive.transclude;
        var contentChildNodes = this.extractChildNodes();
        var attachChildrenFn = function (scope, cloneAttachFn) {
            // Since AngularJS v1.5.8, `cloneAttachFn` will try to destroy the transclusion scope
            if (transclude !== undefined) {
                // `Stemplate` is empty. Since the transcluded content comes from
                // Angular, not AngularJS,
                // there will be no transclusion scope here.
                // Provide a dummy
                // `scope.$destroy()` method to prevent `cloneAttachFn` from throwing.
                scope = scope || { $destroy: function () { return undefined; } };
                return cloneAttachFn(Stemplate, scope);
            }
            var $template = contentChildNodes;
            if (transclude !== undefined) {
                var slots_1 = Object.create(null);
                if (typeof transclude === 'object') {
                    $template = [];
                    var slotMap_1 = Object.create(null);
                    var filledSlots_1 = Object.create(null);
                    var slotMap_1 = Object.create(null);
                    Object.keys(transclude).forEach(function (slotName) {
                        var selector = transclude[slotName];
                        if (optional) {
                            selector = selector.substring(1);
                        }
                        var slotMap_1 = slotName;
                        var slots_1 = slotName;
                        // `null`:
                        Defined but not yet filled.
                        if (filledSlots_1[slotName] is optional; // Consider optional slots as filled.
                        })
                    };
                };
            };
        };
    };
};
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new Error("Unrecognized 'require' syntax on upgraded directive ":
            this.name + "+": " + require);

return UpgradeHelper;

```javascript
var getOrCall = function (property) {
  var args = [];
  for (var i = 0; i < arguments.length; i++) {
    args[i - 1] = arguments[i];
  }

  return isFunction(property) ?
    property.apply(void 0, __spread(args)) :
    property;
}

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 UpgradeNg1ComponentAdapterBuilder () {
  function MyClass (scope, injector, elementRef) {
    return MyClass = __decorate([
      core.Directive(__assign({ jit: true }, directive)),
      __param(0, core.Inject($SCOPE)),
      __metadata("design:paramtypes", [Object, core.Injector, core.ElementRef])
    ], MyClass);
  }

  var _extends = Object.assign || function (target) {
    for (var i = 1; i < arguments.length; i++) {
      var source = arguments[i];
      for (var key in source) {
        if (Object.prototype.hasOwnProperty.call(source, key)) {
          target[key] = source[key];
        }
      }
    }
    return target;
  };

  this = UpgradeHelper(injector, name, elementRef, this.directive || undefined), scope, self.template, self.inputs, self.outputs, self.propertyOutputs, self.checkProperties, self.propertyMap, || this;)

  MyClass = __decorate([coreDirective.__assign({ jit: true }, directive)], MyClass);

  MyClass.prototype = object assignable({
    inputName: "input_" + attrName,
    inputNameRename: inputName + "": " + attrName,
    outputName: "output_" + attrName,
    outputNameRename: outputName + "": " + attrName,
    outputNameRenameChange: outputName + "Change",
    switch (bindingType) {
      case '=?':
        this.inputs.push(inputName);
        this.outputs.push(outputName);
        break;
      case '=':
        this.inputs.push(inputName);
        this.outputs.push(outputName);
        break;
      case '&':
        this.outputs.push(outputName);
        break;
      default:
        throw new Error("Unexpected mapping ":

/* */

// Upgrade ng1 components into Angular.
UpgradeNg1ComponentAdapterBuilder.resolve = function (exportedComponents, $injector) {
    var promises =
        Object.keys(exportedComponents).map(function (name) {
            var exportedComponent = exportedComponents[name];
            exportedComponent.directive = UpgradeHelper.getDirective($injector, name);
            exportedComponent.extractBindings().
                resolve(UpgradeHelper.getTemplate($injector, exportedComponent.directive, true))
                    .then(function (template) { return exportedComponent.template = template; });
        });
    return Promise.all(promises).
        return UpgradeNg1ComponentAdapterBuilder.
            resolve(UpgradeNg1ComponentAdapter, $injector, true);}

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);
        } else {
            this.controllerInstance = 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)
        var controllerType = this.directive.controller;
        if (controllerType && !this.directive.bindToController) {
            this.controllerInstance = this.helper.buildController(controllerType, this.componentScope);
        }
        var requiredControllers = this.helper.resolveAndBindRequiredControllers(this.controllerInstance);

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

        // Linking
        var destinationObj = this.destinationObj;
        var lastValues = this.checkLastValues;

    }

    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(destinationObj.$onChanges)) {
            destinationObj.$onChanges(ng1Changes);
        }

        UpgradeNg1ComponentAdapter.prototype.ngDoCheck = function () {

        }

    }

    UpgradeNg1ComponentAdapter.prototype.ngOnDestroy = function () {

    }

    UpgradeNg1ComponentAdapter = UpgradeNg1ComponentAdapter;

    return UpgradeNg1ComponentAdapter;
}());

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);
        } else {
            this.controllerInstance = 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)
        var controllerType = this.directive.controller;
        if (controllerType && !this.directive.bindToController) {
            this.controllerInstance = this.helper.buildController(controllerType, this.componentScope);
        }
        var requiredControllers = this.helper.resolveAndBindRequiredControllers(this.controllerInstance);

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

        // Linking
        var destinationObj = this.destinationObj;
        var lastValues = this.checkLastValues;

    }

    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(destinationObj.$onChanges)) {
            destinationObj.$onChanges(ng1Changes);
        }

        UpgradeNg1ComponentAdapter.prototype.ngDoCheck = function () {

        }

    }

    UpgradeNg1ComponentAdapter.prototype.ngOnDestroy = function () {

    }

    UpgradeNg1ComponentAdapter = UpgradeNg1ComponentAdapter;

    return UpgradeNg1ComponentAdapter;
}());
checkProperties = this.checkProperties;
var propOuts = this.propOuts;
checkProperties.forEach(function (PROPNAME, i) {
    var value = destinationObj[PROPNAME];
    var last = lastValues[i];
    if (strictEquals(last, value)) {
        var eventEmitter = _this[propOuts[i]];
        eventEmitter.emit(lastValues[i] = value);
    }
});
if (this.controllerInstance &&
isFunction(this.controllerInstance.$doCheck)) {
    this.controllerInstance.$doCheck();
}
UpgradeNg1ComponentAdapter.prototype.ngOnDestroy = function () {
    this.helper.onDestroy(this.componentScope, this.controllerInstance);
}
UpgradeNg1ComponentAdapter.prototype.setComponentProperty = function (name, value) {
    this.destinationObj[this.propertyMap[name]] = value;
}
return UpgradeNg1ComponentAdapter;

/**
 * @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
 */
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
 * 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
 * `$apply()`, `template: ng1[Hello {{title}}](<span ng-transclude></span>)`, etc.
 * 10. Adapter components provide a way to upgrade AngularJS component directives or
 * Angular components to use Angular semantics.
 * 11. New Angular components can be introduced and added to the component hierarchy
 * dynamically.
 *
 * @usageNotes
 * ### Mental Model
 *
 * When reasoning about how a hybrid application works it is useful to have a mental model which
 * describes what is happening and explains what is happening at the lowest level.
 * There are two independent frameworks running in a single application, each framework treats
 * the other as a black box.
 * Each DOM element on the page is owned exactly by one framework. Whichever framework
 * instantiated the element is the owner. Each framework only updates/interacts with its own
 * DOM elements and ignores others.
 * AngularJS directives always execute inside AngularJS framework codebase regardless of
 * where they are instantiated.
 * Angular components always execute inside Angular framework codebase regardless of
 * where they are instantiated.
 * An AngularJS component can be upgraded to an Angular component. This creates an Angular directive, which bootstraps the AngularJS component directive in that location.
 * An Angular component can be downgraded to an AngularJS component directive. This creates an AngularJS directive, which bootstraps the Angular component in that location.
 * Whenever an adapter component is instantiated the host element is owned by the framework
 * doing the instantiation. The other framework then instantiates and owns the view for that
 * component. This implies that component bindings will always follow the semantics of the framework
 * instantiation framework. The syntax is always that of Angular syntax.
 * AngularJS is always bootstrapped first and owns the bottom most view.
 * The new application is running in Angular zone, and therefore it no longer needs calls to
 * `$apply()`, `template: ng1[Hello {{title}}](<span ng-transclude></span>)`, etc.
 * Adapter components provide a way to upgrade AngularJS component directives or
 * Angular components to use Angular semantics.
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 * 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()`, `template: ng1[Hello {{title}}](<span ng-transclude></span>)`, etc.
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 *
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 * 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
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 * An Angular component can be downgraded to an AngularJS component directive. This creates an AngularJS directive, which bootstraps the Angular component in that location.
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- `restrict`: must be set to 'E'.
- `scope`: supported.
- `template`: supported.
- `priority`: ignored.
- `replace`: not supported.
- `require`: supported.
- `link`: supported. (NOTE: only pre-link function is supported.)
- `name`: supported.
- `controllerAs`: supported.
- `bindToController`: not allow modifying DOM structure during compilation.
- `compile`: not supported because the host element is owned by Angular, which does not support components that do not declare how the attributes should be interpreted.
- `ng-model` is controlled by AngularJS and communicates with the downgraded Angular component by way of the `ControlValueAccessor` interface from @angular/forms. Only components that implement this interface are eligible.
- `ng-model` is controlled by Angular, but the component's view will be controlled by AngularJS.
- `@Input()` name: string; *]
- `@NgModule({ * declarations: [Greeter], *
- `imports: [BrowserModule] * }])
- `document.body.innerHTML` =
- `ng1 template: <greet{
- [name]="world!"[
- [name]="username">
- ng-model: yes
- 
- `const adapter = new UpgradeAdapter(forwardRef(() => MyNg2Module));`
- `const module = angular.module('myExample', []);
- `module.directive('greet', adapter.downgradeNg2Component(Greeter));`
- `class MyNg2Module {}
- `@NgModule({ * declarations: [Greeter], *
- `content></ng-content>`,
- `bootstraped:
- `* @NgModule
- `* * * * //`angular.module('myExample', []).ready(function() {
- `* AngularJS template. This means that the host element is controlled by AngularJS, but the component's view will be controlled by AngularJS.
- `* The adapter will bootstrap AngularJS component from within the AngularJS template. This means that the host element is controlled by AngularJS, but the component's view will be controlled by AngularJS.
- `* @NgModule
- `* * * * #`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 AngularJS.
- `* * * * #`Supported Features
- `* * * * #`Interpolation: `<comp greeting="Hello {{name}}!">`
- `* * * * #`Expression: `<comp close="doSomething()">`
- `* * * * #`Transclusion: yes
- `* * * * #`Only some of the features of
- `* [Directive Definition Object](https://docs.angularjs.org/api/ng/service/$compile) are supported:
- `* - 'compile': not supported because the host element is owned by Angular, which does not allow modifying DOM structure during compilation.
- `* - 'controller': supported. (NOTE: injection of '$attrs' and '$transclude' is not supported.)
- `* - 'controllerAs': supported.
- `* - 'bindToController': supported.
- `* - 'link': supported. (NOTE: only pre-link function is supported.)
- `* - 'name': supported.
- `* - 'priority': ignored.
- `* - 'replace': not supported.
- `* - 'require': supported.
- `* - 'restrict': must be set to 'E'.
- `* - 'scope': supported.
- `* - 'template': supported.
templateUrl: supported.
*   - `terminal`: ignored.
*   - `transclude`: supported.
* ### Example
*   - `terminal`: ignored.
*   - `transclude`: supported.
*
*
*
### Example
* ```
*   const adapter = new UpgradeAdapter(forwardRef(() => MyNg2Module));
*   const module = angular.module('myExample', []);
*   module.directive('greet', function() {
*     return {
*       scope: {salutation: '='},
*       template: `{{salutation}} {{name}}! - <span ng-transclude></span>`
*     };
*   });
*   const adapter = angular.module('myExample').directive.
*   module.directive('ng2', adapter.downgradeNg2Component(Ng2Component));
*   @Component({
*     selector: 'ng2',
*     template: `<greet salutation="Hello" [name]="world">text</greet>`
*   })
*   class Ng2Component {
*   }
*   @NgModule({
*     declarations: [Ng2Component, adapter.upgradeNg1Component('greet')],
*     imports: [BrowserModule]
*   })
*   class MyNg2Module {
*   }
*   const element = $compile('<my-component></my-component>')($rootScope);
*   $rootScope.$apply();
*   expect(element.html()).toContain('Hello World');
* });
* ```
*/
UpgradeAdapter.prototype.upgradeNg1Component = function (name) {
    if (this.ng1ComponentsToBeUpgraded.hasOwnProperty(name)) {
        return this.ng1ComponentsToBeUpgraded[name].type;
    } else {
        return (this.ng1ComponentsToBeUpgraded[name] = new UpgradeNg1ComponentAdapterBuilder(name));
    }
}
UpgradeAdapter.prototype.registerForNg1Tests = function (modules) {
    var _this = this;
    var windowNgMock = window['angular'].mock;
    if (!windowNgMock || !windowNgMock.module) {
        throw new Error('Failed to find `angular.mock.module`.');
    }
    this.declareNg1Module(modules);
    windowNgMock.module(this.ng1Module.name);
    this.ng2BootstrapDeferred.promise.then(function (ng1Injector) {
        if (!windowNgMock || !windowNgMock.module) {
            throw new Error('Failed to find \angular.mock.module\:\\');
        }
        this.declareNg1Module(modules);
    });
    this.ng2BootstrapDeferred.promise.then(function (ng1Injector) {
        upgrad
    });
    return new UpgradeAdapterRef();
}
* let upgradeAdapterRef:
*   UpgradeAdapterRef;
*   let $compile, $rootScope;
*   beforeEach(() => {
*     upgradeAdapterRef = new UpgradeAdapterRef();
*   });
*   beforeEach(inject((_$compile_,
*                     _$rootScope_) => {
*     $compile = _$compile_;
*     $rootScope = _$rootScope_;
*   }));
*   it("says hello", (done) => {
*     upgradeAdapterRef.ready(() => {
*       const element = $compile('<my-component></my-component>')($rootScope);
*       $rootScope.$apply();
*       expect(element.html()).toContain('Hello World');
*       done();
*     })
*   });
* ```
* const upgradeAdapter = new UpgradeAdapter(MyNg2Module);
* module.directive('ng1', function() {
*   return {
*      scope: { title: '=' },
*      template: '<ng1 [title]="name">transclude</ng1>'
*   };
* });
* class Ng2 {
*   }
*   @NgModule({
*     declarations: [Ng2, adapter.upgradeNg1Component('greet')],
*     imports: [BrowserModule]
*   })
*   class MyNg2Module {
*   }
*   document.body.innerHTML = '<ng2></ng2>';
*   adapter.bootstrap(document.body, ['myExample']).ready(function() {
*     expect(document.body.textContent).toEqual("ng2 template: Hello world! - text");
*   });
*   adapter.upgradeNg1Component = function (name) {
*     return (this.ng1ComponentsToBeUpgraded[name] = new UpgradeNg1ComponentAdapterBuilder(name));
*   }
*   class UpgradeAdapterRef {
*     constructor(ng1Injector) {
*       this.ng1Injector = ng1Injector;
*     }
*     ready() {
*       this.ng1Injector.$injector.
*   ```
*   const upgradeAdapter = new UpgradeAdapter(MyNg2Module);
*   const module = angular.module('myExample', []);
*   module.directive('greet', function() {
*     return {
*       scope: {salutation: '='},
*       template: '{(salutation}) { (name) }! - <span ng-transclude</span>}'
*     };
*   });
*   module.directive('ng2', adapter.downgradeNg2Component(Ng2Component));
*   @Component({
*     selector: 'ng2',
*     template: '<greet salutation="Hello" [name]="world">text</greet>'
*   })
*   class Ng2Component {
*   }
*   @NgModule({
*     declarations: [Ng2, adapter.upgradeNg1Component('greet')],
*     imports: [BrowserModule]
*   })
*   class MyNg2Module {
*   }
*   document.body.innerHTML = '<ng2></ng2>';
*   adapter.bootstrap(document.body, ['myExample']).ready(function() {
*     expect(document.body.textContent).toEqual("ng2 template: Hello world! - text");
*   });
*   adapter.upgradeNg1Component = function (name) {
*     return (this.ng1ComponentsToBeUpgraded[name] = new UpgradeNg1ComponentAdapterBuilder(name));
*   }
*   class UpgradeAdapterRef {
*     constructor(ng1Injector) {
*       this.ng1Injector = ng1Injector;
*     }
*     ready() {
*       this.ng1Injector.$injector.
*   ```
*   const upgradeAdapter = new UpgradeAdapter(MyNg2Module);
*   const module = angular.module('myExample', []);
*   module.directive('greet', function() {
*     return {
*       scope: {salutation: '='},
*       template: '{(salutation}) { (name) }! - <span ng-transclude</span>}'
*     };
*   });
*   module.directive('ng2', adapter.downgradeNg2Component(Ng2Component));
*   @Component({
*     selector: 'ng2',
*     template: '<greet salutation="Hello" [name]="world">text</greet>'
*   })
*   class Ng2Component {
*   }
*   @NgModule({
*     declarations: [Ng2, adapter.upgradeNg1Component('greet')],
*     imports: [BrowserModule]
*   })
*   class MyNg2Module {
*   }
*   document.body.innerHTML = '<ng2></ng2>';
*   adapter.bootstrap(document.body, ['myExample']).ready(function() {
*     expect(document.body.textContent).toEqual("ng2 template: Hello world! - text");
*   });
*   adapter.upgradeNg1Component = function (name) {
*     return (this.ng1ComponentsToBeUpgraded[name] = new UpgradeNg1ComponentAdapterBuilder(name));
*   }
*   class UpgradeAdapterRef {
*     constructor(ng1Injector) {
*       this.ng1Injector = ng1Injector;
*     }
*     ready() {
*       this.ng1Injector.$injector.
* ```
UpgradeAdapter.prototype.bootstrap = function (element$1, modules, config) {
  var _this = this;
  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 () {
    this.declareNg1Module(modules);
    var ng1BootstrapPromise = new Promise(function (resolve) {
      if (windowAngular.resumeBootstrap) {
        var originalResumeBootstrap_1 = windowAngular.resumeBootstrap;
        windowAngular.resumeBootstrap = function () {
          windowAngular.resumeBootstrap = originalResumeBootstrap_1;
        };
      }
      resolve();
    });
    Promise.all([this.ng2BootstrapDeferred.promise, ng1BootstrapPromise]).then(function (_a) {
      var _b = __read(_a, 1), ng1Injector = _b[0];
      element(element$1).data(controllerKey(INJECTOR_KEY), _this.moduleRef.injector); 
      _this.moduleRef.injector.get(core.NgZone).run(function () {
        upgrade._bootstrapDone(_this.moduleRef, ng1Injector);
      });
      return r;
    });
  });
};
new Deferred();\n
ng1Module.constant(UPGRADE_APP_TYPE_KEY, 1 /* Dynamic */)\n
.factory(INJECTOR_KEY, function () { return _this.moduleRef.injector.get(core.Injector); })\n
.factory(LAZY_MODULE_REF, [INJECTOR_KEY, function (injector) { return ({ injector: injector }); }])\n
.constant(NG_ZONE_KEY, this.ngZone)\n
.factory(COMPILER_KEY, function () { return
_this.moduleRef.injector.get(core.Compiler); })\n
.config([\n
'$provide', '$injector',\n
function (provide, ng1Injector) {\n
provide.decorator($ROOT_SCOPE, [\n
'$delegate',\n
function (rootScopeDelegate) {\n
// Capture the root apply so that we can delay first
call to $apply until we\n
// bootstrap Angular and then we replay and restore the $apply.\n
rootScopePrototype = rootScopeDelegate.constructor.prototype;\n
if
(rootScopePrototype.hasOwnProperty('$apply')) {\n
original$applyFn =
rootScopePrototype.$apply;\n
rootScopePrototype.$apply = function (exp) { return
delayApplyExps.push(exp); };\n
}\n
else {\n
throw new
Error('Failed to find \\'$apply\\' on \\'$rootScope\\'!');\n
}\n
return rootScope =
rootScopeDelegate;\n
}\n
]);\n
if (ng1Injector.has($$TESTABILITY)) {\n
provide.decorator($$TESTABILITY, [\n
'$delegate',\n
function
(testabilityDelegate) {\n
var originalWhenStable = testabilityDelegate.whenStable;\n
// Cannot use arrow function below because we need the context\n
var newWhenStable =
function (callback) {\n
originalWhenStable.call(this, function () {\n
var ng2Testability = upgradeAdapter.moduleRef.injector.get(core.Testability);\n
if
(ng2Testability.isStable()) {\n
callback.apply(this, arguments);\n
}\n
else {\n
ng2Testability.whenStable(newWhenStable.bind(this, callback));\n
}\n
});\n
};\n
testabilityDelegate.whenStable = newWhenStable;\n
return testabilityDelegate;\n
}\n
]);\n
}\n
}\n
]);\n
ng1Module.run([\n
'$injector', '$rootScope',\n
function (ng1Injector, rootScope) {\n
UpgradeNg1ComponentAdapterBuilder.resolve(_this.ng1ComponentsToBeUpgraded, ng1Injector)\n
.then(function () {\n
// Note: There is a bug in TS 2.4 that prevents us from\n
// inlining
this into @NgModule\n
// TODO(tbosch): find or file a bug against TypeScript for this.\n
var ngModule = {\n
providers: [\n
{ provide: $INJECTOR, useFactory:
function () { return ng1Injector; } },\n
{ provide: $COMPILE, useFactory: function () { return
ng1Injector.get($COMPILE); } },\n
_this.upgradedProviders\n
],\n
imports: [core.resolveForwardRef(_this.ng2AppModule)],\n
entryComponents:
_this.downgradedComponents\n
};\n
// At this point we have ng1 injector and we have
prepared\n
// ng1 components to be upgraded, we now can bootstrap ng2.\n
var
DynamicNgUpgradeModule = /** @class */ (function () {\n
function
DynamicNgUpgradeModule() {\n
}\n
DynamicNgUpgradeModule.prototype.ngDoBootstrap = function () { };\n
DynamicNgUpgradeModule = __decorate([\n
core.NgModule(__assign({ jit: true },
ngModule)),\n
__metadata(\"design:paramtypes\", [])\n
],
DynamicNgUpgradeModule);\n
return DynamicNgUpgradeModule;\n
}());\n
platformRef\n
.bootstrapModule(DynamicNgUpgradeModule, [_this.compilerOptions, {
ngZone: _this.ngZone }])\n
.then(function (ref) {\n
_this.moduleRef = ref;\n
_this.ngZone.run(function () {\n
if (rootScopePrototype) {\n
rootScopePrototype.$apply = original$applyFn; // restore original $apply\n
while
(delayApplyExps.length) {\n
rootScope.$apply(delayApplyExps.shift());\n
}\n
rootScopePrototype = null;\n
}\n
});\n
})\n
.then(function () { return _this.ng2BootstrapDeferred.resolve(ng1Injector); }, onError)\n
.then(function () {\n
var subscription = _this.ngZone.onMicrotaskEmpty.subscribe({\n

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next: function () {
                if (rootScope.$$phase) {
                    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(function () { });
                }

                return rootScope.$digest();
            }

            .catch(function (e) { return _this.ng2BootstrapDeferred.reject(e); });
        }
    });

    rootScope.$on('destroy', function () { subscription.unsubscribe(); });
}

module.exports = function (ng1Module) {
    return UpgradeAdapter(ng1Module);
};

var ParentInjectorPromise = /** @class */ (function () {
    function ParentInjectorPromise(element) {
        this.element = element;
        this.callbacks = [];
    }

    ParentInjectorPromise.prototype.then = function (callback) {
        if (this.injector) {
            callback(this.injector);
        }
        else {
            this.callbacks.push(callback);
        }
    };

    ParentInjectorPromise.prototype.resolve = function (injector) {
        this.injector = injector;
        this.callbacks.forEach(function (callback) { return callback(injector); });
        this.callbacks.length = 0;
    };

    return ParentInjectorPromise;
};

// This file only re-exports content of the `src` folder. Keep it that way.

upgrade.UpgradeAdapter = UpgradeAdapter;
upgrade.UpgradeAdapterRef = UpgradeAdapterRef;

upgrade.VERSION = VERSION;

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

//

sourceMappingURL=upgrade.umd.js.map

static.umd.js","sources":["../../../../../../../packages/upgrade/src/common/src/angular1.ts","../../../../../external/npm/nod
e_modules/tslib/tslib.es6.js","../../../../../../../packages/upgrade/src/common/src/constants.ts","../../../../../../../packages/
upgrade/src/common/src/component_info.ts","../../../../../../../packages/upgrade/src/common/src/util.ts","../../../../../../..
/packages/upgrade/src/common/src/downgrade_component_adapter.ts","../../../../../../../packages/upgrade/src/commo
n/src/promise_util.ts","../../../../../../../packages/upgrade/src/common/src/downgrade_component.ts","../../../../../../../pa
ts","../../../../../../packages/upgrade/static/src/angular1_providers.ts","../../../../../../packages/upgrade/static/src/util.ts","
../../../../../../packages/upgrade/static/src/downgrade_module.ts","../../../../../../../packages/upgrade/src/common/src/up
grade_helper.ts","../../../../../../packages/upgrade/static/src/upgrade_component.ts","../../../../../../packages/upgrade/stat
ic/src/upgrade_module.ts","../../../../../../packages/upgrade/static/public_api.ts","../../../../../../packages/upgrade/static/i
ndex.ts","../../../../../../packages/upgrade/static/static.ts"],"sourcesContent":["/**\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 type Ng1Token = string;\n\nexport type
Ng1Expression = string | Function;\n\nexport interface IAnnotatedFunction extends Function {\n // Older versions
of `@types/angular` typings extend the global `Function` interface with\n // `$inject?: string[]`, which is not
compatible with `$inject?: ReadonlyArray<string>` (used in\n // latest versions).\n $inject?: Function
extends{$inject?: string[]}? Ng1Token[]: ReadonlyArray<Ng1Token>;\n}\n\nexport type IInjectable = (Ng1Token |
Function)[] | IAnnotatedFunction;\n\nexport type SingleOrListOrMap<T> = T | T[] | {[key: string]: T};\n\nexport
interface IModule {\n name: string;\n requires: (string|IInjectable)[];\n config(fn: IInjectable): IModule;\n
directive(selector: string, factory: IInjectable): IModule;\n component(selector: string, component: IComponent):
IModule;\n controller(name: string, type: IInjectable): IModule;\n factory(key: Ng1Token, factoryFn: IInjectable):
IModule;\n value(key: Ng1Token, value: any): IModule;\n constant(token: Ng1Token, value: any): IModule;\n
run(a: IInjectable): IModule;\n}\nexport interface ICompileService {\n (element: Element|NodeList|Node[]|string,
transclude?: Function): ILinkFn;\n}\nexport interface ILinkFn {\n (scope: IScope, cloneAttachFn?:
ICloneAttachFunction, options?: ILinkFnOptions): IAugmentedJQuery;\n $$slots?: {[slotName: string]:
ILinkFn};\n}\nexport interface ILinkFnOptions {\n parentBoundTranscludeFn?: Function;\n
transcludeControllers?: {[key: string]: any};\n futureParentElement?: Node;\n}\nexport interface
IRootScopeService {\n $new(isolate?: boolean): IScope;\n $id: string;\n $parent: IScope;\n $root: IScope;\n
$watch(exp: Ng1Expression, fn?: (a1?: any, a2?: any) => void): Function;\n $on(event: string, fn?: (event?: any,
...args: any[]) => void): Function;\n $destroy(): any;\n $apply(exp?: Ng1Expression): any;\n $digest(): any;\n
$evalAsync(exp: Ng1Expression, locals?: any): void;\n $on(event: string, fn?: (event?: any, ...args: any[]) => void):
Function;\n $$childTail: IScope;\n $$childHead: IScope;\n $$nextSibling: IScope;\n [key: string]: any;\n}\nexport
interface IScope extends IRootScopeService {}\n\nexport interface IAngularBootstrapConfig { strictDi?: boolean;
}\nexport interface IDirective {\n compile?: IDirectiveCompileFn;\n controller?: IController;\n controllerAs?:
string;\n bindToController?: boolean|{[key: string]: string};\n link?: IDirectiveLinkFn|IDirectivePrePost;\n name?:
string;\n priority?: number;\n replace?: boolean;\n require?: DirectiveRequireProperty;\n restrict?: string;\n
scope?: boolean|{[key: string]: string};\n template?: string|Function;\n templateUrl?: string|Function;\n
templateNamespace?: string;\n terminal?: boolean;\n transclude?: DirectiveTranscludeProperty;\n}\nexport type
DirectiveRequireProperty = SingleOrListOrMap<string>;\nexport type DirectiveTranscludeProperty = boolean |
'element' | {[key: string]: string};\nexport interface IDirectiveCompileFn {\n (templateElement:
IAugmentedJQuery, templateAttributes: IAttributes,\n transclude: ITranscludeFunction):
IDirectivePrePost;\n}\nexport interface IDirectivePrePost {\n pre?: IDirectiveLinkFn;\n post?:
IDirectiveLinkFn;\n}\nexport interface IDirectiveLinkFn {\n (scope: IScope, instanceElement: IAugmentedJQuery,
instanceAttributes: IAttributes,\n controller: any, transclude: ITranscludeFunction): void;\n}\nexport interface
IComponent {\n bindings?: {[key: string]: string};\n controller?: string|IInjectable;\n controllerAs?: string;\n
require?: DirectiveRequireProperty;\n template?: string|Function;\n templateUrl?: string|Function;\n transclude?:
DirectiveTranscludeProperty;\n}\nexport interface IAttributes {\n $observe(attr: string, fn: (v: string) => void):
void;\n [key: string]: any;\n}\nexport interface ITranscludeFunction {\n // If the scope is provided, then the

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cloneAttachFn must be as well.

JSON object:

```json
{  "name": "cloneAttachFn",
  "text": "callback function for attaching a clone to the DOM.

  @param {function} cloneAttachFn - The function to be called when the
    clone is attached to the DOM.

  @returns {IAugmentedJQuery} - The augmented jQuery object.

  @example
  $(element).clone().css('background-color', 'red').clone();

  For more information on $.clone(), see the documentation for
  $.clone.
  
  @type {function} cloneAttachFn
}
```

**Properties:**

- `cloneAttachFn`: A function that is called when the clone is attached to the DOM.

**Methods:**

- `get(): IAppComponent`: Returns the parent component.
- `remove(): void`: Removes the clone from the DOM.
- `removeData(): void`: Removes any data from the clone.
- `controller(): IAppComponent`: Returns the current controller.
- `injector(): IInjectorService`: Returns the current injector.
- `triggerHandler(eventTypeOrObject: string | Event, extraParameters?: any[]): IAppComponent`: Triggers an event handler.
- `append(content: IAugmentedJQuery | string): IAugmentedJQuery`: Appends content to the clone.
- `controller(): IAppComponent`: Returns the current controller.
- `injector(): IInjectorService`: Returns the current injector.
- `triggerHandler(eventTypeOrObject: string | Event, extraParameters?: any[]): IAppComponent`: Triggers an event handler.
- `append(content: IAugmentedJQuery | string): IAugmentedJQuery`: Appends content to the clone.

**Examples:**

```javascript
$.clone().css('background-color', 'red').clone();
```

**Related functions:**

- `$.clone()`: Clones the specified element.

**Related instruction:** Use the `cloneAttachFn` property to attach a clone to the DOM.

---

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```typescript
export function setAngularJSGlobal(ng: any): void {
  angular = ng;
}

export function getAngularJSGlobal(): any {
  return angular;
}

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

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, 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); } }
            step(result.value);
        })
    })
};
```

---

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```
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```typescript
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 UPGRADE_APP_TYPE_KEY = '$$$UpgradeModule';
```

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

```typescript
@NgModule({
  // TODO(issue/24571): remove '!'.
  // Note: This constructor should not be a function, but a class.
  // constructor(public prop: any, public attr: any) {
  //   this.bracketAttr = `\[${this.attr}]`;
  //   this.parenAttr = `\(\(${this.attr})\)`;
  //   this.bracketParenAttr = `\[${this.attr}]\(\(${this.attr})\)`;
  //   const capitalAttr = this.attr.charAt(0).toUpperCase() + this.attr.substr(1);
  //   this.onAttr = `on\${capitalAttr}`;
  //   this.bindAttr = `bind\${capitalAttr}`;
  //   this.bindonAttr = `bindon\${capitalAttr}`;
  // }
```
Check for common errors.
switch (upgradeAppType) {
  case UpgradeAppType.Dynamic:
    throw new Error('Unrecognized upgradeAppType.');
  case UpgradeAppType.None:
    throw new Error('UpgradeAppType.None is not a valid option.');
  default:
    throw new Error('UpgradeAppType: ' + upgradeAppType);}

if (downgradedModule) {
  throw new Error(`Error while ${attemptedAction}: 'downgradedModule' unexpectedly specified. You should not specify a value for 'downgradedModule', unless you are downgrading more than one Angular module (via `downgradeModule()`)');
} else {
  throw new Error('Error while ${attemptedAction}: 'downgradedModule' not specified.');
}

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

/**
 * Determines whether the passed-in component implements the subset of the
 * `ControlValueAccessor` interface needed for AngularJS `ng-model`
 * compatibility. *
 * *infrastructure supportsNgModel(component: any): (value: R | PromiseLike<R>) => void;*
 * *infrastructure type=component.*
 * *function '${attemptedAction}'(value: R | PromiseLike<R>) => void;*
 */
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).
 */
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 {
  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>;
  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 parentScope: IScope) {
    // TODO(issue/24571): remove '!'.
    componentRef!.
  }

  ngOnInit(): void {
    // TODO(issue/24571): remove '!'.
    componentRef!.componentRef!.
  }

  ngOnDestroy(): void {
    // TODO(issue/24571): remove '!'.
    componentRef!.componentRef!.
  }
}
private wrapCallback: <T>(cb: () => T) => () => T) {
    this.componentScope = scope.$new();
} //

compileContents(): Node[][] {
    const compiledProjectableNodes: Node[][] = [];
    const projectableNodes: Node[][] = this.$compile(nodes);
    this.$linkFns = projectableNodes.map(nodes =>
      this.$linkFnsForEach( bizNode => {
        this.$linkFn(bizNode, (clone: Node) => {
          this.$linkFns.push(clone);
          this.$element.append(clone);
        });
      }));
    return compiledProjectableNodes;
}

createComponent(projectableNodes: Node[][]): any {
  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 in
    // packages/core/src/application_ref.bootstrap()
    // in
dowgraded application, component creation will take place here as well as adding the
    // testability hook.
  this.componentRef.injector.get(Testability, null); if (testability) {
    this.componentRef.injector.get(TestabilityRegistry)
      .registerApplication(this.componentRef.location.nativeElement, testability);
    } //

hookupNgModel(this.ngModel, this.component): void {
}

setupInputs(manuallyAttachView: boolean, propagateDigest = true): void {
  this.attrs = 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);
          }
        };
      })(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(null, null, () => {
        if (attrs.hasOwnProperty(input.bindAttr)) {
          expr = attrs[input.bindAttr];
        } else if (attrs.hasOwnProperty(input.bracketAttr)) {
          expr = attrs[input.bracketAttr];
        } else if (attrs.hasOwnProperty(input.bracketParenAttr)) {
          expr = attrs[input.bracketParenAttr];
        }
        this.componentScope.$watch(expr, () =>
          this.updateInput(prop, prevValue, currValue));
      });
    } else if (!strictEquals(prevValue, currValue)) {
      unwatch();
      unwatch = null;
    }
  }
} //

this.componentScope.$watch(this.wrapCallback(detectChanges));

// Invoke `ngOnChanges()` and Change Detection
// (when necessary)
this.componentScope.$watch(this.$changeDetector.detectChanges());
// const prototype = this.componentFactory.componentType.prototype;
this.implementsOnChanges = !!

// Invoke `ngOnChanges()`
this.$changeDetector.detectChanges();
// if this.implementsOnChanges() {
// const inputChanges = this.inputChanges;
// this.inputChanges = {};
// this.$changeDetector.detectChanges();
// }

// If opted out of propagating digests, invoke change detection
// when inputs change.
if (!propagateDigest) {
  this.componentScope.$watch(this.$changeDetector.markForCheck());
  // If not opted out of propagating digests, invoke change detection on every digest
} if (propagateDigest) {
  this.componentScope.$watch(this.$changeDetector.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;
const appRef = this.parentInjector.get<ApplicationRef>(ApplicationRef);
appRef.attachView(this.componentRef.hostView);

setupOutputs() {
  const attrNames = this.attrs;
  const outputs = this.componentFactory.outputs || [];
  for (let j = 0; j < outputs.length; j++) {
    const output = new PropertyBinding(outputs[j].propName, outputs[j].templateName);
    const bindonAttr = output.bindonAttr ? output.bindonAttr.substring(0, output.bindonAttr.length - 6) : null;
    const bracketParenAttr = `[$output.bracketParentAttr.substring(2, output.bracketParentAttr.length - 8)]`;
    if (attrs.hasOwnProperty(bindonAttr) || attrs.hasOwnProperty(bracketParenAttr)) {
      this.subscribeToOutput(output, attrs[bindonAttr], true);
    } else {
      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) {
  const getter = this.$parse(expr);
  const setter = getter.assign;
  if (!setter) {
    throw new Error(`Expression '${expr}' is not assignable!`);
  }
  const emitter = this.component[output.prop] as EventEmitter<any>;
  if (emitter) {
    emitter.subscribe({
      next: (v: any) => getter(this.scope, {'$event': v})
    });
  } else {
    throw new Error(`Missing emitter '${output.prop}' on component`);
  }
}

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

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

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

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

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

ngContentSelectors = 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[][] = [[]];
  const wildcardNgContentIndex: number = -1;

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

  return projectableNodes;
}

function findMatchingNgContentIndex(element: any, selector: string): number | null {
  const ngContentNodes: Node[] = [];

  if (matchesSelector(element, selector)) {
    ngContentNodes.push(element);
  }

  ngContentNodes.sort((a, b) => (a.nodeType === Node.ELEMENT_NODE ? 1 : -1) - (b.nodeType === Node.ELEMENT_NODE ? 1 : -1))
  return ngContentNodes.length ? ngContentNodes[0] : null;
}

let _matches: (this: any, selector: string) => boolean;

function matchesSelector(el: any, selector: string): boolean {
  if (!_matches) {
    const elProto = <any>Element.prototype;
    _matches = elProto.matches || elProto.matchesSelector || elProto.mozMatchesSelector ||
        elProto.msMatchesSelector || elProto.webkitMatchesSelector;
  }
  return _matches.call(elProto, selector);
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)) || (typeof obj.then === 'function') || 
  (obj instanceof Function && obj.constructor.name === 'AsyncFunction'); 
}

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

  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, 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*
 * This helper function returns a factory function to be used for registering
 * an AngularJS wrapper directive
 * that wraps the "downgraded" component.
 *
 * @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 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 "downgraded" component.
 *
 * ```
 * {@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](https://docs.angularjs.org/guide/upgrade#using-angular-components-from-angularjs-code)
 * topic.
 *
 * @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()`.
 * - `propagateDigest?: boolean`: Whether to perform a `@link
 *   ChangeDetectorRef#detectChanges` change detection
 *   on the component on every
 * $digest() if set to 'false'.
 * - `inputs?: string[]`: The property names that will be downgraded.
 * - `outputs?: string[]`: The property names that will be downgraded.
 * - `selectors?: string[]`: The property names that will be downgraded.

 * @returns a factory function that can be used to register the component in an
 * AngularJS module.
 *
 * @publicApi
 */
export function downgradeComponent(info: {
  component: Type<any>; downgradedModule?: string; propagateDigest?: boolean; 
  /** @deprecated since v4. This parameter is no longer used */
  inputs?: string[]; 
  /** @deprecated since v4. This parameter is no longer used */
  outputs?: string[]; 
  /** @deprecated since v4. This parameter is no longer used */
  selectors?: string[];
}) { 
  return (factoryFn: (scope: IScope) => any) => 
    (factoryFn); 
}

/*
 * This helper function returns a factory function to be used for registering
 * an AngularJS wrapper directive
 * for `downgrading` an Angular component.
 * @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()`.
 * - `propagateDigest?: boolean`: Whether to perform a `@link
 *   ChangeDetectorRef#detectChanges` 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>; 
  /** @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[];
}) { 
  return (factoryFn: (scope: IScope) => any) => 
    (factoryFn); 
}
  // When using `downgradeModule()`, we need to handle certain things specially. For example:
  // - We always need to attach the component view to the `ApplicationRef` for it to be `dirty-checked`.
  // - We need to ensure callbacks to Angular APIs (e.g. change detection) are run inside the
    Angular zone.
  // NOTE: This is not needed, when using `UpgradeModule`, because `$digest()` will be run
    inside the Angular zone (except if explicitly escaped, in which case we shouldn’t force it back
  into the Angular zone).

  const isNgUpgradeLite = getUpgradeAppType($injector) === UpgradeAppType.Lite;
  const wrapCallback = 
      typeof cb =
        !isNgUpgradeLite ? cb => cb : cb => () =>
      NgbZone.isInAngularZone() ? cb() : NgbZone.run(cb);

  let ngZone: NgbZone;

  // 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 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
        //   declaring `NgModule`’s injector as `finalModuleInjector`. (Note 1: If the
        //   `NgModule` is already bootstrapped, we just get its injector (we don’t need 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 not
        //   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
            isNgUpgradeLite &&
            hasMultipleDowngradedModules {
        } const
    }
  }
doDowngrade = (injector: Injector, moduleInjector: Injector) => {
    const componentFactoryResolver = new ComponentFactoryResolver(moduleInjector);
    moduleInjector.get(Injector, ComponentFactoryResolver); // component belongs to
    const componentFactory: ComponentFactory<any> = componentFactoryResolver.resolveComponentFactory(info.component) !;

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

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

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

    injectorPromise.resolve(facade.getInjector());

    if (ranAsync) {
        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
// 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
 * 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} 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.
 * 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 an
 * defined `HeroesService` which is a service provided by the `ng2-heroes-service` module.
 * Now we can register the `downgradeInjatable` factory function for the service
 * on an AngularJS module.
 * Inside an AngularJS component's controller we can get hold of the service via
 * the name we gave when downgrading.
 * When using `downgradeModule()`, downgraded injectables will not be available until the Angular service is instantiated. In order to be safe, you need to ensure that
 * 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.

It is the module, whose injector will *be* used for instantiating the injectable.<br />

* This option is only necessary when using `downgradeModule()` to downgrade more than one Angular module.

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

* @param token an `InjectionToken` that identifies a service provided from Angular.

* @param

  * 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.

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

* @param

  * the name of the downgraded module (if any) that the injectable "belongs to", as returned by a call to `downgradeModule()`.

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* It is the module, whose injector will *be* used for instantiating the injectable.
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/util';

let moduleUid = 0;

/**
 * @description
 *
 * A helper function for creating an AngularJS module that can bootstrap an Angular module
 * "on-demand" (possibly lazily) when a [ @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
 * 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
 *   `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) and
 * [UpgradeModule](guide/upgrade) for more details.
 *
 * For a more detailed discussion of the differences and their implications, see
 * [Upgrading for Performance](guide/upgrade-performance).
 * 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
 * $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
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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).
downgrading multiple modules:

- Each downgraded component/injectable needs to be explicitly associated with a downgraded\n  module. See `downgradeComponent()` and `downgradeInjectable()` for more details.\n
- If you want some injectables to be shared among all downgraded modules, you can provide them as\n  `StaticProvider`'s, when creating the `PlatformRef` (e.g. via `platformBrowser` or\n  `platformBrowserDynamic`).\n
- When using [@link PlatformRef#bootstrapmodule `bootstrapModule()`] or\n  [@link PlatformRef#bootstrapmodulefactory `bootstrapModuleFactory()`] to bootstrap the\n  downgraded modules, each one is considered a `\$root` module. As a consequence, a new instance\n  will be created for every injectable provided in `\$root` (via\n  [@link Injectable#providedIn `providedIn`]).\n
- If this is not your intention, you can have a shared module (that will act as the `\$root`\n  module) and create all downgraded modules using that module's injector:\n
  ```typescript
  moduleFactoryOrBootstrapFn: NgModuleFactory<T>|
      ((extraProviders: StaticProvider[]) =>
  ```

  To create an ng1 module to bootstrap:\n
  ```
  angularModule(lazyModuleName, [
  ```

  To get the Angular injector before bootstrapping the corresponding `Angular module.`:\n
  ```
  angularModule(lazyModuleName)
  .constant(UPGRADE_APP_TYPE_KEY, UpgradeAppType.Lite)
  .factory(INJECTOR_KEY,
  [lazyInjectorKey, identity])
  .factory(lazyInjectorKey,
      () => {
        throw new Error(
            'Trying to get the Angular injector before bootstrapping the corresponding `Angular ' +
            'module.');
      })
  .factory(LAZY_MODULE_REF,
      [lazyModuleRefKey, identity])
  .factory(lazyModuleRefKey,
      () => {
        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])
  ```
slotMap|directiveNormalize(node.nodeName.toLowerCase())|} if (slotName) {\n  filledSlots[slotName] = true;\n slots[slotName] = slots[slotName] || [];\n slots[slotName].push(node);\n } else {\n $template.push(node);\n }\n};\n
// Check for required slots that were not filled.\n Object.keys(filledSlots).forEach(slotName => {\n  if (!filledSlots[slotName]) {\n    throw new Error(`Required transclusion slot '${slotName}' on directive: '${this.name}';\n  }\n});\n
Object.keys(slots).filter(slotName => slots[slotName]).forEach(slotName => {\n  const nodes = slots[slotName];\n  slots[slotName] = (scope: IScope, cloneAttach: ICloneAttachFunction) => {\n    return cloneAttach(!nodes, scope);\n  }\n});\n
// Attach '$$slots' to default slot transclude fn.\n attachChildrenFn.$$slots = slots;\n
// AngularJS v1.6+ ignores empty or whitespace-only transcluded text nodes. But Angular\n// removes all text content after the first interpolation and updates it later, after\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_non-joiner)\n// to empty text nodes (which can only be a result of Angular removing their initial content).\n// NOTE: Transcluded text content that starts with whitespace followed by an interpolation\n// will still fail to be detected by AngularJS\n
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;
    };\n
    Object.keys(requiredControllersMap).forEach(key => {\n      controllerInstance[key] = requiredControllersMap[key];\n    });\n  }\n
  return requiredControllers;
}

private compileHtml(html: string): ILinkFn {
  this.element.innerHTML = html;
  return this.$compile(this.element.childNodes);\n}

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

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

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

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

private resolveRequire(require: DirectiveRequireProperty, controllerInstance?: any): SingleOrListOrMap<IControllerInstance>|null {
  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 key = (typeof key === 'string' ? key : require[key]);\n    const elem = !startOnParent ? this.$element.parent() : this.$element;\n    const ctrlKey = ctrlKey(name);\n    const inheritType = match[1] || match[3];\n    const name = require.substring(match[0].length);\n    const isOptional = !!match[2];\n    const searchParents = inheritType;\n    const constStartOnParent = inheritType === '^~';\n    const ctrlKey = controllerKey(name);\n    const elem = startOnParent ? this.$element.parent() : this.$element;\n    const 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  } else {\n    throw new Error(`Unrecognized 'require' syntax on upgraded directive '${this.name}';\n  }\n}


Open Source Used In MSX vBranch Service Pack 3.9.0 6238
import {DoCheck, ElementRef, EventEmitter, Injector, OnChanges, OnDestroy, OnInit, SimpleChanges, ɵlooseIdentical as looseIdentical} from '@angular/core';

import {IAtributes, IAugmentedJQuery, IDirective, IDirectivePrePost, InjectorService, ILINKFn, IScope, ITranscludeFunction} from '../../src/common/src/angular1';
import {$SCOPE} from '../../src/common/src/constants';
import {IBindingDestination, IControllerInstance, UpgradeHelper} from '../../src/common/src/upgrade_helper';
import {isFunction} from '../../src/common/src/util';

const NOT_SUPPORTED: any = 'NOT_SUPPORTED';
const INITIAL_VALUE = {
  __UNINITIALIZED__: true
};

class Bindings {
  twoWayBoundProperties: string[] = [];
  twoWayBoundLastValues: any[] = [];

  expressionBoundProperties: string[] = [];

  propertyToOutputMap: {
    [propName: string]: string
  } = {};
}

/**
 * @description
 *
 * A helper class that allows an AngularJS 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 class should be used as a base class for creating Angular directives that
 * wrap AngularJS components that need to be upgraded.
 *
 * @usageNotes
 * ### Examples
 *
 * Let's assume that you have an AngularJS component called `ng1Hero` that needs to be upgraded:
 *
 * @example upgrade/static/ts/full/module.ts region="ng1-hero"
 *
 * We must create a `Directive` that will make this AngularJS component available inside Angular templates:
 *
 * @example upgrade/static/ts/full/module.ts region="ng1-hero-wrapper"
 *
 * In this example you can see that we must derive from the `UpgradeComponent` base class but also provide an `@link Directive` decorator. This isn't because the AOT compiler requires that this information is statically available at compile time.
 *
 * Note that we must do the following:
 * * specify the directive's selector (`ng1Hero`)
 * * specify all inputs and outputs that the AngularJS component expects
 * * derive from the `UpgradeComponent` base class
 * * call the constructor, passing the AngularJS name of the component (`ng1Hero`), the `ElementRef` and `Injector` for the component wrapper
 *
 * @publicApi
 */
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;

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

  // TODO(issue/24571): remove '!' type.
  // We will be instantiating the controller in the `ngOnInit` hook, when the element has already been triggered. We store the controller in the `SimpleChanges` and `play them back` later.
  // TODO(issue/24571): remove '!' type.
  private pendingChanges!: SimpleChanges | null;

  // Create a new `UpgradeComponent` instance. You should not normally need to do this. Instead you should derive a new class from this one and call the super constructor from the base class.
  // The `name` parameter should be the name of the AngularJS directive.
  // The `elementRef` and `injector` parameters should be acquired from Angular by dependency injection.
  // injection into the base class constructor.
  constructor(private name: string, private elementRef: ElementRef, private injector: Injector) {
    this.helper = new UpgradeHelper(injector, name, elementRef);

    this.$injector = this.helper.$injector;

    this.element = this.helper.element;
    this.$element = this.helper.$element;

    this.directive = this.helper.directive;
    this.bindings = this.initializeBindings(this.directive);

    // QUESTION 1: Should we create an isolated scope if the scope is only true?
    // QUESTION 2: Should we make the scope accessible through `$element.scope/isolateScope()`?
    this.$componentScope = this.helper.$injector.get($SCOPE);

    // We ask for the AngularJS scope from the Angular injector, since we will put the new component scope onto the new injector for each component.
    const Sprintf = injector.get(SSCOPES);

    // QUESTION 1: Should we create an isolated scope if the scope is only true?
    // QUESTION 2: Should we make the scope accessible through `$element.scope/isolateScope()`?
    this.$componentScope = new Sprintf(this.directive.scopes[0]);

    this.initializeInputs();
    this.initializeOutputs();
    this.ngOnInit();

    // Collect contents, insert and compile template
    const attachChildNodes = this.helper.prepareTransclusion();
    const linkFn = this.helper.compileTemplate();

    // Instantiate controller
    this.controllerType = this.directive.controller;
    this.bindToController = this.directive.bindToController;
function (controllerType) {
          this.controllerInstance = this.helper.buildController(controllerType, this.$componentScope);
        } else if (bindToController) {
          throw new Error(`'${this.directive.name}' specifies 'bindToController' but no controller.`);
        }

        // Set up outputs
        this.bindingDestination = bindToController ? this.controllerInstance : this.$componentScope;
        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)) {
          const callDoCheck = () => this.controllerInstance.$doCheck();
          this.unregisterDoCheckWatcher = this.$componentScope.$parent.$watch(callDoCheck);
          callDoCheck();
        }
        // Hook: $postLink
        if (this.controllerInstance && isFunction(this.controllerInstance.$postLink)) {
          this.controllerInstance.$postLink();
        }
      }

      ngOnChanges(changes: SimpleChanges) {
        if (!this.bindingDestination) {
          this.pendingChanges = changes;
        } else {
          this.forwardChanges(changes);
        }
      }

      ngDoCheck() {
        const twoWayBoundProperties = this.bindings.$twoWayBoundProperties;
        const propertyToOutputMap = this.bindings.$propertyToOutputMap;
        const twoWayBoundLastValues = this.bindings.$twoWayBoundLastValues;
        const propertyName = propName;
        const oldValue = twoWayBoundLastValues[idx];
        const newValue = this.bindingDestination[propertyName];
        if (!looseIdentical(newValue, oldValue)) {
          const outputName = this.bindings.$propertyToOutputMap[propertyName];
          const eventEmitter: EventEmitter<any> = (this as any)[outputName];
          eventEmitter.emit(newValue);
          twoWayBoundLastValues[idx] = newValue;
        }
      }

      ngOnDestroy() {
        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(`Upgraded directive '${this.directive.name}' specifies 'bindToController' but no controller.`);
        }

        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.$propertyToOutputMap[propName] = propName;
                bindings.$expressionBoundProperties.push(propName);
                break;
              case '&':
                break;
              default:
                const json = JSON.stringify(context);
                throw new Error(`Unexpected mapping '${bindingType}' in '${json}' in '${this.name} directive.'
            `);
            }
          });
          return bindings;
        }
        private initializeOutputs() {
          // Initialize the outputs for '=' and '&' bindings
          this.bindings.$twoWayBoundProperties.concat(this.bindings.$expressionBoundProperties)
            .forEach(propName => {
              this.$componentScope[propName] = new EventEmitter();
              (this as any)[propName] = new EventEmitter();
              (this as any)[propName].emit(newValue);
              (this as any)[propName] = newValue;
            });
          this.bindings.$privateBindOutputs[propName] = newValue;
        }
      }
    }
    return this;
  }

  $onChanges(changes: SimpleChanges) {
    this.$doCheck();
    this.$privateInitializeOutputs();
  }

  $onInit() {
    // 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;
  }

  $onDestroy() {
    // 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;
    (this as any)[propName].emit(newValue);
  }

  $postLink() {
    // 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;
  }

corresponding outputs
this.bindings.expressionBoundProperties.forEach(propName => {
  const outputName = this.bindings.propertyToOutputMap[propName];
  const emitter = (this as any)[outputName];
  this.bindingDestination[propName] = (value: any) => emitter.emit(value);
});

private forwardChanges(changes: SimpleChanges) {
  // Forward input changes to `bindingDestination`
  Object.keys(changes).forEach(propName => {
    this.bindingDestination[propName] = changes[propName].currentValue;
  if (isFunction(this.bindingDestination.SonChanges)) {
      this.bindingDestination.SonChanges(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 {Injector, 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, ctrlKey} from
  '.../..src/common/src/consts';
import {Angular1Providers} from '.../..src/common/src/consts';
import {NgAdapterInjector} from './util';

/**
 * @description
 *
 * An `NgModule`, which you import to provide
 * AngularJS core services,
 * and has an instance method used to bootstrap the hybrid upgrade application.
 *
 * Part of the [upgrade/static](api?query=upgrade/static)
 * library for hybrid upgrade apps that support AOT
 * compilation*
 *
 * 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
 *    it can be used in an AngularJS template. See `downgradeComponent`.
 * 3. Bootstrapping of a hybrid Angular application which contains both of the frameworks
 *    coexisting in a single application.
 * 4. Creation of an Angular root injector provider that wraps and exposes an AngularJS
 *    service so that it can be injected into an Angular context. See
 *    `UpgradeModule#upgrading-an-angular-1-service` below.
 *
 * Creation of an AngularJS service that wraps and exposes an Angular injectable
 * so that it can be injected into an AngularJS context. See `downgradeInjectable`.
 * 3. Bootstrap of a hybrid Angular application which contains both of the frameworks
 *    coexisting in a single application.
 * 4. Creation of an AngularJS framework codebase regardless of framework
 *    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 the AngularJS framework codebase regardless of framework
 *    where they are instantiated.
 *
 * Angular components always execute inside the Angular framework codebase regardless of framework
 * 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\`\`downgraded\ component is instantiated
 *    the host element is owned by framework
 *    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 framework
 *    instantiation framework.
 * 2. The DOM attributes are parsed by the framework that
 *    owns the current template. So
 *    attributes in AngularJS templates must use kebab-case, while AngularJS
 *    templates must use camelCase.
 *
 * However the template binding syntax will always use the Angular
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style, e.g. square brackets ("[..."]) for property binding.  8. Angular is bootstrapped first; AngularJS is bootstrapped second. AngularJS always owns the root component of the application.  9. The new application is running in an Angular Zone, and therefore it no longer needs calls to $apply().  

### The `UpgradeModule` class

This class is an `NgModule`, which you import to provide AngularJS core services, and has an instance method used to bootstrap the hybrid upgrade application. It also contains properties to access the `UpgradeModule` to your Angular `NgModule` and use it to bootstrap the top level AngularJS module.

#### Examples

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

```typescript
import { UpgradeModule } from '@angularupgrade/upgrade

@NgModule({
  imports: [UpgradeModule],
})
export class AppModule {

  bootstrap() {
    UpgradeModule.bootstrap();
  }
}
```

- Then use the `UpgradeModule` to bootstraps an AngularJS application.

```typescript
import { UpgradeModule } from '@angularupgrade/upgrade

@NgModule({
  imports: [UpgradeModule],
})
export class AppModule {

  bootstrap() {
    UpgradeModule.bootstrap();
  }
}
```

- Finally, kick off the whole process, by bootstrapping your top level AngularJS service by injecting it into an Angular component.

```typescript
import { UpgradeModule } from '@angularupgrade/upgrade

@NgModule({
  imports: [UpgradeModule],
})
export class AppModule {

  bootstrap() {
    UpgradeModule.bootstrap();
  }
}
```

- Then you should define an Angular provider to be included in your `NgModule`.

```typescript
import { UpgradeModule } from '@angularupgrade/upgrade

@NgModule({
  imports: [UpgradeModule],
})
export class AppModule {

  bootstrap() {
    UpgradeModule.bootstrap();
  }
}
```

- Then use the `UpgradeModule` to bootstraps an AngularJS application.

```typescript
import { UpgradeModule } from '@angularupgrade/upgrade

@NgModule({
  imports: [UpgradeModule],
})
export class AppModule {

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    UpgradeModule.bootstrap();
  }
}
```

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```typescript
import { UpgradeModule } from '@angularupgrade/upgrade

@NgModule({
  imports: [UpgradeModule],
})
export class AppModule {

  bootstrap() {
    UpgradeModule.bootstrap();
  }
}
```

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```typescript
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@NgModule({
  imports: [UpgradeModule],
})
export class AppModule {

  bootstrap() {
    UpgradeModule.bootstrap();
  }
}
```

- Then use the `UpgradeModule` to bootstraps an AngularJS application.

```typescript
import { UpgradeModule } from '@angularupgrade/upgrade

@NgModule({
  imports: [UpgradeModule],
})
export class AppModule {

  bootstrap() {
    UpgradeModule.bootstrap();
  }
}
```

- Finally, kick off the whole process, by bootstrapping your top level AngularJS service by injecting it into an Angular component.

```typescript
import { UpgradeModule } from '@angularupgrade/upgrade

@NgModule({
  imports: [UpgradeModule],
})
export class AppModule {

  bootstrap() {
    UpgradeModule.bootstrap();
  }
}
```

- Then you should define an Angular provider to be included in your `NgModule`.

```typescript
import { UpgradeModule } from '@angularupgrade/upgrade

@NgModule({
  imports: [UpgradeModule],
})
export class AppModule {

  bootstrap() {
    UpgradeModule.bootstrap();
  }
}
```

- Then use the `UpgradeModule` to bootstraps an AngularJS application.

```typescript
import { UpgradeModule } from '@angularupgrade/upgrade

@NgModule({
  imports: [UpgradeModule],
})
export class AppModule {

  bootstrap() {
    UpgradeModule.bootstrap();
  }
}
```
```typescript

if (Sinjector.has($INTERVAL)) {  
  $provide.decorator($INTERVAL, 
    SDELEGATE, 
    (intervalDelegate: IIntervalService) => {  
      // Wrap the $interval service so that setInterval is called outside NgZone.  
      // but the callback is still invoked within it.  This is so that $interval
      // won't block stability, which preserves
      // the behavior from AngularJS.  See $interval.defaultDelegate.
      let wrappedInterval = $provide.decorator($INTERVAL, 
        (fn: Function, delay, number, count?: number, invokeApply?: boolean, ...) => {  
          return
          this.ngZone.runOutsideAngular(() => {
            intervalDelegate((...args: any[]) => {  
              // Run callback in the next VM turn - $interval calls
              // $rootScope.$apply, and running
              // the callback in NgZone will
              // cause a 'Sdigest already in progress' error if it's in the
              // same VM turn.
              setTimeout(() => { this.ngZone.run(() => fn(...args)); });  
            }, delay, count, invokeApply, ...pass);  
          })  
        })  
      )
      $provide.decorator($INTERVAL, [  
        $DELEGATE,  
        (intervalDelegate: IIntervalService) => {  
          // Wrap the $interval service so that setInterval is called outside NgZone,
          // but
          let wrappedInterval = (fn: Function, delay, number, count?: number, invokeApply?: boolean, ...) => {  
            return
            this.ngZone.runOutsideAngular(() => {
              intervalDelegate((...args: any[]) => {  
                // Run callback in the next VM turn - $interval calls
                // $rootScope.$apply, and running
                // the callback in NgZone will
                // cause a 'Sdigest already in progress' error if it's in the
                // same VM turn.
                setTimeout(() => { this.ngZone.run(() => fn(...args)); });  
              }, delay, count, invokeApply, ...pass);  
            })  
          })  
        }
      ])
    }  
  }
}

$INJECTOR, (Injectorservice) => {  
  this.$injector = $injector;
  setTempInjectorRef($injector);
  this.injector.get($INJECTOR);
  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(() => {
      if ($rootScope.$$phase) {
        if (isDevMode()) {
          console.warn('A digest was triggered while one
          already was in progress. This may mean that something is triggering digests
          outside the Angular zone.');
          return $rootScope.$evalAsync();
        }
        return $rootScope.$digest();
      }
    });
    $rootScope.$on('$destroy', () => { subscription.unsubscribe(); });
  }, 0);
}

function ngUpgradeModule = angularModule(UPGRADE_MODULE_NAME,
  [INIT_MODULE_NAME].concat(modules));

  // Make sure resumeBootstrap() only exists if the current
  bootstrap is deferred
  const windowAngular = (window as any)['angular'];
  windowAngular = 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
    }  
  }
}

export * from './index';
export {angular1Providers as
  ɵangular_packages_upgrade_static_static_e,compileFactory as
  ɵcompileFactory}"}
MAAQ,CAAC,KAIA,CAAC,KAIA,KAIA,EAEE,CAAC,CAAC,GAAw;wBACnC-UAAC,CAAM,IAAI,OAAK,MAA
M,CAAC,KAIA,CAAC,KAIA,EAEE,CAAC,EAEE,CAAC,EAEE,CAAC,GAAx;xBACnE,CAAC,CAAC
;:ACj;IBACm;gBACl,MAAM,IAAI,KAIA,CAAC,CAAC,CAAC,CAAC,CAAC,CAAC,CAAC,CAAC,CAAC,CAAC,
CAAC,CAAC,CAAC,CAAC,CAAC,CAAC,CAAC,CAAC,CAAC,CAAC,CAAC,CAAC,CAAC,CAAC,CAAC,CAAC,CAAC,
D,EAEE,KAAK,EAEE,KAAK,EAEE,WAAW,GAAK,IAAI,GAEE;qCACC,CACC,CAAC,CAAC;iCACJ,CAAC;gCAE L,eAAuB,CAAC,QAQQ,CAAC,GAAG,gBAAgB,CAAC,MAAM,CAAC;gCAC7D,OAAC,eAAe,CAAC;6BACxB zyBACF,CAAC,qBACJ;iBACF;aACF,CAAC;iBAED,GAAG,CAAC,GAAG,SAAS;gBACT,UAAC,SAA2 B0BAC1B,KAAL,CAAC,SAAS,GAAG,SAAS,CAAC;:oBAG3B,kBAAKB,CAAC,SAAS,CAAC,CAAC;oBAC9B, KAAL,CAAC,QAQQ,CAAC,GAAG,CAAC,SAAS,CAAC,CAAC;:oBAG7BU,OAAC,CAACI,SAAS,CAAC,CAAC I,AAM,CAAC,aAAa,CAAC,YAAY,CAAC,EAEE,KAAI,CAAC,QAQQ,CAAC,CAAC;:;oBA33E,UAAC,CAAC W,BCT,IAAM,UAAG,GAAG,SAAS,GAAG,CAAC,YAAY,CAAC,CAAC;wBACI,CAAM,IAAM,YAAY,GA AG,KAAL,CAAC,MAAM,CAAC,gBAAgB,CAAC,SAAS,CAAC;4BAC1D,IAAI,UAAG,CAAC,OAAS,EAEE;gC ABeB,IAAI,CAAC,EAAE;oCACCf,OAAC,CAAC,IAAI,CACR,wIAAWI,CAAC,CAAC;iCACC/tgCAGED,OA A0,UAAC,CAAC,EAEE,CAAC,GAAG,SAAS,B6CAChC;4BAED,OAAC,UAAC,OAAC,EAEE,CAAC;yBAC7 B,CAAC,CAAC;wBACI,UAAG,CAAC,GAAG,CAAC,UAAC,EAEE,AAQ,YAAY,CAAC,WAAC,EAEE,CAAC C,EAEE,CAAC,CAAC,qBACeE,EAEE,CAAC,CAAC,CAAC;iBACD,aACF,CAAC,CAAC;YAXE,IAAM,aAAa, GAAGN,OAAa,CAAC,mBAAmB,EAEE,CAAC,gBAAgB,CAAC,MAAM,CAAC,MAAM,OAAC,CAAC,CAAC,C AAC;...YAG7F,IAAM,aAAa,GAAL,MAAc,CAAC,SAAS,CAAC,CAAC;YCJgD,aAAa,CAAC,eAAe,GAAG,SAAS .CAAC;...YAG1C,IAAI,CAAC,MAAM,CAAC,GAAG,CAAC,caAAQ,SAAS,CAAC,SAAS,CAAC,EAEE,CAAC, IAAM,CAAC,EAEE,MAAM,CAAC,CAAC,EAEE,CAAC,CAAC;...YAG7E,IAAI,aAAa,CAAC,eAAe,EA E;gBACJ,CAAM,yBAAuB,GAAC,aAAa,CAAC,eAAe,CAAC;gBACIE,IAAM,QAAM,GAAG,IAAI,CAAC,MAA M,CAAC;gBAC3B,aAAa,CAAC,eAAe,GAAG,oBAAAa;iBAI/B;oBACIH,IAAI,IAALGAAG,SAAS,CAACoBCr B,aAAa,CAAC,eAAe,GAAG,yBAAuB,CAAC;obBACxD,OAAC,QAAM,CAAC,GAAG,CAAC,cAMM,OAAC,aAA Aa,CAAC,eAAe,CAAC,KAAC,KAAC,KAAL,EAEE,IAAI,CAAC,GAAC,CAAC,CAAC;IBAC1E,CAACACH;S ACF;QAqPu,aAAa,YADzBE,AAQQ,CAAC,EAAC,EAAC,EAAC,CAAC;IBAAI,B,CAAC,EAAC,CAAC,6CWA3B lB,aAAQ:gBAAEM,WAAM;WAZd,AAAa,CAQJzB;QAAD,oBAAC;KAzJD:;ICjJA;;;;;;:AAQA,IASA,iFAAaF::ICj BjF;;;;;:OAMG::ICNH::OEAG;............"]

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.

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```javascript
function __awaiter(thisArg, _arguments, P, generator) {
    return new (P || (P = Promise))(function (resolve, reject) {
        function step(result) {
            result.done ? resolve(result.value) : new P(function (resolve) { resolve(result.value); }).then(fulfilled, rejected)
        }
        while (i < n - 1) {
            if (i < n) {
                o = t[i++].value;
            } else if (i === n) {
                o = t[i++].value;
            }
            if (i < n) {
                if (t[i].kind !== 'op') {
                    if (!t[i].ops.length) {
                        if (t[i].kind === 'yield') {
                            r = t[i].ops.length;
                            if (r) {
                                f = t[i];
                            } else {
                                f = t[i++];
                            }
                            if (f) {
                                if (f.kind === 'throw') {
                                    r = 1;
                                } else if (f.kind === 'return') {
                                    if (f.value) {
                                        r = 1;
                                    } else {
                                        r = 0;
                                    }
                                } else if (f.kind === 'normal') {
                                    if (f.ops.length > 0) {
                                        r = 1;
                                    } else {
                                        r = 0;
                                    }
                                } else if (f.kind === 'await') {
                                    if (f.value) {
                                        r = 1;
                                    } else {
                                        r = 0;
                                    }
                                }
                            } else {
                                if (f.kind === 'normal') {
                                    if (f.ops.length > 0) {
                                        r = 1;
                                    } else {
                                        r = 0;
                                    }
                                } else if (f.kind === 'await') {
                                    if (f.value) {
                                        r = 1;
                                    } else {
                                        r = 0;
                                    }
                                } else if (f.kind === 'return') {
                                    if (f.value) {
                                        r = 1;
                                    } else {
                                        r = 0;
                                    }
                                } else if (f.kind === 'throw') {
                                    r = 1;
                                }
                            }
                        } else {
                            if (r) {
                                f = t[i++];
                            } else {
                                f = t[i++];
                            }
                            if (f) {
                                if (f.kind === 'throw') {
                                    r = 1;
                                } else if (f.kind === 'return') {
                                    if (f.value) {
                                        r = 1;
                                    } else {
                                        r = 0;
                                    }
                                } else if (f.kind === 'normal') {
                                    if (f.ops.length > 0) {
                                        r = 1;
                                    } else {
                                        r = 0;
                                    }
                                } else if (f.kind === 'await') {
                                    if (f.value) {
                                        r = 1;
                                    } else {
                                        r = 0;
                                    }
                                }
                            } else {
                                if (f.kind === 'normal') {
                                    if (f.ops.length > 0) {
                                        r = 1;
                                    } else {
                                        r = 0;
                                    }
                                } else if (f.kind === 'await') {
                                    if (f.value) {
                                        r = 1;
                                    } else {
                                        r = 0;
                                    }
                                } else if (f.kind === 'return') {
                                    if (f.value) {
                                        r = 1;
                                    } else {
                                        r = 0;
                                    }
                                } else if (f.kind === 'throw') {
                                    r = 1;
                                }
                            }
                        }
                    }
                } else if (f) {
                    return step(f.value);
                }
            }
        }
    });
    step((generator = generator.apply(thisArg, _arguments || [])).next());
}
```
const noNgElement: typeof angular.element = (() => noNg()) as any;

let angular: {
  bootstrap: (e: Element, modules: (string | IInjectable)[], config?: IAngularBootstrapConfig) =>
    InjectorService.
  element: (e: string | Element | Document | IAugmentedJQuery): IAugmentedJQuery;
  cleanData: (nodes: Node[] | NodeList) => void;
  inject: (modules: Array<Injectable>, strictDi?: boolean) => InjectorService;
  version: {major: number},
  resumeBootstrap: () => void,
  getTestability: (e: Element) => ITestabilityService;
} = {
  bootstrap: noNg,
  element: noNgElement,
  getTestability: noNg,
};

/**
 * @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 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);

export const $INJECTOR = '$injector';
export const $INTERVAL = '$interval';
export const $TEMPLATE_CACHE = '$templateCache';

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 $TEMPLATECACHE = '$templateCache';

wire up the Angular and AngularJS injectors without the need to actually bootstrap a hybrid application.

This makes it simpler and faster to unit test services. Use the returned class as an 'import' when configuring the `TestBed`. In the following code snippet, we are configuring the TestBed with two imports:

The `Ng2AppModule` is the Angular part of our hybrid application and the `ng1AppModule` is the AngularJS part.

Once this is done we can get hold of services via the Angular `Injector` as normal. Services that are (or have dependencies on) an upgraded AngularJS service, will be instantiated 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.

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

```typescript
/**
 * 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` to include this module in the unit test injector.
 *
 * @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;
}

```

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.

Do not use `createAngularTestingModule` in the same spec as `createAngularJSTestingModule`. Here is the example application and its unit tests that use `createAngularTestingModule` and `createAngularJSTestingModule`.

```typescript
/**
 * @license
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 *
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 */

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';

```

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.

Do not use `createAngularTestingModule` in the same spec as `createAngularJSTestingModule`. Here is the example application and its unit tests that use `createAngularTestingModule` and `createAngularJSTestingModule`.

```typescript
/**
 * 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 AngularJS injectors without the need to actually bootstrap a hybrid application.
 *
 * @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;
}

```

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.

Do not use `createAngularTestingModule` in the same spec as `createAngularJSTestingModule`. Here is the example application and its unit tests that use `createAngularTestingModule` and `createAngularJSTestingModule`.

```typescript
/**
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 */

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';

```
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\'.

The helper sets up global variables to hold the shared Angular and AngularJS injectors. Here is the example application and its unit tests that use \`createAngularTestingModule\' and \`createAngularJSTestingModule\' in the same spec as \`createAngularTestingModule\' and \`createAngularJSTestingModule\'.

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

```typescript
ng.module_('$angularJSTestingModule', []).constant(UPGRADE_APP_TYPE_KEY, UpgradeAppType.Static).factory(Injector, function
  TestBed.inject(Injector));
```

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

export {UpgradeAppType as ɵangular_packages_upgrade_static_testing_testing_c} from './lib/upgrade/common/src/util';
```
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
 */

/**
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 *
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 * 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 with
  // `$inject?: string[]`, which is not compatible with `$inject?:
  // ReadonlyArray<string>` (used in
  // latest versions).
  $inject?: string[];
}
null
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';
throw new Error('Error while ' + attemptedAction + ': Unable to find the specified downgraded module, you forgot to downgrade an Angular module or include it in the AngularJS application?
});

if (!$injector.has(injectionKey)) {
  throw new Error(
      `Error while ${attemptedAction}: Unable to find the specified downgraded module.\n` +
      'This application contains more than one downgraded Angular
module, thus you need to always specify \ndowngradedModule\ when downgrading components and injectables.\n');
}

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?
');
}

export class Deferred<R> {
  promise: Promise<R>;

  resolve !: (value?: R | PromiseLike<R>) => void;
  reject !: (error?: any) => void;

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

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

export * from './constants';

/**
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 */

import {ApplicationRef, ChangeDetectorRef, ComponentFactory, ComponentRef, EventEmitter, Injector, OnChanges, SimpleChange, SimpleChanges, StaticProvider, Testability, TestabilityRegistry, Type} from '@angular/core';

import {IAttributes, IAugmentedJQuery, ICompileService, 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>;
  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 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);
        });
      });
  }

  /**
   * 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);
  }

  /**
   * @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 {ApplicationRef, ChangeDetectorRef, ComponentFactory, ComponentRef, EventEmmitter, 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
  };
return compiledProjectableNodes;

createComponent(projectableNodes: Node[]):
    provider: providers = staticProvider.constructor;[
    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 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(attachView: boolean, propagateDigest = true): void {
    for (let i = 0; i < inputs.length; i++) {
        let expr = inputs[i].templateName;

        if (attrs.hasOwnProperty(expr)) {
            expr = attrs[expr];
        } else if (attrs.hasOwnProperty(bindAttr)) {
            expr = attrs[bindAttr];
        } else if (attrs.hasOwnProperty(bracketAttr)) {
            expr = attrs[bracketAttr];
        } else if (attrs.hasOwnProperty(bracketParenAttr)) {
            expr = attrs[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()`
    if (this.implementsOnChanges) {
        this.componentScope.$watch(() => this.inputChanges,
        this.wrapCallback(() => {
            // Invoke `ngOnChanges()
            if (this.implementsOnChanges) {
                this.componentScope.$watch(() => this.inputChanges,
                this.wrapCallback());
            }

            this.viewChangeDetector.markForCheck();
        }));

        // If not opted out of
        // propagating digests, invoke change
detector when inputs change;
        if (propagateDigest) {
            this.componentScope.$watch(() => this.inputChanges,
            this.wrapCallback());
        } else if (this.implementsOnChanges) {
            this.componentScope.$watch(() => this.inputChanges,
            this.wrapCallback());
        }

        // If not opted out of
        // propagating digests, invoke change
detector on every digest
        if (propagateDigest) {

            this.componentScope.$watch(() => this.inputChanges,
            this.wrapCallback());

            // 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.)
        }
    } else {
        let unwatch: Function = null;
        let unwatch2: Function = null;
        // If opted out of propagating digests, invoke change detection
        when inputs change
        if (!propagateDigest) {
            this.componentScope.$watch(() => this.inputChanges,
            this.wrapCallback());
        } else if (this.implementsOnChanges) {
            this.componentScope.$watch(() => this.inputChanges,
            this.wrapCallback());
        }

        // If not opted out of
        // propagating digests, invoke change detection on every digest
        if (propagateDigest) {

            this.componentScope.$watch(() => this.inputChanges,
            this.wrapCallback());

            // 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) {
                // If opted out of propagating digests, invoke change detection
                when inputs change
                if (!propagateDigest) {
                    this.componentScope.$watch(() => this.inputChanges,
                    this.wrapCallback());
                } else if (this.implementsOnChanges) {
                    this.componentScope.$watch(() => this.inputChanges,
                    this.wrapCallback());
                }
            }
        }

        // If not opted out of
        // propagating digests, invoke change detection on every digest
        if (propagateDigest) {

            this.componentScope.$watch(() => this.inputChanges,
            this.wrapCallback());

            // 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) {
                // If opted out of propagating digests, invoke change detection
                when inputs change
                if (!propagateDigest) {
                    this.componentScope.$watch(() => this.inputChanges,
                    this.wrapCallback());
                } else if (this.implementsOnChanges) {
                    this.componentScope.$watch(() => this.inputChanges,
                    this.wrapCallback());
                }
            }
        }

        // If not opted out of
        // propagating digests, invoke change detection on every digest
        if (propagateDigest) {

            this.componentScope.$watch(() => this.inputChanges,
            this.wrapCallback());

            // 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) {
                // If opted out of propagating digests, invoke change detection
                when inputs change
                if (!propagateDigest) {
                    this.componentScope.$watch(() => this.inputChanges,
                    this.wrapCallback());
                } else if (this.implementsOnChanges) {
                    this.componentScope.$watch(() => this.inputChanges,
                    this.wrapCallback());
                }
            }
        }

        // If not opted out of
        // propagating digests, invoke change detection on every digest
        if (propagateDigest) {

            this.componentScope.$watch(() => this.inputChanges,
            this.wrapCallback());

            // 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) {
                // If opted out of propagating digests, invoke change detection
                when inputs change
                if (!propagateDigest) {
                    this.componentScope.$watch(() => this.inputChanges,
                    this.wrapCallback());
                } else if (this.implementsOnChanges) {
                    this.componentScope.$watch(() => this.inputChanges,
                    this.wrapCallback());
                }
            }
        }

        // If not opted out of
        // propagating digests, invoke change detection on every digest
        if (propagateDigest) {

            this.componentScope.$watch(() => this.inputChanges,
            this.wrapCallback());

            // 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) {
                // If opted out of propagating digests, invoke change detection
                when inputs change
                if (!propagateDigest) {
                    this.componentScope.$watch(() => this.inputChanges,
                    this.wrapCallback());
                } else if (this.implementsOnChanges) {
                    this.componentScope.$watch(() => this.inputChanges,
                    this.wrapCallback());
                }
            }
        }

        // If not opted out of
        // propagating digests, invoke change detection on every digest
        if (propagateDigest) {

            this.componentScope.$watch(() => this.inputChanges,
            this.wrapCallback());

            // 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) {
                // If opted out of propagating digests, invoke change detection
                when inputs change
                if (!propagateDigest) {
                    this.componentScope.$watch(() => this.inputChanges,
                    this.wrapCallback());
                } else if (this.implementsOnChanges) {
                    this.componentScope.$watch(() => this.inputChanges,
                    this.wrapCallback());
                }
            }
        }

        // If not opted out of
        // propagating digests, invoke change detection on every digest
        if (propagateDigest) {

            this.componentScope.$watch(() => this.inputChanges,
            this.wrapCallback());

            // 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) {
                // If opted out of propagating digests, invoke change detection
                when inputs change
                if (!propagateDigest) {
                    this.componentScope.$watch(() => this.inputChanges,
                    this.wrapCallback());
                } else if (this.implementsOnChanges) {
                    this.componentScope.$watch(() => this.inputChanges,
                    this.wrapCallback());
                }
            }
        }

        // If not opted out of
        // propagating digests, invoke change detection on every digest
        if (propagateDigest) {

            this.componentScope.$watch(() => this.inputChanges,
            this.wrapCallback());

            // 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) {
                // If opted out of propagating digests, invoke change detection
                when inputs change
                if (!propagateDigest) {
                    this.componentScope.$watch(() => this.inputChanges,
                    this.wrapCallback());
                } else if (this.implementsOnChanges) {
                    this.componentScope.$watch(() => this.inputChanges,
                    this.wrapCallback());
                }
            }
        }

        // If not opted out of
        // propagating digests, invoke change detection on every digest
        if (propagateDigest) {

            this.componentScope.$watch(() => this.inputChanges,
            this.wrapCallback());

            // 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) {
                // If opted out of propagating digests, invoke change detection
                when inputs change
                if (!propagateDigest) {
                    this.componentScope.$watch(() => this.inputChanges,
                    this.wrapCallback());
                } else if (this.implementsOnChanges) {
                    this.componentScope.$watch(() => this.inputChanges,
                    this.wrapCallback());
                }
            }
        }
output.bindonAttr.substring(0, output.bindonAttr.length - 6); const bracketParenAttr =
`($[output.bracketParenAttr.substring(2, output.bracketParenAttr.length - 8)])`;
      if (attrs.hasOwnProperty(bracketParenAttr)) {
        this.subscribeToOutput(output, attrs[bracketParenAttr], true); 
        if (attrs.hasOwnProperty(output.onAttr)) {
          this.subscribeToOutput(output, attrs[output.onAttr], 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.componentFactory.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[][] = [];
      let wildcardNgContentIndex: number;

      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);
          } else if (matchesSelector(element, selector)) {
            ngContentIndices.push(i);
          }
        }
      }
      ngContentIndices.sort();

      if (wildcardNgContentIndex !== null) {
        return ngContentIndices; number[] = [];
        for (let i = 0; i < ngContentSelectors.length; i++) {
          if (selector === '*') {
            wildcardNgContentIndex = i;
          } else {
            ngContentIndices.push(i);
          }
        }
      }
      return ngContentIndices.push(i);
    }

    Node.ELEMENT_NODE ? _matches.call(el, selector) : false;\n  }";**\n  * @license
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  * Use of this source code is governed by an MIT-style license that can be found in the LICENSE file at
  * https://angular.io/license
  */

  import {isFunction} from './util';

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

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

  /**
   * 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>();
      return aggrPromise;
    }
  }
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(resolve, p);
  }
});

return aggrPromise;

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);
  }
}

return aggrPromise;

// 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);
  }
}

return aggrPromise;

// 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;

// inside the Angular zone (except if explicitly escaped, in which case we shouldn't)
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
  // - 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.
  // 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 finalParentInjector = parentInjector || moduleInjector !;
  const finalModuleInjector = moduleInjector || parentInjector !;

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

    // Force the callback to run in the Angular zone.
    wrappedCallback(componentFactory, angularZone, parentInjector, finalParentInjector);
  }

  const doDowngrades = ngModel.ngDowngrades
    .filter((d: IDowngrade) => d.moduleName === info.name)
    .map((d: IDowngrade) => doDowngrade(d.injector, moduleInjector));

  async function innerDoDowngrades() {
    // If any of the downgrades fail, we don't want to do the
    // remaining ones.
    for (let i = 0; i < doDowngrades.length; i++) {
      if (doDowngrades[i] === null) {
        ngModel.ngDowngrades = ngModel.ngDowngrades.filter((d: IDowngrade) => d.moduleName !== info.name);
        return;
      }
    }

    async function innerDoDowngrade(d: IDowngrade) {
      const doDowngradePromise = doDowngrade(d.injector, moduleInjector);
      return doDowngradePromise !;
    }

    return Promise.all(doDowngrades.map(innerDoDowngrade));
  }

  ngZone.run(innerDoDowngrades);

  ngModel.ngDowngrades = ngModel.ngDowngrades.filter((d: IDowngrade) => d.moduleName !== info.name);

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

const injectorPromise = new ParentInjectorPromise(element);

const facade = new

DowngradeComponentAdapter(element, attrs, scope, ngModel, injector, Sinjector, Scompile, $parse,
componentFactory, wrapCallback);

const projectableNodes = facade.compileContent();

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 $\text{an}$ // digest and initial input values will not be detected.$\text{scope.$evalAsync()}$ => {};
}

}

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}.

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

/**
 * @description
 *
 * A helper function to
 * allow an Angular service to be accessible from AngularJS
 * service.$\text{provided in an `NgModule` that will be part of the upgrade application. For example, let's assume we have$\text{service}$
 * defined $\text{HeroesService}$
 *
 * $\text{@example upgrade/static/ts/full/module.ts region="ng2-heroes-service"}$
 *
 * and that we have included this in our upgrade app $\text{NgModule}$
 * $\text{on an AngularJS module.$\text{service on an AngularJS module.}$
 *
 * $\text{@example upgrade/static/ts/full/module.ts region="\text{ng2-heroes-service}"}$
 *
 * Inside an AngularJS component's controller we can get hold of the
 * services via the name we gave when upgrading.$\text{service}$
 * $\text{names are not used anywhere _outside_ the part of the app where it is$\text{guaranteed that their module has been instantiated.$\text{use a downgrade service in a$\text{used for instantiating the


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injectable.<br />

```typescript
injectable.<br />

```
isFunction} from ' ../.../src/common/src/util';

import { angular1Providers, setTempInjectorRef } from ' ./util';

import {angular1Providers, setTempInjectorRef } from ' ./util';

ngAdapterInjector from './src/common/src/util';

import {angular1Providers, setTempInjectorRef } from

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
*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 [ @link PlatformRef#bootstrapModuleFactory bootstrapModuleFactory]().

- `Function`: If you pass a function, it is expected to return a module
  name. For more details on how to use

  `downgradeModule()` see [ Upgrading for Performance](guide/upgrade-performance).

Apart from `UpgradeModule`, you can use the rest of the `upgrade/static` helpers as usual to
build a hybrid application. Note that the Angular pieces (e.g. downgraded services) will not be
available until the downgraded module has been bootstrapped, i.e. by instantiating a
downgraded module.

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.

This will inevitably result in more change detection runs than necessary.

This means that applications using `UpgradeModule` will run change
detection more frequently in order to ensure that both frameworks are properly notified about possible
changes.

This is detected in the AngularJS application.

You can manually trigger a change detection run in AngularJS using

You can manually trigger a change detection run in Angular using

You can manually trigger a change detection run in Angular using

When downgrading multiple modules,

It is possible to downgrade multiple modules and include them in an AngularJS application.

If a downgraded component is associated with a downgraded component/injectable needs to be
eventually associated with it.

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() ]
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

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:

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:

### upgrade/static/ts/lite-multi-shared/module.ts

region="shared-root-module">`

or

*   `@link PlatformRef#bootstrapmodulefactory `bootstrapModuleFactory()` to bootstrap the
*

*   `@link Injectable#providedIn `providedIn`).
*   As a consequence, a new instance will be created for every injectable provided in `"root"` (via
*   `@link Injectable#providedIn `providedIn`).
*   If this is not your intention, you can have a shared module (that will act as act as the `"root"` module) and create all downgraded modules using that module's injector:

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### upgrade/static/ts/lite-multi-shared/module.ts

region="shared-root-module">`

or

*   `@link PlatformRef#bootstrapmodulefactory `bootstrapModuleFactory()` to bootstrap the
*
&amp;!directive.link) notSupported(name, 'compile');
if (directive.replace) notSupported(name, 'replace');
if (directive.terminal) notSupported(name, 'terminal');
return directive;
}

static getTemplate(
InjectorService, directive: IDirective, fetchRemoteTemplate = false,
$element?:
IAugmentedJQuery): string|Promise&lt;string&gt; { 
if (directive.template !== undefined) {
  return getOrCall&lt;string&gt;(directive.template, $element); 
} else if (directive templateUrl) {
  const $templateCache = InjectorService.injector.$templateCache;
  const url = getOrCall&lt;string&gt;(directive templateUrl, $element); 
  if (template !== undefined) {
    return $templateCache.get(url); 
  } else if (!$!fetchRemoteTemplate) {
    throw new Error('loading directive templates asynchronously is not supported');
  } 
  return new Promise((resolve, reject) =&gt; {
    const $httpBackend = InjectorService.injector.$httpBackend;
    $httpBackend('GET', url, null, (status: number, response: string) =&gt; {
      if (status &lt;= 200) {
        resolve($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, $element:
  };
  const controller = this.$controller(controllerType, locals, null,
  this.directive.controllerAs); 

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

  return controller;
}

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

  return this.compileHtml(template);
}

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

prepareTransclusion(): ILinkFn|undefined {
  const transclude = this.directive.transclude;
  const contentChildNodes = this.extractChildNodes();

  let $template = contentChildNodes;

  if (transclude) {
    const slots = Object.create(null);
    const slotMap = Object.create(null);
    const filledSlots = Object.create(null);

    // Parse the element selectors.
    Object.keys(transclude).forEach(slotName =&gt; {
      let selector = transclude[slotName];
      const optional = selector.charAt(0) === '?';
      selector = optional ? selector.substring(1) : selector;

      slotMap[selector] = slotName;
      slots[slotName] = null;  // null: Defined but not yet filled.
    });

    let Stemplate = contentChildNodes;
    if (transclude) {
      const slots = Object.create(null);
      const stemplate = Object.create(null);

      if (typeof transclude === 'object') {
        const slotMap = Object.create(null);
        const filledSlots = Object.create(null);

        // Parse the element selectors.
        Object.keys(transclude).forEach(slotName =&gt; {
          const selector = optional ? selector.charAt(0) === '?' : selector;
          selector = optional ? selector.substring(1) : selector;
          slotMap[slotName] = slotName;
          slots[slotName] = null;  // null: Defined but not yet filled.
        });
      }

      Stemplate = contentChildNodes;
      for (const node of this.element) {
        if (isSlotName) {
          const slotName = slotMap[directiveNormalize(node.nodeName.toLowerCase())];
          if (slotName) {
            filledSlots[slotName] = true;
            slots[slotName] = slots[slotName] || [];
            slots[slotName].push(node);
          } else {
            throw new Error('Required transclusion slot "${slotName}" on directive: "${this.name}"');
          }
        }
      }
    }

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

    // Check for required slots that were not filled.
    Object.keys(filledSlots).forEach(slotName =&gt; {
      if (!filledSlots[slotName]) {
        throw new Error('Required transclusion slot "${slotName}" on directive: "${this.name}"');
      }
    });
  }

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

attachChildrenFn.$$slots = slots;

// 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 a 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 v1.6+

// AngularJS v1.6+ Stellmate.forEach(node => {
// if (node.nodeType === Node.TEXT_NODE && !node.nodeValue) {
//   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;
}

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;
}

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

    if (name) {
      const inheritType = match[1] || match[3];

      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}'.`);
      } else {
        return value;
      }
    } else {
      throw new Error(`Unrecognized 'require' syntax on upgraded directive '${this.name}':

  \$[require]`);
    }
  }

  return null;
}

 NotFound(name: string, feature: string) {
  throw new Error(`Upgraded directive '${name}' contains unsupported feature: '${feature}'`);
}

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

import {DoCheck, ElementRef, EventEmitter, OnChanges, OnDestroy, OnInit, SimpleChanges, ɵlooseIdentical as looseIdentical} from '@angular/core';
import {IAugmentedJQuery, IDirective, IDirectivePrePost, IInjectorService, ILinkFn, IScope, ITranscludeFunction} from './src/common/src/angular1';
import {$SCOPE} from .../..//src/common/src/angular1
import {IBindingDestination, IControllerInstance, UpgradeHelper} from './upgrade_helper';
import {isFunction} from './util';

const NOT_SUPPORTED: any = 'NOT_SUPPORTED';
const INITIAL_VALUE = {
  __UNINITIALIZED__: true
};

class Bindings {
  twoWayBoundProperties: string[] = [];
  twoWayBoundLastValues: any[] = [];
  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 class should be used as a base class for creating Angular directives
 * that wrap AngularJS components that need to be upgraded.
 *
 * @usageNotes
 * ### Examples
 *
 * Let's assume that you have an AngularJS component called `ng1Hero` that needs
 * to be made available inside Angular templates.
 *
 * We must create a `Directive` that will make this AngularJS component
 * available inside Angular templates.
 *
 * @publicApi
 */

export class UpgradeComponent implements OnInit, OnChanges, DoCheck, OnDestroy {
  private helper: UpgradeHelper;
  private $injector: IInjectorService;
  private element: Element;
  private $element: IAugmentedJQuery;
  private $componentScope: IScope;
  private controllerInstance !: IControllerInstance;
  private bindingDestination !: IBindingDestination;
  private pendingChanges !: SimpleChanges | null;
  private unregisterDoCheckWatcher !: Function;

  /**
   * Create a new `UpgradeComponent` instance. You should not normally need to do this.
   * Instead you
   * * The `name` parameter
   * * The `elementRef` and `injector` parameters should be
   *   * the `ElementRef` and
   * * `@link Directive` decorator.
   * @example upgrade/static/ts/full/module.ts region="ng1-hero-wrapper"
   * Construct a new `UpgradeComponent` instance. You should not normally need to do this.
   * Instead you
   * should derive a new class from this one and call the super constructor
   * from the base class.
   */
  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);
    this.$componentScope = $parentScope.$new(!!this.directive.scope);
    this.initializeOutputs();
  }

  ngOnInit() {
    // Collect contents, insert and compile template
    const attachChildNodes: ILinkFn|undefined = this.helper_prepareTransclusion();
    const linkFn = this.helper_compileTemplate();

    // Instantiate controller
    const controllerType = this.directive.controller;
    const bindToController = this.directive.bindToController;
    if (controllerType) {
      this.controllerInstance = this.helper_buildController(controllerType, this.$componentScope);
    } else if (bindToController) {
      throw new Error(`Upgraded directive '${this.directive.name}' specifies 'bindToController' but no controller.`);
    } // Set up outputs
    this.bindOutputs();
  }
}

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this.helper.resolveAndBindRequiredControllers(this.controllerInstance);

    // Hook: $onChanges
    if (this.pendingChanges) {
      const changes = 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)) {
      const callDoCheck = () => this.controllerInstance.$doCheck();
      this.unregisterDoCheckWatcher = this.$componentScope.$parent.$watch(callDoCheck);
      callDoCheck();
    }

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

    ngOnChanges(changes: SimpleChanges) {
      if (!this.bindingDestination) {
        this.pendingChanges = changes;
      } else {
        this.forwardChanges(changes);
      }
    }

    ngDoCheck() {
      const twoWayBoundProperties = this.bindings.twoWayBoundProperties;
      const twoWayBoundLastValues = this.bindings.twoWayBoundLastValues;
      const propertyToOutputMap = this.bindings.propertyToOutputMap;
      const eventEmitter: EventEmitter<any> = (this as any)[propName];
      eventEmitter.emit(newValue);
      twoWayBoundLastValues[idx] = newValue;
    }

    ngOnDestroy() {
      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 '<':
              break;
            case '=':
              bindings.twoWayBoundProperties.push(propName);
              bindings.propertyToOutputMap[propName] = propName;
              break;
            case '&':
              bindings.expressionBoundProperties.push(propName);
              bindings.propertyToOutputMap[propName] = propName;
              break;
            default:
              throw new Error(`Unexpected mapping '${bindingType}' in '${JSON.stringify(context)}'`);
          }
        });
      }
      return bindings;
    }

    private initializeOutputs() {
      this.bindings.expressionBoundProperties.forEach(propName => {
        const outputName = this.bindings.propertyToOutputMap[propName];
        (this as any)[outputName] = new EventEmitter();
      });
    }

    private bindOutputs() {
      this.bindings.expressionBoundProperties.forEach(propName => {
        const outputName = this.bindings.propertyToOutputMap[propName];
        const emitter = (this as any)[outputName];
        this.bindingDestination[propName] = (value: any) => emitter.emit(value);
      });
    }

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

    if (isFunction(this.bindingDestination.$onChanges)) {
      
      this.bindingDestination.$onChanges(changes); 
    }
  
}
}

/**
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 *
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 * 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 {LazyModuleRef, UpgradeAppType, controllerKey} from '../../src/common/src/util';
import {UpgradeModule, setTempInjectorRef} from './angular1_providers';
import {NgAdapterInjector} from './util';

/**
 * @description
 *
 * An `NgModule`, which you import to provide AngularJS core services,
 * and has an instance method used to bootstrap the hybrid upgrade application.
 *
 * *Part of the [upgrade/static](api?query=upgrade/static) library for hybrid upgrade apps that support AOT compilation*
 * 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 `{@link UpgradeModule#upgrading-an-angular-1-service Upgrading an AngularJS service}` below.
 * 4. Creation of an AngularJS service that wraps and exposes an Angular injectable so that it can be injected into an AngularJS context. See `downgradeInjectable`.
 * 5. Bootstrapping of a hybrid Angular application which contains both of the frameworks in a single application.
 *    1. This is achieved by defining an Angular directive, which bootstraps the AngularJS component at its location in the DOM. See `UpgradeComponent`.
 *    2. This is achieved by defining an AngularJS directive, which bootstraps the Angular component at its location in the DOM. See `downgradeComponent`.
 *    3. Whenever an Angular component is instantiated, the host element is owned by the framework doing the instantiation. The other framework then instantiates and owns the framework doing the instantiation and owns the view for that component.
 *    4. This implies that the component bindings will always follow the semantics of the instantiation framework.
 *    5. 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.
 *    6. However 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.
 * 8. Angular is bootstrapped first; AngularJS is bootstrapped second. AngularJS always owns the root component of the application.
 * 9. The new application is running in an Angular zone, and therefore it no longer needs calls to $apply().
 */

/**
 * @description
 *
 * An `NgModule`, which you import to provide AngularJS core services,
 * and has an instance method used to bootstrap the hybrid upgrade application.
 */

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**Upgrading an AngularJS Service**

There is no specific API for upgrading an AngularJS service. Instead, you should follow this recipe:

Let's say you have an AngularJS service:

```typescript
@Injectable()
export class MyAngularJSService {
  constructor(private $injector: any) {}

  // Example methods...
}
```

Then you should define an Angular provider to be included in your `NgModule`'s `providers` property:

```typescript
@NgModule({
  providers: [
    { provide: MyAngularJSService, useExisting: $injector.get(MyAngularJSService) }
  ]
})
export class UpgradeModule {

  bootstrap(element: Element, modules: NgModule[]): Promise<void> {
    // Upgrade the service...
  }
}
```

Finally, kick off the whole process by bootstrapping your top level Angular `NgModule` and use it to bootstrap the top level AngularJS service:

```typescript
import { NgModule } from '@angular/core';
import { BrowserModule } from '@angular/platform-browser';
import { UpgradeModule } from '@angular/cdk/upgrade';
import { AppComponent } from './app.component';

@NgModule({
  declarations: [AppComponent],
  imports: [BrowserModule, UpgradeModule],
  bootstrap: [AppComponent]
})
export class AppModule {

  static bootstrap(): Promise<void> {
    return browserUpgrade('https://example.com', [])
      .then((result) => { /* Handle the result */ });
  }
}
```

### Upgrading an AngularJS Service

To upgrade an AngularJS service, you first need to create a new Angular service provider:

```typescript
@NgModule({
  providers: [
    { provide: MyAngularJSService, useExisting: $injector.get(MyAngularJSService) }
  ]
})
export class UpgradeModule {

  static bootstrap(): Promise<void> {
    // Upgrade the service...
  }
}
```

Then you can use the upgraded `MyAngularJSService` in your Angular component or service:

```typescript
import { MyAngularJSService } from './upgrade.module';

@Injectable()
export class MyAngularJSComponent {
  constructor(private service: MyAngularJSService) {}

  // Use the service...
}

@NgModule({
  declarations: [MyAngularJSComponent],
  imports: [UpgradeModule],
  exports: [MyAngularJSComponent]
})
export class MyAngularJSModule {

  static bootstrap(): Promise<void> {
    // Upgrade the component...
  }
}
```

The key is to create a new Angular service provider that wraps the original AngularJS service and makes sure it's initialized within the Angular context.

```typescript
@Injectable()
export class MyAngularJSServiceWrapper {
  constructor(private originalService: MyAngularJSService) {}

  // Use the original service...
}
```

This way, you can seamlessly integrate your Angular and AngularJS components, ensuring compatibility and stability.

### Upgrading an AngularJS Application

Upgrading an AngularJS application involves creating a new Angular application and binding it to the existing AngularJS DOM. This is typically done in a separate component or service that is initialized before the AngualrJS application.

```typescript
import { Component } from '@angular/core';
import { UpgradeModule } from '@angular/cdk/upgrade';
import { MyAngularJSModule } from './my-angularjs.module';

@Component({
  selector: 'my-app',
  template: '<div>AngularJS Application</div>',
  providers: []
})
export class AppComponent {

  constructor(private upgrade: UpgradeModule) {
    upgrade.bootstrap();
  }
}
```

This approach ensures that the AngularJS application is properly initialized and ready to use within the Angular context.
count?: number, invokeApply?: boolean, ...pass: any[] => { 
  return 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)); });
    });
  });

  (wrappedInterval as any)['cancel'] = intervalDelegate.cancel;
}

wiredUp = (wrappedInterval as any)

controllerKey(INJECTOR_KEY), this.injector); this.$injector = $injector;

// Initialize the ng1 $injector provider

// 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 bootup

// stabilizing

// patch resumeBootstrap()

// Bootstrap the AngularJS application inside our zone

// 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));
  };
}
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AAc;IACrC,OAAO,OAAO,SAAS,CAAC,UAAU,KAAK,UAUU,QAQ7C,OAQO,SAAS,CAAC,gBAAgB,KAAK,
UAUU,CAAC,CAcD;;;;;;AAMD,SAAgB,aAAa,CAAC,OA2B,EAAS,SAac;IACvE,IAAI,OAAO,IAAI,eAAe,C
AAC,SAAS,CAAC,EAAE,QACzC,OAQO,CAAC,OAQO,GAAG,QAAQ,SAAS,CAAC,UAUU,CAAC,OAQO,CAAC
UAAU,CAAC,CAAC,EAEE,CAAC,QACIE,SAAS,CAAC,gBAAgB,CAAC,OAQO,CAAC,aAAa,CAAC,IAAI
I,CAAC,OAQO,CAAC,CAAC,QAChE,IAAI,OAAO,SAAS,CAAC,iBAaIB,KAAK,UAUU,EAEE,YAAcD,
SAAS,CAAC,iBAaIB,CAAC,OAQO,CAAC,IAAI,CAAC,OAQO,CAAC,CAAC,CAAC,SAQHCE,KAAC;
KACF;CACF;;;;;;AAKD,SAAgB,AAAY,CAAC,IAAS,EAEE,IAAI,IAAI,KAAK,IAAI,KAAK,IAAI,
,KAAK,IAAI,IAAI,IAAI,KAAK,IAAI,CAAC,CAAC,CAAC;AAMD,SAAgB,aAAa,CAAC,IAAI,IAAI
,EAAE;QACzC,OAQO,CAAC,OAQO,GAAG,QAAQ,SAAS,CAAC,UAAU,CAAC,CAAC,CAAC;QACxE,OAQO,
CAAC,OAQO,GAAG,QAAQ,SAAS,CAAC,KAAK,CAAC,CAAC,CAAC;QAChE,IAAI,OAQO,SAAS,CAAC,
KAAK,CAAC,CAAC,CAAC;QAChE;KACF;CACF;;;;AAKD,SAAgB,AAAY,CAAC,IAAS,EAEE,IAAI
,kBAAk;BAAgB,EAAE,IAAI,CAAC,CAAC,CAAC,QAChE;KACF,IAAI,CAAC,CAAC,CAAC;QAChE;
KACF;CACF;;;;AAKD,SAAgB,AAAY,CAAC,IAAS,EAEE,IAAI,KAAK,IAAI,KAAK,IAAI,
"AAc;IACrC,OAAO,OAAO,SAAS,CAAC,UAAU,KAAK,UAUU,QAQ7C,OAQO,SAAS,CAAC,gBAAgB,KAAK,
UAUU,CAAC,CAcD;;;;;;AAMD,SAAgB,aAAa,CAAC,OA2B,EAAS,SAac;IACvE,IAAI,OAAO,IAAI,eAAe,C
AAC,SAAS,CAAC,EAAE,QACzC,OAQO,CAAC,OAQO,GAAG,QAAQ,SAAS,CAAC,UAUU,CAAC,OAQO,CAAC
UAAU,CAAC,CAAC,EAEE,CAAC,QACIE,SAAS,CAAC,gBAAgB,CAAC,OAQO,CAAC,aAAa,CAAC,IAAI
I,CAAC,OAQO,CAAC,CAAC,QAChE,IAAI,OAAO,SAAS,CAAC,iBAaIB,KAAK,UAUU,EAEE,YAAcD,
SAAS,CAAC,iBAaIB,CAAC,OAQO,CAAC,IAAI,CAAC,OAQO,CAAC,CAAC,CAAC;AAMD,SAAgB,A
The source code is governed by an MIT-style license that can be found in the LICENSE file at https://angular.io/license.
function rejected(value) { try { step(generator["throw"](value)); } catch (e) { reject(e); } } \n
function step(result) { result.done ? resolve(result.value) : new P(function(resolve) { resolve(result.value); }).then(fulfilled, rejected); } \n
function step((generator = generator.apply(thisArg, arguments || [])).next()) \n
export function __generator(thisArg, body) { \n  \n  var _ = { label: 0, sent: function() { if (t[0] & 1) throw t[1]; return t[1]; }, \n   trys: [], ops: [] }, i, y, t, g; \n  \n  return { next: verb(0), "throw": verb(1), "return": verb(2) }, typeof Symbol === "function" && (g = Symbol.iterator) ? function() { return this; }, g \n
  function verb(n) { return this; }, i; \n  \n  switch (op[0]) { \n    case 0: case 1: t = op; break; \n    case 4: \n      switch (op[0]) { \n        case 3: case 4: \n          switch (op[0]) { \n            case 1: return step((generator = generator.apply(thisArg, arguments || [])).next()); \n            case 0: step((generator = generator.apply(thisArg, arguments || [])).next()); return n; \n            case 1: step((generator = generator.apply(thisArg, arguments || [])).next()); return t = op; \n          } \n        break; \n      } \n    case 3: \n      switch (op[0]) { \n        case 1: return step((generator = generator.apply(thisArg, arguments || [])).next()); \n        case 0: step((generator = generator.apply(thisArg, arguments || [])).next()); return n; \n        case 1: step((generator = generator.apply(thisArg, arguments || [])).next()); return t = op; \n      } \n    break; \n  } \n
  if (t && t[2] === p) throw (p = t[1] = p[d] = v).value; \n
  return { value: o && o[i++], done: !o } \n
}; \n
function __spread() { \n  \n  for (var ar = [], i = 0; i < arguments.length; i++) ar = ar.concat(__read(arguments[i])); \n  return ar; \n}

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null if (Object.hasOwnProperty.call(mod, k)) result[k] = mod[k];

result.default = mod; return result;

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];
    result.default = mod;
    return result;
}

export function __importDefault(mod) {
    return (mod && mod.__esModule) ? mod : { default: mod }
}

/**
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 *
 * 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
 */

export type Ng1Token = string;

export type Ng1Expression = string | Function;

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

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

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

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

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

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

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

export interface IRootScopeService {
    $new(isolate?: boolean): IScope;
    $id: string;
    $parent: IScope;
    $root: IScope;

    $watch(exp: Ng1Expression, fn?: (a1?: any, a2?: any) => void): Function;
    $on(event: string, fn?: (event?: any, ...args: any[]) => void): Function;
    $destroy(): void;
    $apply(exp?: Ng1Expression): void;
    $digest(): void;

    $evalAsync(exp: Ng1Expression, locals?: any): void;
    $on(event: string, fn?: (event?: any, ...args: any[]) => void): Function;
    $$childTail: IScope;
    $$childHead: IScope;
    $scope: IScope;
}

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;
    require?: IDirectiveRequireProperty;
    restrict?: string;
    scope?: boolean|{
        [key: string]: string;
    };
    template?: string|Function;
    templateUrl?: string|Function;
    templateNamespace?: string;
    terminal?: boolean;
    transclude?: IDirectiveTranscludeProperty;
}

export type IDirectiveRequireProperty = SingleOrListOrMap<string>|
    IDirectiveTranscludeProperty = boolean |
    'element' | {
        [key: string]: string;
    };

export interface IDirectiveCompileFn {
    (templateElement: IAugmentedJQuery, templateAttributes: IAttributes, transclude: IDirectiveTranscludeFunction): void;
}

export interface IDirectivePrePost {
    (module: IModule, pre?: IDirectiveLinkFn, post?: IDirectiveLinkFn): void;
}

export interface IDirectiveLinkFn {
}

export interface IDirectiveTranscludeProperty {
    $observe(attr: string, fn: (v: string) => void): void;
    $on(on?: (name: string, fn: () => void): void;
    inheritedData?: (name: string, value?: any) =>
}

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

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

export function validateInjectionKey($injector: IInjectorService, upgradedModuleCount: number, injectionKey: string): void {
  const upgradeAppType = getUpgradeAppType($injector);
  const downgradeModuleCount = getDowngradedModuleCount($injector);

  switch (upgradeAppType) {
    case UpgradeAppType.Dynamic:
    case UpgradeAppType.Static:
      if (downgradeModuleCount >= 2) {
        throw new Error(`Error while downgrading: more than one Angular module (via 'downgradeModule') specified. You should not specify more than one Angular module (via 'downgradeModule') when downgrading components and injectables.)`);
      }
      break;
    case UpgradeAppType.Lite:
      if ($injector.has(injectionKey)) {
        throw new Error(`Error while downgrading: unable to find the downgraded module specified. Did you forget to downgrade an Angular module or include it in the AngularJS ` + `'application?'`);
      }
      break;
    default:
      throw new Error(`Error while downgrading: not a valid '@angular/upgrade' application.`);
  }
}

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

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

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

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): boolean {
  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));
    }
  }
}
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'});
    const this.componentRef =
        this.componentFactory.create(childInjector,
          projectableNodes, this.element[0]);
    this.viewChangeDetector =
        this.componentRef.changeDetectorRef;
    this.changeDetector =
        this.componentRef.changeDetectorRef;
    this.component = this.componentRef.instance;

    // testability hook is commonly added during component 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);
      this.componentFactory.create(this.componentRef.injector.getChangeDetectorRef());
      this.componentScope.$watch(() => this.inputChangeCount, this.wrapCallback(() => {
        // Invoke `ngOnChanges()`
        if (this.implementsOnChanges) {
          (this.component as OnChanges).ngOnChanges(this.inputChanges);
        }
      }));
    }

    // 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.$compile(this.componentScope.Swatch((expr, watchFn): any) =>
      this.$compile((prop, prevValue, currValue) =>
        this.updateInput(prop, prevValue, currValue))(expr));
this.viewChangeDetector.markForCheck();

      // If opted out of propagating digests, invoke change detection when inputs change.
      if (!propagateDigest) {
        detectChanges();
      }

      // If not opted out of propagating digests, invoke change detection on every digest.
      if (propagateDigest) {
        this.componentScope.$watch(this.wrapCallback(detectChanges));
      }

      // If necessary, attach the view so that it will be dirty-checked.
      // (Allow time for the initial input values to be set and `ngOnChanges()` to be called.)
      if (manuallyAttachView || !propagateDigest) {
        let unwatch: Function|null = this.componentScope.$watch((event) => {
          if (event.next) {
            unwatch(event.next);
          }
          unwatch = null;
        });
        const appRef = this.parentInjector.get<ApplicationRef>(ApplicationRef);
        appRef.attachView(this.componentRef.hostView);
      }

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

          let unwatch: Function|null = this.componentScope.$watch(() => {
            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.
       * @param ngContentNodes - Array of DOM nodes to group.
       * @return Array of groups, each containing a list of DOM nodes.
       */
      function groupNodesBySelector(ngContentNodes: Node[], nodes: Node[]): Node[]
      {
        const projectableNodes: Node[] = [];
        let wildcardNgContentIndex: number;

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

        ngContentNodes.forEach((node) => {
          let ngContentIndex = findMatchingNgContentIndex(node, ngContentSelectors);
          if (ngContentIndex !== null) {
            ngContentNodes[i].push(node);
            return projectableNodes;
          }
        });

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

      @angular/core
      export function matchesSelector(el: any, selector: string): boolean
      {
        if (selector === '*') {
          return true;
        }
        if (selector) {
          return false;
        }
      }

      let _matches: (this: any, selector: string) => boolean;

      findMatchingNgContentIndex(element: any, ngContentSelectors: string[]): number
      {
        for (let i = 0, ii = ngContentSelectors.length; i < ii; ++i) {
          if (matchesSelector(element, ngContentSelectors[i])) {
            return i;
          }
        }
        return -1;
      }

      ngContentIndices.sort();
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#### Node.ELEMENT_NODE

```javascript
function matches(selector) {
  const elProto = <any>Element.prototype;
  if (!_matches) {
    const elProto = <any>Element.prototype;
    _matches = elProto.matches ||
            elProto.matchesSelector ||
            elProto.mozMatchesSelector ||
            elProto.msMatchesSelector ||
            elProto.oMatchesSelector ||
            elProto.webkitMatchesSelector;
  }
  return el.nodeType ===
```
will still be performed when any of the component's inputs changes.

* (Default: true)

* @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 */

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 */

  // 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];
      const moduleInjector: Injector|Thenable<Injector>|undefined = null;
      let ranAsync = false;

      if (!parentInjector || hasMultipleDowngradedModules) {
        const downgradedModule = info.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
          // be on the same tree as the `NgModule` that declares this downgraded component.
        // - `finalParentInjector` is used for all other injection purposes.

        // (Note that Angular knows to only traverse the component-tree part of that injector,
        // when looking for an injectable and then switch to the module injector).

        // There are basically three cases:
        // - If there is no parent component (thus no `parentInjector`), we bootstrap the downgraded
          // `NgModule` and use its injector as both
          // `finalModuleInjector` and `finalParentInjector`.
        // - If there is a parent component (and thus a `parentInjector`) and we are sure that it
          // belongs to the same `NgModule` as this downgraded component
          // (e.g. because there is only one downgraded module, we use that `parentInjector` as both
          // `finalModuleInjector` and `finalParentInjector`).
        // - If there is a parent component, but it may belong to a different `NgModule`, then we
          // use the `parentInjector` as `finalParentInjector` and this downgraded component
          // declaring `NgModule`’s injector as `finalModuleInjector`.

        // Note 1: If the `NgModule` is already bootstrapped, we just get its injector (we don't need
          // 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 aren't
          // treating this case if they belong to different `NgModule`'s. That doesn't really affect
          // anything, since `parentInjector` has `moduleInjector` as ancestor
          // and trying to resolve

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'ComponentFactoryResolver' from either one will return
    // the same instance.
    // If there is a
    // If this is a \"top-level\" Angular component, use the
    module injector.
    const finalParentInjector = parentInjector || moduleInjector !
    // If this is a \"top-
    // 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 \n      // belongs to.
      const componentFactoryResolver: ComponentFactoryResolver =
        moduleInjector.get(ComponentFactoryResolver);
        componentFactoryResolver.resolveComponentFactory(info.component) !
        if (componentFactory) {
          throw new Error("Expecting ComponentFactory for: "
            + getTypeName(info.component));
        } !
    }
    componentFactoryResolver = ComponentFactory<any> =
      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, $parse,
          componentFactory, wrapCallback);
          facade.createComponent(projectableNodes);
          facade.setupInputs(isNgUpgradeLite, info.propagateDigest);
          facade.setupOutputs();
          facade.registerCleanup();
          injectorPromise.resolve(facade.getInjector());
          if (ranAsync) {
            // If this is run async, it is possible
            that it is not run inside \n
            // digest and initial input values will not be detected.
            scope.$evalAsync(() => {});
          }
    };
    // 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]) =>
        doDowngradeFn(pInjector, mInjector)();
      );
      const doDowngradeFn =
        !isNgUpgradeLite ? doDowngrade : (pInjector:
          Injector, mInjector: Injector) => {
          if (!ngZone) {
            ngZone = pInjector.get(NgZone);
          }
          wrapCallback(() =>
            doDowngrade(pInjector, mInjector))();
        };
       .SyncPromise.all([finalParentInjector, finalModuleInjector])
          .then(([pInjector, mInjector]) =>
            doDowngradeFn(pInjector, mInjector)());
            const injectorPromise = new ParentInjectorPromise(element);
            injectorPromise.resolve(facade.injector());
            injectorPromise.resolve(injectorPromise());
            if (ranAsync) {
              // If this is run async, it is possible
              that it is not run inside \n
              // digest and initial input values will not be detected.
              scope.$evalAsync(() => {});
            }
            wrapCallback(() =>
              doDowngrade(pInjector, mInjector))();
            )
            return directiveFactory;
name we gave when downgrading.

When using `downgradeModule()`, downgraded injectables will not be available until the Angular module 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 Angular component from a different module.

If you have a service that you are using in a component and you downgrade the app, you will need to ensure that the service is instantiated after the component is initialized. You can do this by using the `downgradeModule()` method to downgrade the Angular module that provides the service. When using `downgradeModule()` the injectable will not be available until the Angular module that provides it has been instantiated.

The module, whose injector will be used for instantiating the injectable, can be any Angular module, it will not be available until the Angular module that provides it has been instantiated. In order to be safe, you need to ensure that the injectable is not used anywhere _outside_ the part of the app where it is guaranteed to be available.

You can use the `downgradeInjectable()` function to downgrade a service so that it can be used in an upgraded component. This function returns a factory function that can be used to register the service on an AngularJS module.

The `downgradeInjectable()` function takes two parameters:

- `token`: an `InjectionToken` that identifies a service provided from Angular.
- `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.

The function returns a factory function that can be used to register the service on an AngularJS module.

### Example

```javascript
export function downgradeInjectable(token: any, downgradedModule: string = ''): Function {
  // Implementation...
}
```

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---

```typescript
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 = $injector.get(name + 'Directive');
    if (directives.length > 1) {
      throw new Error(`Only support single directive definition for: ${name}`);
    }

    const directive = directives[0].

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

    return directive;
  }

  static getTemplate($injector: IInjectorService, directive: IDirective, fetchRemoteTemplate = false, $element?: IAugmentedJQuery): string|Promise<string> {
    if (directive.template != undefined) {
      return $element.$compile(directive.template, $element);
    } else if (directive.templateUrl) {
      const $templateCache = $injector.get($TEMPLATE_CACHE) as ITemplateCacheService;
      return $templateCache.$get(directive.templateUrl, $templateCache.$get($INJECTOR) as IInjectorService);
    } else {
      return $element.$$node; // 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`.
    }
}
```

---

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

if (fetchRemoteTemplate) {
  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}'`);
      }
    });
  });
}

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}'`);
    }
  });
});

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}'`);
    }
  });
});

$injector.get($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}'`);
  }
}));

if (fetchRemoteTemplate) {
  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}'`);
      }
    });
  });
}

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}'`);
    }
  });
});

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}'`);
    }
  });
});
interpolation as transcluded content and use the fallback\n // content instead.\n // To avoid this issue, we add a \n // [zero-width non-joiner character](https://en.wikipedia.org/wiki/Zero-width_non-joiner)\n // to empty text nodes (which can only be a result of Angular removing their initial content).\n // NOTE: Transcluded text content that starts with whitespace followed by an interpolation\n // will still fail to be detected by AngularJS v1.6+\n \n // To avoid this issue, we add \n // ![zero-width non-joiner character](https://en.wikipedia.org/wiki/Zero-width_non-joiner)\n // to empty text nodes (which can only be a result of Angular removing their initial content).\n resolveAndBindRequiredControllers(controllerInstance?: IControllerInstance) {\n  const directiveRequire = getDirectiveRequire()\n  const requiredControllers = resolveRequire(directiveRequire)\n  if (controllerInstance & this.directive.bindToController & isMap(directiveRequire)) {\n    const requiredControllersMap = requiredControllers as {[key: string]: IControllerInstance}\n    Object.keys(requiredControllersMap).forEach(key => {\n      controllerInstance[key] = requiredControllersMap[key];\n    });\n  }\n  return attachChildrenFn();\n}\n
resolveAndBindRequiredControllers(controllerInstance?: IControllerInstance) {\n  const directiveRequire = getDirectiveRequire()\n  const requiredControllers = resolveRequire(directiveRequire)\n  if (controllerInstance & this.directive.bindToController & isMap(directiveRequire)) {\n    const requiredControllersMap = requiredControllers as {[key: string]: IControllerInstance}\n    Object.keys(requiredControllersMap).forEach(key => {\n      controllerInstance[key] = requiredControllersMap[key];\n    });\n  }\n  return attachChildrenFn();\n}\n
Object.keys(requiredControllersMap).forEach(key => {\n  controllerInstance[key] = requiredControllersMap[key];\n});\n\nprivate compileHtml(html: string): ILinkFn {\n  this.element.innerHTML = html;\n  return attachChildrenFn();\n}\n
private extractChildNodes(): Node[] {\n  const childNodes: Node[] = [];\n  let childNode: Node|null;\n  while (childNode = this.element.firstChild) {\n    this.element.removeChild(childNode);\n    childNodes.push(childNode);\n  }\n  return childNodes;\n}\n
private getDirectiveRequire(): DirectiveRequireProperty {\n  const require = this.directive.require || (this.directive.controller & this.directive.name) \n    if (isMap(require)) {\n      Object.keys(require).forEach(key => {\n        const value = require[key];\n        const matches = value.match(REQUIRE_PREFIX_RE) !;\n        const name = value.substring(matches[0].length);\n        if (name) {\n          require[key] = match[0] + key;\n        }\n      });\n    }\n    return require;\n}\n
private resolveRequire(require: DirectiveRequireProperty, controllerInstance?: any): 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: {[key: string]: IControllerInstance} = {};\n    Object.keys(require).forEach(key => {\n      const value = require[key];\n      const matches = value.match(REQUIRE_PREFIX_RE) !;\n      const name = value.substring(matches[0].length);\n      if (name) {\n        require[key] = match[0] + key;\n      }\n    });\n    const requiredControllersMap = requiredControllers as {[key: string]: IControllerInstance} !;\n    const startOnParent = inheritType === '^^';\n    const elem = startOnParent ? this.$element.parent !() : this.$element;\n    const value = searchParents ? elem.inheritedData !(ctrlKey) : elem.data !(ctrlKey);\n    if (!value && !isOptional) {\n      throw new Error(`Unable to find required '${require}' in upgraded directive '${this.name}'.`);\n    }\n    return value;\n  } else {\n    throw new Error(`Unrecognized require syntax on upgraded directive '${this.name}':\n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n    \n
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.propertyOutputs, 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.');
    }

    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(inputName);
            this.inputsRename.push(inputNameRename);
            this.propertyMap[inputName] = propName;
            break;
          case '=':
            this.inputs.push(inputName);
            this.inputsRename.push(inputNameRename);
            this.propertyMap[inputName] = propName;
            this.outputs.push(outputName);
            this.outputsRename.push(outputNameRenameChange);
            this.propertyMap[outputName] = propName;
            this.checkProperties.push(propName);
            this.propertyOutputs.push(outputName);
            break;
          case '&':
            this.outputs.push(outputName);
            this.outputsRename.push(outputNameRename);
            this.propertyMap[outputName] = propName;
            break;
          default:
            let json = JSON.stringify(context);
            throw new Error(`Unexpected mapping '${bindingType}' in '${json}' in '${this.name}' directive.`);
        }
      });
    }
  }

  /**
   * Upgrade ng1 components into Angular.
   */
  static resolve(exportedComponents: {
    name: string
  }): Promise<any> {
    const promises = Object.keys(exportedComponents).map(name => {
      const exportedComponent = exportedComponents[name];
      exportedComponent.directive = UpgradeHelper.getDirective($injector, name);
      exportedComponent.extractBindings();
      return Promise.resolve(UpgradeHelper.getTemplate($injector, exportedComponent.directive, true)).then(template => exportedComponent.template = template);
    });
    return Promise.all(promises);
  }
}

class UpgradeNg1ComponentAdapter implements OnInit, OnChanges, DoCheck {
  private controllerInstance:
  IControllerInstance|null = null;
  destinationObj: IBindingDestination|null = null;
  checkLastValues: any[] = [];
  directive: IDirective;
  element: Element;
  $element: any = null;
  componentScope: IScope;
  constructor(
    private helper: UpgradeHelper, scope: IScope, private template: string, private inputs: string[], private propOuts: string[], private checkProperties: string[], private propertyMap: {
      name: string
    }): any {
    this.directive = helper.directive;
    this.element = helper.element;
    this.$element = helper.$element;
    this.componentScope = scope;$new(!this.directive.scope);
    this.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 (let i = 0; i < inputs.length; i++) {
      (this as any)[inputs[i]] = null;
    }
    for (let j = 0; j < propOuts.length; j++) {
      const emitter = (this as any)[propOuts[j]] = new EventEmitter<any>(true);
      if (this.propOuts.indexOf(propOuts[j]) === -1)
this.setComponentProperty(name, value); // 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, 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 {downgradeComponent} from '../../common/src/downgrade_component';
import {downgradeInjectable} from '../../common/src/downgrade_injectable';
import {Deferred, LazyModuleRef, UpgradeAppType, controllerKey, onError} from '../../common/src/util';

import {UpgradeNg1ComponentAdapterBuilder} from './upgrade_ng1_adapter';

let upgradeCount: number = 0;

/**
 * Use `UpgradeAdapter` to allow AngularJS and Angular to coexist in a single application.
 *
 * The `UpgradeAdapter` allows:
 * 1. creation of Angular component from AngularJS component directive
 *    (See `UpgradeAdapter#upgradeNg1Component()`)
 * 2. creation of AngularJS directive from Angular component.
 *    (See `UpgradeAdapter#downgradeNg2Component()`)
 * 3. Bootstrapping of a hybrid Angular application which contains both of the frameworks
 *    coexisting in a single application.
 *
 * @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.

1. 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 Angular 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. The new application is running in Angular zone, and therefore it no longer needs calls to `$apply()`. $apply() is used for AngularJS components and `$digest()` is used for Angular components.

9. The new application is running in Angular zone, and therefore it no longer needs calls to `$apply()`. $apply() is used for AngularJS components and `$digest()` is used for Angular components.

```javascript
const adapter = new UpgradeAdapter(forwardRef(() => MyNg2Module), myCompilerOptions);const module = angular.module('myExample', []);const module.directive('ng2Comp', module.directive('ng2Comp', () => ng2Component));
const module.directive('ng1Hello', (compilerOptions) => compilerOptions);

module.directive('ng1Hello', function() {
  return {
    scope: { title: '=' },
    template: 'ng1[Hello {{title}}](<span ng-transclude></span>)
  }
});

module.directive('ng2-comp', adapter.downgradeNg2Component(Ng2Component));
module.directive('ng1-hello', adapter.upgradeNg1Component(Ng1Hello));

module.directive('ng1-hello', function() {
  return {
    template: '<ng1-hello title="name"></ng1-hello>',
    controller: function($scope) {
      $scope.title = 'World';
    }
  }
});

module.directive('ng2-comp', ng2Component);
module.directive('ng1-comp', ng1Component);

const ng2Component = (ctor) => {
  return {
    selector: 'ng2-comp',
    inputs: ['name'],
    template: 'ng2[<ng1-hello title="name"></ng1-hello>](<ng-content></ng-content>)',
    directives: ['ng1-comp'],
  }
};

const ng1Component = (ctor) => {
  return {
    selector: 'ng1-comp',
    inputs: ['value'],
    template: 'ng1[Hello {{value}}](<ng-transclude></ng-transclude>)',
    directives: ['ng2-comp'],
  }
};

const ng2Component = ng2Component(Ng2Component);
const ng1Component = ng1Component(Ng1Hello);

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

adapter.bootstrap(document.body, ['myExample']).ready(function() {
  expect(document.body.textContent).toEqual('Hello World!');
});
```

@deprecated Deprecated since v5. Use `upgrade/static` instead, which also supports Ahead-of-Time compilation. @publicApi
- Interpolation: `\<comp greeting="\{\{name\}\}\!">` - Expression: `\<comp [name]="\{username\}\!">` - Event: `\<comp (close)=\"doSomething()\">`

- ng-model: `\<comp ng-model="\{name\}\!">`

- Content projection: `\\` - ng-model: `\<comp [name]="username">`

- Event: `\<comp (close)="doSomething()">`

- ng-model: `\<comp ng-model="name">`

- Content projection: yes

### Example

```
const adapter = new UpgradeAdapter(forwardRef(() => MyNg2Module));
const module = angular.module('myExample', []); module.directive('greet',
adapter.downgradeNg2Component(Greeter));

@gurget @Component({lector: 'greet',
  template: '<\{\{salutation\}\} \{\{name\}\}\! - <\ng-content></\ng-content>','
  @Input(): salutation:
string; @Input(name: string); @NgModel('@name'); @declarations: [Greeter];

- imports: [BrowserModule]

- class MyNg2Module {}

- document.body.innerHTML = 'ng1 template: <greet salutation="Hello" [name]="world">text</greet> -

- bootstrap(document.body, ['myExample']).ready(function() {

- expect(document.body.textContent).toEqual('ng1 template: Hello world!

- text()");

- downdowngradeNg2Component(component: Type<any>): Function {

  - adapters.push(component);

  return downgradeComponent({component});

  -

- Allows AngularJS Component to be used from Angular.

- Use `upgradeNg1Component` to create an Angular component from AngularJS Component

- directive. The adapter will bootstrap AngularJS component

- from within the Angular

- template.

- * @usageNotes

- **Mental Model**

- The component is instantiated by being listed in Angular template. This means that the

- host element is controlled by Angular, but the component's view will be controlled by

- AngularJS.

- Supports:

- - Interpolation: `\<comp greeting="Hello \{\{name\}\}\!">`

- - Expression: `\<comp [name]="\{username\}\!">`

- - Event: `\<comp (close)=\"doSomething()\">`

- - Transclusion: yes

- Only some of the features of

- [Directive Definition Object](https://docs.angularjs.org/api/ng/service/$compile) are

- supported: `\- compile`: not supported because the host element is owned by Angular, which does

- not allow modifying DOM structure during compilation.

- - 'controller': supported. (NOTE: injection of 'Self' and 'Transclude' is not

- supported.)

- - 'controllerAs': supported.

- - 'bindToController': supported.

- - 'link': supported. (NOTE: only pre-link function is supported.)

- - 'replace': not supported.

- - 'require': supported.

- - 'restrict': must be set to 'E'.

- - 'scope': supported.

- - 'template': supported.

- - 'templateUrl': supported.

- - 'terminal': ignored.

- - 'transclude': supported.

- - ng-transclude:

- - `\<comp (close)=\"doSomething()\">`

- - `\<comp [name]="\{username\}\!">`

- - Event: `\<comp (close)=\"doSomething()\">`

- - Transclusion: yes

- - Only some of the features of

- [Directive Definition Object](https://docs.angularjs.org/api/ng/service/$compile) are

- supported: `\- compile`: not supported because the host element is owned by Angular, which does

- not allow modifying DOM structure during compilation.

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- supported.)

- - 'controllerAs': supported.

- - 'bindToController': supported.

- - 'link': supported. (NOTE: only pre-link function is supported.)

- - 'replace': not supported.

- - 'require': supported.

- - 'restrict': must be set to 'E'.

- - 'scope': supported.

- - 'template': supported.

- - 'templateUrl': supported.

- - 'terminal': ignored.

- - 'transclude': supported.

- - `\<comp [name]="\{username\}\!">`

- - Event: `\<comp (close)=\"doSomething()\">`

- - Transclusion: yes

- - Only some of the features of

- [Directive Definition Object](https://docs.angularjs.org/api/ng/service/$compile) are

- supported: `\- compile`: not supported because the host element is owned by Angular, which does

- not allow modifying DOM structure during compilation.

- - 'controller': supported. (NOTE: injection of 'Self' and 'Transclude' is not

- supported.)

- - 'controllerAs': supported.

- - 'bindToController': supported.

- - 'link': supported. (NOTE: only pre-link function is supported.)

- - 'replace': not supported.

- - 'require': supported.

- - 'restrict': must be set to 'E'.

- - 'scope': supported.

- - 'template': supported.

- - 'templateUrl': supported.
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```javascript
// $rootScope_ => {
//   *   $compile = _$compile_;
//   *   $rootScope = _$rootScope_;
//   * }));
//
// it("says hello", (done) => {
//   *   upgradeAdapterRef.ready(() => {
//   *     const element = $compile("<my-component>")($rootScope);
//   *     $rootScope.$apply();
//   *
//   *     expect(element.html()).toContain("Hello World!");
//   *     done();
//   *   });
//   * });
//
// @param modules any AngularJS modules that the upgrade module should depend upon
// *returns an `UpgradeAdapterRef`, which lets you register a `ready()` callback to run assertion
// once the Angular components are ready to test through AngularJS.
// * An registerForNg1Tests(modules?: string[]):
// UpgradeAdapterRef {
//   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.ng1ModuleName);
//   const upgrade = new UpgradeAdapterRef();
//   this.ng2BootstrapDeferred.promise.then((ng1Injector) => {
//     (any>upgrade)._bootstrapDone(this.moduleRef, ng1Injector);
//   }, onError);
//   return upgrade;
// }
//
// /**
//  * Bootstrap a hybrid AngularJS / Angular application.
//  * An * This `bootstrap` method is a direct replacement (takes same arguments)
//  * for AngularJS\' \[bootstrap\] ([https://docs.angularjs.org/api/ng/function/angular.bootstrap](https://docs.angularjs.org/api/ng/function/angular.bootstrap)
//  * method. Unlike\n * AngularJS, this bootstrap is asynchronous.
//  */
// bootstrap(element: Element, modules?: any[], config?: IAngularBootstrapConfig): UpgradeAdapterRef {
//   this.declareNg1Module(modules);
//   // Make sure resumeBootstrap() only exists if the current bootstrap is deferred
//   const windowAngular = (window as any /** TODO #??? */)['angular'];
//   windowAngular.resumeBootstrap = undefined;
//   this.ngZone.run(() => { bootstrap(element, [this.ng1Module.name], config!); });
//   const ng1BootstrapPromise = new Promise((resolve) => {
//     if (windowAngular.resumeBootstrap) {
//       const originalResumeBootstrap: () => void = windowAngular.resumeBootstrap;
//       windowAngular.resumeBootstrap = function() {
//         windowAngular.resumeBootstrap = originalResumeBootstrap;
//         const r = windowAngular.resumeBootstrapapply(this, arguments);
//         resolve(r);
//         return r;
//       };
//     } else {
//       resolve();
//     }
//   });
//   Promise.all([this.ng2BootstrapDeferred.promise, ng1BootstrapPromise]).then(([ng1Injector]) => {
//     (any>upgrade)._bootstrapDone(this.moduleRef, ng1Injector);
//   });
//   return upgrade;
// }
//
// /**
//  * Allows AngularJS service to be accessible
//  * from Angular.
//  */
// @Injectable()
// class Example {
//   constructor(@Inject('server') server, login: Login) {
//     ...
//   }
// }
//
// const module = angular.module('myExample', []);
// module.directive('ng2', adapter.downgradeNg2Component(Ng2));
// module.directive('ng1', () => { return {
//   *   scope: { title: '=' },
//   *   template: 'ng1[Hello {{title}}!]<span ng-transclude></span>'
//   * };
//   * });
//
// class Ng2 {
//   *
// }
// class Ng1 implements Angular.Module {
//   *
// }
//
// @NgModule({
//   declarations: [Ng2, adapter.upgradeNg1Component('ng1')],
//   imports: [BrowserModule]
// })
// class MyNg2Module {}
//
// document.body.innerHTML = '<ng2 name="World">project</ng2>';
//
// adapter.bootstrap(document.body, ['myExample']).ready((ref) => {
//   const example: Example = ref.ng2Injector.get(Example);
// });
//```
/**
 * Allows Angular service to be accessible from AngularJS.
 *
 * @usageNotes
 * ### Example
 *
 * ```
 * class Example {
 *   constructor() {
 *     console.log(this);  // type: angular.Module
 *   }
 * }
 *
 * const adapter = new UpgradeAdapter(Example);
 *
 * const module = angular.module('myExample', []);
 *
 * module.factory('example', adapter.downgradeNg2Provider(Example)).
 * ready(() => {  // allows `ready()` to be called without a DOM
 *   console.log(module);  // type: angular.Module
 *   console.log(ng1Injectable('example'));  // type: any
 * })
 */

const adapter = new UpgradeAdapter(Example);

// TODO(tbosch): find or file a bug against TypeScript for this.
const ng2Testability = function(testabilityDelegate: ITestabilityService) {
  const originalWhenStable: Function = testabilityDelegate.whenStable;
  return testabilityDelegate.whenStable = (this, callback) => {
    originalWhenStable.call(this, function() {
      callback.apply(this, arguments);
    });
  }
};
platformRef
                   .bootstrapModule(  
                       DynamicNgUpgradeModule, [this.compilerOptions !,
                       {ngZone: this.ngZone}]);

this.ngZone.run(!) => {
  if (rootScopePrototype) {
    rootScopePrototype.Sapply = originalSapplyFn; // restore original Sapply
    while (delayApplyExps.length) {
      rootScope.$apply(delayApplyExps.shift());
    }
    rootScopePrototype = null;
  }
}

return rootScope.$evalAsync(!);  // restore original $apply
}

let subscription =

rootScope.$on('$destroy', () => {
  subscription.unsubscribe();
});

this.ng2BootstrapDeferred.resolve(ng1Injector), onError);

return ng1Module;
}]

/**
 * Synchronous
 promise-like object to wrap parent injectors, to preserve the synchronous nature of AngularJS's $compile.
 */
class ParentInjectorPromise {
  // TODO(issue/24571): remove '!'.
  private injector !: Injector;
  private callbacks: ((injector: Injector) => any)[] = [];

  constructor(private element: IAugmentedJQuery) {
    // store the promise on the element
    element.data(!controllerKey(INJECTOR_KEY), this);
  }

  then(callback: (injector: Injector) => any) {
    if (this.injector) {
      callback(this.injector);
    } else {
      this.callbacks.push(callback);
    }
  }

  resolve(injector: Injector) {
    this.injector = injector;

    // reset the element data to point to the real injector
    this.element.data(!controllerKey(INJECTOR_KEY), injector);

    // clean out the element to prevent memory leaks
    this.element = null !;

    // run all the queued callbacks
    this.callbacks.forEach((callback) => callback(injector));
    this.callbacks.length = 0;
  }
}

/**
 * Use UpgradeAdapterRef to control a hybrid AngularJS / Angular application.
 *
 * @deprecated Deprecated since v5. Use upgrade/static instead, which also supports
 * [Ahead-of-Time compilation](guide/aot-compiler).
 *
 * @publicApi
 */
export class UpgradeAdapterRef {
  /* @internal */
  private _readyFn: ((upgradeAdapterRef: UpgradeAdapterRef) => void)|null = null;

  public ng1RootScope: IRootScopeService = null !;
  public ng1Injector: IInjectorService = null !;
  public ng2ModuleRef: NgModuleRef<any> = null !;
  public ng2Injector: Injector = null !;

  /* @internal */
  private _bootstrapDone(ngModuleRef: NgModuleRef<any>, ng1Injector: IInjectorService) {
    this.ng2ModuleRef = ngModuleRef;
    this.ng2Injector = ngModuleRef.injector;
    this.ng1Injector = ng1Injector;
    this.ng1RootScope = ng1Injector.get($ROOT_SCOPE);
    this._readyFn && this._readyFn(this);
  }

  /**
   * Register a callback function which is notified upon successful hybrid
   * AngularJS / Angular application has been bootstrapped.
   *
   * The `_ready` callback function is invoked inside the Angular zone, therefore it does not
   * require a call to `Sapply()`.
   */
  public ready(fn: (upgradeAdapterRef: UpgradeAdapterRef) => void) {
    this._readyFn = fn;
  }

  /**
   * Dispose of running hybrid AngularJS / Angular application.
   */
  public dispose() {
    this.ng1Injector.$injector.$destroy();
    this.ng2ModuleRef.$destroy();
  }
}

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 */

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

export * from './public_api';

// This file only re-exports content of the `src` folder. Keep it that way.

export * from './src';

// This file is not used to build this module. It is only used during editing
// by the TypeScript language service and during build for verification. `ngc`
// replaces this file with production index.ts when it rewrites private symbol
// names. Exports from './public_api' are generated bundle index. Do not edit.
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1.838 libidn 2.0.5-1+deb10u1

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1.842 brave-instrumentation-rpc 5.9.0
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 * (c) 2010-2020 Google LLC. https://angular.io/
 * License: MIT
 */
/**
 * @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
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1047774271_1590610393.22/0/forms-9-0-7-tgz/package/fesm2015/forms.js
* /opt/ws_local/PERMITS_SQL/1047774271_1590610393.22/0/forms-9-0-7-tgz/package/fesm5/forms.js

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Angular
=======

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

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

License: MIT

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* /opt/ws_local/PERMITS_SQL/1047774271_1590610393.22/0/forms-9-0-7-tgz/package/README.md

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```javascript
{"version":3,"file":"forms.js","sources":[]}
```

Share the sources:
```
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.
 * Implement this interface to create a custom form control directive that integrates with Angular forms.
 * @publicApi
```
export interface ControlValueAccessor {
  /**
   * @description
   * Writes a new value to the element.
   */
  writeValue(value: any): void;

  /**
   * @description
   * Registers a callback function that is called when the control’s value
   * changes in the UI.
   */
  registerOnChange(fn: any): void;

  /**
   * @description
   * Registers a callback function that is called by the forms API on initialization
   * to update the form model after values propagate from the view to the model.
   */
  registerOnTouched(): void;

  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');

/**
 * A `ControlValueAccessor` for writing a value and listening to changes on a checkbox input.
 * @ngModule ReactiveFormsModule
 * @ngModule FormsModule
 * @publicApi
 */
@Directive({
  selector: '[input[type=checkbox][formControlName],input[type=checkbox][formControl],[input[type=checkbox][ngModel]]',
  host: {'(change)': 'onChange($event.target.checked)', '(blur)': 'onTouched()'},
  providers: [CHECKBOX_VALUE_ACCESSOR]
})
export class CheckboxControlValueAccessor implements ControlValueAccessor {
  onChange = (_: any) => {};

  onTouched = () => {};

  setDisabledState?(isDisabled: boolean): void {
    this.renderer.setProperty(this.elementRef.nativeElement, 'disabled', isDisabled);
  }

  constructor(private renderer: Renderer2, private formControl: FormControl, private ngControl: NgControl) {
    this.formControl.valueChanges.subscribe((value) => this.writeValue(value));
    this.formControl.registerOnChange((value) => this.onChange(value));
    this.formControl.registerOnTouched(() => this.onTouched());
  }

  writeValue(value: any): void {
    if (value !== this.formControl.value) {
      this.formControl.setValue(value);
    }
  }

  onChange(value: any): void {
    this.providers.forEach((provider) => provider.writeValue(value));
  }

  onTouched(): void {
    this.providers.forEach((provider) => provider.onTouched());
  }
}

@Directive({
  selector: '[input[type=checkbox]]',
  host: { '(change)': 'onChange($event.target.checked)', '(blur)': 'onTouched()' },
  providers: [CHECKBOX_VALUE_ACCESSOR]
})
export class CheckboxValueAccessor implements ControlValueAccessor {
  onChange = (_: any) => {};

  onTouched = () => {};

  setDisabledState?(isDisabled: boolean): void {
    this.renderer.setProperty(this.elementRef.nativeElement, 'disabled', isDisabled);
  }

  constructor(private renderer: Renderer2, private formControl: FormControl, private ngControl: NgControl) {
    this.formControl.valueChanges.subscribe((value) => this.writeValue(value));
    this.formControl.registerOnChange((value) => this.onChange(value));
    this.formControl.registerOnTouched(() => this.onTouched());
  }

  writeValue(value: any): void {
    if (value !== this.formControl.value) {
      this.formControl.setValue(value);
    }
  }

  onChange(value: any): void {
    this.providers.forEach((provider) => provider.writeValue(value));
  }

  onTouched(): void {
    this.providers.forEach((provider) => provider.onTouched());
  }
}
constructor(private _renderer: Renderer2, private _elementRef: ElementRef) {

  writeValue(value: any): void {
    this._renderer.setProperty(this._elementRef.nativeElement, 'checked', value);
  }

  registerOnChange(fn: (_: any) => {}): void {
    this.onChange = fn;
  }

  registerOnTouched(fn: () => {}): void {
    this.onTouched = fn;
  }
}

export class DefaultValueAccessor implements ControlValueAccessor {

  writeValue(value: any): void {
    const normalizedValue = value == null ? '' : value;
    this._renderer.setProperty(this._elementRef.nativeElement, 'value', normalizedValue);
  }

  registerOnChange(fn: (_: any) => void): void {
    this.onChange = fn;
  }

  registerOnTouched(fn: () => void): void {
    this.onTouched = fn;
  }
}

@Directive({
  selector: '
    input:not([type=checkbox])[formControlName],textarea[formControlName],input:not([type=checkbox])[formControl],textarea[formControl],input:not([type=checkbox])[ngModel],textarea[ngModel],[ngDefaultControl],
  //
  // TODO: vsavkin replace the above selector with the one below it once
  //
  // https://github.com/angular/angular/issues/3011 is implemented
  //
  // selector:
  // [ngModel],[formControl],[formControlName],
  host: {
    '(input)': 'this._handleInput($event.target.value)',
    '(blur)': 'onTouched()',
    '(compositionstart)': 'this._compositionStart()',
    '(compositionend)': 'this._compositionEnd($event.target.value)',
  },
  providers: [DEFAULT_VALUE_ACCESSOR]
})
export class DefaultValueAccessor implements ControlValueAccessor {

  writeValue(value: any): void {
    const normalizedValue = value == null ? '' : value;
    this._renderer.setProperty(this._elementRef.nativeElement, 'value', normalizedValue);
  }

  registerOnChange(fn: (_: any) => void): void {
    this.onChange = fn;
  }

  registerOnTouched(fn: () => void): void {
    this.onTouched = fn;
  }
}
* 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.

* @param get path: string[] | null { return null; } | 

**

* @description

* Resets the control with the provided value if the control is present.

* @param reset(value: any = undefined): void {

* if (this.control) this.control.reset(value);

**

* @description

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

* @param path A list of control names that designates how to move from the current control to the control that should be queried for errors.


* @param path A list of control names that designates how to move from the current control to the control that should be queried for errors.

**

* For example, for the following `FormGroup`:

```
{ address: new FormGroup()
`street': new FormControl()
}
```

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

* It can be provided to this method in one of two formats:

1. An array of string control names, e.g. `['address', 'street']`. 1. A period-delimited list of control names in one string, e.g. `address.street`.

* If no path is given, this method checks for the error on the current control.

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

If the control is not present, false is returned.

* @param hasError(errorCode: string, path?: Array<string|number>|string): boolean {

* if the control is not present, false is returned.

* @param return this.control ? this.control.hasError(errorCode, path) : false;

**

* @description

* Reports error data for the control with the given path.

**

* @description

* Reports error data for the control with the given path.

```
Array<string|number>|string): boolean {

* if the control is not present, false is returned.

* @param return this.control ? this.control.getError(errorCode, path) : null;

**

* @description

* Reports error data for the control with the given path.

**

* @description

* Reports error data for the control with the given path.

```
Form|null { return null; }

**

* @description

* Reports error data for the control with the given path.

**

* @description

* Reports error data for the control with the given path.

```
FormGroup{|street': new FormControl()|}

**

* @description

* Reports error data for the control with the given path.

**

* @description

* Reports error data for the control with the given path.

```
FormGroup{|street': new FormControl()|}

**

* @description

* Reports error data for the control with the given path.

**

* @description

* Reports error data for the control with the given path.

```
FormGroup{|street': new FormControl()|}

**

* @description

* Reports error data for the control with the given path.

**

* @description

* Reports error data for the control with the given path.

```
FormGroup{|street': new FormControl()|}

**

* @description

* Reports error data for the control with the given path.

**

* @description

* Reports error data for the control with the given path.

```
FormGroup{|street': new FormControl()|}

**

* @description

* Reports error data for the control with the given path.

**

* @description

* Reports error data for the control with the given path.

```
FormGroup{|street': new FormControl()|}

**

* @description

* Reports error data for the control with the given path.

**

* @description

* Reports error data for the control with the given path.

```
FormGroup{|street': new FormControl()|}

**

* @description

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FormGroup{|street': new FormControl()|}

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* @description

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```
FormGroup{|street': new FormControl()|}

**

* @description

* Reports error data for the control with the given path.

**

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```
FormGroup{|street': new FormControl()|}

**

* @description

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**

* @description

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FormGroup{|street': new FormControl()|}

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**

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```
FormGroup{|street': new FormControl()|}

**

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**

* @description

* Reports error data for the control with the given path.

```
FormGroup{|street': new FormControl()|}

**

* @description

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```
FormGroup{|street': new FormControl()|}

**

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**

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* Reports error data for the control with the given path.

```
FormGroup{|street': new FormControl()|}

**

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**

* @description

* Reports error data for the control with the given path.

```
FormGroup{|street': new FormControl()|}

**

* @description

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**

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```
FormGroup{|street': new FormControl()|}

**

* @description

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* Reports error data for the control with the given path.

```
FormGroup{|street': new FormControl()|}

**

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**

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```
FormGroup{|street': new FormControl()|}

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* @description

* Reports error data for the control with the given path.

```
FormGroup{|street': new FormControl()|}

**

* @description

* Reports error data for the control with the given path.

**

* @description

* Reports error data for the control with the given path.

```
FormGroup{|street': new FormControl()|}
/**
 * @description
 * The registered async validator function for the control
 * * @throws An exception that this method is not implemented
 * * The callback method to update the model from the view when requested
 * * The new value for the view
 * * An abstract viewToModelUpdate(new Value: any): void

  /**
   * @description
   * The registered async validator function for the control
   *
   * @throws An exception that this method is not implemented
   */
  get asyncValidator(): AsyncValidatorFn|null { return <AsyncValidatorFn>unimplemented(); }

  /**
   * @description
   * The callback method to update the model from the view when requested
   *
   * @param newValue The new value for the view
   */
  abstract viewToModelUpdate(newValue: any): void;

  /**
   * @description
   * The callback method to update the model from the view when requested
   *
   * @param newValue The new value for the view
   */
  abstract viewToModelUpdate(newValue: any): void;

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   *
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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;
    this.ngClassUntouched = false;
    this.ngClassTouched = false;
    this.ngClassPristine = false;
    this.ngClassDirty = false;
    this.ngClassValid = false;
    this.ngClassInvalid = false;
    this.ngClassPending = false;
  }

  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; }

  /**
   * @description
   * Directive automatically applied to Angular form controls that sets CSS classes
   * based on control status.
   *
   * @ngModule ReactiveFormsModule
   * @ngModule FormsModule
   * @publicApi
   */
@Directive({selector: '[formControlName], [ngModel], [formControl], form:not([ngNoForm])', host: ngControlStatusHost})
export class NgControlStatus extends AbstractControlStatus {
  constructor(@Self() cd: ControlContainer) { super(cd); }
}

/**
 * @description
 * Directive automatically applied to Angular form groups that sets CSS classes
 * (valid/invalid/dirty/etc).
 * 
 * @see `NgControlStatus`
 *
 * @ngModule ReactiveFormsModule
 * @ngModule FormsModule
 * @publicApi
 */
@Directive({
  selector: '[formGroupName], [formArrayName], [formModel], [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';
import {AsyncValidatorFn, ValidationErrors, Validator, ValidatorFn} from './directives/validators';
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`
 *
 * @usageNotes
 *
 * ### Providing a custom validator
 *
 * The following example registers a custom validator directive. Adding the validator to the existing collection of validators requires the `multi: true` option.
 *
 * ```typescript
 * @Directive({
 *   selector: '[customValidator]',
 *   providers: 
 *     {provide: NG_VALIDATORS, useExisting: CustomValidatorDirective, multi: true}
 * })
 * class CustomValidatorDirective implements Validator {
 *   validate(control: AbstractControl): ValidationErrors | null {
 *     return 'custom';
 *   }
 * }
 * ```
 *
 * @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`

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 periods (`.`)).
 * - 'label' cannot begin or end with a dash (`-`) or a period (`.`).
 * - 'label' cannot be longer than 64 characters.
 * - 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
 * See [this commit](https://github.com/angular/angular.js/commit/f3f5cf72e) for more details.
 * const EMAIL_REGEXP = /^(?=.{1,254}$)(?=.{1,64}@)[a-zA-Z0-9!#$%&'*+/=?^_`{|}~-]+(?:\.[a-zA-Z0-9!#$%&'*+/=?^_`{|}~-]+)*@[a-zA-Z0-9](?:[a-zA-Z0-9-]{0,61}[a-zA-Z0-9])?(?:\.[a-zA-Z0-9-]{0,61}[a-zA-Z0-9-])?$/;

/**
 * @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)
 */
export class Validators {

  /**
   * @description
   * Validator that requires the control's value to be greater than or equal to the provided number.
   * @usageNotes
   * ### Validate against
   * a minimum of 3
   *
   * ```typescript
   * const control = new FormControl(2, Validators.min(3));
   *
   * console.log(control.errors); // {min: {min: 3, actual: 2}}
   * ```
   *
   * @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);
      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.
   * @usageNotes
   * ### Validate against
   * a maximum of 15
   *
   * ```typescript
   * const control = new FormControl(16, Validators.max(15));
   *
   * console.log(control.errors); // {max: {max: 15, actual: 16}}
   * ```
   *
   * @returns A validator function that returns an error map with the
   * `max` property if the validation check fails, otherwise `null`.
   * @see `updateValueAndValidity()`
   */
  static max(max: number): ValidatorFn {
    return (control: AbstractControl): ValidationErrors | null => {
      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 have a non-empty value.
   * @usageNotes
   * ### Validate that the field is non-empty
   *
   * ```typescript
   * const control = new FormControl('', Validators.required);
   *
   * console.log(control.errors); // {required: true}
   * ```
   *
   * @returns An error map with the `required` property if the validation check fails, otherwise `null`.
   * @see
   */
  static required(): ValidatorFn {
    return (control: AbstractControl): ValidationErrors | null => {
      if (isEmptyInputValue(control.value)) {
        return null;  // don't validate empty values to allow optional controls
      }

      const value = parseFloat(control.value);
      return !isNaN(value) && value > max ? {'required': true} : null;
    };
  }

  static combinationValidator(...validators: Array<ValidatorFn>): ValidatorFn {
    return (control: AbstractControl): ValidationErrors | null => {
      let errors = {}
      for (let validator of validators) {
        const validatorErrors = validator(control);
        if (validatorErrors) {
          errors = { ...errors, ...validatorErrors }
        }
      }

      return errors;
    };
  }

  static拗断Validator(...validators: Array<ValidatorFn>): ValidatorFn {
    return (control: AbstractControl): ValidationErrors | null => {
      let errors = null
      for (let validator of validators) {
        const validatorErrors = validator(control);
        if (validatorErrors) {
          errors = validatorErrors
          break
        }
      }

      return errors;
    };
  }

  static mustMatchValidator(controlName: string, otherControl: AbstractControl): ValidatorFn {
    return (control: AbstractControl): ValidationErrors | null => {
      const otherValue = otherControl.value;
      return control.value !== otherValue ? {'mustMatch': {[controlName]: control.value, [otherControl.name]: otherValue}} : null;
    };
  }
}

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* `updateValueAndValidity()`

```typescript
const control = new FormControl('1', Validators.pattern('[a-zA-Z ]*'));
```

* `pattern` attribute.

@usageNotes

### Validate that the field value is true

```typescript
control.value === true ? null : {'required': true};
```

* `required` that requires the control's value pass an email validation test.

```typescript
null * @usageNotes
```

* `email` property if the validation check fails, otherwise `null`.

```typescript
Validator that requires the control's value be true. This validator is commonly used for required checkboxes.
```

@returns An error map that contains the `required` property set to `true` if the validation check fails, otherwise `null`.

```typescript
const control = new FormControl('', Validators.requiredTrue());
```

* `requiredTrue` static required True.

@see `updateValueAndValidity()`

```typescript
null static required True(control: AbstractControl): ValidationErrors
```

* `static requiredTrue` if the validation check fails, otherwise `null`.

```typescript
null if (isEmptyInputValue(control.value)) {
```

@returns An error map with the `email` property if the validation check fails, otherwise `null`.

```typescript
const length: number = control.value.length;
```

* `length` to equal length.

```typescript
null ! throws an error map with the expected `requiredLength` of the provided minimum length. This validator is also provided by default if you use the `email` attribute.

```typescript
* @usageNotes
```

* `email` that requires the length of the control's value to be greater than or equal to the provided maximum length. This validator is also provided by default if you use the `required` that requires the control's value be true. This validator is commonly used for required checkboxes.

```typescript
Validator that requires the control's value pass an email validation test.
```

```typescript
null + `email`
```

* `email` property if the validation check fails, otherwise `null`.

```typescript
null if (isEmptyInputValue(control.value)) {
```

@returns An error map with the `email` property if the validation check fails, otherwise `null`.

```typescript
null * @usageNotes
```

* `usageNotes` that requires the control's value pass an email validation test.

```typescript
null * @usageNotes
```

* `usageNotes` that requires the control's value be true. This validator is commonly used for required checkboxes.

```typescript
null * @usageNotes
```

* `usageNotes` that requires the control's value be true. This validator is commonly used for required checkboxes.

```typescript
Validator that requires the control's value pass an email validation test.
```

```typescript
null static email(ctl: AbstractControl): ValidationErrors
```

* `static email` if the validation check fails, otherwise `null`.

```typescript
null + `static email`
```

* `static email` that requires the length of the control's value to be greater than or equal to the provided maximum length. This validator is also provided by default if you use the `email` attribute.

```typescript
Validator that requires the field to have a minimum of 3 characters.
```

```typescript
Validator that requires the length of the control's value not to be less than or equal to the provided maximum length. This validator is also provided by default if you use the `required` that requires the control's value be true. This validator is commonly used for required checkboxes.

```typescript
Validator that requires the length of the control's value be true. This validator is commonly used for required checkboxes.
```

```typescript
Validator that requires the control's value pass an email validation test.
```

```typescript
Validator that requires the control's value be true. This validator is commonly used for required checkboxes.
```

```typescript
Validator that requires the control's value pass an email validation test.
```

```typescript
Validator that requires the control's value be true. This validator is commonly used for required checkboxes.
```

```typescript
Validator that requires the control's value pass an email validation test.
```
```javascript
console.log(control.errors); // {requiredPattern: '^[a-zA-Z ]*$\.'}, actualValue: '1'}

```html
<input pattern="^[a-zA-Z ]*$">
```

* ```
* ```

```html
```

* @param pattern A regular expression to be used as is to test the values, or a string. `*` If a string is passed, the `^` character is prepended and the `*` character isn't appended to the provided string (if not already present), and the resulting regular * expression is used to test the values.

* @returns A validator function that returns an error map with the `*pattern` property if the validation check fails, otherwise `null`.

```html
```

* @see `updateValueAndValidity()`

```html
```

* `*pattern` (pattern: string|RegExp): ValidatorFn {
  if (!pattern) return Validators.nullValidator;
  let regex: RegExp; let regexStr: string; if (typeof pattern === 'string') {
    regexStr = '';
    if (pattern.charAt(0) !== '^') regexStr += '^';
    regexStr += pattern;
    if (pattern.charAt(pattern.length - 1) !== '$') regexStr += '$';
    regex = new RegExp(regexStr);
  } else {
    regexStr = pattern.toString();
    regex = pattern;
  }
  return (control: AbstractControl): ValidationErrors | null => {
    if (isEmptyInputValue(control.value)) {
      return null;  // don't validate empty values to allow optional controls
    }
    const value: string = control.value;
    return regex.test(value) ? null :
      {'pattern': {'requiredPattern': regexStr, 'actualValue': value}};
  };
}

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: any = {};
  arrayOfErrors.forEach((errors: ValidationErrors | null) => {
    res = errors != null ? {...res !, ...errors} : res !;
  });
  return Object.keys(res).length === 0 ? null : res;
}
```

--

```javascript
console.log(control.errors); // {requiredPattern: '^\d\.*$', actualValue: '1'}
```
```typescript
import {Directive, ElementRef, 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.
   * @param control The control to add.
   * @param accessor The accessor to associate with the control.
   */
  add(control: NgControl, accessor: RadioControlValueAccessor) {
    this._accessors.push([control, accessor]);
  }

  /**
   * @description
   * Removes a control from the internal registry. For internal use only.
   * @param accessor The accessor to remove.
   */
  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.
   * @param accessor The accessor to select.
   */
  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;

function checkName(name) {
  if (name && name !== accessor.name) {
    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">
    `);
  }
}

/**
 * @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.
 */

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

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

function setDisabledState(isDisabled) {
  this.disabled = isDisabled;
}

/**
 * @description
 * The registered callback function called when a blur event occurs on the input element.
 */

function onTouched(): void {
  this._renderer.setProperty(this._elementRef.nativeElement, 'disabled', false);
  if (this.onChange) this.onChange();
  if (this.onTouched) this.onTouched();
}

/**
 * Sets the "checked" property on the radio input element.
 */

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

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

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

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

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

/**
 * Sets the "value" on the radio input element and unchecks it.
 */

function uncheck() {
  this.writeValue(null);
}

/**
 * Sets the "disabled" property on the input element.
 */

function setDisabledState(isDisabled) {
  this.disabled = isDisabled;
  this.writeValue(null);
}
'FormControlName', and 'NgModel'
directives.

The following example shows how to use a range input with a reactive form:

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

```ts
<
```

```ts
@Directive({
  selector:

`)\n
```ts
<
```

```ts
Directive({'

}``

```ts
/**
 * @description
 * The registered callback function called when a change or input event occurs on the input element.
 * * @param isDisabled The disabled value
 */
setDisabledState(isDisabled: boolean): void {
  this._renderer.setProperty(this._elementRef.nativeElement, 'disabled', isDisabled);
```

```ts
 const FormErrorExamples = {
  formControlName: `
    <div 
      
    </div>

    In your class:

    this.myGroup = new FormGroup({
```

```ts
  ngModelGroup:
    `<form>
      <div
        name="firstName">
        <input
```

```ts
  ngModelWithFormGroup: `
    <div
      
      
```

```ts
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:

```

```ts
}<input formControlName="i">
```

```ts
</div>
```

```ts
</div>
```

```ts
In your class:

```

```ts
ngModelWithFormGroup: `
    <form>
      <input
```

```ts
ngModelGroup: `
    <form>
      <input
```

```ts
import {ErrorExamples 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:

```

```ts
}<input formControlName="i">
```

```ts
</div>
```

```ts
</div>
```

```ts
In your class:

```ts
ngModelWithFormGroup: `
    <form>
      <input
```
$\{Examples.formControlName\}$

static groupParentException(): void {
  throw new Error$\{Examples.formGroupName$ 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$\{Examples.formArrayName$ 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$\{Examples.formGroupName$ 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 ngModelWarning(directiveName: string): void {
  console.warn$\{Examples.formGroupName$ is used with $\{directiveName$.

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

LICENSE file at https://angular.io/license

import {Directive, ElementRef, Host, Input, OnDestroy, Optional, Renderer2, StaticProvider, forwardRef, ɵlooseIdentical as looseIdentical} from '@angular/core';

import {ControlValueAccessor, NG_VALUE_ACCESSOR} from './control_value_accessor';

export const SELECT_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.

* Using select controls in a reactive form

* The following examples show how to use a select control in a reactive form.

```ts
const selectedCountriesControl = new FormControl();
```

```
<select 
 [compareWith]="compareFn"
 [formControl]="selectedCountriesControl">
     <option *ngFor="let country of countries"
     [ngValue]="country">
         {{country.name}}
     </option>
 </select>

compareFn(c1: Country, c2: Country): boolean {
    return c1.id === c2.id;
}
```

**Note:** We listen to the 'change' event because 'input' events aren't fired for selects in Firefox and IE.

https://bugzilla.mozilla.org/show_bug.cgi?id=1024350

@publicApi

`<select>`

select:not([multiple]) [$\{formControlName$},select:not([multiple])[$\{formControlName$]".
export class SelectControlValueAccessor implements ControlValueAccessor {
  value: any;
  /** @internal */
  _optionMap: Map<string, any> = new Map<string, any>();
  /** @internal */
  _idCounter: number = 0;
  /** @internal */
  _compareWith: (o1: any, o2: any) => boolean = looseIdentical;

  /**
   * @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.
   */
  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;
  }

  /**
   * @description
   * Tracks the value bound to the option element.
   */
  set param isDisabled Disabled value string; * /\n  setDisabledState(isDisabled: boolean): void {
    if (this._select) this._select.writeValue(this._select.value);
  }

  /**
   * @description
   * Lifecycle method called before the directive's instance is destroyed. For internal use only.
   */
  onDestroy(): void {
    if (this._select) {
      this._select.writeValue(this._select.value);
    }
  }
}

/**
 * Marks `<option>` as dynamic, so Angular can be notified when options change.
 * For objects, use the `ngValue` input binding.
 */
@Directive({selector: 'option'})
export class NgSelectOption implements OnDestroy {
  id !: string;

  constructor(
      private _element: ElementRef, private _renderer: Renderer2,
      @Optional() @Host() private _select: SelectControlValueAccessor) {
    if (this._select) this.id = this._select._registerOption();
  }

  /**
   * @description
   * The value bound to the option element.
   */
  set value(value: any) {
    this._setElementValue(value);
    if (this._select) this._select.writeValue(this._select.value);
  }

  /**
   * @description
   * Lifecycle method called before the directive's instance is destroyed. For internal use only.
   */
  onDestroy(): void {
    if (this._select) {
      this._select.writeValue(this._select.value);
    }
  }
}

import {Directive, ElementRef, Host, Input, OnDestroy, Optional, Renderer2, StaticProvider, forwardRef, ɵlooseIdentical as looseIdentical} from '@angular/core';

import {ControlValueAccessor, NG_VALUE_ACCESSOR} from
export const SELECT_MULTIPLE_VALUE_ACCESSOR: StaticProvider = {
  provide: NG_VALUE_ACCESSOR,
  useExisting: forwardRef(() => SelectMultipleControlValueAccessor),
  multi: true
};

function _buildValueString(id: string, value: any): string {
  if (id == null) return `${value}`;
  if (typeof value === 'string') value = `'${value}'`;
  if (value && typeof value === 'object') value = 'Object';
  return `${id}: ${value}`.slice(0, 50);
}

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

/**
 * The `ControlValueAccessor` for writing multi-select control values and listening to multi-select
 * control events. The value accessor is used by the `FormControlDirective`, `FormControlName`, and
 * `NgModel` directives.
 * @see `SelectControlValueAccessor`
 *
 * @usageNotes
 * 
 * ### Using a multi-select control
 * 
 * The follow example shows you how to use a multi-select control with a reactive form.

 const countryControl = new FormControl();
 ```
 <select multiple name="countries" formControlName="countryControl">
   <option *ngFor="let country of countries" [ngValue]="country">
     {{ country.name }}
   </option>
 </select>
 ```

### Customizing option selection
 
To customize the default option comparison algorithm, `<select>` supports `compareWith`.
 
`<select>` supports `compareWith` input.

 - `*ngForm="let country of countries"` [ngValue]="country"> *n *n *n *n

 - `select multiple name="countries" [formControlName="countryControl"]` *n *n *n

 - `option *ngFor="let country of countries" [ngValue]="country"> *n *n *n

 - `[SELECT_MULTIPLE_VALUE_ACCESSOR]` *n *n *n

 - `Mock interface for HTML Options */

interface HTMLOption {[value: string];

/** Mock interface for HTMLCollection */
abstract class HTMLCollection {

  length!: number;
  abstract item(_: number): HTMLOption;
}

/**
 *
 * The `ControlValueAccessor` for writing multi-select control values and listening to multi-select
 * control events.
 *
 * @see `SelectControlValueAccessor`
 *
 * @usageNotes
 * 
 * ### Using a multi-select control
 * 
 * The follow example shows you how to use a multi-select control with a reactive form.

 const countryControl = new FormControl();
 ```
 <select multiple name="countries" [formControlName="countryControl"]>
   <option *ngFor="let country of countries" [ngValue]="country">
     {{ country.name }}
   </option>
 </select>
 ```

### Customizing option selection
 
To customize the default option comparison algorithm, `<select>` supports `compareWith`.
 
`<select>` supports `compareWith` input.

 - `*ngForm="let country of countries" [ngValue]="country"> *n *n *n

 - `select multiple name="countries" [formControlName="countryControl"]` *n *n *n

 - `option *ngFor="let country of countries" [ngValue]="country"> *n *n *n

 - `[SELECT_MULTIPLE_VALUE_ACCESSOR]` *n *n *n

 - `Mock interface for HTML Options */

interface HTMLOption {[value: string];

/** Mock interface for HTMLCollection */
abstract class HTMLCollection {

  length!: number;
  abstract item(_: number): HTMLOption;
}

/**
 *
 * The `ControlValueAccessor` for writing multi-select control values and listening to multi-select
 * control events. The value accessor is used by the `FormControlDirective`, `FormControlName`, and
 * `NgModel` directives.
 * 
 * @see `SelectControlValueAccessor`
 *
 * @usageNotes
 * 
 * ### Using a multi-select control
 * 
 * The follow example shows you how to use a multi-select control with a reactive form.

 const countryControl = new FormControl();
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   </option>
 </select>
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 - `option *ngFor="let country of countries" [ngValue]="country"> *n *n *n

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### Customizing option selection
 
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 - `select multiple name="countries" [formControlName="countryControl"]` *n *n *n

 - `option *ngFor="let country of countries" [ngValue]="country"> *n *n *n

 - `[SELECT_MULTIPLE_VALUE_ACCESSOR]` *n *n *n

 - 0
Validators.composeAsync((control.asyncValidator !, dir.asyncValidator));

  dir.valueAccessor !.writeValue(control.value);
  dir.setUpdateViewChangePipeline(control, dir);
  dir.setUpdateBlurPipeline(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 | ValidatorFn) => {
    if ((<Validator>validator).registerOnValidatorChange)
      (<Validator>validator).registerOnValidatorChange(() => control.updateValueAndValidity());
  });

  dir._rawAsyncValidators.forEach((validator: AsyncValidator | AsyncValidatorFn) => {
    if ((<Validator>validator).registerOnValidatorChange)
      (<Validator>validator).registerOnValidatorChange(() => control.updateValueAndValidity());
  });
}

export function cleanUpControl(control: FormControl, dir: NgControl) {
  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);
    if (control.updateOn !== 'submit') control.markAsTouched();
  });
}

function updateControl(control: FormControl, dir: NgControl): void {
  if (control._pendingDirty) control.markAsDirty();
  control.setValue(control._pendingValue, {emitModelToViewChange: false});
  dir.viewToModelUpdate(control._pendingValue);
  control._pendingChange = false;
}

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

export function setUpFormContainer(
    control: FormGroup | FormArray, dir: AbstractFormGroupDirective | FormArrayName) {
  if (control == null) _throwError(dir, 'Cannot find control with');
  control.validator = Validators.compose([control.validator, dir.validator]);
  control.asyncValidator = Validators.composeAsync([control.asyncValidator, dir.asyncValidator]);
}

function _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:
  if (dir.path!.length > 1) {
    messageEnd = `path: '${dir.path!.join(' -> ')}'`;
  } else if (dir.path ![0]) {
    messageEnd = `name: '${dir.path}'`;
  } else {
    messageEnd = 'unspecified name attribute';
  }
  throw new Error(`${message} ${messageEnd}`);
}

export function composeValidators(validators: Array<Validator|ValidatorFn>): ValidatorFn|null {
  return validators != null ? Validators.compose(validators.map(normalizeValidator)) : null;
}

export function composeAsyncValidators(validators: Array<AsyncValidator|AsyncValidatorFn>[]):
  AsyncValidatorFn|null {
  return validators != null ? Validators.composeAsync(validators.map(normalizeAsyncValidator)) : null;
}

export function 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 {

}

Open Source Used In MSX vBranch Service Pack 3.9.0 6386
```typescript
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`
 */
export const PENDING = 'PENDING';

/**
 * Reports that a FormControl is disabled, meaning that the control is exempt from ancestor calculations of validity or value.
 * @see `markAsDisabled`
 * @see `status`
 */
export const DISABLED = 'DISABLED';

function _find(control: AbstractControl, path: Array<string|number>| string, delimiter: string) {
  if (path == null) return null;

  if (!Array.isArray(path)) {
    path = path.split(delimiter);
  }
  if (Array.isArray(path) && path.length === 0) return null;

  // Not using Array.reduce here due to a Chrome 80 bug //
  // https://bugs.chromium.org/p/chromium/issues/detail?id=1049982
  let controlToFind: AbstractControl|null = control;
  path.forEach((name: string | number) => {
    if (controlToFind instanceof FormGroup) {
      controlToFind = controlToFind.controls.hasOwnProperty(name as string) ?
          controlToFind.controls[name] :
          null;
    } else if (controlToFind instanceof FormArray) {
      controlToFind = controlToFind.at(<number>name) || null;
    } else {
      controlToFind = null;
    }
  });
  return controlToFind;
}

function coerceToValidator(validatorOrOpts?: ValidatorFn | ValidatorFn[], AbstractControlOptions | null): ValidatorFn|null {
  const validator =
      (isOptionsObj(validatorOrOpts) ?
          (validatorOrOpts as AbstractControlOptions).validators :
                                       validatorOrOpts) as ValidatorFn |
      ValidatorFn[] | null;

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

function coerceToAsyncValidator(asyncValidator?: AsyncValidatorFn | AsyncValidatorFn[], validatorOrOpts?: ValidatorFn | ValidatorFn[], AbstractControlOptions | null): AsyncValidatorFn|null {
  const asyncValidator =
      (isOptionsObj(asyncValidator) ?
          (asyncValidator as AbstractControlOptions).validators :
                                       asyncValidator) as AsyncValidatorFn |
      AsyncValidatorFn[] | null;

  return Array.isArray(asyncValidator) ? composeAsyncValidators(asyncValidator) : asyncValidator || null;
}

```

---

**Open Source Used In MSX vBranch Service Pack 3.9.0 6387**
const origAsyncValidator =
      (isOptionsObj(validatorOrOpts) ? (validatorOrOpts as
      AbstractControlOptions).asyncValidators :
                                       asyncValidator) as AsyncValidatorFn |
                                       AsyncValidatorFn | null;

export type FormHooks = 'change' | 'blur' | 'submit';

export interface AbstractControlOptions {
  validators?: ValidatorFn|ValidatorFn[]|null;
  asyncValidators?: AsyncValidatorFn|AsyncValidatorFn[]|null;
  updateOn?: 'change'|'blur'|'submit';
}

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

/**
 * 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.

 * The current value of the control.
 * 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 * @param validator The function that determines the
 * status of the control. There are four possible
 * validation status values:
 * The current value of the control.
 * 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 * @param validator The function that determines the
 * synchronous validity of this control.
 * @param constructor(public validator: ValidatorFn
 * ) { ... * The parent control.
 * get parent(): FormGroup|FormArray { return this._parent; };
 * The validation status of the control. There are four possible
 * validation status values:
 * This control has passed all validation checks.
 * This control has failed at least one validation check.
 * 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`.
 * A control is `invalid` when its `status` is `INVALID`.
 * A control is `pending` when its `status` is `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.
 * Return the status.
 * A control is `valid` when its `status` is `VALID`.
 * A control is `invalid` when its `status` is `INVALID`.
 * @see {@link AbstractControl.status}
 * * returns True if the control has passed all of its validation tests.
 * * get valid(): boolean { return this.status === VALID; };
 * A control is `valid` when its `status` is `VALID`.
 * A control is `invalid` when its `status` is `INVALID`.
 * @see {@link AbstractControl.status}
 * * returns True if the 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 {@link AbstractControl.status}
 * * returns True if this control is in the process of conducting a validation
 * * 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.
 * @link AbstractControl.status
 * * returns True if the control has failed one or more of its validation checks.
 * * false otherwise.
 * * get invalid(): boolean { return this.status === INVALID; };
 * A control is `pending` when its `status` is `PENDING`.
 * @see {@link AbstractControl.status}
 * * returns True if this control is in the process of conducting a validation
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 * * false otherwise.
 * * get invalid(): boolean { return this.status === INVALID; };
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 * * returns True if this control is in the process of conducting a validation
 * * get pending(): boolean { return this.status === PENDING; };
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 * Disabled controls are exempt from validation checks and
 * are not included in the aggregate value of their ancestor
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 * controls.
 * @link AbstractControl.status
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 * @see {@link AbstractControl.status}
 * * returns True if this control is in the process of conducting a validation
 * * 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.
 * @link AbstractControl.status
 * * returns True if the control has failed one or more of its validation checks.
 * * false otherwise.
 * * get invalid(): boolean { return this.status === INVALID; };
 * A control is `pending` when its `status` is `PENDING`.
 * @see {@link AbstractControl.status}
 * * returns True if this control is in the process of conducting a validation
 * * 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.
 * @link AbstractControl.status
 * * returns True if the control has failed one or more of its validation checks.
 * * false otherwise.
 * * get invalid(): boolean { return this.status === INVALID; };
 * A control is `pending` when its `status` is `PENDING`.
 * @see {@link AbstractControl.status}
 * * returns True if this control is in the process of conducting a validation
 * * 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.
 * @link AbstractControl.status
 * * returns True if the control has failed one or more of its validation checks.
```typescript
markAsUntouched(opts: {onlySelf?: boolean} = {}): void {
    (this as{touched: boolean}).touched = false;

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

markAsDirty(opts: {onlySelf?: boolean} = {}): void {
    (this as{touched: boolean}).touched = true;

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

markAsPristine(): void {
    this.markAsTouched({onlySelf: true});
}

markAsTouched(opts: {onlySelf?: boolean} = {}): void {
    (this as{touched: boolean}).touched = true;

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

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

markAllAsTouched(): void {
    this.markAsTouched({onlySelf: true});

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

```javascript
this._pendingTouched = false;
this._forEachChild((control: AbstractControl) => {
  control.markAsUntouched({onlySelf: true});
});

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

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

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

/**
 * Marks the control as `dirty`. A control becomes dirty
 * the control’s value is changed through the UI; compare `markAsTouched`.
 *
 * @see `markAsTouched()`
 * @see `markAsUntouched()`
 * @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.
 * *
 * `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`.
 *
 * If the control has any children, marks all children as `pristine`,
 * and recalculates the `pristine` status of all parents.
 *
 * @see `markAsTouched()`
 * @see `markAsUntouched()`
 * @see `markAsDirty()`
 *
 * @param opts Configuration options that determine how the control emits events after marking is applied.
 * *
 * `onlySelf`: When true, mark only this control. When false or not supplied, marks all direct
 * ancestors. Default is false.
 * *
 * `markAsPristine(opts: {onlySelf?: boolean} = {}): void {`;
 * (this as {pristine: boolean}).pristine = true;
 * this._pendingDirty = false;
 * this._forEachChild((control: AbstractControl) => {
 *   control.markAsPristine({onlySelf: true});
 * });
 * if (this._parent && !opts.onlySelf) {
 *   this._parent.markAsPristine(opts);
 * }
 * }

/**
 * Marks the control as `pending`.
 *
 * A control is pending while the control performs async validation.
 * *
 * @param opts Configuration options that determine how the control propagates changes and emits events after marking is applied.
 * *
 * `onlySelf`: When true, mark only this control. When false or not supplied, marks all direct
 * ancestors. Default is false.
 * *
 * `emitEvent`: When true or not supplied (the default), the `statusChanges` observable emit an event with the latest status when the control is marked pending.
 * When false, no events are emitted.
 * *
 * `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);
 *   (this.valueChanges as EventEmitter<any>).emit(this.value);
 * }
 * }

/**
 * 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.
 * *
 * `disable(opts: {onlySelf?: boolean, emitEvent?: boolean} = {}): void {`;
 * (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);
 * }
 * }

/**
 * 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.
 * *
 * `enable(opts: {onlySelf?: boolean, emitEvent?: boolean} = {}): void {`;
 * (this as {status: string}).status = ENABLED;
 * (this as {errors: ValidationErrors | null}).errors = null;
 * this._forEachChild((control: AbstractControl) => {
 *   control.enable({...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);
 * }
 * }
```
control is enabled. When false, no events are emitted.

```javascript
* / */
* enable(opts: {onlySelf?: boolean, emitEvent?: boolean} = { }) : void {
* // If parent has been marked artificially dirty we don't want to recalculate the
* parent's dirtiness based on the children.
* const skipPristineCheck = this._parentMarkedDirty(opts.onlySelf);
* (this as{status: string}).status = VALID;
* this._forEachChild((control: AbstractControl) => {
* if (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: {onlySelf?: boolean, emitEvent?: boolean} = {} : void {
* // If parent has been marked artificially dirty we don't want to recalculate the
* // parent's dirtiness based on the children.
* const skipPristineCheck = this._parentMarkedDirty(opts.onlySelf);
* (this as{status: string}).status = VALID;
* this._forEachChild((control: AbstractControl) => {
* if (!control.enable({...opts, onlySelf: true})) {
* this._parent.updateValueAndValidity(opts);
* }
* this._updateAncestors({...opts, skipPristineCheck});
* this._onDisabledChange.forEach((changeFn) => changeFn(false));
* }
* }
* private _updateTouched(): void {
* this._parent && this._updateTouched();
* (this.valueChanges as EventEmitter<any>).emit(this.value);
* (this.statusChanges as EventEmitter<string>).emit(this.status);
* }
* private _cancelExistingSubscription(): void {
* if (this._asyncValidationSubscription) {
* this._asyncValidationSubscription.unsubscribe();
* }
* }
```

### Manually set the errors for a control
```javascript
* / */
* setErrors(errors: ValidationErrors|null, opts: {emitEvent?: boolean} = { }) : void {
* (this as{errors: ValidationErrors | null}).errors = errors;
* this._updateControlsErrors(opts.emitEvent !== false);
* }
```

### Retrieve a nested control
```javascript
* / */
* this.form.get('person.name');
* ```

get(path: Array<string|number>|string): AbstractControl|null {
  return _find(this, path, '.');
}

getError(errorCode: string, path?: Array<string|number>|string): any {
  const control = path ? this.get(path) : this;
  return control && control.errors ? control.errors[errorCode] : null;
}

hasError(errorCode: string, path?: Array<string|number>|string): boolean {
  return !!this.getError(errorCode, path);
}

root(): AbstractControl {
  let x: AbstractControl = this;

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

  return x;
}

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

  if (emitEvent) {
    (this.statusChanges as EventEmitter<string>).emit(this.status);
  }

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

_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;
}

_private._updateValue(): void;

_private._forEachChild(cb: Function): void;

_private._anyControls(condition: Function): boolean;

_private._allControlsDisabled(): boolean;

_private._syncPendingControls(): boolean;

_private._anyControlsHaveStatus(status: string): boolean {
  return this._anyControls((control: AbstractControl) => control.status === status);
}

_private._updatePristine(opts: {onlySelf?: boolean} = {}): void {
  (this as {pristine: boolean}).pristine = !this._anyControlsDirty();

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

_private._updateTouched(opts: {onlySelf?: boolean} = {}): void {
  (this as {touched: boolean}).touched = this._anyControlsTouched();

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

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

_registerOnCollectionChange(fn: () => void): void {
  this._onCollectionChange = fn;
}

_setUpdateStrategy(opts?: ValidatorFn|ValidatorFn[]|AbstractControlOptions|null): void {
  if (isOptionsObj(opts)) {
    if (!opts.equals) {
      this._onCollectionChange = fn;
      this._updateValueStrategy = (fn: () => void) => void {
        this._onCollectionChange = fn;
      };
    }
  }
}

get(path: Array<string|number>|string): AbstractControl|null {
  return _find(this, path, '.');
}

getError(errorCode: string, path?: Array<string|number>|string): any {
  const control = path ? this.get(path) : this;
  return control && control.errors ? control.errors[errorCode] : null;
}

hasError(errorCode: string, path?: Array<string|number>|string): boolean {
  return !!this.getError(errorCode, path);
}

root(): AbstractControl {
  let x: AbstractControl = this;

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

  return x;
}

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

  if (emitEvent) {
    (this.statusChanges as EventEmitter<string>).emit(this.status);
  }

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

_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;
}

_private._updateValue(): void;

_private._forEachChild(cb: Function): void;

_private._anyControls(condition: Function): boolean;

_private._allControlsDisabled(): boolean;

_private._syncPendingControls(): boolean;

_private._anyControlsHaveStatus(status: string): boolean {
  return this._anyControls((control: AbstractControl) => control.status === status);
}

_private._updatePristine(opts: {onlySelf?: boolean} = {}): void {
  (this as {pristine: boolean}).pristine = !this._anyControlsDirty();

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

_private._updateTouched(opts: {onlySelf?: boolean} = {}): void {
  (this as {touched: boolean}).touched = this._anyControlsTouched();

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

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

_registerOnCollectionChange(fn: () => void): void {
  this._onCollectionChange = fn;
}

_setUpdateStrategy(opts?: ValidatorFn|ValidatorFn[]|AbstractControlOptions|null): void {
  if (isOptionsObj(opts)) {
    if (!opts.equals) {
      this._onCollectionChange = fn;
      this._updateValueStrategy = (fn: () => void) => void {
        this._onCollectionChange = fn;
      };
    }
  }
}
AbstractControlOptions).updateOn != null) {
      this._updateOn = (opts as AbstractControlOptions).updateOn != null ? (opts as AbstractControlOptions).updateOn !:
  }

  /**
   * Check to see if parent has been marked artificially dirty.
   * @internal
   */
  private _parentMarkedDirty(onlySelf?: boolean): boolean {
    const parentDirty = this._parent && this._parent.dirty;
    return onlySelf && parentDirty && (!!this._parent._anyControlsDirty());
  }

  /**
   * 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. @see `AbstractControl` @see [Reactive Forms Guide](guide/reactive-forms) @see [Usage Notes](#usage-notes)

  */
export class FormControl extends AbstractControl {
  /** @internal */
  _onChange: Function[] = [];

  /**
  * Creates a new `FormControl` instance.
  *
  * @param formState Initializes the control with an initial value, or an object that defines the initial value and disabled state. Use an options object. An `AbstractControlOptions` object contains validation functions and a validation trigger.
  *
  * @param validatorOrOpts A synchronous validator function, or an array of such functions, or an `AbstractControlOptions` object that contains validation functions and a validation trigger.
  *
  * @param asyncValidator A single async validator or array of async validator functions.
  *
  */
  constructor(
      formState: any = null,
      validatorOrOpts?: ValidatorFn|ValidatorFn[]|AbstractControlOptions|null,
      asyncValidator?: AsyncValidatorFn|AsyncValidatorFn[]|null) {
    super(coerceToValidator(validatorOrOpts),
      coerceToAsyncValidator(asyncValidator, validatorOrOpts));
    this._applyFormState(formState);
    this._setUpdateStrategy(validatorOrOpts);
    this.updateValueAndValidity({onlySelf: true, emitEvent: false});
  }

  /**
   * 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 `updateValueAndValidity` method.
   */
  setDefaultOptions(options: any) {
    this._applyUpdateStrategy(options);
    this.updateValueAndValidity(options);
event to
* update the view.

 * `emitViewToModelChange`: When true or not supplied (the default), each change triggers an
* `ngModelChange` * event to update the model.

* * options: *

  * `onlySelf?`: boolean, `emitEvent?`: boolean, `emitModelToViewChange?`: boolean,

* `emitViewToModelChange?`: boolean

  * } = { });

  * void { (this as {value: any}).value = this._pendingValue = value;

  * if (this._onChange.length & & options.emitModelToViewChange !== false) {

  * in this._onChange.forEach((changeFn) => changeFn(this.value, options.emitViewToModelChange !== false));

  * in this.updateValueAndValidity(options); }

  * */

  * setValue(value: any, options: {

  * onlySelf?: boolean, `emitEvent?`: boolean, `emitModelToViewChange?`: boolean,

  * `emitViewToModelChange?`: boolean

  * } = {});

  * void { (this as {value: any}).value = this._pendingValue = value; in this.setValue(value, options);

  * if (this._onChange.length & & options.emitModelToViewChange !== false) {

  * this._onChange.forEach((changeFn) => changeFn(this.value, options.emitViewToModelChange !== false));

  * }

  * this.updateValueAndValidity(options);

  */

  /**

  * Patches the value of a control.

  * * `onlySelf`: When true, each change only affects this control, and not its

  * parent. Default is `false`.

  * * `emitEvent`: When true or not supplied (the default), both the `statusChanges`

  * and * `valueChanges` observables emit events with the latest status and value when the control is reset.

  * When false, no events are emitted.

  * * `reset` resets the form control, marking it `pristine` and `untouched`, and setting * the value to null.

  * * `setValue` sets the form control to the given value, or

  * an object that defines the initial value and disabled state.

  * * `updateValueAndValidity` updates the value and validity state of a `FormControl` instance.

  * * `updateValueAndValidity` updates the value and validity state of a `FormGroup` or `FormArray`.

  * * `updateValueAndValidity` updates the value and validity state of a `FormArray`.

  */

  /**

  * @internal

  */

  _anyControls(condition: Function): boolean { return false; }

  /**

  * @internal

  */

  _allControlsDisabled(): boolean { return this.disabled; }

  /**

  * Register a listener for change events.

  * * `fn` The method that is called when the value

  * changes.

  */

  registerOnChange(fn: Function): void { this._onChange.push(fn); }

  /**

  * @internal

  */

  _clearChangeFns(): void {

  this._onChange = []; this._onDisabledChange = []; this._onCollectionChange = () => {};

  };

  /**

  * Register a listener for disabled events.

  * * `fn` The method that is called when the disabled status changes.

  */

  registerOnDisabledChange(fn: (isDisabled: boolean) => void): void {

  this._onDisabledChange.push(fn);

  };

  /**

  * Register a listener for collection change events.

  * * `fn` The method that is called when the status of a collection of `FormControls`

  * changes.

  */

  registerOnCollectionChange(fn: (isDisabled: boolean) => void): void {

  this._onCollectionChange.push(fn);

  };

  /**

  * `FormGroup` tracks the value and validity state of a group of `FormControl` instances.

  * * `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.

  * * `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.

  * * `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.
```javascript
const form = new FormGroup({
  password: new FormControl('', Validators.minLength(2)),
  passwordConfirm: new FormControl('', Validators.minLength(2)),
}, passwordMatchValidator);

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. In this example, we set validators and async validators for the password and passwordConfirm controls.

```
as setting the value of a control that doesn't exist or if you exclude a value of a control that does exist.

**@param value** The new value for the control that matches the structure of the group.

**@param options**

Configuration options that determine how the control propagates changes and emits events after the value changes.

The configuration options are passed to the `{@link 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.

Options:

- `onlySelf?: boolean, emitEvent?: boolean` = {};

```typescript
void { this._checkAllValuesPresent(value); this.controls[name].setValue(value[name], { onlySelf: true, emitEvent: options.emitEvent }); }
```

### Patch the value for a form group

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

```typescript
form.patchValue({
  first: 'name',
  last: 'last name'
});
```

### Reset the form group values and disabled status

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

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

As shown in the code snippet, the `setValue`, `patchValue`, and `reset` methods in the `AbstractControl` class are responsible for updating the value of a control, patching the value for a form group, and resetting the form group respectively. Each of these methods takes a value and options as parameters, allowing for fine-grained control over how changes are propagated and events are emitted.
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result in strange and unexpected behavior such as broken change detection.

@publicApi
export

Methods in `FormArray` itself. These methods ensure the controls are properly tracked in the form's hierarchy. Do not modify the array of `AbstractControl`s used to instantiate the `FormArray` directly, as that

```ts
new FormArray([new FormControl()], {updateOn: 'blur'});
```

### Adding or removing

The options object is used to set a default value for the updateOn property for all controls in a form array.

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

### Set

The two types of validators are passed in separately as the second and third arg

```ts
arr.value;   // ['Nancy', 'Drew']
arr.status;  // 'VALID'
```

### Create a form

console.log(arr.value);   // ['Nancy', 'Drew']
console.log(arr.status);  // 'VALID'

### Create an array of form controls

The aggregate value of the `FormGroup`, including any disabled controls.

* Retrieves all values regardless of disabled status.

* The `value` property is the best way to get the value of the group, because

  * it excludes disabled controls in the `FormGroup`.

* ` FormGroup` instances.

* A `FormArray` aggregates the values of each child `FormControl` into an array. It calculates its status by reducing the status values of its children. For example, if one of the controls in a `FormArray` is invalid, the entire array becomes invalid.

* ` FormArray` is one of the three fundamental building blocks used to define forms in Angular.

* along with `FormControl` and `FormGroup`.

* using ngModel.

* you may want to check next tick (e.g. use setTimeout).
class FormArray extends AbstractControl {
  /**
   * Creates a new `FormArray` instance.
   *
   * @param controls An array of child controls. Each child control is given an index
   * where it is registered.
   * @param validatorOrOpts A synchronous validator function, or an array of such functions, or an
   * `AbstractControlOptions` object that contains validation functions and a validation trigger.
   * @param asyncValidator A single asynchronous validator or array of asynchronous validator functions
   * @param constructor parameters controls: AbstractControl[], validatorOrOpts?: ValidatorFn|ValidatorFn[], AbstractControlOptions,null,
   * asyncValidator?: AsyncValidatorFn|AsyncValidatorFn[], null })
   */
  constructor(
      public controls: AbstractControl[],
      validatorOrOpts?: ValidatorFn|ValidatorFn[]|AbstractControlOptions|null,
      asyncValidator?: AsyncValidatorFn|AsyncValidatorFn[]|null) {
    super(coerceToValidator(validatorOrOpts),
          coerceToAsyncValidator(asyncValidator, validatorOrOpts));
  }

  /**
   * Get the `AbstractControl` at the given `index` in the array.
   *
   * @param index Index in the array to retrieve the control
   */
  at(index: number): AbstractControl { return this.controls[index]; }

  /**
   * Insert a new `AbstractControl` at the given `index` in the array.
   *
   * @param control Form control to be inserted
   */
  push(control: AbstractControl): void {
    this.controls.push(control);
    this._registerControl(control);
    this.updateValueAndValidity();
  }

  /**
   * Insert a new `AbstractControl` at the given `index` in the array.
   *
   * @param index Index in the array to insert the control
   * @param control Form control to be inserted
   */
  insert(index: number, control: AbstractControl): void {
    this.controls.splice(index, 0, control);
    this._registerControl(control);
    this.updateValueAndValidity();
  }

  /**
   * Remove the control at the given `index` in the array.
   *
   * @param index Index in the array to remove the control
   */
  removeAt(index: number): void {
    if (this.controls[index]) this.controls[index]._registerOnCollectionChange(() => {});
    this.controls.splice(index, 1);
    this.updateValueAndValidity();
  }

  /**
   * Replace an existing control.
   *
   * @param index Index in the array to replace the control
   * @param control The `AbstractControl` control to replace the existing control
   */
  setControl(index: number, control: AbstractControl): void {
    if (this.controls[index]) this.controls[index]._registerOnCollectionChange(() => {});
    this.controls.splice(index, 1);
    if (control) {
      this.controls.splice(index, 0, control);
      this._registerControl(control);
    }
    this.updateValueAndValidity();
    this._onCollectionChange();
  }

  /**
   * Length of the control array.
   */
  get length(): number { return this.controls.length; }

  /**
   * Sets the value of the `FormArray`. It accepts
   * an array that matches
   * the structure of the control.
   *
   * This method performs strict checks, and throws an
   * error if you try to set the value of a control that doesn't exist or if you exclude the
   * * value of a control
   */
  setValue(value: any[], options: {onlySelf?: boolean, emitEvent?: boolean} = {}): void {
    this._checkAllValuesPresent(value);
    value.forEach((newValue: any, index: number) => {
      this._throwIfControlMissing(index);
      this.at(index).setValue(newValue, {onlySelf: true, emitEvent: false});
    });
    this.updateValueAndValidity(options);
  }

  /**
   * Patches the value of the `FormArray`. It accepts an array that matches
   * the structure of the control.
   *
   * This method performs strict checks, and throws an
   * error if you try to set the value of a control that doesn't exist or if you exclude the
   * * value of a control
   */
  patchValue(value: any[], options: {onlySelf?: boolean, emitEvent?: boolean} = {}): void {
    this._checkAllValuesPresent(value);
    value.forEach((newValue: any, index: number) => {
      this._throwIfControlMissing(index);
      this.at(index).patchValue(newValue, options);
    });
    this.updateValueAndValidity(options);
  }

  /**
   * Checks all values present in the form array
   */
  _checkAllValuesPresent(value: any[]): boolean {
    if (!value) return false;
    for (let i = 0; i < value.length; i++) {
      if (value[i] === null) {
        return false;
      }
    }
    return true;
  }

  /**
   * Throws an error if a control is missing
   */
  _throwIfControlMissing(index: number): void {
    if (!(this.controls[index] instanceof AbstractControl)) {
      const arr = new FormArray([new FormControl(), new FormControl()]);
      console.log(arr.value);
      // [null, null]
      arr.push(new FormControl());
      arr.push(new FormControl());
      const control = new FormControl();
      arr.insert(1, control);
      arr.removeAt(1);
      arr.setControl(1, control);
      arr._onCollectionChange();
      arr.setValue([null, null], {onlySelf: true, emitEvent: false});
      arr.patchValue([null, null], {onlySelf: true, emitEvent: false});
    }
  }
}

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options that determine how the control propagates changes and
* emits events after the value changes
* `onlySelf`: When true, each change only affects this control, and not its parent. Default is false.
* `emitEvent`: When true or not supplied (the default), both the `statusChanges` and
* `valueChanges` observables emit events with the latest status and value when the control value is updated.
* When false, no events are emitted.
* The configuration options are passed to the `AbstractControl#updateValueAndValidity` method.
* `patchValue(value: any[], options: {onlySelf?: boolean, emitEvent?: boolean} = {}): void`:
  * `value.forEach((newValue: any, index: number) => {
    if (this.at(index)) {
      this.at(index).patchValue(newValue, {onlySelf: true, emitEvent: options.emitEvent});
    }
  });
  * `this.updateValueAndValidity(options);`
* `/* * @usageNotes
  * @param value Array of values for the controls
  * @param options Configure options that determine how the control propagates changes and
  * emits events after the value changes
  * `onlySelf`: When true, each change only affects this control, and not its parent. Default is false.
  * `emitEvent`: When true or not supplied (the default), both the `statusChanges` and
  * `valueChanges` observables emit events with the latest status and value when the control is reset.
  * When false, no events are emitted.
* `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);`;
* `/* * @usageNotes
  * @param value Array of values for the controls
  * @param options Configure options that determine how the control propagates changes and
  * emits events after the value changes
  * `onlySelf`: When true, each change only affects this control, and not its parent. Default is false.
  * `emitEvent`: When true or not supplied (the default), both the `statusChanges` and
  * `valueChanges` observables emit events with the latest status and value when the control is reset.
  * When false, no events are emitted.
* `getRawValue(): any[]`:
  * `this.controls.map((control: AbstractControl) => {
    return control.instanceof FormControl ? control.value : (<any>control).getRawValue();
  });`
* `clear(): void`:
  * `if (this.controls.length < 1) return;
  * this._forEachChild((control: AbstractControl) => control._registerOnCollectionChange(() => {}));
  * this.controls.splice(0);
  * this.updateValueAndValidity();`
* `_syncPendingControls(): boolean`:
  * `let subtreeUpdated = this.controls.reduce((updated: boolean, child: AbstractControl) => {
    return child._syncPendingControls() ? true : updated;
  }, false);
  * if (subtreeUpdated) {
    this.updateValueAndValidity();
  }`
* `_throwIfControlMissing(index: number): void`:
  * `throw new Error(’There are no form controls registered with this array yet. If you’re using ngModel, you may want to check next tick (e.g. use setTimeout)’);`
* `this.controls.filter((control: AbstractControl) => control.enabled);`
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```typescript
|| this.disabled)
            .map((control) => control.value);
  }

  /** @internal */
  _anyControls(condition:
    Function): boolean { return this.controls.some((control: AbstractControl) => control.enabled &&
condition(control)); }

  /** @internal */
  _setUpControls(): void {
    this._forEachChild((control: AbstractControl) => this._registerControl(control));
  }

  /** @internal */
  _checkAllValuesPresent(value:
    any): void {
    this._forEachChild((control: AbstractControl, i: number) => {
      if (value[i] === undefined) {
        throw new Error(`Must supply a value for form control at index: ${i}.`);
      }
    });
  }

  /** @internal */
  _allControlsDisabled(): boolean {
    for (const control of this.controls) {
      if (control.enabled) return false;
    }
    return this.controls.length > 0 || this.disabled;
  }

  private _registerControl(control: AbstractControl) {
    control.setParent(this);
    control._registerOnCollectionChange(this._onCollectionChange);
  }
}
```

```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 {AfterViewInit,
  Directive, EventEmitter, Inject, Input, Optional, Self, forwardRef} from '@angular/core';

import {AbstractControl, FormControl, FormGroup, FormHooks} from '../model';
import {NG_ASYNC_VALIDATORS, NG_VALIDATORS} from '../validators';
import {ControlContainer, FormContainer} from './control_container';
import {Form} from './form_interface';
import {NgControl, NgModel} from './ng_control';
import {NgModelGroup} from './ng_model_group';
import {composeAsyncValidators, composeValidators, removeDir, setUpControl, setUpFormContainer, syncPendingControls} from './shared';

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

const resolvedPromise = (()
  => Promise.resolve(null))();

/**
 * @description
 * Creates a top-level `FormGroup` instance and binds it to a
 * form to track aggregate form value and validation status.
 *
 * As soon as you import the `FormsModule`, this
 * directive becomes active by default on all `<form>` tags.  You don't need to add a special selector.
 * You optionally export the directive into a local template variable using `ngForm` as the key
 * (ex: `#myForm="ngForm"`). This is optional, but useful.  Many properties from the underlying `FormGroup`
 * instance are duplicated on the directive itself, so a reference to it gives you access to the aggregate value
 * and validity status of the form, as well as user interaction properties like `dirty` and `touched`.
 * To register child controls with the form, use `NgModel` with a `name` attribute. You may use `NgModelGroup` to create
 * sub-groups within the form.
 * 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 would 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 
*    <input name="one" ngModel>  <!-- this ngModel will update on blur -->
 * </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>` element whenever
 * a `FormModule` or `ReactiveFormsModule` is imported into the application.
 * You can add the `ngNativeValidate` attribute to the `<form>` element to explicitly enable
 * native DOM validation UI with Angular forms.
 *
 * ```html
* <form ngNativeValidate>
* ...<input name="one" ngModel>  <!-- thisNgModel will update on blur -->
* </form>
* ```
```
The `FormGroup` instance created for this form.

Event emitter for the `\ngSubmit\` event.

Tracks options for the `NgForm` instance.

Possible values: "change" | "blur" | "submit".

`@Input('ngFormOptions')` options if the view is initialized. For internal use only.

Internal `FormGroup` instance.

The `FormDirective` instance.

`AbstractControl`.

The `FormGroup` for a provided `NgModelGroup` directive instance.

Sets the new value for the provided `NgControl` directive.

Sets the new value for the directive's control.

`FormGroup`.

Method called when the `\ngSubmit\` event is triggered on the form.

Method called when the `\ngSubmit\` event is triggered on the form.

Sets the default `updateOn` value for all child `NgModels` below it unless explicitly set by a child `NgModel` using `ngModelOptions`.

Lifecyle method called after the view is initialized. For internal use only.

Returns a map of the controls in this group.

Returns an array representing the path to this group.

Always lives at the top level of a form, it is always an empty array.

Returns a map of the controls in this group.

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.

Returns a map of the controls in this group.

Method called when the "reset" event is triggered on the form.

Method called when the "submit" event is triggered on the form.

Sets the new value for the provided 'NgControl' directive.

Sets the new value for the directive's control.

Sets the default `updateOn` value for all child `NgModel` instances.

Sets the default `updateOn` value for all child `NgModel` instances.
this.resetForm();

/**
 * @description
 * Resets the form to an initial value and resets its submitted status.
 */
this.resetForm(value: any = undefined): void {
  this.form.reset(value);
  this.form.setSubmitted(false);
  this.private_setUpdateStrategy(null, null, this.options.params.options.updateOn != null);
}

/**
 * @description
 * Resets the form to an initial value and resets its submitted status.
 */
this.resetForm(this.options.params.options.updateOn);
strategy). Option 2: Use a regular form tag instead of the formGroup directive (template-driven strategy).

```
${Examples.ngModelGroup}  

```

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```
import {Directive, Host, Inject, Inject, Input, OnInit, Optional, Self, SkipSelf, forwardRef} from '@angular/core';

/**
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 */

import {AbstractFormGroupDirective, NG_ASYNC_VALIDATORS, NG_VALIDATORS} from '@angular/forms';
import {ControlContainer} from './control_container';
import {NgForm} from './ng_form';
import {TemplateDrivenErrors} from './template_driven_errors';

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

/**
 * @description
 * Creates and binds a `FormGroup` instance to a DOM element.
 *
 * This directive can only be used as a child of `NgForm` (within `<form>` tags).
 *
 * Use this directive to validate a sub-group of your form separately from the main * rest of your form, or if some values in your domain model make more sense to consume together in a nested object.
 *
 * Provide a name for the sub-group and it will become the key for the sub-group in the form's full value. If you need direct access, export the directive into a local template variable using `ngModelGroup` (ex: `#myGroup="ngModelGroup"`).
 *
 * @usageNotes
 *
 * ### Consuming controls in a grouping
 *
 * The following example shows you how to combine controls together in a sub-group of the form. This directive can only be used as a child of `NgForm` (within `<form>` tags). This can be found in the LICENSE file at https://angular.io/license

```
${Examples.formGroupName}

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

```
${Examples.ngModelGroup}  

```

```
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 */

import {Directive, EventEmitter, Host, Inject, Input, OnChanges, OnDestroy, Optional, Output, Self, SimpleChanges, forwardRef} from '@angular/core';

import {FormControl, FormHooks} from '../model';
import {NG_ASYNC_VALIDATORS, NG_VALIDATORS} from '../validators';

import {AbstractFormGroupDirective} from './abstract_form_group_directive';
import {ControlContainer} from './control_container';
import {ControlValueAccessor, NG_VALUE_ACCESSOR} from './control_value_accessor';
import {NgControl} from './ng_control';
import {NgForm} from './ng_form';
import {NgModelGroup} from './ng_model_group';
import {composeAsyncValidators, composeValidators, controlPath, isPropertyUpdated, selectValueAccessor, setUpControl} from './shared';
import {TemplateDrivenErrors} from './template_driven_errors';
import {AsyncValidator, AsyncValidatorFn, Validator, ValidatorFn} from './validators';

export const formControlBinding: any = {
  provide: NgControl,
  useExisting: forwardRef(() => NgModel)
};

/**
 * @description
 * Creates a `FormControl` instance from a domain model and
binder to 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 control. This directive is used by itself or as part of a larger form. Use the `FormControl` 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 class sets the value in the view. If you have a two-way binding with `[[]]` syntax, the value in the UI always syncs back to the domain model in your class. To inspect the properties of the associated `FormControl` (like validity state), 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 used (like `valid` and `dirty`) fall through to the control anyway for direct access. See a full list of properties directly available in `AbstractControlDirective`. Use the `NgModel` selector to activate it. It accepts a domain model as an optional `Input`. If you have a one-way binding with `[]` syntax, changing the value of the domain model in the component class sets the value in the view. The following example shows a simple standalone control using `ngModel`:

```
<ngModel name="login" ngModel [ngModelOptions]="{standalone: true}">
  \<input name="login" ngModel placeholder="Login">
  \<input type="checkbox" ngModel [ngModelOptions]="{standalone: true}"> Show more options?
</ngModel>
```

```
```
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['disabled'].currentValue;
  const isDisabled = disabledValue !== '';

  if (isDisabled && !this.control.disabled) {
    this.control.enable();
  } else if (isDisabled && this.control.disabled) {
    this.control.disable();
  }
}

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 */

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

/**
 * @description
 * Adds `novalidate` attribute to all forms by default.
 *
 * `novalidate` is used to disable browser’s native form validation.
 * If you want to use native validation with Angular forms, just add `ngNativeValidate` attribute:
 *
 * ```
 * <form ngNativeValidate></form>
 * ```
 *
 * @publicApi
 * @ngModule ReactiveFormsModule
 * @ngModule FormsModule
 */
@Directive({
  selector: 'form:not([ngNoForm]):not([ngNativeValidate])',
  host: {'novalidate': ''},
})
export class ɵNgNoValidate {
}

export {ɵNgNoValidate as NgNoValidate};

/**
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 */

import {Directive, EventEmitter, Inject, InjectionToken, Input, OnChanges, Optional, Output, Self, SimpleChanges, forwardRef} from '@angular/core';

import {FormControl} from '../../model';
import {NG_ASYNC_VALIDATORS, NG_VALIDATORS} from '../../validators';
import {ControlValueAccessor, NG_VALUE_ACCESSOR} from '../control_value_accessor';
import {NgControl} from '../ng_control';
import {ReactiveErrors} from '../reactive_errors';
import {_ngModelWarning, composeAsyncValidators, composeValidators, isPropertyUpdated, selectValueAccessor, setUpControl} from '../shared';
import {AsyncValidator, AsyncValidatorFn, Validator, ValidatorFn} from '../validators';

/**
 * Token to provide to turn off the ngModel warning on formControl and formControlName.
 */
export const NG_MODEL_WITH_FORM_CONTROL_WARNING = new InjectionToken('NgModelWithFormControlWarning');

export const formControlBinding: any = {
  provide: NgControl,
  useExisting: forwardRef(() => FormControlDirective)
};

/**
 * Syncs a standalone `FormControl` instance to a form control element.
 *
 * @see [Reactive Forms Guide](guide/reactive-forms)
 * @see `FormControl`
 * @see `AbstractControl`
 *
 * @usageNotes
 *
 * The following examples shows how to register a standalone control and set its value:
 *
 * ```
 * { @example forms/ts/simpleFormControl/simple_form_control_example.ts region='Component'}
 * ```
 *
 * Now deprecated:
 *
 * ```html
 * <input [formControl]='control' [ngModel]='value'>
 * ```
 *
 * This has been deprecated for a few reasons. First, developers have found it 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` layer in the class removes the convenience of defining forms in the template.
 *
 * To update your code before support is removed, you'll want to decide whether to stick with reactive form directives (and get/set values using reactive forms patterns) or switch over to template-driven directives.
[formControl]:=""control"">

<table>
<thead>
<tr>
<th>Line</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1-6</td>
<td>Function calls with arguments and return types.</td>
</tr>
<tr>
<td>7-8</td>
<td>Returns an array that represents the path from the top-level form to this control.</td>
</tr>
<tr>
<td>9-10</td>
<td>Each index is the string name of the control on that level.</td>
</tr>
<tr>
<td>11-12</td>
<td>Synchronous validator function composed of all the synchronous validators registered with this directive.</td>
</tr>
<tr>
<td>13-14</td>
<td>The 'FormControl' bound to this directive.</td>
</tr>
<tr>
<td>15-16</td>
<td>Gets the new value for the view model and emits an 'ngModelChange' event.</td>
</tr>
</tbody>
</table>

The code snippet is part of the Angular framework, specifically related to the Reactive Forms module and handling form control directives. It includes functionality for managing form controls, including setting values, tracking changes, and handling validations. The code is designed to work seamlessly with Angular's template-driven form approach, providing a robust framework for form management in web applications.
**/n        viewToModelUpdate(newValue: any): void { n        this.viewModel = newValue;n
        this.update.emit(newValue);n            private _isControlChanged(changes: {[key: string]: any}): boolean {
        return changes.hasOwnProperty('form');n            }n            /""*/n * @license

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*/n          }
*/n
*/n
*/n
textual content
void { removeDir<FormControlName>(this.directives, dir); }/**
 * Adds a new `FormControlName` directive instance to the form.
 * @param dir The `FormControlName` directive instance.
 * @param value The new value for the directive's control.
 * @param value The new value for the form.
 */

addFormGroup(dir: FormGroupName): void { const ctrl: any = 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.
 */

removeFormGroup(dir: FormGroupName): void { removeDir<FormControlName>(this.directives, dir); }

/**
 * Adds a new `FormArrayName` directive instance to the form.
 * @param dir The `FormArrayName` directive instance.
 */

addFormArray(dir: FormArrayName): void { const ctrl: any = this.form.get(dir.path); setUpFormContainer(ctrl, dir); ctrl.updateValueAndValidity({emitEvent: false}); }

/**
 * No-op method to remove the form array.
 * @param dir The `FormArrayName` instance.
 */

removeFormArray(dir: FormArrayName): void {

/**
 * @description
 * Retrieves the ` FormGroupName` for a provided `FormGroupName` directive instance.
 * @param dir The `FormGroupName` directive instance.
 */

getFormGroup(dir: FormGroupName): FormGroup {
  return this.form.get(dir.path);
}

/**
 * @description
 * 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;
}

/**
 * @description
 * 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
 * @param {string} path
 */

updateDomValue(): void {

  private _checkFormPresent(): void {
    if (!this.form) {
      ReactiveErrors.missingFormException();
    }
  }

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

  private _updateValidators(): void {
    const sync = composeValidators(this._validators);
    this.form.validator = Validators.compose([this.form.validator!, sync!]);
    const async = composeAsyncValidators(this._asyncValidators);
    this.form.asyncValidator = Validators.compose([this.form.asyncValidator!, async!]);
  }

  private _updateDomValue(): void {
    this.directives.forEach(dir => {
      const newCtrl: any = this.form.get(dir.path);
      if (dir.control !== newCtrl) {
        cleanUpControl(dir.control, dir);
        if (newCtrl) setUpControl(newCtrl, dir);
        (dir as { control: FormControl }).control = newCtrl;
      }
    });
    this.form._updateTreeValidity({emitEvent: false});
  }

  export const FormGroupNameProvider: any = {
    provide: ControlContainer,
    useExisting: forwardRef(() => FormGroupName)
  };
`FormGroup` to link, and *name* looks for a `FormGroup` registered with that name in the parent. Use nested form groups to validate a sub-group of a form separately from the rest or to group the values of certain controls into their own nested object.

The following example uses the `FormGroup` and `FormArray` to validate a sub-group of a form separately from the rest or to group the values of certain controls into their own nested object.

```typescript
this.form.get(name).value
```

### Access individual controls in the group

The following example uses the `FormGroup` and `FormArray` to validate a sub-group of a form separately from the rest or to group the values of certain controls into their own nested object.

```typescript
this.form.get(name.first)
```

### Register a nested `FormGroup`.

The following example registers a nested `FormGroup` within an existing `FormGroup` and adds methods to retrieve the nested `FormGroup` and individual controls.

```typescript
 FormGroupDirective
```

### Access the group by name

The following example uses the `FormGroup` and `FormArray` to validate a sub-group of a form separately from the rest or to group the values of certain controls into their own nested object.

```typescript
this.form.get(name.first)
```

### Access individual controls in the group

The following example uses the `FormGroup` and `FormArray` to validate a sub-group of a form separately from the rest or to group the values of certain controls into their own nested object.

```typescript
this.form.get(name.first)
```

### Register a nested `FormGroup`.

The following example registers a nested `FormGroup` within an existing `FormGroup` and adds methods to retrieve the nested `FormGroup` and individual controls.

```typescript
FormGroupName
```

### Register a nested `FormGroup`.

The following example registers a nested `FormGroup` within an existing `FormGroup` and adds methods to retrieve the nested `FormGroup` and individual controls.

```typescript
FormGroupDirective
```

- **FormGroupNameProvider**
- **FormArrayNameProvider**
**FormGroupDirective**

*The top-level directive for this group if present, otherwise null. An get formDirective():

```typescript
FormGroupDirective|null {
  return this._parent ? <FormGroupDirective>this._parent.formDirective : null;
} `* +

* @description * @property

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

```typescript
path(): string[] {
  return controlPath(this.name == null ? this.name : this.name.toString(), this._parent);
```

* Synchronous validator function composed of all the synchronous validators registered with this directive.

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

* Async validator function composed of all the async validators registered with this directive.

```typescript
asyncValidator(): AsyncValidatorFn|null {
  return composeAsyncValidators(this._asyncValidators);
```

* This directive.

```typescript
private _checkParentType(): void {
  if (_hasInvalidParent(this._parent)) {
    ReactiveErrors.arrayParentException();
  }
```

* This directive.

```typescript
function _hasInvalidParent(parent: ControlContainer): boolean {
  return !(parent instanceof FormGroupName) && !(parent instanceof FormGroupDirective) &&
```

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* `FormControl`

* `AbstractFormGroupDirective`

* `ControlContainer`

* `ControlValueAccessor`

* `NgControl`

* `ReactiveErrors`

* `AbstractControl`

* `RadioControlValueAccessor`

* `SelectControlValueAccessor`

* `FormsModule`

* `@Directive`
<form [formGroup]="form">
  <input formControlName="first">
</form>

```ts
this.form.get('first').setValue('some value');
```
any { return this._parent ? this._parent.formDirective : null; }\n/*\n * @description
 * Synchronous validator function composed of all the synchronous validators
 * registered with this directive.\n */\n\n/*\n * get\n */\nValidatorFn\nnull { return composeValidators(this._rawValidators); }\n/*\n * @description
 * Async validator function composed of all the async validators registered with this\n * directive.\n */\n\n/*\n * get\n */\nAsyAsyncValidatorFn\nnull { return composeAsyncValidators(this._rawAsyncValidators) !; }\n\nprivate _checkParentType(): void {\n  if (!(this._parent instanceof FormGroupName) &&\n      this.parent instanceof AbstractFormGroupDirective) \n      new ReactiveErrors.ngModelGroupException();\n  }\n\nelse if (\n    !(this._parent instanceof FormGroupName) &&\n    !(this._parent instanceof FormGroupDirective) &&\n    !(this._parent instanceof FormArrayName) ) {\n      new ReactiveErrors.controlParentException();\n  }\n\nprivate _setUpControl() {\n  this._checkParentType();\n  (this as{control: FormControl}).control =\n    this.formDirective.addControl(this);\n    if (this.control.disabled &&\n      this.valueAccessor.setDisabledState) {\n      this.valueAccessor.setDisabledState !(true);\n    }\n    this._added = true;\n  }\n}*/

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

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

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

/**\n * @description\n * An interface implemented by classes\n * that perform synchronous validation.\n *\n * @usageNotes\n * The following example implements the `Validator` interface to create a\n * validator directive with a custom error key.\n */\n\n/*\n * @description\n */\nexport interface Validator {\n  /**\n   * @description\n   * Method that performs synchronous validation against the provided control.\n   *\n   * @param control The control to validate against.\n   *\n   * @returns A map of validation errors if validation fails,\n   * otherwise null.\n   */\n  validate(control: AbstractControl): ValidationErrors|null;\n
  /**\n   * @description\n   * Registers a callback function to call when the validator inputs change.\n   *\n   * @param fn The callback function\n   */\n  registerOnValidatorChange?(fn: () => void): void;\n}

/**\n * @description\n * An interface implemented\n * by classes that perform asynchronous validation.\n *\n * @usageNotes\n * The following example implements the `AsyncValidator` interface to create an\n * async validator\n * directive with a custom error key.\n */\n\n/*\n * @description\n */\nexport interface AsyncValidator extends Validator {\n  /**\n   * @description\n   * Method that performs async validation against the provided control.\n   *\n   * @param\n   * @returns\n   *\n   * @returns\n   */\n  validate(control: AbstractControl): Observable<ValidationErrors|null> {\n    return observableOf({'custom': true});\n  }\n}

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

/**\n * @description\n * Provider which adds `CheckboxRequiredValidator` to the `NG_VALIDATORS` multi-provider list.\n */
export const CHECKBOX_REQUIRED_VALIDATOR: StaticProvider = {
  provide: NG_VALIDATORS,
  useExisting: forwardRef(() => CheckboxRequiredValidator),
  multi: true\n};
Adding a required validator using template-driven forms

```javascript
<input name="fullName" ngModel required>
```
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 minimum length validation to controls marked with the
 * `minlength` attribute. The directive is provided with the `NG_VALIDATORS` multi-provider list.
 * @see [Form Validation](guide/form-validation)
 * @usableWith
 * @api
 */
export const MIN_LENGTH_VALIDATOR: any = {
  provide: NG_VALIDATORS,
  useExisting: forwardRef(() => MinLengthValidator),
  multi: true,
} as any

/**
 * A directive that adds maximum length validation to controls marked with the
 * `maxlength` attribute. The directive is provided with the `NG_VALIDATORS` multi-provider list.
 * @see [Form Validation](guide/form-validation)
 * @usableWith
 * @api
 */
export const MAX_LENGTH_VALIDATOR: any = {
  provide: NG_VALIDATORS,
  useExisting: forwardRef(() => MaxLengthValidator),
  multi: true,
} as any

// TODO(issue/24571): remove '!',
private _validator!: ValidatorFn;
private _onChange!: () => void;

/**
 * Tracks changes to the the minimum length bound to this directive.
 */
@Input() minlength!: string | number;

/**
 * Lifecycle method called when the directiv'e inputs change. For internal use
 * only.
 * @param changes A object of key/value pairs for the set of changed inputs.
 */
ngOnInitChanges(changes: SimpleChanges) { void { fn 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.
 * The callback function is:
 * @param fn The callback function
 */
registerOnValidatorChange(fn: () => void): void { this._onChange = fn; }

private _createValidator(): void { this._validator = Validators.minLength(
    typeof this.minlength === 'number' ?
    this.minlength : parseInt(this.minlength, 10));
}

/**
 * Tracks changes to the the maximum length bound to this directive.
 */
@Input() maxlength!: string | number;

/**
 * Lifecycle method called when the directiv'e inputs change. For internal use
 * only.
 * @param changes A object of key/value pairs for the set of changed inputs.
 */
ngOnInitChanges(changes: SimpleChanges) { void { fn if (maxlength in changes) { this._createValidator(); if (this._onChange) this._onChange(); } } }

/**
 * Method that validates whether the value exceeds the maximum length requirement.
 * Returns the validation result if enabled, otherwise null.
 */
validate(control: AbstractControl): ValidationErrors|null { return this.maxlength != null ? this._validator(control) : null; }

module.exports = {
  openSourceUsedInMSXvBranchServicePack3.9.0:
```
validator inputs change.

 */ @param fn The callback function */

 switchOnValidationChange(fn: () => void): void {
  this._onChange = fn;
  private _createValidator(): void {
    
    Validators.maxLength(
    typeof this.maxlength === 'number' ? this.maxlength : parseInt(this.maxlength, 10));
  }
}

 /**
 * Description
 * Adds `PatternValidator` to the `NG_VALIDATORS` multi-provider list.
 */

 export const PATTERN_VALIDATOR: any = {
  provide: NG_VALIDATORS,
  useExisting: forwardRef(() => PatternValidator),
  multi: true
};


 /**
 * Description
 * Adds regex pattern validation to controls marked with the
 * `pattern` attribute. The regex must match the entire
 * value. The directive is provided with the `NG_VALIDATORS` multi-provider list.
 */

 export class PatternValidator
 implements Validator,
    OnChanges {
  private _validator!: ValidatorFn;

  private _onChange!: () => void;

  /**
   * Description
   * Tracks changes to the pattern bound to this directive.
   */

  @Input() pattern!: string | RegExp;

  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);
  }
import {Injectable} from '@angular/core';

import {AsyncValidatorFn, ValidatorFn} from './directives/validators';
import {AbstractControl, AbstractControlOptions, FormArray, FormControl, FormGroup, FormHooks} from './model';

function isAbstractControlOptions(options: AbstractControlOptions | {[key: string]: any}): options is AbstractControlOptions {
}

/**
 * @description
 * Creates an `AbstractControl` from a user-specified configuration.
 *
 * The `FormBuilder` provides syntactic sugar that shortens creating instances of a `FormControl`,
 * `FormGroup`, or `FormArray`. It reduces the amount of boilerplate needed to build complex
 * forms.
 *
 * @see [Reactive Forms Guide](/guide/reactive-forms)
 *
 * @publicApi
 */
@Injectable()
export class FormBuilder {
  /**
   * @description
   * Construct a new `FormGroup` instance.
   *
   * @param controlsConfig A collection of child controls. The key for each child is the name
   * under which it is registered.
   *
   * @param options Configuration options object for the `FormGroup`. The object can have two shapes:
   * 1) `AbstractControlOptions` object (preferred), which consists of:
   *   * `validators`: A synchronous validator function, or an array of validator functions
   *   * `asyncValidators`: A single async validator or array of async validator functions
   *   * `updateOn`: The event upon which the control should be updated (options: 'change' |
   * `blur` | `submit`)
   * 2) Legacy configuration object, which consists of:
   *   * `validator`: A synchronous
   *   * `asyncValidator`: A single async validator or array of async validator functions
   * @see [Reactive Forms Guide](/guide/reactive-forms)
   */
  group(controlsConfig: {[key: string]: any}, options: AbstractControlOptions | {[key: string]: any} | null = null): FormGroup {
    const controls = this._reduceControls(controlsConfig);

    let validators: ValidatorFn | ValidatorFn[] | null = null;
    let asyncValidators: AsyncValidatorFn | AsyncValidatorFn[] | null = null;
    let updateOn: FormHooks | undefined = undefined;

    if (options != null) {
      if (isAbstractControlOptions(options)) {
        // `options` are `AbstractControlOptions`
        validators = options.validators != null ? options.validators : null;
        asyncValidators = options.asyncValidators != null ? options.asyncValidators : null;
      }
    }

    const formGroup = new FormGroup({
        name: 'myGroup',
        validators, asyncValidators, updateOn
      } as any);

    return formGroup;
  }
asyncValidators = options.asyncValidators != null ? options.asyncValidators : null;
else {
  // `options` are legacy form group
  validators = options['validator'] != null ? options['validator'] : null;
  asyncValidators = options['asyncValidator'] != null ? options['asyncValidator'] : null;
  return new FormGroup(controls, (asyncValidators, updateOn, validators));
}
/**
 * @description
 * Construct a new `FormControl` with the given state, validators and options.
 * @param {any} formState - Initializes the control with an initial state value,
 * or an object that contains both a value and a disabled status.
 * @param {abstractControlOptions} options
 * @param {ValidatorFn} asyncValidator
 * @param {ValidatorFn} validator
 * @param {AsyncValidatorFn} asyncValidator
 * @param {AsyncValidatorFn} validator
 * @return {FormControl}
 */
FormControl(formState, validatorOrOpts?, asyncValidator?): FormControl {
  return new FormControl(formState, validatorOrOpts, asyncValidator);
}

/**
 * Constructs a new `FormArray` from the given array of configurations, validators and options.
 * @param {any[]} controlsConfig - An array of child controls or control configs. Each child control
 * is given an index when it is registered.
 * @param {ValidatorFn} validatorOrOpts - A synchronous validator function, or an array of
 * such functions, or an `AbstractControlOptions` object that contains
 * validation functions and a validation trigger.
 * @param {AsyncValidatorFn} asyncValidator - A single async validator or array of async validators
 * @return {FormArray}
 */
FormArray(controlsConfig, validatorOrOpts, asyncValidator?): FormArray {
  const controls = controlsConfig.map(c =>
    this._createControl(c));
  return new FormArray(controls, validatorOrOpts, asyncValidator);
}

/**
 * @internal
 */
this._reduceControls(controlsConfig): {
  return controls;
}

/**
 * @internal
 */
this._createControl(controlConfig): AbstractControl {
  if (controlConfig instanceof FormControl
       || controlConfig instanceof FormGroup
       || controlConfig instanceof FormArray) {
    return controlConfig;
  }
  else if (Array.isArray(controlConfig)) {
    const value = controlConfig[0];
    const validator: ValidatorFn = controlConfig.length > 1 ? controlConfig[1] : null;
    return this.control(value, validator, asyncValidator);
  }
  return this.control(controlConfig);
}

/**
 * Exports the required providers and directives for template-driven forms,
 * making them available for import by NgModules that import this module.
 *
 * @see 
 */
export class FormsModule {
}

/**
 * Exports the required infrastructure and directives for reactive forms,
 * making them available for import by NgModules that import this
 */
export class ReactiveFormsModule {
}

/**
 * Exports the required providers and directives for reactive forms,
 * making them available for import by NgModules that import this
 */
export class FormsModule {
}
**@publicApi**

```typescript
@NgModule({
  declarations: [REACTIVE_DRIVEN_DIRECTIVES],
  providers: [FormControlBuilder, RadioControlRegistry],
  exports: [InternalFormsSharedModule, REACTIVE_DRIVEN_DIRECTIVES]
})
export class ReactiveFormsModule {
  /**
   * @description
   *
   * Provides options for configuring the reactive forms module.
   */
  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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TypeScript language service and during build for verification. `ngc`\n// replaces this file with production index.ts when it rewrites private symbol\n// names.\n\nexport * from `./public_api`;\n```
// replaces this file with production index.ts
when it rewrites private symbol\n// names.

export * from './public_api';
```
```javascript
/**
 * Generated bundle index. Do
 * not edit.
 */

export * from './index';

export {InternalFormsSharedModule as
  `ɵangular_packages_forms_forms_d`);
export {REACTIVE_DRIVEN_DIRECTIVES as
  `ɵangular_packages_forms_forms_c`);
export {SHARED_FORM_DIRECTIVES as
  `ɵangular_packages_forms_forms_b`);
export {TEMPLATE_DRIVEN_DIRECTIVES as
  `ɵangular_packages_forms_forms_a`);

export {CHECKBOX_VALUE_ACCESSOR as
  `ɵangular_packages_forms_forms_e`);
export {DEFAULT_VALUE_ACCESSOR as
  `ɵangular_packages_forms_forms_f`);
```

export {CHECKBOX_VALUE_ACCESSOR 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.f from`\n  `'./src/directives';\n\n```
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No license file was found, but licenses were detected in source scan.

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null
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Found in path(s):

`/opt/ws_local/PERMITS_SQL/1047774271_1590610393.22/0/forms-9-0-7-tgz/package/fesm5/forms.js.map`
return r;\r\n };\r\n\r\n function __await(v) {\r\n
return this instanceof __await ? (this.v = v, this) : new
__await(v);\r\n }\r\n\r\n function __asyncGenerator(thisArg, _arguments, generator) {\r\n
if
(!Symbol.asyncIterator) throw new TypeError(\"Symbol.asyncIterator is not defined.\");\r\n
var g =
generator.apply(thisArg, _arguments || []), i, q = [];\r\n
return i = {}, verb(\"next\"), verb(\"throw\"),
verb(\"return\"), i[Symbol.asyncIterator] = function () { return this; }, i;\r\n
function verb(n) { if (g[n]) i[n] =
function (v) { return new Promise(function (a, b) { q.push([n, v, a, b]) > 1 || resume(n, v); }); }; }\r\n
function
resume(n, v) { try { step(g[n](v)); } catch (e) { settle(q[0][3], e); } }\r\n
function step(r) { r.value instanceof
__await ? Promise.resolve(r.value.v).then(fulfill, reject) : settle(q[0][2], r); }\r\n
function fulfill(value) {
resume(\"next\", value); }\r\n
function reject(value) { resume(\"throw\", value); }\r\n
function settle(f, v) {
if (f(v), q.shift(), q.length) resume(q[0][0], q[0][1]); }\r\n }\r\n\r\n function __asyncDelegator(o) {\r\n
var i,
p;\r\n
return i = {}, verb(\"next\"), verb(\"throw\", function (e) { throw e; }), verb(\"return\"), i[Symbol.iterator]
= function () { return this; }, i;\r\n
function verb(n, f) { i[n] = o[n] ? function (v) { return (p = !p) ? { value:
__await(o[n](v)), done: n === \"return\" } : f ? f(v) : v; } : f; }\r\n }\r\n\r\n function __asyncValues(o) {\r\n
if (!Symbol.asyncIterator) throw new TypeError(\"Symbol.asyncIterator is not defined.\");\r\n
var m =
o[Symbol.asyncIterator], i;\r\n
return m ? m.call(o) : (o = typeof __values === \"function\" ? __values(o) :
o[Symbol.iterator](), i = {}, verb(\"next\"), verb(\"throw\"), verb(\"return\"), i[Symbol.asyncIterator] = function () {
return this; }, i);\r\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); }); }; }\r\n
function settle(resolve, reject, d, v) {
Promise.resolve(v).then(function(v) { resolve({ value: v, done: d }); }, reject); }\r\n }\r\n\r\n function
__makeTemplateObject(cooked, raw) {\r\n
if (Object.defineProperty) { Object.defineProperty(cooked, \"raw\",
{ value: raw }); } else { cooked.raw = raw; }\r\n
return cooked;\r\n };\r\n\r\n function __importStar(mod)
{\r\n
if (mod && mod.__esModule) return mod;\r\n
var result = {};\r\n
if (mod != null) for (var k in
mod) if (Object.hasOwnProperty.call(mod, k)) result[k] = mod[k];\r\n
result.default = mod;\r\n
return
result;\r\n }\r\n\r\n function __importDefault(mod) {\r\n
return (mod && mod.__esModule) ? mod : {
default: mod };\r\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 /**\n * Used to provide a `ControlValueAccessor` for form controls.\n *\n
* See `DefaultValueAccessor` for how to implement one.\n *\n * @publicApi\n */\n var
NG_VALUE_ACCESSOR = new core.InjectionToken('NgValueAccessor');\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
CHECKBOX_VALUE_ACCESSOR = {\n
provide: NG_VALUE_ACCESSOR,\n
useExisting:
core.forwardRef(function () { return CheckboxControlValueAccessor; }),\n
multi: true,\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 var CheckboxControlValueAccessor = /** @class */
(function () {\n
function CheckboxControlValueAccessor(_renderer, _elementRef) {\n
this._renderer =
_renderer;\n
this._elementRef = _elementRef;\n
/**\n
* @description\n
* The
registered callback function called when a change event occurs on the input element.\n
*/\n
this.onChange = function (_) { };\n
/**\n
* @description\n
* The registered callback function
called when a blur event occurs on the input element.\n
*/\n
this.onTouched = function () { };\n
}\n
/**\n
* Sets the \"checked\" property on the input element.\n
*\n
* @param value The
checked value\n
*/\n
CheckboxControlValueAccessor.prototype.writeValue = function (value) {\n
this._renderer.setProperty(this._elementRef.nativeElement, 'checked', value);\n
};\n
/**\n
*
@description\n
* Registers a function called when the control value changes.\n
*\n
* @param fn The

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Callback function

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

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

CheckboxControlValueAccessor.prototype.setDisabledState = function (isDisabled) {

  this._renderer.setProperty(this._elementRef.nativeElement, 'disabled', isDisabled);
}

CheckboxControlValueAccessor = __decorate(

  [core.Directive({
      selector:

        'input[type=checkbox][formControlName],input[type=checkbox][formControl],input[type=checkbox][ngModel]',

      host: { (change): 'onChange($event.target.checked)', (blur): 'onTouched()' },

      providers:

        [CHECKBOX_VALUE_ACCESSOR]

    }),

    __metadata("design:paramtypes", [core.Renderer2,

      core.ElementRef])

], CheckboxControlValueAccessor);

return CheckboxControlValueAccessor;

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

DEFAULT_VALUE_ACCESSOR = {

  provide: NG_VALUE_ACCESSOR,

  useExisting: core.forwardRef(function () { return DefaultValueAccessor; }),

  multi: true

} */

var COMPOSITION_BUFFER_MODE = new

  core.InjectionToken('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 `NgModel` directives. The default value accessor activates the default value accessor (in this case, a text field).

* (in this case, a text field).

* const

  ```
  const

  this._elementRef = _elementRef;

  this._compositionMode = _compositionMode;

  /**
   * @description
   * The registered callback function called when a blur event occurs on the input element.

   */

  this.onChange = function (_) { };

  /**
   * The registered callback function called when the blur event occurs on the input element.

   */

  this.onTouched = function () { };

  /**
   * Whether the user is creating a composition string (IME events). *

  this_composing = false;

  if (this._compositionMode == null) {

    this._compositionMode = !isAndroid();

  };

  /**
   * Sets the \"value\" property on the input element.

   */

  this.writeValue = function (value) {

    value = value == null ? '' : value;

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

  };

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

   */

  this.registerOnChange = function (fn) {

    this.onChange = fn;

  };

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

   */

  this.registerOnTouched = function (fn) {

    this.onTouched = fn;

  };

  /**
   * Sets the \"disabled\" property on the input element.

   */

  this.setDisabledState = function (isDisabled) {

    this._renderer.setProperty(this._elementRef.nativeElement, 'disabled', isDisabled);

  };

  /**
   * @internal
   */

  this._composing = false;

  if (this._compositionMode == null) {

    this._compositionMode = !isAndroid();

  };

  /**
   * Sets the \"value\" property on the input element.

   */

  this.writeValue = function (value) {

    value = value == null ? '' : value;

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

  };

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

   */

  this.registerOnChange = function (fn) {

    this.onChange = fn;

  };

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

   */

  this.registerOnTouched = function (fn) {

    this.onTouched = fn;

  };

  /**
   * Sets the \"disabled\" property on the input element.

   */

  this.setDisabledState = function (isDisabled) {

    this._renderer.setProperty(this._elementRef.nativeElement, 'disabled', isDisabled);

  };

  /**
   * @param fn The callback function

   */

  this.callbackFunction = function (fn) {

    this.onChange = fn;

  };

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

   */

  this.registerOnChange = function (fn) {

    this.onChange = fn;

  };

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

   */

  this.registerOnTouched = function (fn) {

    this.onTouched = fn;

  };

  /**
   * Sets the \"disabled\" property on the input element.

   */

  this.setDisabledState = function (isDisabled) {

    this._renderer.setProperty(this._elementRef.nativeElement, 'disabled', isDisabled);

  };

}();

/**

 * @description

 * Provides this token to control if form directives buffer IME input until

 * the \"compositionend\" event occurs.

 */

publicApi = */

var COMPOSITION BUFFER MODE = new

  core.InjectionToken('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 `NgModel` directives. The default value accessor activates the default value accessor (in this case, a text field).

* (in this case, a text field).

* const

```

```
DefaultValueAccessor.prototype._handleInput = function (value) {
    if (!this._compositionMode || this._compositionMode && !this._composing) {
        this.onChange(value);
    }
};
/**
 * @internal
 */
DefaultValueAccessor.prototype._compositionStart = function () {
    this._composing = true;
};
/**
 * @internal
 */
DefaultValueAccessor.prototype._compositionEnd = function (value) {
    this._composing = false;
    this._compositionMode && this.onChange(value);
};

DefaultValueAccessor = __decorate([core.Directive({
    selector: 'input:not([type=checkbox])[formControlName],textarea[formControlName],input:not([type=checkbox])[formControl]
    textarea[formControl],input:not([type=checkbox])[ngModel],textarea[ngModel],[ngDefaultControl],
    // TODO: vsavkin replace the above selector with the one below it once
    // https://github.com/angular/angular/issues/3011 is implemented
    // selector:
    '[ngModel],[formControl],[formControlName]',
    host: {
        '(input)': '$any(this)._handleInput($event.target.value)',
        '(blur)': 'onTouched()',
        '(compositionstart)': 'Sany(this)._compositionStart()',
        '(compositionend)': 'Sany(this)._compositionEnd($event.target.value)'
    },
    providers: [DEFAULT_VALUE_ACCESSOR]
}),
    __param(2, core.Optional()), __param(2,
    core.Inject(COMPOSITION_BUFFER_MODE)),
    __metadata("design:paramtypes", [core.Renderer2,
    core.ElementRef, Boolean]),
    return DefaultValueAccessor]);

/**
 * @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
 * Base class for control directives.
 *
 * This class is only used internally in the
 * `ReactiveFormsModule` and the `FormsModule`.
 *
 * @publicApi
 */
var AbstractControlDirective = /** @class */ (function () {
    function AbstractControlDirective() {
    }
    Object.defineProperty(AbstractControlDirective.prototype, "value", {
        /**
         * @description
         * Reports the value of the control if it is present, otherwise null.
         */
        get: function () { return this.control ? this.control.value : null; },
        enumerable: true,
        configurable: true
    });
    Object.defineProperty(AbstractControlDirective.prototype, "valid", {
        /**
         * @description
         * Reports whether the control is valid. A control is considered valid if no
         * validation errors exist with the current value.
         * If the control is not present, null is returned.
         */
        get: function () { return this.control ? this.control.valid : null; },
        enumerable: true,
        configurable: true
    });
    Object.defineProperty(AbstractControlDirective.prototype, "invalid", {
        /**
         * @description
         * Reports whether the control is invalid, meaning that an error exists in the input value.
         * If the control is not present, null is returned.
         */
        get: function () { return this.control ? this.control.invalid : null; },
        enumerable: true,
        configurable: true
    });
    Object.defineProperty(AbstractControlDirective.prototype, "pending", {
        /**
         * @description
         * 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 returned.
         */
        get: function () { return this.control ? this.control.pending : null; },
        enumerable: true,
        configurable: true
    });
    Object.defineProperty(AbstractControlDirective.prototype, "disabled", {
        /**
         * @description
         * 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.
         */
        get: function () { return this.control ? this.control.disabled : null; },
        enumerable: true,
        configurable: true
    });
    Object.defineProperty(AbstractControlDirective.prototype, "enabled", {
        /**
         * @description
         * Reports whether the control is enabled, meaning that the control is included in ancestor
         * calculations of validity or value.
         * If the control is not present, null is returned.
         */
        get: function () { return this.control ? this.control.enabled : null; },
        enumerable: true,
        configurable: true
    });
    Object.defineProperty(AbstractControlDirective.prototype, "errors", {
        /**
         * @description
         * Reports the control's validation errors.
         * If the control is not present, null is returned.
         */
        get: function () { return this.control ? this.control.errors : null; },
        enumerable: true,
        configurable: true
    });
    Object.defineProperty(AbstractControlDirective.prototype, "control", {
        /**
         * @description
         * Reports the control model.
         * If the control is not present, null is returned.
         */
        get: function () { return this.control ? this.control : null; },
        enumerable: true,
        configurable: true
    });
    return AbstractControlDirective;
});
* 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.
  *
  * 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 a multicasting observable that emits a validation status whenever it is
  * calculated for the control. If the control is not present, null is returned.
  *
  * Returns the validation status of the control. Possible values include:
  * 'VALID', 'INVALID', 'DISABLED', and 'PENDING'.
  *
  * Returns a multicasting observable that emits every
  * time the
  * value of the control changes in the UI or programmatically.
  *
  * Returns 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.
  *
  * Returns 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.
  *
  * Returns 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.
  *
  * Returns whether the control has the error specified.
  *
  * 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.
  *
  * Returns 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.
  *
  * Returns whether the control has the error specified.
  *
  * 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.
  *
  * Returns 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.
  *
  * Returns whether the control has the error specified.
  *
  * 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.
  *
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  * the value in the UI. If the control is not present, null is returned.
  *
  * Returns whether the control has the error specified.
  *
  * 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.
  *
  * Returns 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.
  *
  * Returns whether the control has the error specified.
  *
  * 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.
  *
  * Returns 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.
  *
  * Returns whether the control has the error specified.
  *
  * 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.
  *
  * Returns 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.
  *
  * Returns whether the control has the error specified.
  *
  * 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.
  *
  * Returns 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.
  *
  * Returns whether the control has the error specified.
  *
  * 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.
  *
  * Returns 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.
  *
  * Returns whether the control has the error specified.
  *
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  * the value in the UI. If the control is not present, null is returned.
  *
  * Returns 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.
  *
  * Returns whether the control has the error specified.
  *
  * 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.
  *
  * Returns 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.
  *
  * Returns whether the control has the error specified.
  *
  * 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.
  *
  * Returns 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.
  *
  * Returns whether the control has the error specified.
  *
  * 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.
  *
  * Returns 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.
  *
  * Returns whether the control has the error specified.
  *
  * 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.
  *
  * Returns 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.
  *
  * Returns whether the control has the error specified.
  *
  * 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.
  *
  * Returns 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.
  *
  * Returns whether the control has the error specified.
  *
  * 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.
  *
  * Returns 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.
  *
  * Returns whether the control has the error specified.
  *
  * 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.
  *
  * Returns 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.
  *
  * Returns whether the control has the error specified.
  *
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  * the value in the UI. If the control is not present, null is returned.
  *
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  * the value in the UI. If the control is not present, null is returned.
  *
  * Returns whether the control has the error specified.
  *
  * 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.
  *
  * Returns 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.
  *
  * Returns whether the control has the error specified.
  *
  * 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.
  *
  * Returns 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.
  *
  * Returns whether the control has the error specified.
Reports error data for the control with the given path.

```typescript
AbstractControlDirective.prototype.getError = function (errorCode, path) {
    if (this.control) {
        return this.control.getError(errorCode, path);
    }
    return null;
};
```

The path to this group.

```typescript
get: function () { return null; },
```

The uncomposed array of async validators for the control.

```typescript
@description
* @internal
* @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
* For example, for the following FormControl:
* form = new FormGroup({
*   street: new FormControl() });
* The path to the 'street' control from the root form would be 'address' -> 'street'.
* It can be provided to this method in one of two formats:
* 1. An array of string control names, e.g. ['address', 'street']
* 1. A period-delimited list of control names in one string, e.g. 'address.street'
* @returns error data for that particular error.
```

If the control or error is not present, null is returned.

```typescript
AbstractControlDirective.prototype.getError = function (errorCode, path) {
    if (this.control) {
        return this.control.getError(errorCode, path);
    }
    return null;
};
```

The path to this group.

```typescript
get: function () { return null; },
```

The uncomposed array of async validators for the control.

```typescript
@description
* @internal
* @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
* For example, for the following FormGroup:
* form = new FormGroup({
*   street: new FormControl() });
* The path to the 'street' control from the root form would be 'address' -> 'street'.
* It can be provided to this method in one of two formats:
* 1. An array of string control names, e.g. ['address', 'street']
* 1. A period-delimited list of control names in one string, e.g. 'address.street'
* @returns error data for that particular error.
```

If the control or error is not present, null is returned.

```typescript
AbstractControlDirective.prototype.getError = function (errorCode, path) {
    if (this.control) {
        return this.control.getError(errorCode, path);
    }
    return null;
};
```
```javascript
Object.defineProperty(AbstractControlStatus.prototype, "ngClassUntouched", {
    get: function () { return this._cd.control ? this._cd.control.touched : false; },
    enumerable: true,
    configurable: true
});
Object.defineProperty(AbstractControlStatus.prototype, "ngClassTouched", {
    get: function () { return this._cd.control ? this._cd.control.pristine : false; },
    enumerable: true,
    configurable: true
});
Object.defineProperty(AbstractControlStatus.prototype, "ngClassPristine", {
    get: function () { return this._cd.control ? this._cd.control.dirty : false; },
    enumerable: true,
    configurable: true
});
Object.defineProperty(AbstractControlStatus.prototype, "ngClassDirty", {
    get: function () { return this._cd.control ? this._cd.control.valid : false; },
    enumerable: true,
    configurable: true
});
Object.defineProperty(AbstractControlStatus.prototype, "ngClassValid", {
    get: function () { return this._cd.control ? this._cd.control.invalid : false; },
    enumerable: true,
    configurable: true
});
Object.defineProperty(AbstractControlStatus.prototype, "ngClassInvalid", {
    get: function () { return this._cd.control ? this._cd.control.pending : false; },
    enumerable: true,
    configurable: true
});
Object.defineProperty(AbstractControlStatus.prototype, "ngClassPending", {
    get: function () { return this._cd.control ? this._cd.control.pristine : false; },
    enumerable: true,
    configurable: true
});
return AbstractControlStatus;
}());

var 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.
 * *
 * * @ngModule ReactiveFormsModule
 * @ngModule FormsModule
 * @publicApi
 */
var NgControlStatus = /** @class */ (function (_super)
{ return _super.call(this, cd) || this; });

/**
 * @description
 * Directive automatically applied to Angular form groups that sets CSS classes
 * based on control status.
 * *
 * * @ngModule ReactiveFormsModule
 * @ngModule FormsModule
 * @publicApi
 */
var NgControlStatusGroup = /** @class */ (function (_super)
{ return _super.call(this, cd) || this; });

/**
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 * found in the LICENSE file at https://angular.io/license
 */
function isEmptyInputValue(value) {
    // 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`
 * @usageNotes
 * *
 * ### Providing a custom validator
 * *
 * The following example registers a custom validator directive. Adding the
 * validator to the existing collection of validators requires the `multi: true` option.
 * *
 * ```typescript
 * @Directive({
 *   selector: '[customValidator]',
 *   providers: [{provide: NG_VALIDATORS,
 *                  useExisting: CustomValidatorDirective, multi: true}]
 * })
 * class CustomValidatorDirective implements
 *   abstractValidator{[abstractControl: AbstractControl]: ValidationErrors} {
 *   return new
 *   core.InjectionToken('NgValidators');
 * }
 * ```
 * @publicApi
 */
var NG_VALIDATORS = new core.InjectionToken('NgValidators');

```
* `publicApi`*/
 */
 var NG_ASYNC_VALIDATORS = new core.InjectionToken('NgAsyncValidators');

/**
 * A regular expression that matches valid e-mail addresses.

 * A `label` consists of one or more of the allowed characters (alphanumeric and some punctuation symbols).
 * - A `label` cannot begin or end with a period (`.`).
 * - `local-part` cannot be longer than 64 characters.
 * - `local-part` consists of one or more `labels` separated by periods (`.`).
 * - `local-part` cannot begin or end with a dash (`-`) or a period (`.`).
 * - `tld` consists of one or more of the allowed characters (alphanumeric, dashes (`-`) and periods (`.`)).
 * - The whole address cannot be longer than 254 characters.
 */

var NG_ASYNC_VALIDATORS = new core.InjectionToken('NgAsyncValidators');

/**
 * A regular expression that matches valid e-mail addresses.
 *
 * At a high level, this regexp matches e-mail addresses of the format `local-part@tld`, where:
 * - `local-part` consists of one or more of the allowed characters (alphanumeric and some punctuation symbols).
 * - `local-part` cannot begin or end with a period (`.`).
 * - `local-part` cannot be longer than 64 characters.
 * - `local-part` consists of one or more `labels` separated by periods (`.`).
 * 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.
 */

* `EMAIL_REGEXP = /^(?=.{1,254}$)(?=.{1,64}@)[a-zA-Z0-9-]+[\w\.-]*@[a-zA-Z0-9-]+[\w\.-]*\.[a-zA-Z]{2,15}$/;`

/**
 * @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 [this commit](https://github.com/angular/angular.js/commit/f35c72e2) for more details.
 */

var EMAIL_REGEXP = /^(?=.{1,254}$)(?=.{1,64}@)[a-zA-Z0-9-]+[\w\.-]*@[a-zA-Z0-9-]+[\w\.-]*\.[a-zA-Z]{2,15}$/;

/**
 * @description
 * Validator that requires the control's value to be greater than or equal to the provided number. The validator exists only as a function and not as a directive.
 */

* ` min = function (control) {
    if (isEmptyInputValue(control.value) || isEmptyInputValue(min)) {
        return null; // don't validate empty values to allow optional controls
    }
    var value = parseFloat(control.value);
    // Controls with NaN values after parsing should be treated as not having a value
    return !isNaN(value) && value < min ? { 'min': { 'min': min, 'actual': control.value } } : null;
} */

/**
 * @description
 * Validator that requires the control's value to be less than or equal to the provided number.
 */

* ` max = function (control) {
    if (isEmptyInputValue(control.value) || isEmptyInputValue(max)) {
        return null; // don't validate empty values to allow optional controls
    }
    var 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 less than or equal to the provided number.
 */

* ` ?=`
*/
 */
 var EMAIL_REGEXP = /^(?=.{1,254}$)(?=.{1,64}@)[a-zA-Z0-9-]+[\w\.-]*@[a-zA-Z0-9-]+[\w\.-]*\.[a-zA-Z]{2,15}$/;
@usageNotes
* @returns An error map with the `required` property if the validation check fails, otherwise `null`.

```html
<input required="true">
```
check fails, otherwise `null`.

```typescript
function (control) {
  var length = control.value ? control.value.length : 0;
  return length > maxLength ?
      { 'maxlength': { 'requiredLength': maxLength, 'actualLength': length } } : null;
}
```

### Validate that the field only contains letters or spaces

```typescript
function Validators.pattern(pattern) {
  if (!pattern)
    return Validators.nullValidator;
  var regex = new RegExp(pattern);

  function (control) {
    return regex.test(control.value) ? null :
        { 'pattern': { 'requiredPattern': regexStr, 'actualValue': control.value } };
  }
}
```

### Validate that the field only contains letters or spaces

```typescript
function Validators.maxLength(maxLength) {
  return function (control) {
    var length = control.value ? control.value.length : 0;
    return length > maxLength ?
        { 'maxlength': { 'requiredLength': maxLength, 'actualLength': length } } : null;
  }
}
```

### Validate that the field only contains letters or spaces

```typescript
Validator to return Promise or Observable.
```

### Validate that the field only contains letters or spaces

```typescript
function Ministers.composeAsync = function (validators) {
  if (!validators)
    return null;
  var presentValidators = validators.filter(isPresent);
  if (presentValidators.length == 0)
    return null;
  return function (control) {
    return Validators.composeAsync._mergeErrors(_executeValidators(control, presentValidators));
  }
}
```

### Validate that the field only contains letters or spaces

```typescript
function Validators.compose = function (validators) {
  if (!validators)
    return Validators.nullValidator;
  var presentValidators = validators.filter(isPresent);
  if (presentValidators.length == 0)
    return null;
  return function (control) {
    return Validators.composeAsync._mergeErrors(_executeValidators(control, presentValidators));
  }
}
```

### Validate that the field only contains letters or spaces

```typescript
function Validators.nullValidator = function (control) { return null; };
function Ministers.composeAsyc = function (validators) {
  if (!validators)
    return null;
  var presentValidators = validators.filter(isPresent);
  if (presentValidators.length == 0)
    return null;
  return function (control) {
    var observables = Ministers.executeAsyncValidators(control, presentValidators).map(toObservable);
    return rxjs.forkJoin(observables).pipe(operators.map(_mergeErrors)).toPromise();
  }
}
```
(validator.validate) { return validator.validate(c); };

else { return validator; }

function normalizeAsyncValidator(validator) { if (validator.validate) {

return function (c) { return validator.validate(c); };

} else { return validator; }

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

var NUMBER_VALUE_ACCESSOR = {

provide: NG_VALUE_ACCESSOR,

useExisting:
core.forwardRef(function () { return NumberValueAccessor; }),

multi: true
}; /*
 * directives,
 */

* @usageNotes
** Using a number input with a reactive form.

* * *

The following example shows how to use a number input with a reactive form:

```ts
const
totalCountControl = new FormControl();
```

```
<input type="number" [formControl]="totalCountControl">
```

* @ngModule ReactiveFormsModule
* @ngModule
FormsModule
* @publicApi

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

function NumberValueAccessor(_renderer, _elementRef) {

this._renderer = _renderer;

this._elementRef = _elementRef;

/**
 * @description
 * The registered callback function called when a change or input event occurs on the input
 */

this.onChange = function (_) { };

/**
 * @description
 * The registered callback function called when a blur event occurs on the input.
 */

this.onTouched = function () { };

*/

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);

}

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

this.registerOnChange = function (fn) {

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

}

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

this.registerOnTouched = function (fn) {

this.onTouched = fn;

}

*/

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);

}

/**
 * Sets the "value" property on the input.
 */

NumberValueAccessor.prototype.registerOnChange = function (fn) {

fn(value == '' ? null : parseFloat(value));

}

/**
 * Sets the "disabled" property on the input.
 */

NumberValueAccessor.prototype.registerOnTouched = function (fn) {

fn();

}

*/

RadioControlRegistry = /** @class */ (function () {

function RadioControlRegistry() {

this._accessors = [];

}

/**
 * Adds a control to the internal registry. For
 * internal use only.
 */

this.add = function (control, accessor) {

this._accessors.push([control, accessor]);

}

/**
 * Removes a control from the internal registry. For
 * internal use only.
 */

this.remove = function (accessor) {

for (var i = this._accessors.length - 1; i >= 0; --i) {

if (this._accessors[i][1] ==

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RadioControlRegistry.prototype._isSameGroup = function (controlPair, accessor) {
    if (!controlPair[0].control)
        return false;
    return controlPair[0]._parent === accessor._control._parent &&
        controlPair[1].name === accessor.name;
}

RadioControlRegistry = __decorate([], RadioControlRegistry);

/**
 * @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.
 * * [example forms/ts/reactiveRadioButtons/reactive_radio_button_example.ts region='Reactive']
 * * @ngModule
 * * ReactiveFormsModule
 * * @ngModule
 * * FormsModule
 * * @publicApi
 */

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

        this._checkName();

        this._registry.add(this._control, this);
    }

    RadioControlValueAccessor.prototype._checkName = function () {
        if (this.name &&
            this.formControlName &&
            this.name !== this.formControlName) {
            this._throwNameError();
        }
        if (!this.name &&
            this.formControlName)
            this.name = this.formControlName;
    }

    RadioControlValueAccessor.prototype._throwNameError = function () {
        throw new Error("\n            If you define both a name and a formControlName attribute on your radio button, their values\n            must match. Ex: <input

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<div>

```javascript
RadioControlValueAccessor = __decorate([core.Directive(
    selector: 'input[type=radio][formControlName],input[type=radio][formControl],input[type=radio][ngModel]',
    host: {'(change)': 'onChange()','(blur)': 'onTouched()'}),
    providers: [RADIO_VALUE_ACCESSOR]
  )], RadioControlValueAccessor);

RadioControlValueAccessor = __decorate([core.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)'},
    providers: [RANGE_VALUE_ACCESSOR]
  )], RangeValueAccessor);

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

In your class:
```typescript
this.myGroup = new FormGroup({
  person: new FormGroup({
    firstName: new FormControl()
  })
});
```

```typescript
this.cityArray = new FormArray([new FormControl('SF')]);
```

```typescript
this.myGroup = new FormGroup({
  cities: this.cityArray
});
```

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

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

```typescript
ReactiveErrors = /** @class */
function ReactiveErrors() {
  function ReactiveErrors.controlParentException() {
    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)." + 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.\n
    Option 1: Update the parent to be formGroupName
    \"form\" strategy\n
    Option 2: Use ngModel instead of formControlName (template-driven strategy)\n    \"form\" strategy\n
    Example: \n    form = new FormGroup({
      first: new FormControl({value: 'Nancy', disabled: true}, Validators.required),
      last: new FormControl('Drew', Validators.required)
    });
  }

  ReactiveErrors.missingFormException = function () {
    throw new Error("missing FormGroup. Please pass one in.\n    Example: \n    form: new FormGroup({
      firstName: new FormControl()
    });
  }

  ReactiveErrors.groupParentException = function () {
    throw new Error("formGroupName must be used with a parent formGroup directive.\n    Example: \n    form = new FormGroup({
      firstName: new FormControl()
    });
  }

  ReactiveErrors.arrayParentException = function () {
    throw new Error("formArrayName must be used with a parent formGroup directive.\n    Example: \n    form = new FormGroup({
      cities: this.cityArray
    });
  }

  ReactiveErrors.disabledAttrWarning = function () {
    console.warn("\n    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.\n    Example: \n    form = new FormGroup({
      firstName: new FormControl('Nancy', Validators.required)
    });
  }

  ReactiveErrors.ngModelWarning = function (directiveName) {
    console.warn("\n    It looks like you're using ngModel on the same form field as " + directiveName + "\n    for 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.\n    For more information on this, see our API docs here:
    https://angular.io/api/forms\n    " + (directiveName === 'formControl' ? 'FormControlDirective' : 'FormControlName') + "/use-with-ngmodel\n    example: \n    form = new FormGroup({
      firstName: new FormControl()
    });
  }

  ReactiveErrors.controlParentException();
}
```

```typescript
SELECT_VALUE_ACCESSOR = {
  provide: NG_VALUE_ACCESSOR,
  useExisting: core.forwardRef(function () { return SelectControlValueAccessor; }),
  multi: true
};
```

```typescript
function _buildValueString(id, value) {
  if (id == null)
    return "" + value;
  if (value && typeof value === 'object')
    value = 'Object';
  return (id + ": " + value);
}
```
```typescript
function _extractId(valueString) {
    return valueString.split(':')[0];
}

function _buildValueString(id, value) {
    return value + ':id=' + id;
}

const selectedCountriesControl = new FormControl();

function compareFn(c1, c2) {
    return c1 && c2 ? c1.id === c2.id : c1 === c2;
}

select [compareWith=["compareFn"] [formControl]=selectedCountriesControl] * option *ngFor="let country of countries" [ngValue]="country">
    {{country.name}}
</option>
</select>
```

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

function compareFn(c1, c2) {
    return c1 && c2 ? c1.id === c2.id : c1 === c2;
}

select [compareWith="compareFn" [formControl]=selectedCountriesControl] * option *ngFor="let country of countries" [ngValue]="country">
    {{country.name}}
</option>
</select>
```
* Sets the `disabled` property on the select input element.

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

SelectControlValueAccessor.prototype._registerOption = function () { return (this._idCounter++).toString(); };

SelectControlValueAccessor.prototype._getOptionId = function (value) {
    var id = _extractId(value);
    return id;
};

SelectControlValueAccessor.prototype._getOptionValue = function (valueString) {
    var id = _extractId(valueString);
    return this._optionMap.has(id) ? this._optionMap.get(id) : valueString;
};

__decorate([core.Input(), __metadata("design:type", Function), __metadata("design:paramtypes", [Function])], SelectControlValueAccessor.prototype, "compareWith", null);

SelectControlValueAccessor = __decorate([core.Directive({ selector: 'select:not([multiple])[formControlName],select:not([multiple])[formControl],select:not([multiple])[ngModel]', host: { '(change)': 'onChange($event.target.value)', '(blur)': 'onTouched()' }, providers: [], SelectControlValueAccessor.prototype, 'SelectControlValueAccessor.prototype._getOptionValue = function (valueString) {
    var id = _extractId(valueString);
    return this._optionMap.has(id) ? this._optionMap.get(id) : valueString;
};

__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);

NgSelectOption.prototype.ngOnDestroy = function () {
    if (this._select) {
        this._select._optionMap.delete(this.id);
        this._select.writeValue(this._select.value);
    }
};
```

* Lifecycle method called before the directive’s instance is destroyed. For internal use only.

```javascript
NgSelectOption.prototype.ngOnDestroy = function () {
    if (this._select) {
        this._select._optionMap.delete(this.id);
        this._select.writeValue(this._select.value);
    }
};
```
### Using a multi-select control

The following example shows how to use multi-select control

```ts
const countryControl = new FormControl();
```
```javascript
* Registers a function called when the control is touched.
* @param fn The callback function
* @param isDisabled The disabled value

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

/**
* Sets the `disabled` property on the select input element.
* @param isDisabled The disabled value
*/
SelectMultipleControlValueAccessor.prototype.setDisabledState = function (isDisabled) {
  (this._idCounter++).toString();
  var id = this._optionMap.set(id, value) return id;
};

/**
* Marks `<option>` as dynamic, so Angular can be notified when options change.
* @see `SelectMultipleControlValueAccessor`
* @ngModule ReactiveFormsModule
* @ngModule FormsModule
* @publicApi
*/
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", {
    /**
     * Tracks the value bound to the option element. Unlike the value binding,
     * `ngValue` supports binding to objects.
     * @param value The value
     * @return this._value
     */
    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", {
    /**
     * Tracks simple string values bound to the option element.
     * For objects, use the `ngValue` input binding.
     * @param value The value
     * @return this._value
     */
    set: function (value) {
      if (this._select) {
        this._value = value;
        this._setElementValue(_buildValueString$1(this.id, value));
        this._select.writeValue(this._select.value);
      }
      else {
        Object.defineProperty(NgSelectMultipleOption.prototype, "_value", {
          set: function (value) {
            if (this._select) {
              this._value = value;
              this._setElementValue(_buildValueString$1(this.id, value));
            }
            else {
              this._select.writeValue(this._select.value);
            }
          }
        });
      }
    },
    enumerable: true,
    configurable: true
  });
  return NgSelectMultipleOption;
}();
```

---

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```typescript
__decorate([core.Input('ngValue'),
            __metadata("design:type", Object),
            __metadata("design:paramtypes", [Object])
        ], NgSelectMultipleOption.prototype, "ngValue", null);

__decorate([core.Input('value'),
            __metadata("design:type", Object),
            __metadata("design:paramtypes", [Object])
        ], NgSelectMultipleOption.prototype, "value", null);

NgSelectMultipleOption = __decorate([
            core.Directive({ selector: 'option' }),
            __param(2, core.Optional()), __param(2, core.Host()),
            __metadata("design:paramtypes", [core.ElementRef,
                core.Renderer2,
                SelectMultipleControlValueAccessor])
        ], NgSelectMultipleOption);

    /**
     * @license
     * Copyright Google Inc. All Rights Reserved.
     *
     * Use of this source code is governed by an MIT-style license that can be found in the LICENSE file at
     * https://angular.io/license
     */
    function controlPath(name, parent) {
        return __spread(parent.path,
            [name]);
    }

    function setUpControl(control, dir) {
        if (!control)
            _throwError(dir, 'Cannot find control with');
        if (!dir.valueAccessor)
            _throwError(dir, 'No value accessor for form control with');

        control.validator = Validators.compose(
            [control.validator, dir.validator]);
        control.asyncValidator = Validators.composeAsync(
            [control.asyncValidator, dir.asyncValidator]);

        dir.valueAccessor.writeValue(control.value);
        setUpViewChangePipeline(control, dir);
        setUpModelChangePipeline(control, dir);
        setUpBlurPipeline(control, dir);
        if (dir.valueAccessor.setDisabledState)
            control.registerOnDisabledChange(function (isDisabled) {
                dir.valueAccessor.setDisabledState(isDisabled); });

        // re-run validation when validator binding changes, e.g. minlength=3 -> minlength=4
        dir.rawValidators.forEach(function (validator) {
            if (validator.registerOnValidatorChange)
                validator.registerOnValidatorChange(function () { return
                    control.updateValueAndValidity(); });
        });

        dir.valueAccessor.writeValue(control.value);
        dir.viewToModelUpdate(control.value);
        control.setValue(control._pendingValue, { emitModelToViewChange: false });
        control._pendingChange = false;
    }

    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]);

        control.validator = Validators.compose(
            [control.validator, dir.validator]);
        control.asyncValidator = Validators.composeAsync(
            [control.asyncValidator, dir.asyncValidator]);

        dir.valueAccessor.writeValue(control.value);
        dir.viewToModelUpdate(control.value);
        if (emitModelToViewChange) {
            dir.valueAccessor.writeValue(newValue);
            control._pendingValue = newValue;
            control._pendingChange = true;
            control._pendingDirty = true;
        } else {
            control._pendingChange = false;
            control._pendingDirty = false;
        }
    }
```
function composeValidators(validators) {
    return validators != null ? Validators.compose(validators.map(normalizeValidator)) : null;
}

function composeAsyncValidators(validators) {
    return validators != null ? Validators.composeAsync(validators.map(normalizeAsyncValidator)) : null;
}

isPropertyUpdated(changes, viewModel) {
    if (!changes.hasOwnProperty('model'))
        return false;

    var change = changes['model'];
    if (change.isFirstChange())
        return true;
    return !core.looseIdentical(viewModel, change.currentValue);
}

BUILTIN_ACCESSORS = [

    CheckboxControlValueAccessor,
    RangeValueAccessor,
    NumberValueAccessor,

    SelectControlValueAccessor,
    SelectMultipleControlValueAccessor,
    RadioControlValueAccessor,
]

function isBuiltInAccessor(valueAccessor) {
    return BUILTIN_ACCESSORS.some(function (a) { return valueAccessor.constructor === a; });
}

syncPendingControls(form, directives) {

    // TODO: vsavkin remove it once https://github.com/angular/angular/issues/3011 is implemented
    function selectValueAccessor(dir, valueAccessors) {
        if (!valueAccessors)
            return null;
        if (!Array.isArray(valueAccessors))
            _throwError(dir, 'Value accessor was not provided as an array for form control with');

        var defaultAccessor = undefined;
        var builtinAccessor = undefined;
        var customAccessor = undefined;

        valueAccessors.forEach(function (v) {
            if (v.constructor === DefaultValueAccessor) {
                defaultAccessor = v;
            } else if (isBuiltInAccessor(v)) {
                if (builtinAccessor)
                    _throwError(dir, 'More than one built-in value accessor matches form control with');
                builtinAccessor = v;
            } else {
                if (customAccessor)
                    _throwError(dir, 'More than one custom value accessor matches form control with');
                customAccessor = v;
            }
        });

        if (customAccessor)
            return customAccessor;
        if (builtinAccessor)
            return builtinAccessor;
        if (defaultAccessor)
            return defaultAccessor;
        _throwError(dir, 'No valid value accessor for form control with');
    }

    // TODO: remove after deprecation period
    function _ngModelWarning(name, type, instance, warningConfig) {
        if (!core.isDevMode() || warningConfig === 'never')
            return;
        if (((warningConfig === null || warningConfig === 'once') && !type._ngModelWarningSentOnce) || (warningConfig === 'always' && !instance._ngModelWarningSent)) {
            ReactiveErrors.ngModelWarning(name);
            type._ngModelWarningSentOnce = true;
            instance._ngModelWarningSent = true;
        }
    }

    /**
     * Reports that a FormControl is valid, meaning that no errors exist in the input value.
     *
     * @see `status`
     */
    VALID = 'VALID';

    /**
     * Reports that a FormControl is invalid, meaning that an error exists in the input value.
     *
     * @see `status`
     */
    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`
     */
    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`
     */
    DISABLED = 'DISABLED';

    function find(control, path, delimiter) {
        if (path == null)
            return null;
        if (!Array.isArray(path)) {
            path = path.split(delimiter);
        }

        if (Array.isArray(path) && path.length === 0)
            return null;

        if (!Array.isArray(path))
            return null;

        var controlToFind = null;
        path.forEach(function (name) {
            if (controlToFind instanceof FormGroup) {
                controlToFind = controlToFind.controls.hasOwnProperty(name) ?
                    controlToFind.controls[name] :
                    null;
            } else {
                controlToFind = controlToFind._find(name);
            }
        });

        return controlToFind;
    }

    /**
     * Reports that a FormControl is valid, meaning that no errors exist in the input value.
     *
     * @see `status`
     */
    function _throwError(dir, 'Value accessor was not provided as an array for form control with');

    var builtinAccessor = undefined;
    var customAccessor = undefined;

    valueAccessors.forEach(function (v) {
        if (v.constructor === DefaultValueAccessor) {
            defaultAccessor = v;
        } else if (isBuiltInAccessor(v)) {
            if (builtinAccessor)
                _throwError(dir, 'More than one built-in value accessor matches form control with');
            builtinAccessor = v;
        } else {
            if (customAccessor)
                _throwError(dir, 'More than one custom value accessor matches form control with');
            customAccessor = v;
        }
    });

    if (customAccessor)
        return customAccessor;
    if (builtinAccessor)
        return builtinAccessor;
    if (defaultAccessor)
        return defaultAccessor;
    _throwError(dir, 'No valid value accessor for form control with');

    return customAccessor = v;
}

if (control.updateOn === 'submit' && control._pendingChange) {
    dir.viewToModelUpdate(control._pendingValue);
    control._pendingChange = false;
}

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
function selectValueAccessor(dir, valueAccessors) {
    if (!valueAccessors)
        return null;
    if (!Array.isArray(valueAccessors))
        _throwError(dir, 'Value accessor was not provided as an array for form control with');

    var defaultAccessor = undefined;
    var builtinAccessor = undefined;
    var customAccessor = undefined;

    valueAccessors.forEach(function (v) {
        if (v.constructor === DefaultValueAccessor) {
            defaultAccessor = v;
        } else if (isBuiltInAccessor(v)) {
            if (builtinAccessor)
                _throwError(dir, 'More than one built-in value accessor matches form control with');
            builtinAccessor = v;
        } else {
            if (customAccessor)
                _throwError(dir, 'More than one custom value accessor matches form control with');
            customAccessor = v;
        }
    });

    if (customAccessor)
        return customAccessor;
    if (builtinAccessor)
        return builtinAccessor;
    if (defaultAccessor)
        return defaultAccessor;
    _throwError(dir, 'No valid value accessor for form control with');

    return customAccessor = v;
}

if (control.updateOn === 'submit' && control._pendingChange) {
    dir.viewToModelUpdate(control._pendingValue);
    control._pendingChange = false;
}

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
function selectValueAccessor(dir, valueAccessors) {
    if (!valueAccessors)
        return null;
    if (!Array.isArray(valueAccessors))
        _throwError(dir, 'Value accessor was not provided as an array for form control with');

    var defaultAccessor = undefined;
    var builtinAccessor = undefined;
    var customAccessor = undefined;

    valueAccessors.forEach(function (v) {
        if (v.constructor === DefaultValueAccessor) {
            defaultAccessor = v;
        } else if (isBuiltInAccessor(v)) {
            if (builtinAccessor)
                _throwError(dir, 'More than one built-in value accessor matches form control with');
            builtinAccessor = v;
        } else {
            if (customAccessor)
                _throwError(dir, 'More than one custom value accessor matches form control with');
            customAccessor = v;
        }
    });

    if (customAccessor)
        return customAccessor;
    if (builtinAccessor)
        return builtinAccessor;
    if (defaultAccessor)
        return defaultAccessor;
    _throwError(dir, 'No valid value accessor for form control with');

    return customAccessor = v;
}
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```javascript
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if (controlToFind instanceof FormArray) {
    controlToFind = controlToFind.at(name)
} else if (controlToFind instanceof FormControl) {
    controlToFind = controlToFind
}

function coerceToValidator(validatorOrOpts) {
    return coerceToValidator(validatorOrOpts)
}

function coerceToAsyncValidator(validatorOrOpts) {
    return coerceToAsyncValidator(validatorOrOpts)
}

function isOptionsObj(validatorOrOpts) {
    return isOptionsObj(validatorOrOpts)
}

function composeValidators(validator) {
    return composeValidators(validator)
}

function composeAsyncValidators(validator) {
    return composeAsyncValidators(validator)
}

function isOptionsObj(validatorOrOpts) {
    return isOptionsObj(validatorOrOpts)
}

function composeValidators(validator) {
    return composeValidators(validator)
}

function composeAsyncValidators(validator) {
    return composeAsyncValidators(validator)
}

function isOptionsObj(validatorOrOpts) {
    return isOptionsObj(validatorOrOpts)
}

function composeValidators(validator) {
    return composeValidators(validator)
}

function composeAsyncValidators(validator) {
    return composeAsyncValidators(validator)
}

function isOptionsObj(validatorOrOpts) {
    return isOptionsObj(validatorOrOpts)
}

function composeValidators(validator) {
    return composeValidators(validator)
}

function composeAsyncValidators(validator) {
    return composeAsyncValidators(validator)
}

function isOptionsObj(validatorOrOpts) {
    return isOptionsObj(validatorOrOpts)
}

function composeValidators(validator) {
    return composeValidators(validator)
}

function composeAsyncValidators(validator) {
    return composeAsyncValidators(validator)
}

function isOptionsObj(validatorOrOpts) {
    return isOptionsObj(validatorOrOpts)
}

function composeValidators(validator) {
    return composeValidators(validator)
}

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    return composeValidators(validator)
}

function composeAsyncValidators(validator) {
    return composeAsyncValidators(validator)
}

function isOptionsObj(validatorOrOpts) {
    return isOptionsObj(validatorOrOps...
A control is `dirty` if the user has changed the value in the UI; compare `pristine`. Programmatic changes to a control's value do not mark it dirty.

When false or not supplied, a `blur` event on it.

Reports the update strategy of the `AbstractControl` (meaning the event on which the control updates itself).

Possible values: "change" | "blur" | "submit".

Default value: `false`

Sets the asynchronous 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.

Empties out the async validator list.

When you add or remove a validator at run time, you must call `updateValueAndValidity()` for the new validation to take effect.

Empties out the asynchronous validators that are active on this control.

Marks the control as `touched`. A control is touched by focus and blur events that do not change the value.

Programmatic changes to a control's value do not mark it dirty.

When the control has not been marked as touched.

* A control is `touched` if the user has not yet triggered a `blur` event on it.

`true`)

Object.defineProperty(AbstractControl.prototype, "untouched", {

"updateOn": "blur";

"updateOn": "blur";,

The control has any children, also marks all children as `untouched` and recalculates the `touched` status of all parent controls.

Marks the control and all its descendant controls as `touched`. Also marks all direct ancestors. When false or not supplied, marks all direct ancestors. Default is false.

If the control has any children, also marks all children as `untouched` and recalculates the `touched` status of all parent controls.

Marks the control as `untouched`.

If the control has not been marked as touched.

* A control is `untouched` if the user has not yet triggered a `blur` event on it.

Default value: `false`

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.

Empties out the sync validator list.

When you add or remove a validator at run time, you must call `updateValueAndValidity()` for the new validation to take effect.

Marks the control as `dirty`.

When false or not supplied, marks all direct ancestors. Default is false.

If the control has any children, also marks all children as `untouched` and recalculates the `touched` status of all parent controls.

* Marks the control as `dirty`.

When false or not supplied, marks all direct ancestors. Default is false.

If the control has any children, also marks all children as `untouched` and recalculates the `touched` status of all parent controls.

Marks the control as `dirty` if the user has changed the value in the UI; compare `pristine`. Programmatic changes to a control's value do not mark it dirty.

When false or not supplied, **A control is `dirty` if the user has changed the value in the UI; compare `pristine`.**

Programmatic changes to a control’s value do not mark it dirty.

When false or not supplied, a `blur` event on it.

Reports the update strategy of the `AbstractControl` (meaning the event on which the control updates itself).

Possible values: "change" | "blur" | "submit".

Default value: `false`

Sets the asynchronous 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.

Empties out the async validator list.

When you add or remove a validator at run time, you must call `updateValueAndValidity()` for the new validation to take effect.

Empties out the asynchronous validators that are active on this control.

Marks the control as `touched`. A control is touched by focus and blur events that do not change the value.

Programmatic changes to a control’s value do not mark it dirty.

When false or not supplied, marks all direct ancestors. Default is false.

If the control has any children, also marks all children as `untouched` and recalculates the `touched` status of all parent controls.

Marks the control as `dirty`.

When false or not supplied, marks all direct ancestors. Default is false.

If the control has any children, also marks all children as `untouched` and recalculates the `touched` status of all parent controls.

Marks the control as `dirty` if the user has changed the value in the UI; compare `pristine`. Programmatic changes to a control’s value do not mark it dirty.

When false or not supplied, a `blur` event on it.

Reports the update strategy of the `AbstractControl` (meaning the event on which the control updates itself).

Possible values: "change" | "blur" | "submit".

Default value: `false`

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.

Empties out the sync validator list.

When you add or remove a validator at run time, you must call `updateValueAndValidity()` for the new validation to take effect.

Marks the control as `dirty`.

When false or not supplied, marks all direct ancestors. Default is false.

If the control has any children, also marks all children as `untouched` and recalculates the `touched` status of all parent controls.

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When false or not supplied, marks all direct ancestors. Default is false.

If the control has any children, also marks all children as `untouched` and recalculates the `touched` status of all parent controls.

Marks the control as `dirty` if the user has changed the value in the UI; compare `pristine`. Programmatic changes to a control’s value do not mark it dirty.

When false or not supplied, a `blur` event on it.

Reports the update strategy of the `AbstractControl` (meaning the event on which the control updates itself).

Possible values: "change" | "blur" | "submit".

Default value: `false`

Sets the asynchronous 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.

Empties out the async validator list.

When you add or remove a validator at run time, you must call `updateValueAndValidity()` for the new validation to take effect.

Empties out the asynchronous validators that are active on this control.

Marks the control as `touched`. A control is touched by focus and blur events that do not change the value.

Programmatic changes to a control’s value do not mark it dirty.

When false or not supplied, marks all direct ancestors. Default is false.

If the control has any children, also marks all children as `untouched` and recalculates the `touched` status of all parent controls.

Marks the control as `dirty`.

When false or not supplied, marks all direct ancestors. Default is false.

If the control has any children, also marks all children as `untouched` and recalculates the `touched` status of all parent controls.

Marks the control as `dirty` if the user has changed the value in the UI; compare `pristine`. Programmatic changes to a control’s value do not mark it dirty.

When false or not supplied, a `blur` event on it.

Reports the update strategy of the `AbstractControl` (meaning the event on which the control updates itself).

Possible values: "change" | "blur" | "submit".

Default value: `false`

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.

Empties out the sync validator list.

When you add or remove a validator at run time, you must call `updateValueAndValidity()` for the new validation to take effect.

Marks the control as `dirty`.

When false or not supplied, marks all direct ancestors. Default is false.

If the control has any children, also marks all children as `untouched` and recalculates the `touched` status of all parent controls.

Marks the control as `dirty` if the user has changed the value in the UI; compare `pristine`. Programmatic changes to a control’s value do not mark it dirty.

When false or not supplied, a `blur` event on it.

Reports the update strategy of the `AbstractControl` (meaning the event on which the control updates itself).

Possible values: "change" | "blur" | "submit".

Default value: `false`

Sets the asynchronous 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.
...
### Manually set the errors for a control

```javascript
*### Manually set the errors for a control

* ```
```
```
```
### Retrieve a nested control

* For example, to get a `name` control nested within a `person` subgroup:

```javascript
this.form.get('person.name');
```

* OR *

```javascript
this.form.get(['person', 'name']);
```

---

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

---

```javascript
AbstractControl.prototype._updateTouched = function (opts) {
  if (opts === void 0) { opts = {}; }
  this.pristine = !this._anyControlsDirty();
  if (this._parent && !opts.onlySelf) {
    this._parent._updatePristine(opts);
  }
}
```

---

```javascript
AbstractControl.prototype._updatePristine = function (opts) {
  if (opts === void 0) { return; }
  this._parent._updatePristine(opts);
}
```

---

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

---

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

---

```javascript
AbstractControl.prototype._find = function (control, path, dot) {
  if (path) {
    var control = path.substr(0, 1) === dot ? control : control[path];
    return this._find(control, path.substr(1), dot);
  }
  return control;
}
```

---

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

---

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

---

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

---

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

---

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

---

```javascript
AbstractControl.prototype._addError = function (error) {
  this.errors = this.errors || new core.ErrorClass();
  this.errors[error.code] = error;
  return this;
}
```

---

```javascript
AbstractControl.prototype.removeError = function (errorCode) {
  delete this.errors[errorCode];
  return this;
}
```

---

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

---

```javascript
AbstractControl.prototype.getError = function (errorCode, path) {
  var control = path ? this.get(path) : this;
  return control && control.errors ? control.errors[errorCode] : null;
}
```

---

```javascript
function _find(control, path, dot) {
  return path ? control[path] : control;
}
```

---

```javascript
Object.defineProperty(AbstractControl.prototype, "root", {
  enumerable: true,
  configurable: true
});
```

---

```javascript
AbstractControl.prototype.hasError = function (errorCode, path) {
  return
```
### Initializing Form Controls

- Instantiate a `FormControl`, with an initial value.
  ```ts
  const control = new FormControl('some value');
  ```

- Configure the control to update on a submit event.
  ```ts
  const control = new FormControl('', { updateOn: 'submit' });
  ```

- Configure the control to update on a blur event.
  ```ts
  const control = new FormControl('', { updateOn: 'blur' });
  ```

- Reset the control back to an initial value.
  ```ts
  control.reset({ value: 'some value', disabled: true });
  ```

### Reset the control back to an initial value

You reset to a specific form state by passing through a standalone value or a form state object that contains both a value and a disabled state.

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

```javascript
function (name, control) {
    this.registerControl(name, control);
    this.updateValueAndValidity();
}
```

### Add a control to this group.

This method also updates the value and validity of the control.

```javascript
function addControl(name, control) {
    if (!name || !control) return;
    const form = new FormGroup({ first: new FormControl('Nancy'), Validators.minLength(2),
        second: new FormControl('Drew'),
    });
    form.addControl('first', new FormControl('Nancy', Validators.minLength(2)),
        validators: [Validators.minLength(2)],
    );
    console.log(form.value);  // {first: 'Nancy', second: 'Drew'}
    ```

### Create a form group with 2 controls

```javascript
FormGroup.prototype.addControl = function (name, control) {
    if (!name || !control) return;
    const form = new FormGroup({
        first: new FormControl('Nancy'),
        Validators.minLength(2),
        second: new FormControl('Drew'),
    });
    form.addControl('first', new FormControl('Nancy', Validators.minLength(2)),
        validators: [Validators.minLength(2)],
    );
    console.log(form.value);  // {first: 'Nancy', second: 'Drew'}
    ```

### Create a form group with a single control

```javascript
FormGroup.prototype.addControl = function (name, control) {
    if (!name || !control) return;
    const form = new FormGroup({
        first: new FormControl('Nancy', Validators.minLength(2)),
        second: new FormControl('Drew'),
    });
    form.addControl('first', new FormControl('Nancy', Validators.minLength(2)),
        validators: [Validators.minLength(2)],
    );
    console.log(form.value);  // {first: 'Nancy', second: 'Drew'}
    ```

### Update a group of controls

```javascript
FormGroup.prototype.updateValueAndValidity = function () {
    // Implementation...
};
FormGroup.prototype.updateValueAndValidity();
```

### Update a group of controls synchronously

```javascript
FormGroup.prototype.updateValueAndValidity({ onlySelf: true, emitEvent: false });
```

### Update a group of controls asynchronously

```javascript
FormGroup.prototype.updateValueAndValidity({ onlySelf: true, emitEvent: false });
```

### Update a group of controls with validators and async validators

```javascript
FormGroup.prototype.updateValueAndValidity({ onlySelf: true, emitEvent: false });
```

---

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this._reduceChildren( { }, function (acc, control, name) { if (control.enabled || this.disabled) { acc[name] = control.value; } else if (control.enabled) { this.controls[name] = null } }); return acc; };

/**
 * Tracks the value and validity state of an array of
 * 'FormControl', 'FormGroup' or 'FormArray' instances.
 * A 'FormArray' aggregates the values of each child 'FormControl'
 * into an array. It calculates its status by reducing the status values of its children. For example, if one of the controls in a 'FormArray' is invalid, the entire array becomes invalid.
 * This is one of the three fundamental building blocks used to define forms in Angular.
 * Along with 'FormControl' and 'FormGroup', 'FormArray' provides a convenient way to group related controls together. A 'FormArray' is a collection of child controls, each of which can have its own unique properties.
 * The two types of validators are 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. For instance, you can set the `updateOn` property for all controls in a form array to `'blur'`, which means that the form array will become invalid only when at least one child control's value changes.
 * By default, the form array's `updateOn` property is set to `'blur'`, unless the child control has explicitly specified a different `updateOn` value. In such cases, the form array will become invalid only when the specified control's value changes. The `updateOn` property can be `null` (the default), `'blur'`, `'change'`, `'blur|change'`, or `'body'`.
 * 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. In such cases, the form array will become invalid only when the specified control's value changes. The `updateOn` property can be `null` (the default), `'blur'`, `'change'`, `'blur|change'`, or `'body'`.
 * To change the controls in the array, use the `push`, `insert`, `removeAt` or `clear` methods in `FormArray` itself. These methods ensure the controls are properly tracked in the form's hierarchy. Do not modify the array of `AbstractControl`s used to instantiate a `FormGroup`. By doing so, you might break change detection.
 * A 'FormArray' directly, as that result in strange and unexpected behavior such as break change detection.
 * As an example, if one of the controls in a 'FormArray' is invalid, the entire array becomes invalid, even if only one child control's value has changed.
 * This is because the `FormArray` aggregates the values of each child control 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.
 * By default, the form array's `updateOn` property is set to `'blur'`, unless the child control has explicitly specified a different `updateOn` value. In such cases, the form array will become invalid only when the specified control's value changes. The `updateOn` property can be `null` (the default), `'blur'`, `'change'`, `'blur|change'`, or `'body'`.
 * To change the controls in the array, use the `push`, `insert`, `removeAt` or `clear` methods in `FormArray` itself. These methods ensure the controls are properly tracked in the form's hierarchy. Do not modify the array of `AbstractControl`s used to instantiate a `FormGroup`. By doing so, you might break change detection.

### Adding or removing controls from a form array

To add or remove controls from a form array, use the `push`, `insert`, `removeAt`, or `clear` methods in `FormArray` itself. These methods ensure the controls are properly tracked in the form's hierarchy. Do not modify the array of `AbstractControl`s used to instantiate a `FormGroup`. By doing so, you might break change detection.

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

```javascript
const arr = new FormArray([ new FormControl('Nancy', Validators.minLength(2)), new FormControl('Drew') ]); // 'Nancy', 'Drew'
```

```javascript
const arr = new FormArray([ new FormControl({ value: 'Nancy', disabled: true }) ]); // 'Nancy'
```

```javascript
const arr = new FormArray([ new FormControl({ value: 'Nancy', disabled: true }), new FormControl({ value: 'Drew', disabled: true }) ]); // 'Nancy', 'Drew'
```

```javascript
const arr = new FormArray([ new FormControl({ value: 'Nancy', disabled: true }) ]); // 'Nancy'
```

```javascript
const arr = new FormArray([ new FormControl({ value: 'Nancy', disabled: true }), new FormControl({ value: 'Drew', disabled: true }) ]); // 'Nancy', 'Drew'
```

```javascript
const arr = new FormArray([ new FormControl({ value: 'Nancy', disabled: true }) ]); // 'Nancy'
```

```javascript
const arr = new FormArray([ new FormControl({ value: 'Nancy', disabled: true }), new FormControl({ value: 'Drew', disabled: true }) ]); // 'Nancy', 'Drew'
```

```javascript
const arr = new FormArray([ new FormControl({ value: 'Nancy', disabled: true }) ]); // 'Nancy'
```

```javascript
const arr = new FormArray([ new FormControl({ value: 'Nancy', disabled: true }), new FormControl({ value: 'Drew', disabled: true }) ]); // 'Nancy', 'Drew'
```

```javascript
const arr = new FormArray([ new FormControl({ value: 'Nancy', disabled: true }) ]); // 'Nancy'
```

```javascript
const arr = new FormArray([ new FormControl({ value: 'Nancy', disabled: true }), new FormControl({ value: 'Drew', disabled: true }) ]); // 'Nancy', 'Drew'
```

```javascript
const arr = new FormArray([ new FormControl({ value: 'Nancy', disabled: true }) ]); // 'Nancy'
```

```javascript
const arr = new FormArray([ new FormControl({ value: 'Nancy', disabled: true }), new FormControl({ value: 'Drew', disabled: true }) ]); // 'Nancy', 'Drew'
```

```javascript
const arr = new FormArray([ new FormControl({ value: 'Nancy', disabled: true }) ]); // 'Nancy'
```

```javascript
const arr = new FormArray([ new FormControl({ value: 'Nancy', disabled: true }), new FormControl({ value: 'Drew', disabled: true }) ]); // 'Nancy', 'Drew'
```

```javascript
const arr = new FormArray([ new FormControl({ value: 'Nancy', disabled: true }) ]); // 'Nancy'
```

```javascript
const arr = new FormArray([ new FormControl({ value: 'Nancy', disabled: true }), new FormControl({ value: 'Drew', disabled: true }) ]); // 'Nancy', 'Drew'
```

```javascript
const arr = new FormArray([ new FormControl({ value: 'Nancy', disabled: true }) ]); // 'Nancy'
```

```javascript
const arr = new FormArray([ new FormControl({ value: 'Nancy', disabled: true }), new FormControl({ value: 'Drew', disabled: true }) ]); // 'Nancy', 'Drew'
```

```javascript
const arr = new FormArray([ new FormControl({ value: 'Nancy', disabled: true }) ]); // 'Nancy'
```

```javascript
const arr = new FormArray([ new FormControl({ value: 'Nancy', disabled: true }), new FormControl({ value: 'Drew', disabled: true }) ]); // 'Nancy', 'Drew'
```

```javascript
const arr = new FormArray([ new FormControl({ value: 'Nancy', disabled: true }) ]); // 'Nancy'
```

```javascript
const arr = new FormArray([ new FormControl({ value: 'Nancy', disabled: true }), new FormControl({ value: 'Drew', disabled: true }) ]); // 'Nancy', 'Drew'
```

```javascript
const arr = new FormArray([ new FormControl({ value: 'Nancy', disabled: true }) ]); // 'Nancy'
```

```javascript
const arr = new FormArray([ new FormControl({ value: 'Nancy', disabled: true }), new FormControl({ value: 'Drew', disabled: true }) ]); // 'Nancy', 'Drew'
```

```javascript
const arr = new FormArray([ new FormControl({ value: 'Nancy', disabled: true }) ]); // 'Nancy'
```

```javascript
const arr = new FormArray([ new FormControl({ value: 'Nancy', disabled: true }), new FormControl({ value: 'Drew', disabled: true }) ]); // 'Nancy', 'Drew'
```

```javascript
const arr = new FormArray([ new FormControl({ value: 'Nancy', disabled: true }) ]); // 'Nancy'
```
Options are passed to the `updateValueAndValidity` method.

```typescript
const arr = new FormArray([new FormControl(), new FormControl()]);
console.log(arr.value);   // [null, null]
```

```typescript
arr.setValue(['Nancy', 'Drew']);
console.log(arr.value);   // ['Nancy', 'Drew']
```

```typescript
arr.patchValue(['Nancy']);
```

```typescript
arr.value.forEach(function (newValue, index) {
    _this._throwIfControlMissing(index);
    _this.at(index).setValue(newValue, { onlySelf: true, emitEvent: options.emitEvent });
});
```

```typescript
this.updateValueAndValidity();
```

```typescript
this.controls[index]._registerOnCollectionChange(function () { });
this.updateValueAndValidity();
```

```typescript
this.controls.splice(index, 1);
```

```typescript
this.controls.splice(index, 0, control);
```

```typescript
this._registerControl(control);
```

```typescript
this.controls.splice(index, 1, control);
```

```typescript
this._registerControl(control);
```

```typescript
Object.defineProperty(FormArray.prototype, "length", { enumerable: true, configurable: true });
```

```typescript
this._onCollectionChange();
```

```typescript
this.controls.push(control);
this._registerControl(control);
this.updateValueAndValidity();
```
Sets the new value for the provided `NgControl` directive.

```javascript
interface NgControl {
  // ... other methods and properties ...
  setValue(value: any): void;
}
```

**NgForm.prototype.updateModel**

- **Parameters**:
  - `dir`: The `NgControl` directive instance.
  - `value`: The new value for the directive's control.

- **Returns**:
  - `void`

- **Description**:
  - Updates the control's value with the provided `value`.

```javascript
NgForm.prototype.updateModel = function (dir, value) {
  // ... implementation details ...
};
```

**NgForm.prototype.getFormGroup**

- **Parameters**:
  - `dir`: The `NgModelGroup` directive instance.

- **Returns**:
  - `FormGroup` or `null`

- **Description**:
  - Retrieves the `FormGroup` for the given `dir`.

```javascript
NgForm.prototype.getFormGroup = function (dir) { return this.form.get(dir.path); };
```

**NgForm.prototype.addFormGroup**

- **Parameters**:
  - `dir`: The `NgModelGroup` directive instance.

- **Returns**:
  - `void`

- **Description**:
  - Adds a new `FormGroup` instance to the form.

```javascript
NgForm.prototype.addFormGroup = function (dir) {
  // ... implementation details ...
};
```

**NgForm.prototype.removeFormGroup**

- **Parameters**:
  - `dir`: The `NgModelGroup` directive instance.

- **Returns**:
  - `void`

- **Description**:
  - Removes an `FormGroup` instance from the form.

```javascript
NgForm.prototype.removeFormGroup = function (dir) {
  // ... implementation details ...
};
```

**NgForm.prototype.addControl**

- **Parameters**:
  - `dir`: The `NgModel` directive instance.

- **Returns**:
  - `void`

- **Description**:
  - Adds a new `FormControl` instance to the form.

```javascript
NgForm.prototype.addControl = function (dir) {
  // ... implementation details ...
};
```

**NgForm.prototype.removeControl**

- **Parameters**:
  - `dir`: The `NgModel` directive instance.

- **Returns**:
  - `void`

- **Description**:
  - Removes a `FormControl` instance from the form.

```javascript
NgForm.prototype.removeControl = function (dir) {
  // ... implementation details ...
};
```

**NgForm.prototype.getControl**

- **Parameters**:
  - `dir`: The `NgModel` directive instance.

- **Returns**:
  - `null` or `FormControl`

- **Description**:
  - Retrieves a `FormControl` instance from the form.

```javascript
NgForm.prototype.getControl = function (dir) { return this.form.get(dir.path); };
```

**NgForm.prototype.getFormGroupForPath**

- **Parameters**:
  - `path`: The path to the `FormGroup`.

- **Returns**:
  - `FormGroup` or `null`

- **Description**:
  - Retrieves the `FormGroup` for the given `path`.

```javascript
NgForm.prototype.getFormGroupForPath = function (path) { return this.form.get(path); };
```

**NgForm.prototype.removeDir**

- **Parameters**:
  - `dir`: The `NgModelGroup` directive instance.

- **Returns**:
  - `void`

- **Description**:
  - Removes the `NgModelGroup` directive instance from the internal list of directives.

```javascript
NgForm.prototype.removeDir = function (dir) {
  // ... implementation details ...
};
```

**NgForm.prototype.registerControl**

- **Parameters**:
  - `control`: The `NgControl` directive instance.
  - `dir`: The `NgModelGroup` directive instance.

- **Returns**:
  - `void`

- **Description**:
  - Registers a new control with the `NgModelGroup`.

```javascript
NgForm.prototype.registerControl = function (control, dir) {
  // ... implementation details ...
};
```

**NgForm.prototype.unregisterControl**

- **Parameters**:
  - `control`: The `NgControl` directive instance.
  - `dir`: The `NgModelGroup` directive instance.

- **Returns**:
  - `void`

- **Description**:
  - Unregisters a control from the `NgModelGroup`.

```javascript
NgForm.prototype.unregisterControl = function (control, dir) {
  // ... implementation details ...
};
```

**NgForm.prototype.getControls**

- **Returns**:
  - `FormControlsMap` or `null`

- **Description**:
  - Retrieves a map of the controls in this group.

```javascript
NgForm.prototype.getControls = function (dir) { return this.form.controls; };
```

**NgForm.prototype.getDirectives**

- **Returns**:
  - `NgModelGroup` instances or `null`

- **Description**:
  - Retrieves a list of directives.

```javascript
NgForm.prototype.getDirectives = function (dir) { return this._directives; };
```

**NgForm.prototype.getDirs**

- **Returns**:
  - `NgModelGroup` instances or `null`

- **Description**:
  - Retrieves a list of `NgModelGroup` directives.

```javascript
NgForm.prototype.getDirs = function (dir) { return this._directives; };
```

**NgForm.prototype.removeDirFromGroup**

- **Parameters**:
  - `dir`: The `NgModelGroup` directive instance.

- **Returns**:
  - `void`

- **Description**:
  - Removes a `NgModelGroup` from a `FormGroup`.

```javascript
NgForm.prototype.removeDirFromGroup = function (dir) {
  // ... implementation details ...
};
```

**NgForm.prototype.getControlPath**

- **Parameters**:
  - `control`: The `NgControl` directive instance.

- **Returns**:
  - `string` or `null`

- **Description**:
  - Retrieves the path of a control.

```javascript
NgForm.prototype.getControlPath = function (control) { return control.path; };
```

**NgForm.prototype.getAllControls**

- **Returns**:
  - `FormControlsMap` or `null`

- **Description**:
  - Retrieves all controls from the form.

```javascript
NgForm.prototype.getAllControls = function () { return this.form.controls; };
```

**NgForm.prototype.getAllGroups**

- **Returns**:
  - `FormGroupMap` or `null`

- **Description**:
  - Retrieves all groups from the form.

```javascript
NgForm.prototype.getAllGroups = function () { return this.form.groups; };
```

**NgForm.prototype.findDir**

- **Parameters**:
  - `path`: The path to find a directive.

- **Returns**:
  - `NgModelGroup` or `null`

- **Description**:
  - Finds a `NgModelGroup` by path.

```javascript
NgForm.prototype.findDir = function (path) { return this._findDir(path); };
```

**NgForm.prototype.findFormGroup**

- **Parameters**:
  - `path`: The path to find a `FormGroup`.

- **Returns**:
  - `FormGroup` or `null`

- **Description**:
  - Finds a `FormGroup` by path.

```javascript
NgForm.prototype.findFormGroup = function (path) { return this._findFormGroup(path); };
```

**NgForm.prototype.findGroup**

- **Parameters**:
  - `path`: The path to find a `FormGroup`.

- **Returns**:
  - `FormGroup` or `null`

- **Description**:
  - Finds a `FormGroup` by path.

```javascript
NgForm.prototype.findGroup = function (path) { return this._findGroup(path); };
```

**NgForm.prototype.createFormGroup**

- **Parameters**:
  - `formBuilder`: The `FormBuilder` instance.

- **Returns**:
  - `FormGroup` or `null`

- **Description**:
  - Creates a new `FormGroup` instance.

```javascript
NgForm.prototype.createFormGroup = function (formBuilder) { return formBuilder.group({}); };
```

**NgForm.prototype.updateModelAsync**

- **Parameters**:
  - `dir`: The `NgControl` directive instance.
  - `value`: The new value for the control.

- **Returns**:
  - `Promise<void>`

- **Description**:
  - Updates the control's value asynchronously.

```javascript
NgForm.prototype.updateModelAsync = function (dir, value) { return this.updateModel(dir, value).then(); };
```

**NgForm.prototype.ngAfterViewInit**

- **Returns**:
  - `void`

- **Description**:
  - Registers Lifecycle methods after the view is initialized.

```javascript
NgForm.prototype.ngAfterViewInit = function () { this._setUpdateStrategy(); };
```

**NgForm.prototype.ngOnInit**

- **Returns**:
  - `void`

- **Description**:
  - Registers Lifecycle methods called on initialization.

```javascript
NgForm.prototype.ngOnInit = function () { this._setUpdateStrategy(); };
```

**NgForm.prototype.composeAsyncValidators**

- **Parameters**:
  - `asyncValidators`: An array of validators.

- **Returns**:
  - `FormBuilder` or `null`

- **Description**:
  - Composes async validators for form controls.

```javascript
NgForm.prototype.composeAsyncValidators = function (asyncValidators) { return this.buildValidators(asyncValidators); };
```

**NgForm.prototype.buildValidators**

- **Parameters**:
  - `validators`: An array of validators.

- **Returns**:
  - `FormBuilder` or `null`

- **Description**:
  - Builds validators for form controls.

```javascript
NgForm.prototype.buildValidators = function (validators) { return this.composeValidators(validators); };
```

**NgForm.prototype.composeValidators**

- **Parameters**:
  - `validators`: An array of validators.

- **Returns**:
  - `FormBuilder` or `null`

- **Description**:
  - Composes validators for form controls.

```javascript
NgForm.prototype.composeValidators = function (validators) { return this.composeValidators(validators); };
```

**NgForm.prototype.formControlValidation**

- **Parameters**:
  - `control`: The `NgControl` directive instance.
  - `async`: A boolean indicating if the validation is async.

- **Returns**:
  - `Promise<void>`

- **Description**:
  - Validates the form control.

```javascript
NgForm.prototype.formControlValidation = function (control, async) { return this._validateControl(control, async); };
```
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---

```javascript
@description
    * The synchronous validators registered with this group.
    */
    get: function () {
        return composeValidators(this._validators);
    },
    enumerable: true,
    configurable: true
}]

Object.defineProperty(AbstractFormGroupDirective.prototype, "validator", {
    /**
     * @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
});
```

---

```javascript
Object.defineProperty(AbstractFormGroupDirective.prototype, "path", {
    /**
     * @description
     * The path to this group from the top-level directive.
     */
    get: function () {
        return controlPath(this.name == null ? this.name : this.name.toString(), this._parent);
    },
    enumerable: true,
    configurable: true
});
```

---

```javascript
@description
    * The internal callback method triggered before the instance is destroyed.
    * Removes the group from its parent group.
    */
    ngOnDestroy: function () {
        var AbstractFormGroupDirective = /** @class */ (function (_super) {
            __extends(AbstractFormGroupDirective, _super);
            function AbstractFormGroupDirective() {
                return _super !== null && _super.apply(this, arguments) || this;
            }
            /**
             * @description
             * A base class for code shared between the 'NgModelGroup' and 'FormGroupName' directives.
             */
            var AbstractFormGroupDirective = function () {
                return NgForm;
            };

            /**
             * @license
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             * found in the LICENSE file at https://angular.io/license
             */
            /**
             * @publicApi
             */
            function AbstractFormGroupDirective() {
                return AbstractFormGroupDirective._super !== null && AbstractFormGroupDirective._super.apply(this, arguments) || this;
            }
            /**
             * @description
             * The `FormGroup` bound to this directive.
             */
            get: function () {
                return this.formDirective.getFormGroup(this);
            },
            enumerable: true,
            configurable: true
        };
```

---

```javascript
NgForm.prototype.resetForm = function (value) {
    if (value === void 0) { value = undefined; }
    if (this.options.updateOn != null) {
        this.form.reset(value);
    }
    this.submitted = false;
    syncPendingControls(this.form, this._directives);
};
```

---

```javascript
NgForm.prototype.onReset = function () {
    this.resetForm();
}
```
Object.defineProperty(AbstractFormGroupDirective.prototype, \"asyncValidator\", {\n    /**\n     * The async validators registered with this group.\n     */
    get: function () {\n        return composeAsyncValidators(this._asyncValidators);\n    },\n    enumerable: true,\n    configurable: true\n});\n/** @internal */\nAbstractFormGroupDirective.prototype._checkParentType = function () {\n    if (!(this._parent instanceof AbstractFormGroupDirective)) {\n        TemplateDrivenErrors.modelParentException();\n    }\n};\n/** @class */\nfunction TemplateDrivenErrors() {\n    TemplateDrivenErrors.modelGroupNameException = function () {\n        throw new Error("\n      ngModel cannot be used to register form controls with a parent formGroupName or formArrayName directive.\n\n      Option 1: Use formGroupName instead of ngModel (reactive strategy):\n\n      " + FormErrorExamples.formGroupName + "\n\n      Option 2: Update ngModel's parent be ngModelGroup (template-driven strategy):\n\n      " + FormErrorExamples.ngModelGroup);
    };
    TemplateDrivenErrors.formGroupNameException = function () {\n        throw new Error("\n      ngModel cannot be used to register form controls with a parent formGroupName or formArrayName directive.\n\n      Option 1: Use formGroupName instead of ngModel (reactive strategy):\n\n      " + FormErrorExamples.formGroupName + "\n\n      Option 2: Update ngModel's parent be ngModelGroup (template-driven strategy):\n\n      " + FormErrorExamples.ngModelGroup);
    };
    return TemplateDrivenErrors;
}();\n/**\n * @license
 * Copyright Google Inc. All Rights Reserved.\n * Use of this source code is governed by an MIT-style license that can be found in the LICENSE file at https://angular.io/license
 */
var TemplateDrivenErrors = /** @class */ (function () {
    function TemplateDrivenErrors() {
    }
    TemplateDrivenErrors.modelParentException = function () {\n        throw new Error("\n      ngModel cannot be used to register form controls with a parent formGroup directive.\n      Try using\n      formGroup's partner directive \"formControlName\" instead. Example:\n\n      \n\n      Or, if you'd like to avoid registering this form control, indicate that it's standalone in ngModelOptions:\n\n      Example:\n\n    };
    TemplateDrivenErrors.formGroupNameException = function () {\n        throw new Error("\n      ngModel cannot be used to register form controls with a parent formGroupName or formArrayName directive.\n\n      Option 1: Use formGroupName instead of ngModel (reactive strategy):\n\n      " + FormErrorExamples.formGroupName + "\n\n      Option 2: Update ngModel's parent be ngModelGroup (template-driven strategy):\n\n      " + FormErrorExamples.ngModelGroup);
    };
    return TemplateDrivenErrors;
}());\n/**\n * @license
 * Copyright Google Inc. All Rights Reserved.\n * Use of this source code is governed by an MIT-style license that can be found in the LICENSE file at https://angular.io/license
 */
var modelGroupProvider = {
    provide: ControlContainer,
    useExisting: core.forwardRef(function () { return NgModelGroup; })
};
/**\n * @description
 * Creates and binds a `FormGroup` instance to a DOM element.
 *\n * This directive can only be used as a child of `NgForm` (within `<form>` tags).
 *\n * 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.
 *\n * Provide a name for the sub-group and it will become the key for the sub-group in the form's full value. If you need direct access, export the directive into a local template variable using `ngModelGroup` (ex: `#myGroup="ngModelGroup"`).
 *\n * The following example shows you how to combine controls together in a sub-group of the form.
 *\n * @example forms/ts/ngModelGroup/ng_model_group_example.ts region='Component'
 *\n * @ngModule FormsModule
 * @publicApi
 */
var NgModelGroup = /** @class */ (function (_super) {
    __extends(NgModelGroup, _super);
    function NgModelGroup(parent, validators, asyncValidators) {
        var _this = _super.call(this) || this;
        _this._parent = parent;
        _this._validators = validators;
        _this._asyncValidators = asyncValidators;
        return _this;
    }
    NgModelGroup.prototype._checkParentType = function () {\n        if (!(this._parent instanceof CoreContainer)) {\n            TemplateDrivenErrors.modelParentException();\n        }\n    };
    NgModelGroup.prototype._checkParentName = function () {\n        if (!(this._parent instanceof FormControlName)) {\n            TemplateDrivenErrors.formGroupNameException();\n        }\n    };
    return NgModelGroup;
}());\n/** @class */\nfunction NgModelGroupGroupProvider() {\n    var NgModelGroup = /** @class */ (function (_super) {
      __extends(NgModelGroup, _super);
      function NgModelGroup(parent, validators, asyncValidators) {\n          var _this = _super.call(this) || this;
          _this._parent = parent;
          _this._validators = validators;
          _this._asyncValidators = asyncValidators;
          return _this;
      }
      NgModelGroup.prototype = \n      NgModelGroupGroupProvider();\n      NgModelGroup.prototype.constructor = NgModelGroup;
      NgModelGroupGroupProvider = \n      NgModelGroupGroupProvider.then(function () {\n          \n      }\n    }\n});\n    return NgModelGroupGroupProvider;
}();\n\nOpen Source Used In MSX vBranch Service Pack 3.9.0  6500
core.Directive({ selector: '[ngModelGroup]', providers: [modelGroupProvider], exportAs: 'ngModelGroup' }),

    /**
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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 
     *   (ngModel)="myValue" #myModel="ngModel">
     * ```
     * I.e. `ngModel` can export itself on the element and then be used in the template.
     * Normally, this would result in expressions before the `input` that use the exported directive
to have and old value as they have been dirty checked before. As this is a very common case for `ngModel`, we added this second change detection run.
     * Notes:
     * - this is just one extra run no matter how many `ngModel` have been changed.
     * - this is a general problem when using `exportAs` for directives!
     * - var resolvedPromise$1 = (0$1)();
     */

    /**
     * @description
     * Creates a `FormControl` instance from a domain model and binds it to a form control element.
     * 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 class sets the value in the view. If you have a two-way binding with `[]` syntax (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="ngModelVar"`).
     * You then access the control using the directive's `control` property, but most properties used (like `valid` and `dirty`) fall through to the control anyway for direct access.
     * See a full list of properties directly available in `AbstractControlDirective`.
     * @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=\$\{ngFormVar\}`).
     * 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:
     * 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.
     * The name attribute is used within a custom form component, and the name `@Input` property serves a different purpose.
     */
<my-person-control name="Nancy" ngModel [ngModelOptions]="{name: 'user'}"></my-person-control>

@publicApi

@publicApi

var NgModel = /** @class */ (function (_super) {
    __extends(NgModel, _super);

function NgModel(parent, validators, asyncValidators, valueAccessors) {
    var_this = super.call(this);
    this.control = new FormControl();
    /** @internal */
    this._registered = false;

    this.update = new core.EventEmitter();
    this._parent = parent;
    this._rawValidators = validators || [];
    this._rawAsyncValidators = asyncValidators || [];
    this.valueAccessor = selectValueAccessor(this, valueAccessors);
    return this;
}

NgModel.prototype.ngOnChanges = function (changes) {
    this._checkForErrors();
    if (!this._registered)
        this._setUpControl();
    if ('isDisabled' in changes) {
        this._updateDisabled(changes);
    }
    if (isPropertyUpdated(changes, this.viewModel)) {
        this._updateValue(this.model);
        this.viewModel = this.model;
    }
}

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

Object.defineProperty(NgModel.prototype, "path", {
    get: function () {
        return this._parent ? controlPath(this.name, this._parent) : [this.name];
    },
    enumerable: true,
    configurable: true
});

Object.defineProperty(NgModel.prototype, "formDirective", {
    get: function () { return this._parent ? this._parent.formDirective : null; },
    enumerable: true,
    configurable: true
});

Object.defineProperty(NgModel.prototype, "validator", {
    get: function () { return composeValidators(this._rawValidators); },
    enumerable: true,
    configurable: true
});

Object.defineProperty(NgModel.prototype, "asyncValidator", {
    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) {
        TemplateDrivenErrors.formGroupNameException();
    }
    else if (!!(this._parent instanceof NgModelGroup)) {
        TemplateDrivenErrors.formGroupNameException();
    }
};
TemplateDrivenErrors.modelParentException();
  };
  NgModel.prototype._checkName = function () {
      if (this.options & & this.options.name) this.name = this.options.name
  };
  NgModel.prototype._updateValue = function (value) {
      var this = this;
      resolvedPromise$.then(function () { _this.control.setValue(value, { emitViewToModelChange: false }); });
  };
  NgModel.prototype._updateDisabled = function (changes) {
      var this = this;
      if (isDisabled & & !_this.control.disabled) {
          this.control.disable();
      } else if (isDisabled & & _this.control.disabled) {
          this.control.enable();
      }
      resolvedPromise$.then(function () { _this.control.setValue(value, { emitViewToModelChange: false }); });
  };

  __decorate([], core.Input(), __metadata("design:type", String), NgModel.prototype, "name", void 0);
  __decorate([], core.Input('disabled'), __metadata("design:type", Boolean), NgModel.prototype, "isDisabled", void 0);
  __decorate([], core.Input('ngModel'), __metadata("design:type", Object), NgModel.prototype, "model", void 0);
  __decorate([], core.Input('ngModelOptions'), __metadata("design:type", Object), NgModel.prototype, "options", void 0);
  __decorate([], core.Output('ngModelChange'), __metadata("design:type", Object), NgModel.prototype, "update", void 0);

  NgModel = __decorate([], core.Directive({
      selector: '[ngModel]:not([formControlName]):not([formControl])',
      host: { 'novalidate': '' },
  }), 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:
 * ```html
 * <form ngNativeValidate></form>
 * ```
 * 
 * @publicApi
 * @ngModule ReactiveFormsModule
 * @ngModule FormsModule
 */

var NgNoValidate = /** @class */ (function () {
    function NgNoValidate() {
    }
    NgNoValidate = __decorate([], 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; }) };

/**
 * * Syncs a standalone `FormControl` instance to a form control element.
 * * Supports 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"/>
 * ```
 * 
 * @see ReactiveFormsGuide
 * @see FormControl
 * @see AbstractControl
 * @see `FormControl`
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* Synchronous validator function composed of all the synchronous validators registered with this Object.defineProperty(FormControlDirective.prototype, "validator", {
  /**
   * @description
   * Returns an array that represents the path from the top-level form to this this.model;
  }
});

* 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):

```
<control>
  "some value"
</control>
```

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.

* After (choice 2 - use template-driven forms):

```
<control>
  "some value"
</control>
```

```html
<form>
  <control>
    "some value"
  </control>
</form>
```

```ts
this.control.setValue('some value');
```
directive.
 */
            get: function () { return composeValidators(this._rawValidators); },
        };
        enumerable: true,
        configurable: true
    });
Object.defineProperty(FormControlDirective.prototype, "asyncValidator", {
    /**
     * Async validator function composed of all the async validators registered with this
     * directive.
     */
    get: function () { return composeAsyncValidators(this._rawAsyncValidators); },
    enumerable: true,
    configurable: true
});
Object.defineProperty(FormControlDirective.prototype, "control", {
    /**
     * The `FormControl` bound to this directive.
     */
    get: function () { return this.form; },
    enumerable: true,
    configurable: true
});
Object.defineProperty(FormControlDirective.prototype, "controlName", {
    /**
     * The name of the `FormGroup` bound to this directive.
     */
    get: function () { return this.formName; },
    enumerable: true,
    configurable: true
});
Object.defineProperty(FormControlDirective.prototype, "ngModelChange", {
    /**
     * The `ngModel` event that occurs when the model changes.
     */
    get: function () { return this._update; },
    enumerable: true,
    configurable: true
});
Object.defineProperty(FormControlDirective.prototype, "formControlName", {
    /**
     * The `FormControlName` bound to this directive.
     */
    get: function () { return this.formControlName; },
    enumerable: true,
    configurable: true
});
Object.defineProperty(FormControlDirective.prototype, "field`,
    function (newValue) {
        this.viewModel = newValue;
        this.update.emit(newValue);
    };

    FormControlDirective.prototype._isControlChanged = function (changes) {
        return changes.hasOwnProperty('form');
    };
    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(3, core.Inject(NG_VALUE_ACCESSOR)),
            __param(4, core.Inject(NG_MODEL_WITH_FORM_CONTROL_WARNING)),
        
        ], FormControlDirective, { '__param(6)';
            __metadata("design:paramtypes", 
                [Array,
                Array, Array, Object]
        
}, return FormControlDirective;
    }(NgControl));

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     *
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     * found in the LICENSE file at https://angular.io/license
     */
    var formDirectiveProvider$1 = {
        provide: ControlContainer,
        useClass: core.forwardRef(function () { return FormGroupDirective; })
    };
    /**
     * Binds an existing `FormGroup` to a DOM element.
     *
     * This directive accepts
     * an existing `FormGroup` instance. It will then use this
     * 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.
     * @example forms/ts/simpleFormGroup/simple_form_group_example.ts
     * region='Component'
     * var formDirectiveProvider$1 = [
     *     provide:
     *         ControlContainer,
     *     useClass: core.forwardRef(function () { 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;
            /**
             * Returns the form submission has been triggered.
             */
            function FormGroupDirective(_validators, _asyncValidators) {
                var _this = _super.call(this) || this;
                _this._validators = _validators;
                _this._asyncValidators = _asyncValidators;
                return _this;
            };
            return _this;
        }
    }(NgControl));

    FormControlDirective

Tracks the `FormGroup` bound to this directive.

```typescript
@description
_this.form = null; /*
@description
_emits an event when the form submission has been triggered. */

!!!_this.ngSubmit = new core.EventEmitter();

return _this; } */
```
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
* @returns
FormGroupDirective.prototype.onSubmit = function (event) {
    this.submitted = true;
    syncPendingControls(this.form, this.directives);
    this.ngSubmit.emit(event);
    return false;
}
/**
 * @description
 * Method called when the `reset` event is triggered on the form.
 * @returns
FormGroupDirective.prototype.onReset = function () {
    this.resetForm();
}
/**
 * @description
 * Resets the form to an initial value and resets its submitted status.
 * @returns
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 });
}
FormGroupDirective.prototype._updateRegistrations = function () {
    var _this = this;
    this.form._registerOnCollectionChange(function () { return _this._updateDomValue(); });
    if (this._oldForm)
        this._oldForm._registerOnCollectionChange(function () { });
    this._oldForm = this.form;
}
/**
 * @description
 * Syncs a nested `FormGroup` to a DOM element.
 * This directive can only be used with a parent `FormGroupDirective`.
 * It accepts the string name of the nested `FormGroup` to link, and
 * looks for a `FormGroup` registered with that name in the parent `FormGroup` instance you passed into `FormGroupDirective`.
 * Use nested form groups to validate a sub-group of a form separately from the rest or to group the values of certain controls into their own nested object.
 * Access the group by name
 * The following example uses the `[]link AbstractControl#getName get` method to access the name
 * associated with a group:
 * `FormGroup\n  *   * "$\="ts\n  *   * this.form.getName();
  * `## Access individual controls in the group
 * The following example uses the `[]link AbstractControl#getName get` method to access individual controls within the group using dot syntax.
 * `this.form.getName('first');`  
 * `## Register a nested `FormGroup` within an existing `FormGroup` and provides methods to retrieve the nested `FormGroup` and individual controls.
 * @example
The `FormGroupName` constructor accepts the parent `FormGroup`, validators, and async validators. It also provides a lifecycle method, `ngOnInit`, which is called when the directive's inputs are initialized. Additionally, it defines properties such as `control`, `formDirective`, and `path` to represent the current control and its path in the parent form. The `validator` and `asyncValidator` properties are defined to return the synchronous and async validators, respectively, with all validators being composed. This structure allows the `FormGroupName` to behave as a form group within a form array, providing a nested form structure that can be used for more complex form usage in Angular applications.
null 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] }),
    __param(0, core.Optional()),
    __param(0, core.Host()),
    __param(0, core.SkipSelf()),
    __param(1, core.Optional()),
    __param(1, core_SELF()),
    __param(1, core.Inject(NG_VALIDATORS)),
    __param(2, core.Optional()),
    __param(2, core_SELF()),
    __param(2, core.Inject(NG_ASYNC_VALIDATORS)),
    __metadata("design:paramtypes", [ControlContainer, Array, Array]),
  ]);
  return FormArrayName;
}

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 * https://angular.io/license
 */
var controlNameBinding = {
  provide: NgControl,
  useExisting: core.forwardRef(function () { return 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 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:
 * `RadioControlValueAccessor` * `SelectControlValueAccessor`
 *
 * ### Use with ngModel
 *
 * Support for using the `ngModel` input property and `ngModelChange` event with reactive forms
 * directives has been deprecated in Angular v6 and will be removed in a future version of Angular.
 *
 * Now deprecated:
 *
 * ```html
 * <form 
 *   *</form>
 * ```
 *
 * ```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
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;
        _this.update = new core.EventEmitter();
        _this._added = false;
        _this._ngModelWarningSent = false;
        _this._parent = parent;
        _this._rawValidators = validators || [];
        _this._rawAsyncValidators = asyncValidators || [];
        _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
});

Object.defineProperty(FormControlName.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 controlPath(this.name == null ? this.name : this.name.toString(), this._parent);
    },
    enumerable: true,
    configurable: true
});

Object.defineProperty(FormControlName.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(FormControlName.prototype, "validator", {
    /**
     * @description
     * Synchronous validator function composed of all the synchronous validators
     */
    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
     */
    get: function () {
        return composeAsyncValidators(this._rawAsyncValidators);
    },
    enumerable: true,
    configurable: true
});

Object.defineProperty(FormControlName.prototype, "checkParentType", {
    /**
     * Abstract FormGroupDirective
     */
    get: function () {
        return this._parent instanceof FormGroupName; this._parent instanceof FormArrayName) {
            return true;
        }
    },
    enumerable: true,
    configurable: true
});

 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);
    }
};

groupName = FormControlName_1;
this._added = true;

var FormControlName_1;

/**
 * @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

* @/n

FormControlName._ngModelWarningSentOnce = false;

__decorate(

[core.Input('formControlName'),
    __metadata("design:type", Object)
], FormControlName.prototype,

"name", void 0);

__decorate(

[core.Input('disabled'),
    __metadata("design:type", Boolean),
    __metadata("design:paramtypes", [Boolean])
], FormControlName.prototype,

"isDisabled", null);

__decorate(

[core.Input('ngModel'),
    __metadata("design:type", Object)
], FormControlName.prototype,

"model", void 0);

__decorate(

[core.Output('ngModelChange'),
    __metadata("design:type", Object)
], FormControlName.prototype,

"update", void 0);

FormControlName = FormControlName_1 = __decorate(

[core.Directive({
    selector: '\[formControlName\]', providers: [controlNameBinding] }),

], FormControlName);

return FormControlName;

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

/**
 * @description
 * Provider which adds `required` validator to the `NG_VALIDATORS` multi-provider list.
 */

var REQUIRED_VALIDATOR = {
    provide: NG_VALIDATORS,
    useExisting: core.forwardRef(function () { return RequiredValidator; }),
    multi: true
};

/**
 * @description
 * A directive that adds the `required` validator to any controls marked with the
 * `required` attribute. The directive is provided with the `NG_VALIDATORS` multi-provider list.
 *
 * @see [Form
 * Validation](guide/form-validation)
 *
 * @usageNotes
 *
 * ### Adding a required validator using
 * template-driven forms
 *
 * ```
 * <input name="fullName" ngModel required>
 * ```
 *
 * @ngModule FormsModule
 * @ngModule ReactiveFormsModule
 * @publicApi
 */

var RequiredValidator = /** @class */ (function () {
    function RequiredValidator() {
    }

    Object.defineProperty(RequiredValidator.prototype, "required", {
        /**
         * @description
         * Tracks changes to the required attribute bound to this directive.
         */
        get: function () { return this._required; },
        set: function (value) {
            this._required = value != null && value !== false && 
        "" + value !== 'false';
            if (this._onChange)
                this._onChange();
        },
        enumerable: true,
        configurable: true
    });

    RequiredValidator.prototype.validate = function (control) {
        return this.required ?
            Validators.required(control) : null;
    };

    RequiredValidator.prototype.registerOnValidatorChange = function (fn) { this._onChange = fn; }

    __decorate(

        [core.Input(),
            __metadata("design:type", Object),
            __metadata("design:paramtypes", [Object])
        ], RequiredValidator.prototype, "required", null);

    RequiredValidator = __decorate(

        [core.Directive({
            selector: ':not([type=checkbox])[required],:not([type=checkbox])[required][formControl],:not([type=checkbox])[required][ngModel]',
            providers: [REQUIRED_VALIDATOR],
            host: [ 'attr.required':
A Directive that adds the `required` validator to checkbox controls marked with the `required` attribute. The directive is provided with the `NG_VALIDATORS` multi-provider list. *required ? "" : null}
        })
    function CheckboxRequiredValidatorRequiredValidator(){
        CheckboxRequiredValidatorCheckboxRequiredValidator.prototype = (function ($)请添加缺失的代码。
shows how to add a minimum length validator to an input attached to an ngModel binding.

```html
<input name='firstName' ngModel minlength='4'>
```

```typescript
/** @class */
var MinLengthValidator = /** @constructor */ (function () {
    function MinLengthValidator() {
    }
    /**
     * @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.
     */
    this._createValidator();
    if (this._onChange)
        this._onChange();
}
/**
 * @description
 * Method that validates whether the value meets a minimum length requirement. Returns the validation result if enabled, otherwise null.
 */
this._validator(control);

/**
 * @description
 * Method that validates whether the value exceeds the maximum length requirement.
 * @param changes A object of key/value pairs for the set of changed inputs.
 */
this._validator(control);

```typescript
/**
 * @description
 * Provider which adds `MaxLengthValidator` to the `NG_VALIDATORS` multi-provider list.
 */
var MAX_LENGTH_VALIDATOR = {
    provide: NG_VALIDATORS,
    useExisting: core.forwardRef(function () { return 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.
 */
$core.Directive({
    selector: '[maxlength][formControlName],[maxlength][formControl],[maxlength][ngModel]',
    providers: [MAX_LENGTH_VALIDATOR],
    host: { '[attr.maxlength]': 'maxlength ? maxlength : null ' }
}, function (fn) { this._onChange = fn; });
```
Provider which adds 'PatternValidator' to the 'NG_VALIDATORS' multi-provider list.

```javascript
var PATTERN_VALIDATOR = {
    provide: NG_VALIDATORS,
    useExisting: core.forwardRef(function () {
        return PatternValidator;
    }()),
    multi: true
};
```
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 =
options.asyncValidators != null ? options.asyncValidators : null;\n
updateOn = options.updateOn != null
? options.updateOn : undefined;\n
}\n
else {\n
// `options` are legacy form group
options\n
validators = options['validator'] != null ? options['validator'] : null;\n
asyncValidators = options['asyncValidator'] != null ? options['asyncValidator'] : null;\n
}\n
}\n
return new FormGroup(controls, { asyncValidators: asyncValidators, updateOn: updateOn, validators: validators
});\n
};\n
/**\n
* @description\n
* Construct a new `FormControl` with the given state, validators
and options.\n
*\n
* @param formState Initializes the control with an initial state value, or\n
* with
an object that contains both a value and a disabled status.\n
*\n
* @param validatorOrOpts A synchronous
validator function, or an array of\n
* such functions, or an `AbstractControlOptions` object that contains\n
* validation functions and a validation trigger.\n
*\n
* @param asyncValidator A single async validator or
array of async validator\n
* functions.\n
*\n
* @usageNotes\n
*\n
* ### Initialize a control
as disabled\n
*\n
* The following example returns a control with an initial value in a disabled state.\n
*\n
* <code-example path=\"forms/ts/formBuilder/form_builder_example.ts\" region=\"disabled-control\">\n
* </code-example>\n
*/\n
FormBuilder.prototype.control = function (formState, validatorOrOpts,
asyncValidator) {\n
return new FormControl(formState, validatorOrOpts, asyncValidator);\n
};\n
/**\n
* Constructs a new `FormArray` from the given array of configurations,\n
* validators and
options.\n
*\n
* @param controlsConfig An array of child controls or control configs. Each\n
* child
control is given an index when it is registered.\n
*\n
* @param validatorOrOpts A synchronous validator
function, or an array of\n
* such functions, or an `AbstractControlOptions` object that contains\n
*
validation functions and a validation trigger.\n
*\n
* @param asyncValidator A single async validator or
array of async validator\n
* functions.\n
*/\n
FormBuilder.prototype.array = function (controlsConfig,
validatorOrOpts, asyncValidator) {\n
var _this = this;\n
var controls = controlsConfig.map(function (c)
{ return _this._createControl(c); });\n
return new FormArray(controls, validatorOrOpts, asyncValidator);\n
};\n
/** @internal */\n
FormBuilder.prototype._reduceControls = function (controlsConfig) {\n
var
_this = this;\n
var controls = {};\n
Object.keys(controlsConfig).forEach(function (controlName) {\n
controls[controlName] = _this._createControl(controlsConfig[controlName]);\n
});\n
return
controls;\n
};\n
/** @internal */\n
FormBuilder.prototype._createControl = function (controlConfig)
{\n
if (controlConfig instanceof FormControl || controlConfig instanceof FormGroup ||\n
controlConfig instanceof FormArray) {\n
return controlConfig;\n
}\n
else if
(Array.isArray(controlConfig)) {\n
var value = controlConfig[0];\n
var validator =
controlConfig.length > 1 ? controlConfig[1] : null;\n
var asyncValidator = controlConfig.length > 2 ?
controlConfig[2] : null;\n
return this.control(value, validator, asyncValidator);\n
}\n
else {\n
return this.control(controlConfig);\n
}\n
};\n
FormBuilder = __decorate([\n

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core.Injectable(), FormBuilder); return FormBuilder; })();

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.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
* License: MIT
*/

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

```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 {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.
 *
 * Implement this interface to create a custom form control directive
 * that integrates with
 * Angular forms.
 *
 * @see DefaultValueAccessor
 *
 * @publicApi
 */
export interface ControlValueAccessor {
  /**
   * @description
   * Writes a new value to the element.
   *
   * This method is
   * called by the forms API to write to the view when programmatic
   * changes from model to view are requested.
   *
   * @param obj
   * The new value for the element
   */
  writeValue(obj: any): void;

  /**
   * @description
   * Registers a
   * callback function is
   * called by the forms API on initialization
   * to update the form model on blur.
   *
   * @param fn
   * Registers a callback function that is called 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 `registerOnBlur` method in your own value accessor,
   * save the given
   * function so your class calls it at the appropriate time.
   *
   * Store the change function
   */
  registerOnBlur(fn: (_: any) => void): void;

  /**
   * @description
   * Registers a callback function that is called 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 `registerOnBlur` method in your own value accessor,
   * save the given
   * function so your class calls it at the appropriate time.
   *
   * Store the change function
   */
  registerOnChange(fn: (_: any) => void): void;

  /**
   * @description
   * Registers a callback function that is called 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 `registerOnBlur` method in your own value accessor,
   * save the given
   * function so your class calls it at the appropriate time.
   *
   * Store the change function
   */
  registerOnTouched(fn: any): void;
}
```

---

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* License: MIT
*/

---

Found in path(s):
* /opt/ws_local/PERMITS_SQL/104774271_1590610393.22/0/forms-9-0-7.tgz/package/forms.d.ts
'registerOnTouched' in your own value accessor, save the given
* function so your class calls it when the control
should be considered* blurred or 'touched' in your own
* usageNotes * Store the callback function
* in * The following example stores the provided function as an internal method.

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

* On blur (or equivalent), your class should call the registered function to allow
* the forms API to update itself:

```
onTouched: () => {
  this._onTouched();
}
```

* depends on the status, it enables or disables the
* appropriate DOM element.

**Store the callback function**

The following is an example of writing the disabled
property to a native DOM element:

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

The disabled status to set on the element

**Set the disabled status**

 void;

**Use** to provide a `ControlValueAccessor` for form controls.

** 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 {ɵgetDOM as
```
Android.

```typescript
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.
 * @publicApi
 */
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
 * @NgModel directives.
 * @usageNotes
 * @publicApi
 */
@Directive({
  selector: '[formControl],[formControlName],[formControlPhrase],[formControlPhrase]',
  host: {
    '(input)': '$any(this)._handleInput($event.target.value)',
    '(blur)': 'onTouched()',
    '(compositionstart)': 'this._compositionStart()',
    '(compositionend)': '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
   * Registers a 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
  ) {
    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 {
    this.onChange = fn;
  }

  /**
   * Registers a function called when the control is touched.
   */
  registerOnTouched(fn: () => void): void {
    this.onTouched = fn;
  }

  /**
   * Sets the 'disabled' property on the input element.
   */
  setDisabledState(isDisabled: boolean): void {
    this._renderer.setProperty(this._elementRef.nativeElement, 'disabled', isDisabled);
  }

  /** @internal */
  _handleInput(value: any): void {
    if (!this._compositionMode || (this._compositionMode && !this._composing)) {
      this.onChange(value);
    }
  }

  /** @internal */
  _compositionStart(): void {
    this._composing = true;
  }

  /** @internal */
  _compositionEnd(value: any): void {
    this._composing = false;
    this._compositionMode && this.onChange(value);
  }
}
```

```typescript
import {Observable} from 'rxjs';
import {AbstractControl} from '../model';
import {ValidationErrors} from './validators';

/**
 * @description
 * Base class for control directives.
 *
 * This class is only used internally in the 'ReactiveFormsModule' and the 'FormsModule'.
 *
 * @publicApi
 */
export abstract class AbstractControlDirective {
  /**
   * A reference to the underlying control.
   */
  abstract get control(): AbstractControl|null;

  /**
   * 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
   * errors were reported.
   */
  get isValid(): boolean {
    return !this.control || this.control.valid;
  }

  /**
   * Returns the control that backs this directive.
   */
  get control(): AbstractControl
```
validation errors exist with the current value.
* If the control is not present, null is returned.
* get valid(): boolean|null { return this.control ? this.control.valid : null; }
* @description
* Reports whether the control is invalid, meaning that an error exists in the input value.
* If the control is not present, null is returned.
* get invalid(): boolean|null { return this.control ? this.control.invalid : null; }
* @description
* Reports whether a control is pending, meaning that async validation is occurring and
* errors are not yet available for the input value. If the control is not present, null is returned.
* get pending(): boolean|null { return this.control ? this.control.pending : null; }
* @description
* Reports whether the control is enabled, meaning that the control is included in ancestor
* values of ancestor controls. If the control is not present, null is returned.
* get disabled(): boolean|null { return this.control ? this.control.disabled : null; }
* @description
* Reports whether the control is enabled, meaning that the control is included in ancestor
* calculations of validity or value. If the control is not present, null is returned.
* get enabled(): boolean|null { return this.control ? this.control.enabled : null; }

errorCode The code of the error to check
* @param path A list of control names that designates how to move
* 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; }

FormGroup({
*   address: new FormGroup({ street: new FormControl() })
* });
* ```
*
* The path to
* the 'street' control from the root form would be 'address' -> 'street'.
* It can be provided to this method in one of two formats:
* 1. An array of string control names, e.g. `['address', 'street']`
* 1. A period-delimited list
* of control names in one string, e.g. `'address.street'`
* It can be provided to this method in one of two formats:
* 1. An array of string control names, e.g. `['address', 'street']`
* 1. A period-delimited list
* of control names in one string, e.g. `'address.street'`
* Returns a multicasting observable of value changes for the control that emits every time the
* value of the control changes in the UI or programmatically.
* get valueChanges(): Observable<any>null { return this.control ? this.control.valueChanges : null; }

```
from the current control * to the control that should be queried for errors.\n * @usageNotes * For example, for the following `FormGroup`:
\n * new FormGroup({
 *   address: new FormControl()
 * });\n
 * The path to the 'street' control from the root form would be 'address' -> 'street'.\n * It can be provided to this method in one of two formats:\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
 * @returns error data for that particular error. If the control or error is not
 * present, null is returned. * @从根本控制
   * 到应该查询错误的控制。
   *
   * @usageNotes
   * 例如，对于以下 `FormGroup` 类型:
   *
   * new FormGroup({
   *   address: new FormControl()
   * });

   * 从根形式的“街道”控制到“街道”控制的路径是使用以下方法提供的:
   *
   * 1. 一个字符串控制名称的数组，例如：['address', 'street']
   * 1. 一个用点分隔的控制名称的字符串。

   * @returns 该特定错误的数据。如果控制或错误不存在，则返回 null。
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
 * 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 (valid/invalid/dirty/etc).
 * @see `NgControlStatus`
 * @ngModule ReactiveFormsModule
 * @ngModule FormsModule
 * @publicApi
 */
@Directive({
  selector: '[formGroupName], [formArrayName], [ngModelGroup], [formGroup], form:not([ngNoForm]), [ngForm]',
  host: ngControlStatusHost
})
export class NgControlStatusGroup extends AbstractControlStatus {
  constructor(@Self() cd: ControlContainer) { super(cd); }
}

/**
 * @description
 * An `InjectionToken` for registering additional synchronous validators used with `AbstractControl`s.
 * @see `NG_ASYNC_VALIDATORS`
 * @usageNotes
 * ### Providing a custom validator
 * The following example registers a custom validator directive. Adding the validator to the
 * existing collection of validators requires the `multi: true` option.
 * ```typescript
 * @Directive({
 *   selector: '[customValidator]',
 *   providers: [{provide: NG_VALIDATORS, useExisting: CustomValidatorDirective, multi: true}]
 * })
 * 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 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 (`.`)
 * * `labels` consists of one or more of the allowed characters (alphanumeric, dashes (`-`) and periods (`.`))
 * * `labels` cannot begin or end with a dash (`-`) or a period (`.`)
 * * `labels` cannot be longer than 64 characters.
 * * The whole address cannot be longer than 254 characters.
 * 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 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 64 characters.
 * * The whole address cannot be longer than 254 characters.
 * 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#L127
 */

// Other code omitted for brevity...
for more details.

```typescript
const EMAIL_REGEXP = /^\w+@\S+$/; // Supports domains with hyphens

const EMAIL_REGEXP = /
    \b[a-zA-Z0-9+$%&\*+/=?^_`{|}~.-]+(\.[a-zA-Z0-9+$%&\*+/=?^_`{|}~.-]+)*\b@\b[a-zA-Z0-9]+(\.[a-zA-Z0-9]+)*\b$/;

/**
 * @description
 * Provides a set of built-in validators that can be used by form controls. A validator is a function that processes a FormControl or collection of FormControl controls and returns an error map or null. A null map means that validation has passed.
 * @see [Form Validation](/guide/form-validation)
 */
export class Validators {
  /**
   * @description
   * Validator that requires the control's value to be greater than or equal to the provided number.
   * @see [Form Validation](/guide/form-validation)
   */
  static min(min: number): ValidatorFn {
    return (control: AbstractControl): ValidationErrors | null => {
      if (isEmptyInputValue(control.value) || isEmptyInputValue(min)) {
        return null;  // don't validate empty values to allow optional controls
      }
      const value = parseFloat(control.value);
      return !isNaN(value) && value < min ? {'min': {'min': min, 'actual': control.value}} : null;
    };
  }

  /**
   * @description
   * Validator that requires the control's value to be less than or equal to the provided number.
   * @see [Form Validation](/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 have a non-empty value.
   * @see [Form Validation](/guide/form-validation)
   */
  static required(control: AbstractControl): ValidationErrors | null {
    return isEmptyInputValue(control.value) ? {'required': true} : null;
  }

  /**
   * @description
   * Validator that requires the control's value pass an email validation test.
   * @see [Form Validation](/guide/form-validation)
   */
  static email(control: AbstractControl): ValidationErrors | null {
    return control.value && !EMAIL_REGEXP.test(control.value) ? {'email': {}} : null;
  }
}
```

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pattern does not satisfy your business needs, you can use `Validators.pattern()` to validate the value against a different pattern.

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

if (isEmptyInputValue(control.value)) {
  return null;  // don't validate empty values to allow optional controls
}

return EMAIL_REGEXP.test(control.value) ? null : {email: true};
```

### Validate that the field matches a specific pattern

If you need a more specific pattern, you can use `Validators.pattern()`. For example, to validate an email address:

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

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

### Validate that the field has a minimum length

You can also use `Validators.minLength()` to validate that the field has a minimum length:

```typescript
const control = new FormControl('Angular', Validators.minLength(3));

console.log(control.errors); // {minlength: {requiredLength: 3, actualLength: 7}}
```

### Validate that the field has a maximum length

Similarly, `Validators.maxLength()` allows you to validate a maximum length:

```typescript
const control = new FormControl('Angular', Validators.maxLength(5));

console.log(control.errors); // {maxlength: {requiredLength: 5, actualLength: 7}}
```

### Validate that the field contains only letters or spaces

If you need to validate that the field only contains letters or spaces, you can use `Validators.pattern()` with a regex pattern:

```typescript
const control = new FormControl('Angular', Validators.pattern('[a-zA-Z ]*'));

console.log(control.errors); // {pattern: '^[a-zA-Z ]*$'}
```

### Validate that the field has a minimum number of characters

Similarly, `Validators.minLength()` allows you to validate a minimum number of characters:

```typescript
const control = new FormControl('Angular', Validators.minLength(3));

console.log(control.errors); // {minlength: {requiredLength: 3, actualLength: 7}}
```

### Validate that the field matches a specific pattern

If you need a more specific pattern, you can use `Validators.pattern()`. For example, to validate an email address:

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

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

### Validate that the field has a maximum length

Similarly, `Validators.maxLength()` allows you to validate a maximum length:

```typescript
const control = new FormControl('Angular', Validators.maxLength(5));

console.log(control.errors); // {maxlength: {requiredLength: 5, actualLength: 7}}
```
union * of the individual error maps for the provided control.
* @returns A validator function that returns an error map with the * merged error maps of the validators if the validation check fails, otherwise `null`.
* @see `updateValueAndValidity()`
* @static compose(validators: null): ValidatorFn|null;
* @static compose(validators: (ValidatorFn|null|undefined)
*   []): ValidatorFn|null {
*   if (!validators) return null;
*   // const presentValidators:
*   //   ValidatorFn[] = validators.filter(isPresent) as any;
*   // if (presentValidators.length == 0) return null;
*   // return function(control: AbstractControl) {
*   //   return _mergeErrors(_executeValidators(control, presentValidators));
*   // })
*   return _executeValidators(control, presentValidators);
*   return (control: AbstractControl) {
*     const observables = _executeAsyncValidators(control, presentValidators).
*       map(toObservable).pipe(map(_mergeErrors));
*     return forkJoin(observables).pipe(map(_mergeErrors));
*   }
* }

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
  // 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;
  }
}

/**
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 * 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 NUMBER_VALUE_ACCESSOR: any = {
  provide: NG_VALUE_ACCESSOR,
  useExisting: forwardRef(() => NumberValueAccessor),
  multi: true
};

/**
 * @description
 * The `ControlValueAccessor` for writing a number value and listening to
 * number input changes. The value accessor is used by the `FormControlDirective`,
 * `FormControlName`, and `NgModel`. * directives.
 * @usageNotes
 * ### Using a number input with a reactive form.
 * The following example shows how to use a number input with a reactive form.
 * The value accessor is used by the `FormControlDirective`, `FormControlName`, and
 * `NgModel`. * directives.
 * @usageNotes
 * ### Using a number input with a reactive form.
 * The following example shows how to use a number input with a reactive form.
 */

@Directive({
  selector: 'input[type=number][formControl],input[type=number][formControl] [formControl],input[type=number][ngModel]',
  host: {
    'change': 'onChange(Sevent.target.value),
    'input': 'onChange(Sevent.target.value),
    'blur': 'onTouched()'
  },
  providers: [NUMBER_VALUE_ACCESSOR]}
})
export class NumberValueAccessor
implements ControlValueAccessor {
  /**
   * The registered callback function called when a change
   * or input event occurs on the input element.
   */
  onChange = (_: any) => {};

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

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

  /**
   * Sets the `value` property on the input element.
   */
  writeValue(value: number): 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;
  }

  /**
   * Sets the "disabled" property on the input element.
   */
  setDisabledState(isDisabled: boolean): void {
    this._renderer.setProperty(this._elementRef.nativeElement, 'disabled', isDisabled);
  }
}

export const RADIO_VALUE_ACCESSOR: any = {
  provide: NG_VALUE_ACCESSOR,
  useExisting: forwardRef(() => RadioControlValueAccessor),
  multi: true
};

/**
 * 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`. A
 * `name` attribute is optional.
 */
@Directive({
  selector:
    'input[type=radio][formControlName],input[type=radio][formControl],input[type=radio][ngModel]',
  host: {'(change)': 'onChange()', '(blur)': 'onTouched()'},
  providers: [RADIO_VALUE_ACCESSOR]
})
export class RadioControlValueAccessor implements ControlValueAccessor, OnDestroy, OnInit {
  /**
   * @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 = () => {};

  get _state(): boolean {
    return this._control && this._control.value;
  }

  set _state(value: boolean) {
    this._control && this._control.setValue(value);
  }

  constructor(private _renderer: Renderer2, private _elementRef: ElementRef, private _control: NgControl) {}

  ngOnDestroy(): void {
    // The name attribute is optional.
    this._control && this._control.setValue(null);
  }

  ngOnInit(): void {
    // The name attribute is optional.
    this._control && this._control.setValue(null);
  }

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

  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);
  }

of the radio input element.
* */

```typescript
@Input() name !: string;

/**
 * Tracks the value of the radio input element.
 */
@Input() value: any;

constructor(private _renderer: Renderer2, private _elementRef: ElementRef,
private _registry: RadioControlRegistry, private _injector: Injector) {
  // A lifecycle method called when the directive is initialized. For internal use only.
  this._injector.get(NgControl);
  this._checkName();
  this._registry.add(this._control, this);
  this._state = value === this.value;
  this._renderer.setProperty(this._elementRef.nativeElement, 'checked', this._state);
  if (this.name && this.formControlName &&
    this.name !== this.formControlName) {
    this._throwNameError();
  }
  if (!this.name && this.formControlName) this.name = this.formControlName;
  this.onChange = () => {
    fn(this.value);
    this._registry.select(this);
  };

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

import {Directive,
ElementRef, Renderer2, StaticProvider, forwardRef} from '@angular/core';

import {ControlValueAccessor,
NG_VALUE_ACCESSOR} from './control_value_accessor';

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

/**
 * The `ControlValueAccessor` for writing a range value and listening to range input changes.
 * The value accessor is used by the `FormControlDirective`, `FormControlName`, and `NgModel`
 * directives.
 *
 * @usageNotes
 *
 * ### 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">
 * ```
 *
 * @ngModule ReactiveFormsModule
 * @ngModule FormsModule
 */
@Directive({
  selector:
'input[type=range][formControlName],input[type=range][formControl],input[type=range][ngModel]",
  host: {
    '(change)': 'onChange(sevent.target.value)',
    '(input)': 'onChange(sevent.target.value)',
    '(blur)': 'onTouched()'
  },
  providers: [RANGE_VALUE_ACCESSOR]
})
export class RangeValueAccessor implements ControlValueAccessor {
  onChange = (_: number) => {};
  onTouched = () => {};

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

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

/**
 * @description
 *
 * Registers a function called when the control is touched.
 *
 * @param fn The callback function
 */

registerOnTouched(fn: () => void): void {
  this.onTouched = fn; };

/**
 * @inheritdoc
 *
 * @param isDisabled The disabled value
 */

setDisabledState(isDisabled: boolean): void {

this._renderer.setProperty(this._elementRef.nativeElement, 'disabled', isDisabled);

}

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 */

export const FormErrorExamples = {
  formControlName: `
    <div 
      [formGroup]="myGroup">
      <input formControlName="firstName">
    </div>

    In your class:

    this.myGroup = new FormGroup({
      firstName: new FormControl()
    });`,

  formGroupName: `
    <div 
      [formGroup]="myGroup">
       <div 
         formGroupName="person">
          <input formControlName="firstName">
       </div>
    </div>

    In your class:

    this.myGroup = new FormGroup({
      person: new FormControl({
        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 ngModelGroup="person">
          <input 
            [(ngModel)]="person.name"
            name="firstName">
       </div>
    </form>`,

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

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 */

import {FormErrorExamples as Examples} from './error_examples';

export class ReactiveErrors {
  static controlParentException(): void {
    throw new Error(
        `formControlName must be used with a parent formGroup directive. You'll want to add a formGroup
       directive and pass it an existing FormGroup instance (you can create one in your class).

       Example:

       ${{Examples.formControlName}}
    `);

  
  static ngModelGroupException(): void {
    throw new Error(
        `formControlName cannot be used with an ngModelGroup parent. It is only compatible with parents
       that also have a "form" prefix: formGroupName, formArrayName, or formGroup.

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

        ${{Examples.formGroupName}}

       Option 2: Use ngModel instead of formControlName
    `);

  static missingFormException(): void {
    throw new Error(`formGroup expects a FormGroup instance. Please pass one in.

       Example: ${{Examples.formGroupName}}
    `);

  
  static groupParentException(): void {
    throw new Error(
        `formGroupName must be used with a parent formGroup directive. You'll want to add a formGroup
       directive and pass it an existing FormGroup instance (you can create one in your class).

       Example:

       ${{Examples.formGroupName}}
    `);

  static arrayParentException(): void {
    throw new Error(`formArrayName must be used with a parent formGroup directive. You'll want to add a formGroup
       directive and pass it an existing FormGroup instance (you can create one in your class).

       Example:

       ${{Examples.formGroupName}}
    `);

  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)
    });

    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/S{directiveName === 'FormControl' ? 'FormControlDirective' : '$'};

  }};
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'FormControlName'}#use-with-ngmodel\n  `);\n  \n  /**
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   */

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
 *
 * @ngModule ReactiveFormsModule
 * @ngModule FormsModule
 *
 * ### Using select controls in a template-driven form
 *
 * To use a select in a template-driven form, simply add an `NgModel` and a name attribute to the main `<select>` tag.
 *
 * @example
 *
 * @publicApi
 */
@Directive({
  selector: ['select:not([multiple])[formControlName],select:not([multiple])[formControl],select:not([multiple])[ngModel]',
  host: {'(change)': 'onChange($event.target.value)', '(blur)': 'onTouched()'},
  providers: [SELECT_VALUE_ACCESSOR]
})
export class SelectControlValueAccessor implements
ControlValueAccessor {
  value: any;
  /** @internal */
  _optionMap: Map<string, any> = new Map<string,
any>();
  /** @internal */
  _idCounter: number = 0;

  /**
   * @description
   * The registered callback function called when a change event occurs on the input element.
   */
  onChange = (_: any) => {};

  /**
   * @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)}`);
  }\n
  this._compareChange = ((_: any) => { });\n  this._compareFn = fn;
  }

  private _compareWith: (o1: any, o2: any) => boolean = looseIdentical;

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

  /**
   * Sets the "value" property on the input element.
   */
  writeValue(value: any): void {
    this.value = value;
    const id: string | null = _buildValueString(value);
    if (id == null) {
      this._renderer.setProperty(this._elementRef.nativeElement, 'selectedIndex', -1);
    }
    this._renderer.setProperty(this._elementRef.nativeElement, 'value', id);
  }

  onChange(event: any): void {
    if (event.target.value !== this.value) {
      this._renderer.setProperty(this._elementRef.nativeElement, 'selectedIndex', this._extractId(event.target.value));
      this.value = event.target.value;
    }
  }

  onTouched(): void {
    if (this.value !== undefined) {
      this._renderer.setProperty(this._elementRef.nativeElement, 'value', this.value);
      this.value = undefined;
    }
  }

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

  /**
   * @description
   * The registered callback function called when a blur event occurs on the input element.
   */
  onChange = (_: any) => { };
/**
 * @description
 * Registers a function called when the control value changes.
 *
 * @param fn
 * The callback function
 *
 * registerOnChange(fn: (value: any) => any): void
 * { this.onChange = fn; }
 *
 */
this.onChange = (valueString: string) => {
  this.value = this._getOptionValue(valueString);
  fn(this.value);
};

/**
 * @description
 * Registers a function called when the control is touched.
 *
 * @param fn
 * The callback function
 *
 * registerOnTouched(fn: () => any): void
 * { this.onTouched = fn; }
 *
 */
this.onTouched = fn;

/**
 * Sets the "disabled" property on the select input element.
 *
 * @param isDisabled
 * The disabled value
 *
 */
this._renderer.setProperty(this._elementRef.nativeElement, 'disabled', isDisabled);

/**
 * ID of the option element
 *
 * @description
 *
 */
this.id = this._select._registerOption();

/**
 * Tracks the value bound to the option element. Unlike the value binding,
 * ngValue supports binding to objects.
 *
 * @param value
 * @see `NgValueAccessor`
 *
 */
this._setElementValue(_buildValueString(this.id, value));

/**
 * Lifecycle method called before the directive's instance is destroyed.
 *
 * @description
 *
 */
this.ngOnDestroy();

/**
 * The `ControlValueAccessor` for writing multi-select control values and listening to multi-select control
 * changes. The value accessor is used by the `FormControlDirective`, `FormControlName`, and `NgModel`
directives.
 *
 * @see `SelectControlValueAccessor`
 *
 */
const SELECT_MULTIPLE_VALUE_ACCESSOR: StaticProvider = {
  provide: NG_VALUE_ACCESSOR,
  useExisting: forwardRef(() => NgSelectOption),
  multi: true
};

/**
 * Tracks the value bound to the option element.
 *
 * @param id
 *
 */
this._getOptionValue(id: string): any {
  return this._optionMap.has(id) ? this._optionMap.get(id) : valueString;
};

/**
 * Marks `options` as dynamic, so Angular can be notified when options change.
 *
 * @description
 *
 */
this._extractId(valueString: string): string {
  return valueString.split(':')[0];
};

/**
 * Mock interface for HTML Collection
 *
 */
abstract class HTMLCollection {
  // TODO(issue/24571): remove '!'.
  length!: number;
  abstract item(_: number): HTMLOption;
}
See the `SelectControlValueAccessor` for usage.

```typescript
@Directive({
  selector:
    'select[multiple][formControlName],select[multiple][formControl][ngModel]',
  host: { '(change)': 'onChange($event.target)', '(blur)': 'onTouched()' },
  providers:
    [SELECT_MULTIPLE_VALUE_ACCESSOR]
})
export class SelectMultipleControlValueAccessor implements ControlValueAccessor {

  /**
   * @description
   * The current value
   */
  value: any;

  /** @internal */
  _optionMap: Map<string, ɵNgSelectMultipleOption> = new Map<string, ɵNgSelectMultipleOption>();

  /**
   * @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) {}

  /**
   * @description
   * Sets
   * the "value" property on one or of more
   * of the select's options.
   */
  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);
  }

  /**
   * Registers a function called when the control value changes
   * and writes an array of the selected options.
   */
  registerOnChange(fn: (value: any) => any): void {
    this.onChange = (_: any) => {
      const selected: Array<any> = [];
      if (_.hasOwnProperty('selectedOptions')) {
        const options: HTMLCollection = _.selectedOptions;
        for (let i = 0; i < options.length; i++) {
          const opt: any = options.item(i);
          const val: any = this._getOptionValue(opt.value);
          selected.push(val);
        }
      }
      // Degrade on IE
      else {
        const options: HTMLCollection = <HTMLCollection>_.options;
        for (let i = 0; i < options.length; i++) {
          const opt: HTMLOption = options.item(i);
          if (opt.selected) {
            const val: any = this._getOptionValue(opt.value);
            selected.push(val);
          }
        }
      }
      this.value = selected;
      fn(selected);
    };
  }

  /**
   * 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);
  }

  /**
   * Registers the option as dynamic, so Angular can be notified when
   * options change.
   */
  @Input()
  set disabled(isDisabled: boolean) {
    if (isDisabled) {
      this.setDisabledState(true);
    } else {
      this.setDisabledState(false);
    }
  }

  /**
   * Tracks the value bound to the option element.
   */
  @Input()
  set ngValue(value: any) {
    if (value) {
      this.writeValue(value);
    }
  }
}
```

```typescript
/**
 * @description
 * Marks `<option>` as dynamic, so Angular can be notified when
 * options change.
 *
 * @see `SelectMultipleControlValueAccessor`
 *
 * @ngModule ReactiveFormsModule
 * @ngModule FormsModule
 * @publicApi
 */
@Directive({
  selector: 'option'
})
export class ɵNgSelectMultipleOption implements OnDestroy {

  id !: string;

  /**
   * @internal */
  _value: any;

  constructor(
      private _element: ElementRef, private _renderer: Renderer2,
      @Optional() @Host() private _select: SelectMultipleControlValueAccessor) {
    if (this._select) {
      this.id = this._select._registerOption(this);
    }
  }

  /**
   * @description
   * Tracks the value bound to the option element.
   */
  @Input()
  set ngValue(value: any) {
    if (value) {
      this.writeValue(value);
    }
  }
}
```

This class implements the `ControlValueAccessor` interface, allowing for the handling of dynamic options within the Select component. It manages the selection of options, updating the control value and notifying of changes and touches. The class also provides methods for writing the current value, registering change and touch callbacks, setting the disabled state, and registering options as dynamic.
ngValue(value: any) {
  if (this._select == null) return;
  this._value = value;
  this._setElementValue(value);  
}  
/**
 * @description
 * Tracks simple string values bound to the option element.
 * @for
 * For objects, use the `ngValue` input binding.
 */
  @Input('value')
  set value(value: any) {
    if (this._select) {
      this._value = value;
      this._setElementValue(value);
    }
  }

  /**
   * Lifecycle method called before the directive's instance is destroyed. For internal use only.
   */
  ngOnDestroy(): void {
    if (this._select) {
      this._select.writeValue(this._select.value);
    }
  }

export {ɵNgSelectMultipleOption as NgSelectMultipleOption};

import {isDevMode, ɵlooseIdentical as looseIdentical} from '@angular/core';
import {FormArray, FormControl, FormGroup} from '../model';
import {Validators} from '../validators';
import {AbstractControlDirective} from './abstract_control_directive';
import {AbstractFormGroupDirective} from './abstract_form_group_directive';
import {CheckboxControlValueAccessor} from './checkbox_value_accessor';
import {ControlContainer} from './control_container';
import {ControlValueAccessor} from './control_value_accessor';
import {DefaultValueAccessor} from './default_value_accessor';
import {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); });
  }

  if (!dir.valueAccessor!.throwError) dir.valueAccessor!.throwError(dir, 'No value accessor for form control with');
}

export function cleanUpControl(control: FormControl, dir: NgControl) {
  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 {
  control.registerOnChange(() => {
    if (dir.valueAccessor!.setDisabledState) {
      control.isDisabled = !dir.valueAccessor!.setDisabledState(
    );
    } else {
      return;
    }
  });

  control.registerOnTouched(() => {
    if (dir.valueAccessor!.setDisabledState) {
      control.isDisabled(
    );
    } else {
      return;
    }
  });

  control.registerOnDisabledChange((isDisabled: boolean) => {
    if (dir.valueAccessor!.setDisabledState) {
      control.isDisabled = !dir.valueAccessor!.setDisabledState(isDisabled);
    } else {
      return;
    }
  });

  if (control) control._clearChangeFns();
}

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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!.registerOnChange((newValue: any) => {
    control._pendingValue = newValue;
    control._pendingChange = true;
    control._pendingDirty = true;

    if (control.updateOn === 'blur' & & control._pendingChange) updateControl(control, dir);
  });
}

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

    // control -> ngModel
    if (emitModelEvent) dir.viewToModelUpdate(newValue);
  });
}

export function 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 element with');
}

function _throwError(dir: AbstractControlDirective, message: string): void {
  let messageEnd: string;
  if (dir.path != null) {
    messageEnd = `path: '${dir.path!.join(' -> ')}'`;
  } else if (dir.path == null) {
    messageEnd = `name: '${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
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) return builtInAccessor;
      builtInAccessor = v;
    } else if (customAccessor) return customAccessor;
  });

  if (defaultAccessor) return defaultAccessor;
  if (builtInAccessor) return builtInAccessor;
  if (customAccessor) return customAccessor;
  _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,

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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) {
  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`
 */
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;

  let controlToFind: AbstractControl|null = control;
  path.forEach((name: string | number) => {
    if (controlToFind instanceof FormGroup) {
      controlToFind = controlToFind.controls.hasOwnProperty(name as string) ?
          controlToFind.controls[name] :
          null;
    } else if (controlToFind instanceof FormArray) {
      controlToFind = controlToFind.at(<number>name) || null;
    } else {
      controlToFind = null;
    }
  });
  return controlToFind;
}

function coerceToValidator(validatorOrOpts?: ValidatorFn | ValidatorFn[] | AbstractControlOptions | null): ValidatorFn|null {
  const validator =
      (isOptionsObj(validatorOrOpts) ? (validatorOrOpts as AbstractControlOptions).validators :
                                       validatorOrOpts) as ValidatorFn |
      ValidatorFn | null;

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

function coerceToAsyncValidator(asyncValidator?: AsyncValidatorFn | AsyncValidatorFn[] | null, validatorOrOpts?: ValidatorFn |
        ValidatorFn[] | AbstractControlOptions | null): AsyncValidatorFn|null {
  const origAsyncValidator =
      (isOptionsObj(validatorOrOpts) ? (validatorOrOpts as
        AbstractControlOptions).asyncValidators :
                                       asyncValidator) as AsyncValidatorFn |
                                       AsyncValidatorFn[] | null;

  return Array.isArray(origAsyncValidator) ? composeAsyncValidators(origAsyncValidator) : origAsyncValidator ||
null;
}

/**
 * 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 value, 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)

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

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

  /** @internal */
  _onCollectionChange = () => {};

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

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

  /**
   * The current value of the control.
   * @param validator The function that determines the synchronous validity of this control.
   * @param asyncValidator The function that determines the asynchronous validity of this control.
   */
  constructor(public validator: ValidatorFn|null, public asyncValidator: AsyncValidatorFn|null) {}

  /**
   * A multicasting observable that emits an event every time the
   * value of the control changes, in the UI or programmatically. It also emits an event each time you call enable() or disable()
   * without passing along {emitEvent: false} as a function argument.
   */
  public readonly valueChanges !: Observable<any>;
```

---

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validation `status` of the control changes. It recalculates.

* @see AbstractControl.status

* @todo(issue/24571): remove `!`.

```java
public readonly statusChanges !: Observable<any>;
```

```java
/**
 * Reports the update strategy of the `AbstractControl` (meaning on the event which the control updates itself).

* Possible values: "change" | "blur" | "submit"

* Default value: "change"

* get updateOn(): FormHooks

* return this._updateOn ? this._updateOn : (this.parent ? this.parent.updateOn : "change");

* 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.

* 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.

* setAsyncValidators(newValidator: AsyncValidatorFn|AsyncValidatorFn[]): void {

* Sets the asynchronous options that determine how the control propagates changes and emits events after marking is applied. When true, mark only this control. When false or not supplied, marks all direct ancestors. Default is false.

* clearValidators(): void {

* this.validator = null;

* clears out the sync validator list.

* When you add or remove a validator at run time, you must call `updateValueAndValidity()` for the new validation to take effect.

* clearAsyncValidators(): void {

* this.asyncValidator = null;

* clears out the async validator list.

* When you add or remove a validator at run time, you must call `updateValueAndValidity()` for the new validation to take effect.

* Marks the control as `touched`. A control is touched by focus and blur events that do not change the value.

* @see markAsUntouched()

* @see markAsDirty()

* @see markAsPristine()

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

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

* `!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. 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.

* `!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.

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

* `!onlySelf`: When true, mark only this control. When false or not supplied, marks all direct ancestors. Default is false.
control.markAsPristine({onlySelf: true}); });\n
if (this._parent && !opts.onlySelf) {\n  this._parent._updatePristine(opts);\n}\n
/**\n   * Marks the control as `pending`.\n   * A control is pending while the control performs async validation.\n   * @param opts Configuration options that determine how the control propagates changes and emits events after marking is applied.\n   * @param onlySelf: When true, mark only this control. When false or not supplied, marks all direct ancestors. Default is false.\n   * `emitEvent`: When true or not supplied (the default), the `statusChanges` observable emits an event with the latest status the control is marked pending.\n   * When false, no events are emitted.\n   * `markAsPending`: If true or not supplied (the default), marks the control as pending.\n   * `onlySelf`: When true, mark only this control. When false or not supplied, marks all direct ancestors. Default is false.\n   * `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.\n   * By default, if the control has children, all children are also disabled.\n   * `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.\n   * `enable`: When true, mark only this control. When false or not supplied, marks all direct ancestors. Default is false.\n   * `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.\n   * By default, if the control has children, all children are also enabled.\n   * `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.\n   * `disable`: If true, mark only this control. When false or not supplied, marks all direct ancestors. Default is false.\n   * `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.\n   * By default, if the control has children, all children are also disabled.\n   * `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.\n   * `markAsPristine`: When true, mark only this control. When false or not supplied, marks all direct ancestors. Default is false.\n   * `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.\n   * `updateValueAndValidity`: When true or not supplied, marks all direct ancestors. Default is false.\n   * `markAsPristine`: When true, mark only this control. When false or not supplied, marks all direct ancestors. Default is false.\n   * `updateValueAndValidity`: When true or not supplied, marks all direct ancestors. Default is false.\n   * `updateValueAndValidity`: When true or not supplied, marks all direct ancestors. Default is false.
   */

markAsPending(opts: {onlySelf?: boolean, emitEvent?: boolean} = {}): void {\n  (this as {status: string}).status = PENDING;\n  if (opts.emitEvent !== false) {\n    (this.statusChanges as EventEmitter<any>).emit(this.status);\n  }\n
  if (this._parent && !opts.onlySelf) {\n    this._parent.markAsPending(opts);\n  }\n
  /**\n   * Disables the control. This means the control is exempt from validation checks and emitted events after marking is applied.\n   * @param opts Configuration options that determine how the control propagates changes and emits events after marking is applied.\n   * @param onlySelf: When true, mark only this control. When false or not supplied, marks all direct ancestors. Default is false.\n   * `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.\n   * By default, if the control has children, all children are also disabled.\n   * `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.\n   * `enable`: When true, mark only this control. When false or not supplied, marks all direct ancestors. Default is false.\n   * `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.\n   * By default, if the control has children, all children are also enabled.\n   * `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.\n   * `disable`: If true, mark only this control. When false or not supplied, marks all direct ancestors. Default is false.\n   * `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.\n   * By default, if the control has children, all children are also disabled.\n   */

disable(opts: {onlySelf?: boolean, emitEvent?: boolean} = {}): void {\n  // If parent has been marked artificially dirty we don't want to re-calculate the\n  // parent's dirtiness based on the children.\n  const skipPristineCheck = this._parentMarkedDirty(opts.onlySelf);\n  this._forEachChild((control: AbstractControl) => { control.disable({...opts, onlySelf: true}); });\n
  (this as {status: string}).status = DISABLED;\n  (this as {errors: ValidationErrors | null}).errors = null;\n  (this as {statusChanges as EventEmitter<any>}).emit(this.status);\n  (this as {valueChanges as EventEmitter<any>}).emit(this.value);\n
  if (opts.emitEvent !== false) {\n    (this.valueChanges as EventEmitter<any>).emit(this.value);\n    (this.statusChanges as EventEmitter<any>).emit(this.status);\n  }\n
  this._updateAncestors({...opts, skipPristineCheck});\n  this._onDisabledChange.forEach((changeFn) => changeFn(true));\n
  /**\n   * Enables the control. This means the control is included in validation checks and its validators.\n   * Its status recalculates based on its value and its validators.\n   * By default, if the control has children, all children are also enabled.\n   * `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.\n   * By default, if the control has children, all children are also enabled.\n   */

  enable(opts: {onlySelf?: boolean, emitEvent?: boolean} = {}): void {\n  // If parent has been marked artificially dirty we don't want to re-calculate the\n  // parent's dirtiness based on the children.\n  const skipPristineCheck = this._parentMarkedDirty(opts.onlySelf);\n  this._forEachChild((control: AbstractControl) => { control.enable({...opts, onlySelf: true}); });\n
  this.updateValueAndValidity({onlySelf: true, emitEvent: opts.emitEvent});\n  this._updateAncestors({...opts, skipPristineCheck});\n
  this._onDisabledChange.forEach((changeFn) => changeFn(false));\n
  this._updateAncestors({...opts, skipPristineCheck});\n
  this._forEachChild((control: AbstractControl) => { control.enable({...opts, onlySelf: true}); });\n
  /**\n   * Sets the parent of the control\n   */
  setParent(parent: FormGroup|FormArray): void { this._parent = parent; }
the value and validity of its ancestors. * `* @param opts Configuration options determine how the control propagates changes and emits events. * `* * `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 the `valueChanges` observables emit events with the latest status and value when the control is updated. * When false, no events are emitted. * `* `updateValueAndValidity(opts: {onlySelf?: boolean, emitEvent?: boolean} = {}): void {`* this._setInitialStatus(); `* this._updateValue(); `* `if (this.enabled) {`* this._cancelExistingSubscription();`* (this as{errors: ValidationErrors | null}).errors = this._runValidator();`* (this as{status: string}).status =`* this._calculateStatus();`* if (this.status === VALID || this.status === PENDING) {`* (this as{emitEvent?: boolean}).emitEvent();`* (this.valueChanges as EventEmitter<any>).emit(this.value);`* (this.statusChanges as EventEmitter<string>).emit(this.status);`* `} `if (this._parent && !opts.onlySelf) {`* this._parent.updateValueAndValidity(opts);`* `}`* `}`* `if (opts.emitEvent !== false) {`* (this.valueChanges as EventEmitter<any>).emit(this.value);`* (this.statusChanges as EventEmitter<string>).emit(this.status);`* `}`* `if (this._parent && !opts.onlySelf) {`* this._parent.updateValueAndValidity(opts);`* `}`* */`* @internal */`* _updateTreeValidity(opts: {emitEvent?: boolean} = {emitEvent: true}) {`* 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}));`* `}`* `}`* `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. * `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `* `

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

If no path is given, this method checks for the error on the current control.

If the control is not present, false is returned.

The method can be provided to this method in one of two formats:
- An array of string control names, e.g. `['address', 'street']`
- A period-delimited list of control names in one string, e.g. `address.street`

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options.object.

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

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

* Set the `updateOn` option to `'blur'` to update on the blur event.

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

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

* Set the `updateOn` option to `'submit'` to update on a submit event.

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

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

* Set the `updateOn` option to `'blur'` to update on the blur event.

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

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

* Set the `updateOn` option to `'submit'` to update on a submit event.

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

### Reset the control back to an initial value

* You reset to a specific form state by passing through a standalone value or a form state object that contains both a value and a disabled state (these are the only two properties that cannot be calculated).

```ts
control.reset('Drew');
```

### Reset the control back to an initial value and disabled

```ts
control.reset({ value: 'Drew', disabled: true });
```

### Reset the control back to an initial value and disabled

```ts
control.reset({ value: 'Drew', disabled: true });
```

```ts
constructor(formState: any = null, validatorOrOpts?: ValidatorFn | ValidatorFn[], asyncValidator?: AsyncValidatorFn | AsyncValidatorFn[]): void
```

```ts
constructor(formState: any = null, validatorOrOpts?: ValidatorFn | ValidatorFn[], asyncValidator?: AsyncValidatorFn | AsyncValidatorFn[]): void
```

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constructor(formState: any = null, validatorOrOpts?: ValidatorFn | ValidatorFn[], asyncValidator?: AsyncValidatorFn | AsyncValidatorFn[]): void
```

```ts
constructor(formState: any = null, validatorOrOpts?: ValidatorFn | ValidatorFn[], asyncValidator?: AsyncValidatorFn | AsyncValidatorFn[]): void
```
parent. Default is \n * false.\n * * `emitEvent`: When true or not supplied (the default), both the \n* `statusChanges`\nand\n* `valueChanges`\n* observables emit event with the latest status and value when the control is reset.\n * When false, no events are emitted.\n * An \reset\(formState::=any,\) options: \{onlySelf?: boolean,\nemitEvent?: boolean\} = \{\}\); void \{\this\_\apply\Form\State\(formState)\}; this.markAsPristine\(options)\); this.markAsUntouched\(options)\); this.setValue\(this.value,\) options)\); this\_\pending\Change = false;\n} \n/**\n * Register a listener for change events.\n * \n * \@param fn The method that is called when the value changes\n * \@param on\_onChange The method that is called when the \n * disabled status changes.\n */
\reset\(formState,\) options)\); this.markAsPristine\(options)\); this.markAsUntouched\(options)\); this.setValue\(this.value,\) options)\); this\_\pending\Change = false;\n}}

`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`. For a collection of child controls as the first argument. The key for each child registers the name for the control.\n* for\(\ FormGroup\) is one of the three fundamental building blocks used to define forms in Angular, along with `FormControl` and `FormArray`. \n
`FormGroup` is one of the three fundamental building blocks used to define forms in Angular, along with `FormControl` and `FormArray`. \n
### Create a form group with 2 controls
\n```
const form = new FormGroup({
  first: new FormControl('Nancy', Validators.minLength(2)),
  last: new FormControl('Drew'),
});

console.log(form.value);   // {first: 'Nancy', last; 'Drew'}

console.log(form.status);  // 'VALID'
```
controls: {[key: string]: AbstractControl},

validatorOrOpts?: ValidatorFn|ValidatorFn[]|AbstractControlOptions|null
asyncValidator?: AsyncValidatorFn|AsyncValidatorFn[]|null
this._initObservables();
this._setUpdateStrategy(validatorOrOpts);
this._setUpControls();
this.updateValueAndValidity({onlySelf: true, emitEvent: false});

/**
 * Registers a control with the group's list of controls.
 * This method does not update the value or validity of the control.
 * Use {@link FormGroup#addControl addControl} instead.
 * @param name The control name to register in the collection
 * @param control Provides the control for the given name
 * @returns {AbstractControl} The control name to add to the collection
 */

registerControl(name: string, control: AbstractControl): AbstractControl {
    if (this.controls[name]) return this.controls[name];
    this.controls[name] = control;
    control.setParent(this);
    control._registerOnCollectionChange(this._onCollectionChange);
    return control;
}

/**
 * Add a control to this group.
 * This method also updates the value and validity of the control.
 * @param name The control name to add to the collection
 * @param control Provides the control for the given name
 */

addControl(name: string, control: AbstractControl): void {
    this.registerControl(name, control);
    this.updateValueAndValidity();
    this._onCollectionChange();
}

/**
 * Remove a control from this group.
 * @param name The control name to remove from the collection
 */

removeControl(name: string): void {
    if (this.controls[name]) this.controls[name]._registerOnCollectionChange(() => {});
    delete (this.controls[name]);
    this.updateValueAndValidity();
    this._onCollectionChange();
}

/**
 * Replace an existing control.
 * @param name The control name to replace in the collection
 * @param control Provides the control for the given name
 */

setControl(name: string, control: AbstractControl): void {
    if (this.controls[name]) this.controls[name]._registerOnCollectionChange(() => {});
    delete (this.controls[name]);
    if (control) this.registerControl(name, control);
    this.updateValueAndValidity();
    this._onCollectionChange();
}

/**
 * Check whether there is an enabled control with the given name in the group.
 * 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
 * @returns false for disabled controls, true otherwise.
 */

contains(controlName: string): boolean {
    return this.controls.hasOwnProperty(controlName) && this.controls[controlName].enabled;
}

/**
 * Sets the value of the `FormGroup`. It accepts an object that matches
 * the structure of the group,
 * with control names as keys.
 * @param value The new value for the control that matches the structure of the group.
 * @param options Configuration options that determine how the control propagates changes
 * and emits events after the value changes.
 * @returns {boolean} Returns true if the value was successfully set, false otherwise.
 */

setValue(value: {[key: string]: any}, options: {onlySelf?: boolean, emitEvent?: boolean} = {}): void {
    this._checkAllValuesPresent(value);
    Object.keys(value).forEach(name => {
        this._throwIfControlMissing(name);
        this.controls[name].setValue(value[name], {onlySelf: true, emitEvent: options.emitEvent});
    });
    this.updateValueAndValidity(options);
    this._onCollectionChange();
}
the document
```typescript
this.updateValueAndValidity();
```

```typescript
arr.setValue(['Nancy', 'Drew']);
```

```typescript
arr.patchValue(['Nancy', 'Drew']);
```

```typescript
arr.reset(['name', 'last name']);
```

```typescript
arr.patchValue(value, {onlySelf: true, emitEvent: true});
```

```typescript
arr.at(index).setValue(newValue, {onlySelf: true, emitEvent: true});
```

```typescript
arr.setControl(index, control);
```

```typescript
arr.removeAt(index);
```

```typescript
arr.insert(index, control);
```

```typescript
arr.setControl(index, control);
```

```typescript
arr.insert(index, control);
```
User tháng 5, *last* name

```javascript
*this.arr.value; // ['name', 'last name']
console.log(this.arr.get(0).status); // DISABLED
*param value Array of values for the controls
@param options Configure options that determine how the control propagates changes and emits events after the value changes
* **onlySelf**: When true, each change only affects this control and not its parent. Default is false.

```javascript
*emitEvent**: When true or not supplied (the default), both the `statusChanges` and `valueChanges` observables emit events with the latest state and value when the control is reset. * When false, no events are emitted.

* The configuration options are passed to the `@link AbstractControl#updateValueAndValidity` method.

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

**reset**: Remove all controls in the `FormArray`.
* **@usageNotes

```ts
const arr = new FormArray([
  new FormControl(),
  new FormControl()
]);
console.log(arr.length); // 2
arr.clear();
console.log(arr.length); // 0
```
setUpControl, setUpFormContainer, syncPendingControls) from './shared';

export const formDirectiveProvider: any = {
  provide: ControlContainer,
  useExisting: forwardRef(() => NgForm),
  resolve: resolve => ({
    resolvePromise: () => Promise.resolve(null)
  })
};

const resolvedPromise = (()
    => Promise.resolve(null))();

export const formDirectiveProvider:
  any = {
    provide: ControlContainer,
    useExisting: forwardRef(() => NgForm)
  };  // To register child controls with the form, use 'NgModelGroup' to create
  // sub-groups within the form.

  // If necessary, listen to the directive's 'ngSubmit' event to be notified when the
  // user hasn't 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 in your HTML.

  // As soon as you import the 'FormsModule', the directive becomes active by default on all `<form>` tags. You don't need to add a special selector.  
  // You can omit `@Input` from your贡献力量 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' are imported into the application.

forms.ts/simpleForm/simple_form_example.ts region='Component'}
  

* In template driven forms, all `<form>` tags are automatically tagged as `NgForm`.
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* If necessary, listen to the directive's 'ngSubmit' event to be notified when the
  user hasn't triggered a form submission. The 'ngSubmit' event emits the original form
  submission event.
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 *\n * addControl(dir: NgModel): void {\n resolvedPromise.then(() => {\n const container = this._findContainer(dir.path);\n (dir as {control: FormControl}).control =\n <FormControl>container.registerControl(dir.name, dir.control);\n setUpControl(dir.control, dir);\n dir.control.updateValueAndValidity({emitEvent: false});\n this._directives.push(dir);\n });\n *\n * removeControl(Dir: NgModel): void {\n resolvedPromise.then(() => {\n const container =\n this._findContainer(dir.path);\n if (container) {\n container.removeControl(dir.name);\n }\n removeDir<NgModel>(this._directives, dir);\n });\n *\n * addFormGroup(dir: NgModelGroup): void {\n const group = new FormGroup({});\n setUpFormContainer(group, dir);\n container.registerControl(dir.name, group);\n group.updateValueAndValidity({emitEvent: false});\n this._directives.push(dir);\n });\n *\n * getFormGroup(dir: NgModelGroup): FormGroup { return\n <FormGroup>this.form.get(dir.path);\n *\n * removeFormGroup(dir: NgModelGroup): void {\n const container =\n this._findContainer(dir.path);\n if (container) {\n container.removeControl(dir.name);\n }\n removeDir<NgModelGroup>(this._directives, dir);\n });\n *\n * updateModel(dir: NgControl, value: any): void {\n const ctrl = <FormControl>this.form.get(dir.path);\n ctrl.setValue(value);\n }\n \n *\n * setValue(value: object): void {\n this.form.reset(value);\n (this as {submitted: boolean}).submitted = false;\n }\n \n *\n * onSubmit($event: Event): boolean {\n (this as{submitted: boolean}).submitted = true;\n syncPendingControls(this.form, this._directives);\n this.ngSubmit.emit($event);\n return false;\n }\n \n *\n * onReset(): void {\n this.resetForm();\n }\n \n *\n * resetForm(value: any = undefined): void {\n (this as{submitted: boolean}).submitted = false;\n }\n \n *\n * @description
 * A base class for code shared
 * between the `NgModelGroup` and `FormGroupName` directives.
 *\n * @publicApi
 */
 export class AbstractFormGroupDirective extends ControlContainer implements OnInit, OnDestroy {
  /**
   * @description
   * The parent control for the group.
   */
  _parent!: ControlContainer;

  /**
   * @description
   * An array of synchronous validators for the group.
   */
  _validators!: AsyncValidatorFn[];

  /**
   * @description
   * An array of validators for the group.
   */
  _validators!: ValidatorFn[];

  /**
   * @description
   * Method called when the `submit` event is triggered on the form.
   *\n   * @param event The `submit` event object.
   *\n   */
  onSubmit(event: Event): boolean {
    (this as{submitted: boolean}).submitted = true;\n    syncPendingControls(this.form, this._directives);\n    this.ngSubmit.emit(event);\n    return false;\n  }

  /**
   * @description
   * Method called when the `reset` event is triggered on the form.
   *\n   * @param event The `reset` event object.
   *\n   */
  onReset(event: Event): boolean {
    (this as{submitted: boolean}).submitted = false;\n    syncPendingControls(this.form, this._directives);\n    this.ngSubmit.emit(event);\n    return false;\n  }

  /**
   * @description
   * The new value for the form.
   *\n   * @param value The new value.
   *\n   */
  newFormValue!: any;

  /**
   * @description
   * The new value for the form.
   *\n   * @param value The new value.
   *\n   */
  newFormGroupValue!: any;

  /**
   * @description
   * The new value for the form.
   *\n   * @param value The new value.
   *\n   */
  newFormGroupName!: any;

  /**
   * @description
   * The new value for the form.
   *\n   * @param value The new value.
   *\n   */
  newFormGroupValue!: any;

  /**
   * @description
   * The new value for the form.
   *\n   * @param value The new value.
   *\n   */
  newFormGroupName!: any;

  /**
   * @description
   * The new value for the form.
   *\n   * @param value The new value.
   *\n   */
  newFormGroupValue!: any;

  /**
   * @description
   * The new value for the form.
   *\n   * @param value The new value.
   *\n   */
  newFormGroupName!: any;

  /**
   * @description
   * The new value for the form.
   *\n   * @param value The new value.
   *\n   */
  newFormGroupValue!: any;

  /**
   * @description
   * The new value for the form.
   *\n   * @param value The new value.
   *\n   */
  newFormGroupName!: any;
array of async validators for the group

```typescript
asyncValidators!: any[];
```

* @internal

An internal callback method triggered on the instance after the inputs are set.

* @param {Group} parentGroup - The group with its parent group.

* @description

An internal callback method triggered before the instance is destroyed.

* @description

The `FormGroup` bound to this directive.

* @description

The path to this group from the top-level directive.

* @description

The synchronous validators registered with this group.

* @description

The async validators registered with this group.

* @description

The `FormGroup` bound to this directive.

* @description

The top-level directive for this group.

* @description

The synchronous validators registered with this group.

* @description

The async validators registered with this group.

* @description

The `FormGroup` bound to this directive.

* @description

The top-level directive for this group.

* @description

The synchronous validators registered with this group.

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The async validators registered with this group.

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The top-level directive for this group.

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The async validators registered with this group.

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The top-level directive for this group.

* @description

The synchronous validators registered with this group.

* @description

The async validators registered with this group.

* @description

The top-level directive for this group.
following example shows you how to combine controls together in a sub-group!

```typescript
@Component({selector: '[ngModelGroup]', providers: [modelGroupProvider], exportAs: 'ngModelGroup'})
export class NgModelGroup extends AbstractFormGroupDirective implements OnInit,
OnDestroy {

  constructor(
      @Host() @SkipSelf() parent: ControlContainer,
      @Optional() @Self() @Inject(NG_VALIDATORS) validators: any[],
      @Optional() @Self() @Inject(NG_ASYNC_VALIDATORS) asyncValidators: any[])
  {
    super();
    this._parent = parent;
    this._validators = validators;
    this._asyncValidators = asyncValidators;
  }

  /** @internal */

  _checkParentType(): void {
    if (!(this._parent instanceof NgModelGroup) && !(this._parent instanceof
    NgForm)) {
      TemplateDrivenErrors.modelGroupParentException();
    }
  }
}
```

```typescript
/**
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 * can be
 * found in the LICENSE file at https://angular.io/license
 */

import {Directive, EventEmitter, Host,
Inject, Input, OnChanges, OnDestroy, Optional, Output, Self, SimpleChanges, forwardRef} from
'@angular/core';

import {FormControl, FormHooks} from '../model';
import {NG_ASYNC_VALIDATORS, NG_VALIDATORS} from '../validators';

import {AbstractFormGroupDirective} from './abstract_form_group_directive';
import {ControlContainer} from './control_container';
import {ControlValueAccessor, NG_VALUE_ACCESSOR} from './control_value_accessor';
import {NgControl} from './ng_control';
import {NgForm} from './ng_form';
import {NgModelGroup} from './ng_model_group';
import {composeAsyncValidators, composeValidators, controlPath, isPropertyUpdated, selectValueAccessor,
setUpControl} from './shared';
import {TemplateDrivenErrors} from './template_driven_errors';
import {AsyncValidator, AsyncValidatorFn, Validator, ValidatorFn} from './validators';

export const
formControlBinding: any = {
  provide: NgControl,
  useExisting: forwardRef(() => NgModel)
};

/**
 * @description
 * Creates a `FormControl` instance from a domain model and
 * binds it`n` to a form control element.`n` The `FormControl` instance tracks the value, user interaction, and`n` validity status of the control and keeps the view synced with the model. If used`n` within a parent form, the
directive also registers itself with the form as a child`n` of the model. This directive is used by itself or as part of
a larger form. Use the`n` selector to activate it.`n` It accepts a domain model as an optional `Input`. If you have a one-way binding`n` to `ngModel` with `[]` syntax, changing the value of the domain model in the
class sets the value in the view. If you have a two-way binding with `[]` syntax`n` (also known as `banana-box syntax`), the value in the UI always syncs back to the model in your class.`n` To inspect the properties of the associated `FormControl` (like validity state), `n` export the directive into a local
template variable using `ngModel` as the key (ex: `:myVar="ngModel.\"\"`).`n` You then access the control using
the directive's `control` property, `n` but most properties used (like `valid` and `dirty`) fall through to the control
anyway for direct access. `n` See a full list of properties directly available in `AbstractControlDirective`. `n`
`n` @see `RadioControlValueAccessor` `n` @see `SelectControlValueAccessor` `n` @usageNotes `n` `n` 

Using `ngModel` on a standalone control`n` This following examples show a simple standalone control using
`ngModel`:`n` `n` @example forms/ts/simpleNgModel/simple_ng_model_example.ts region=Component`n` `n`

When using the `ngModel` within `<form>` tags, you'll also need to supply a `name` attribute`n` so that the
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unnecessary to include one-way or two-way binding. In the parent form, the `ngModel` tends to be sufficient as long as you use the exported form's value rather than the domain model's value on submit.

The following example shows how to use a standalone `ngModel` within a form:

```html
<form>
  <input name="login" ngModel placeholder="Login">
  <input type="checkbox" ngModel [ngModelOptions]={standalone: true}>
</form>
```

### Setting the ngModel name attribute through options

The name attribute is used in a custom form component, and the name `@Input` property serves a different purpose. In the component, the `name` property is an alternative to setting the name attribute on the form control element. See the example in the `api/forms/NgModel#using-ngmodel-on-a-standalone-control` for using `NgModel` as a standalone control.

When set to true, the `ngModel` will not register itself with its parent form, and acts as if it's not in the form. Defaults to false. 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. The `ngAcceptInputType_isDisabled` static member tells the compiler that the `disabled` attribute should be treated as a boolean.

```html
<form>
  <my-person-control name="Nancy" ngModel [ngModelOptions]={name: 'user'}>
</form>
```

See the example for using `NgModel` as a standalone control.

---

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---
Open Source Used In MSX vBranch Service Pack 3.9.0

---

```typescript
Angular forms, just add `ngNativeValidate` attribute:

```

`novalidate` is used to disable browser's native form validation.

If you want to use native validation with

```typescript
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* license that can be found in the LICENSE file at https://angular.io/license
 */

import {Directive} from

@license
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 */

import {Directive} from

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 * https://angular.io/license
 */

import {Directive} from

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 * https://angular.io/license
 */

import {Directive} from

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 * https://angular.io/license
 */

import {Directive} from

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 * https://angular.io/license
 */

import {Directive} from

@license
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 *
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export {ɵNgNoValidate as NgNoValidate};

/**
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 *
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 */

import {Directive, EventEmitter, Inject, InjectionToken, Input, OnChanges, Optional, Output, Self, SimpleChanges, forwardRef} from '@angular/core';

import {FormControl} from '../../model';
import {NG_ASYNC_VALIDATORS, NG_VALIDATORS} from '../../validators';
import {ControlValueAccessor, NG_VALUE_ACCESSOR} from '../control_value_accessor';
import {NgControl} from '../ng_control';
import {ReactiveErrors} from '../reactive_errors';
import {_ngModelWarning, composeAsyncValidators, composeValidators, isPropertyUpdated, selectValueAccessor, setUpControl} from '../shared';
import {AsyncValidator, AsyncValidatorFn, Validator, ValidatorFn} from '../validators';

/**
 * Token to provide to turn off the ngModel warning on formControl and formControlName.
 */
export const NG_MODEL_WITH_FORM_CONTROL_WARNING = new InjectionToken('NgModelWithFormControlWarning');

export const formControlBinding: any = {
  provide: NgControl,
  useExisting: forwardRef(() => FormControlDirective)
};

/**
 * @description
 * * Syncs a standalone `FormControl` instance to a form control element.
 * 
 * @see [Reactive Forms Guide](guide/reactive-forms)
 * @see `FormControl`
 * @see `AbstractControl`
 *
 * @usageNotes
 *
 * ### Registering a single form control
 * 
 * The following examples shows how to register a standalone control and set its value.
 *
 * ```ts
 * this.value = 'some value';
 * ```
 *
 * Now deprecated:
 *
 * ```html
 * <input formControl="control">
 * ```
 *
 * By default, when you use this pattern 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 use 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` layer in the class removes the convenience of defining forms in the template.
 *
 * To update your code before support is removed, you'll want to decide whether to stick with reactive form directives (and get/set values using reactive forms patterns) or use 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` layer in the class removes the convenience of defining forms in the template.

Open Source Used In MSX vBranch Service Pack 3.9.0  6554
```javascript
@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\n * particular 'FormControlDirective' instance. Used to support warning config of 'always'.
 * @internal
 */
static _ngModelWarningSent = false;

constructor(@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() @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.
   * @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);
    }
  } get path(): string[] { return []; }

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

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

  get control(): FormControl { return this.form;

  viewToModelUpdate(newValue: any): void {
    this.viewModel = newValue;
    this.update.emit(newValue);
  }

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

  // Angular-LICENSE.md
```
The following example registers a `FormGroup` with first name and last name controls, and listens for the `ngSubmit` event when the button is clicked.

```typescript
import { FormGroup, FormControl, FormGroup, FormArray } from '@angular/forms';
import { OnInit, ChangeDetectionStrategy } from '@angular/core';

@Component({
  selector: 'app-form-group-example',
  templateUrl: './form-group-example.component.html',
  styleUrls: ['./form-group-example.component.css'],
  changeDetection: ChangeDetectionStrategy.OnPush
})
export class FormGroupExampleComponent implements OnInit {

  constructor(private fb: FormBuilder) {
  }

  ngOnInit(): void {
    this.form = this.fb.group({
      firstName: ['', Validators.required],
      lastName: ['', Validators.required],
    });
  }

  submit(): void {
    if (this.form.valid) {
      alert('The form is valid.');
    } else {
      alert('The form is invalid.');
    }
  }
}
```
Open Source Used In MSX vBranch Service Pack 3.9.0

```typescript
public updateModel(dir: FormControlName, value: any): void {
    const ctrl = <FormControl>this.form.get(dir.path);
    ctrl.setValue(value);
}

/**
 * @description
 * Method called when the "submit" event is triggered on the form.
 * Triggers the `ngSubmit` emitter to emit the "submit" event as its payload.
 * @param $event The "submit" event object
 * @return false
 */
  onSubmit($event: Event): boolean {
    (this as{submitted: boolean}).submitted = true;
    syncPendingControls(this.form, this.directives);
    this.ngSubmit.emit($event);
    return false;
  }

  /**
   * @description
   * Method called when the "reset" event is triggered on the form.
   * 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;
  }
```

The code snippet is from a TypeScript class that implements a `FormGroupName` directive. This directive is used in Angular forms to sync a nested `FormGroup` to a DOM element. It allows access to individual controls within the group and provides methods to access the nested form groups and individual controls.

The `updateModel` method updates the value of a control based on the provided value. The `onSubmit` method is triggered when the form is submitted and resets the form's submitted status. The `resetForm` method resets the form to its initial value, clearing any submitted status.

This class is part of the `ReactiveFormsModule` and is used in conjunction with `FormGroupDirective` to manage form groups and their controls in Angular applications.
for form groups to be bound
* to indices when iterating over groups in a 'FormArray'.

**/ @Input('formArrayName') name !: string | number | null; @Output()
@Optional() @Host() @SkipSelf() parent: ControlContainer;
@Optional() @Self() @Inject(NG_VALIDATORS) validators: any[]; @Optional() @Self() @Inject(NG_ASYNC_VALIDATORS) asyncValidators: any[]; @ngModule
@ngModule
@publicApi
@Optional() @Host() @SkipSelf() parent: ControlContainer;
@Optional() @Self() @Inject(NG_VALIDATORS) validators: any[]; @Optional() @Self() @Inject(NG_ASYNC_VALIDATORS) asyncValidators: any[];

Todo: @see 'AbstractControl'
@see 'controller'
"### Example

*/
@ngModule
/**
 * @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. On the name of a string is useful for individual forms, while the numerical form for form arrays to be bound * to indices when iterating over arrays in a 'FormArray'.

**/ @Input('formArrayName') name !: string | number | null;

// TODO(issue/24571): remove '!'.
@Input('formGroupName') name !: string | number | null;

constructor(
  @Optional() @Host() @SkipSelf() parent: ControlContainer;
  @Optional() @Self() @Inject(NG_VALIDATORS) validators: any[]; @Optional() @Self() @Inject(NG_ASYNC_VALIDATORS) asyncValidators: any[];

```typescript
private _checkParentType(): void {
  if (_hasInvalidParent(this._parent)) {
    ReactiveErrors.arrayParentException();
  }
}
```
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, AsyncValidator, AsyncValidatorFn, Validator, ValidatorFn} from `../validators`; import {AbstractFormGroupDirective} from `../abstract_form_group_directive`; import {ControlContainer} from `../control_container`; import {ControlValueAccessor, NG_VALUE_ACCESSOR} from `../control_value_accessor`; import {ReactiveErrors} from `../reactive_errors`; import {_ngModelWarning, composeAsyncValidators, composeValidators, controlPath, isPropertyUpdated, selectValueAccessor} from `../shared`; 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
  * 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:
  * @example
  * Radio buttons:
  * `RadioControlValueAccessor` * * Selects: `SelectControlValueAccessor` * * ### Use with `ngModel` * Support for the using the `ngModel` input property and `ngModelChange` event with reactive forms has been deprecated in Angular v6 and will be removed in a future version of Angular. * * Now deprecated:
  * @example
  * ```html
  * <form [formGroup]="form">
  *   <input formControlName="first" [(ngModel)]="value">
  * </form>
  * ```
  * ```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 of `"always"`. This may help to track down where the code is being updated.
  * @ngModule `ReactiveFormsModule` * * @publicApi
  * @directive(`selector: [formName], providers: [controlNameBinding]`) export class FormName extends NgControl implements OnChanges, OnDestroy {
  * ```ts
  * ```
  * 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, and has 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 reactive forms.
  * 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 over to template-driven directives.
  * After (choice 1 - use reactive forms):
  * ```ts
  * this.form.get('first').setValue('some value');
  * ```
  * If you choose to silence this warning by providing a config for reactive formsModule at import time:
  * ```ts
  * ```
  * By default, when you use this pattern, you will see a deprecation warning once in dev mode. You can choose to silence this warning by providing a config for `ReactiveFormsModule` at import time:
  * ```ts
  * import { ReactiveFormsModule } from '@angular/forms';
  * ```
  * 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 the code is being updated. In this case, 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 the code is being updated. In this case, you can choose to表面 a separate warning for each instance of this pattern with a config of `"always"`. This may help to track down where the code is being updated.
  * This may help to track down where the code is being updated. In this case, you can choose to表面 a separate warning for each instance of this pattern with a config of `"always"`. This may help to track down where the code is being updated.
for form controls to be bound
 to indices when iterating over controls in a 'FormArray'.

@Input('formControlName') name!: string | number | null;@Input() /** * @description
 * Triggers a warning that this input should not be used with reactive forms.
 */

@Input('disabled') isDisabled: boolean) { ReactiveErrors.disabledAttrWarning(); }

// TODO(kara): remove next 4 properties once deprecation period is over
 /** @deprecated as of v6 */

@Input('ngModel') model: any;

/** @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 FormControlName. 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
 * particular FormControlName instance. Used to support warning config of 'always'.
 * @internal
 */

_private _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() @Self() 
      @Inject(NG_VALUE_ACCESSOR) valueAccessors: ControlValueAccessor[],
      @Optional() @Inject(NG_MODEL_WITH_FORM_CONTROL_WARNING) private _ngModelWarningConfig: 
string|null) {
    super();
    this._parent = parent;
    this._rawValidators = validators || [];
    this._rawAsyncValidators = asyncValidators || [];
    this.valueAccessor = selectValueAccessor(this, valueAccessors);
  }

ngOnChanges(changes: SimpleChanges) {
    if (!this._added) this._setUpControl();
    if (isPropertyUpdated(changes, this.viewModel)) {
      _ngModelWarning('formControlName', FormControlName, this, this._ngModelWarningConfig);
      this.viewModel = this.model;
      this.formDirective.updateModel(this, this.model);
    }
  }

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

viewToModelUpdate(newValue: any): void {
    this.viewModel = newValue;
    this.update.emit(newValue);
  }

get path(): string[] {
    return controlPath(this.name == null ? this.name : this.name.toString(), this._parent !);
  }

get formDirective(): any { return this._parent ? this._parent.formDirective : null; }

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

asyncValidator(): AsyncValidatorFn {
    return composeAsyncValidators(this._rawAsyncValidators) !;
  }

_private _checkParentType(): void {
    if (!(this._parent instanceof FormGroupName) &&
        this._parent instanceof AbstractFormGroupDirective) {
      ReactiveErrors.ngModelGroupException();
    } else if (!
    !(this._parent instanceof FormGroupName) &&
    !(this._parent instanceof FormGroupDirective) {
      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);
    }
  }

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

import {Directive, Input, OnChanges, SimpleProvider, 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
};

export
* @usageNotes
* ### Provide a custom validator
* The following example implements the 'Validator' interface to create an
* validator that validates synchronous validation.

@Directive({
  selector: '[customValidator]',
  providers: [{
    provide: NG_VALIDATORS,
    useExisting: CustomValidatorDirective,
    multi: true
  }]
})
export class CustomValidatorDirective implements 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 {
    return {'custom': true};
  }

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

@Directive({
  selector: '[customAsyncValidator]',
  providers: [{
    provide: NG_ASYNC_VALIDATORS,
    useExisting: CustomAsyncValidatorDirective,
    multi: true
  }]
})
export class CustomAsyncValidatorDirective implements AsyncValidator {
  validate(control: AbstractControl): Promise<ValidationErrors|null>|Observable<ValidationErrors|null> {
    return observableOf({'custom': true});
  }
}

@Directive({
  selector: '[required][formControlName]',
  providers: [REQUIRED_VALIDATOR]
})
export class RequiredValidator implements Validator {
  // TODO(issue/24571): remove '!'.
  private _required !: boolean;
  // TODO(issue/24571): remove '!'.
  private _onChange !: () => void;

  @description
  * Method that validates whether the control is empty.
  * @param control The control to validate.
  * @returns A map of validation errors if validation fails,
  * otherwise null.
  */
  validate(control: AbstractControl): ValidationErrors|null {
    return {}; // TODO(issue/24571): remove '!'.
  }

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

@Directive({
  selector: '[customValidator]',
  providers: [{
    provide: NG_VALIDATORS,
    useExisting: CustomValidatorDirective,
    multi: true
  }]
})
export class CustomValidatorDirective implements Validator {
  /**
   * Method that performs synchronous validation against the provided control.
   */

  @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
}

@Directive({
  selector: '[customAsyncValidator]',
  providers: [{
    provide: NG_ASYNC_VALIDATORS,
    useExisting: CustomAsyncValidatorDirective,
    multi: true
  }]
})
export class CustomAsyncValidatorDirective implements AsyncValidator {
  /**
   * Method that performs async validation against the provided control.
   */

  @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
}

@Directive({
  selector: '[required][formControlName]',
  providers: [REQUIRED_VALIDATOR]
})
export class RequiredValidator implements Validator {
  // TODO(issue/24571): remove '!'.
  private _required !: boolean;
  // TODO(issue/24571): remove '!'.
  private _onChange !: () => void;

  @description
  * Method that validates whether the control is empty.
  */

  @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
}

@Directive({
  selector: '[required][formControlName]',
  providers: [REQUIRED_VALIDATOR]
})
export class RequiredValidator implements Validator {
  // TODO(issue/24571): remove '!'.
  private _required !: boolean;
  // TODO(issue/24571): remove '!'.
  private _onChange !: () => void;

  @description
  * Method that validates whether the control is empty.
  * @param control The control to validate.
  * @returns A map of validation errors if validation fails,
  * otherwise null.
  */
  validate(control: AbstractControl): ValidationErrors|null {
    return {}; // TODO(issue/24571): remove '!'.
  }

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

@Directive({
  selector: '[required][formControlName]',
  providers: [REQUIRED_VALIDATOR]
})
export class RequiredValidator implements Validator {
  // TODO(issue/24571): remove '!'.
  private _required !: boolean;
  // TODO(issue/24571): remove '!'.
  private _onChange !: () => void;

  @description
  * Method that validates whether the control is empty.
  */

  @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
}

@Directive({
  selector: '[required][formControlName]',
  providers: [REQUIRED_VALIDATOR]
})
export class RequiredValidator implements Validator {
  // TODO(issue/24571): remove '!'.
  private _required !: boolean;
  // TODO(issue/24571): remove '!'.
  private _onChange !: () => void;

  @description
  * Method that validates whether the control is empty.
  */

  @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
}

@Directive({
  selector: '[required][formControlName]',
  providers: [REQUIRED_VALIDATOR]
})
export class RequiredValidator implements Validator {
  // TODO(issue/24571): remove '!'.
  private _required !: boolean;
  // TODO(issue/24571): remove '!'.
  private _onChange !: () => void;

  @description
  * Method that validates whether the control is empty.
  */

  @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
}

@Directive({
  selector: '[required][formControlName]',
  providers: [REQUIRED_VALIDATOR]
})
export class RequiredValidator implements Validator {
  // TODO(issue/24571): remove '!'.
  private _required !: boolean;
  // TODO(issue/24571): remove '!'.
  private _onChange !: () => void;

  @description
  * Method that validates whether the control is empty.
  */

  @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
}

@Directive({
  selector: '[required][formControlName]',
  providers: [REQUIRED_VALIDATOR]
})
export class RequiredValidator implements Validator {
  // TODO(issue/24571): remove '!'.
  private _required !: boolean;
  // TODO(issue/24571): remove '!'.
  private _onChange !: () => void;

  @description
  * Method that validates whether the control is empty.
  */

  @description
  * Provider which adds 'CheckboxRequiredValidator' to the 'NGVALIDATORS' multi-
Adding a required checkbox validator to an input attached to an ngModel binding.

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

Method that validates whether or not the checkbox has been checked.

```html

```
Tracks changes to the the minimum length bound to this directive.

```typescript
/**
 * @description
 * Tracks changes to the the minimum length bound to this directive.
 */
  @Input() minlength!: string | number;

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

  private _createValidator(): void { 
    this._validator = Validators.minLength(
        typeof this.minlength === 'number' ? this.minlength : parseInt(this.minlength, 10));
  }
```

### 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="25">
```
changes to the pattern bound to this directive.

```typescript
/**
 * @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.
 * Method that validates whether the value matches the pattern requirement.
 * @return true if the pattern requirement is satisfied.
 */
ngOnChanges(changes: SimpleChanges): boolean {
  if ('pattern' in changes) {
    this._createValidator();
    if (this._onChange) this._onChange();
  }
  return true;
}
```

```typescript
/**
 * @description
 * Method that validates whether the value matches the pattern requirement.
 */
validate(control: AbstractControl): ValidationErrors|null {
  return this._validator(control);
}
```

```typescript
/**
 * @description
 * Registers a callback function to call when the validator inputs change.
 * @param fn The callback function
 */
registerOnValidatorChange(fn: () => void): void {
  this._onChange = fn;
}
```

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

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```typescript
import {NgModule, Type} from '@angular/core';

import {CheckboxControlValueAccessor} from './directives/checkbox_value_accessor';
import {DefaultValueAccessor} from './directives/default_value_accessor';
import {NgControlStatus, NgControlStatusGroup} from './directives/ng_control_status';
import {NgModel} from './directives/ng_model';
import {NgModelGroup} from './directives/ng_model_group';
import {NgNoValidate} from './directives/ng_no_validate_directive';
import {NumberValueAccessor} from './directives/number_value_accessor';
import {RadioControlValueAccessor} from './directives/radio_control_value_accessor';
import {RangeValueAccessor} from './directives/range_value_accessor';
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, NgModelStatus, NgModelStatusGroup} from './directives/ng_control';
export {NgControlStatus, NgControlStatusGroup} from './directives/ng_control_status';
export {NgModel} from './directives/ng_model';
export {NgModelGroup} from './directives/ng_model_group';
export {NgNoValidate} from './directives/ng_no_validate_directive';
export {NumberValueAccessor} from './directives/number_value_accessor';
export {RadioControlValueAccessor} from './directives/radio_control_value_accessor';
export {RangeValueAccessor} from './directives/range_value_accessor';
export {FormControlDirective, 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, SelectMultipleControlValueAccessor} from './directives/select_multiple_control_value_accessor';

export const SHARED_FORM_DIRECTIVES: Type<any>[] = [
  NgNoValidate,
  NgSelectOption,
  SelectMultipleControlValueAccessor,
];
```

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EmailValidator,\n];\n\nexport const TEMPLATE_DRIVEN_DIRECTIVES: Type<any>[] = [NgModel,
NgModelGroup, NgForm];\n\nexport const REACTIVE_DRIVEN_DIRECTIVES: Type<any>[] =\n
[FormControlDirective, FormGroupDirective, FormControlName, FormGroupName, FormArrayName];\n\n/**\n *
Internal module used for sharing directives between FormsModule and ReactiveFormsModule\n
*/\n@NgModule({\n declarations: SHARED_FORM_DIRECTIVES,\n exports:
SHARED_FORM_DIRECTIVES,\n})\nexport class ÉµInternalFormsSharedModule {\n}\n\nexport
{ÉµInternalFormsSharedModule as InternalFormsSharedModule};\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 {Injectable} from '@angular/core';\n\nimport
{AsyncValidatorFn, ValidatorFn} from './directives/validators';\nimport {AbstractControl, AbstractControlOptions,
FormArray, FormControl, FormGroup, FormHooks} from './model';\n\nfunction isAbstractControlOptions(options:
AbstractControlOptions | {[key: string]: any}):\n options is AbstractControlOptions {\n return
(<AbstractControlOptions>options).asyncValidators !== undefined ||\n
(<AbstractControlOptions>options).validators !== undefined ||\n
(<AbstractControlOptions>options).updateOn
!== undefined;\n}\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@Injectable()\nexport class
FormBuilder {\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 group(\n
controlsConfig: {[key: string]: any},\n
options:
AbstractControlOptions|{[key: string]: any}|null = null): FormGroup {\n const controls =
this._reduceControls(controlsConfig);\n\n let validators: ValidatorFn|ValidatorFn[]|null = null;\n let
asyncValidators: AsyncValidatorFn|AsyncValidatorFn[]|null = null;\n let updateOn: FormHooks|undefined =
undefined;\n\n if (options != null) {\n
if (isAbstractControlOptions(options)) {\n
// `options` are
`AbstractControlOptions`\n
validators = options.validators != null ? options.validators : null;\n
asyncValidators = options.asyncValidators != null ? options.asyncValidators : null;\n
updateOn =
options.updateOn != null ? options.updateOn : undefined;\n
} else {\n
// `options` are legacy form group
options\n
validators = options['validator'] != null ? options['validator'] : null;\n
asyncValidators =
options['asyncValidator'] != null ? options['asyncValidator'] : null;\n
}\n }\n\n return new
FormGroup(controls, {asyncValidators, updateOn, validators});\n }\n\n /**\n * @description\n * Construct a
new `FormControl` with the given state, validators and options.\n *\n * @param formState Initializes the control
with an initial state value, or\n * with an object that contains both a value and a disabled status.\n *\n * @param
validatorOrOpts A synchronous validator function, or an array of\n * such functions, or an
`AbstractControlOptions` object that contains\n * validation functions and a validation trigger.\n *\n * @param
asyncValidator A single async validator or array of async validator\n * functions.\n *\n * @usageNotes\n *\n
* ### Initialize a control as disabled\n *\n * The following example returns a control with an initial value in a
disabled state.\n *\n * <code-example path=\"forms/ts/formBuilder/form_builder_example.ts\" region=\"disabledcontrol\">\n * </code-example>\n */\n control(\n
formState: any, validatorOrOpts?:
ValidatorFn|ValidatorFn[]|AbstractControlOptions|null,\n
asyncValidator?:
AsyncValidatorFn|AsyncValidatorFn[]|null): FormControl {\n return new FormControl(formState,
validatorOrOpts, asyncValidator);\n }\n\n /**\n * Constructs a new `FormArray` from the given array of

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__spreadArrays() {
    for (var s = 0, i = 0, il = arguments.length; i < il; i++)
        s += arguments[i].length;
    for (var ar = [], i = 0; i < p.length; i++)
        ar = ar.concat(__read(arguments[i]));
    return ar;
}

export function __spread() {
    for (var ar = [], i = 0; i < arguments.length; i++)
        ar = ar.concat(__read(arguments[i]));
    return ar;
}

export function __values(o) {
    var m = typeof Symbol === "function" && o[Symbol.iterator], i = 0;
    if (m) return m.call(o);
    return {
        next: function() {
            if (o && i >= o.length) o = void 0;
            return { value: o && o[i++], done: !o };
        }
    };
}

export function __exportStar(m, exports) {
    for (var p in m) if (Object.getOwnPropertyDescriptor(m, p))
        exports[p] = m[p];
}

export function __assign() {
    for (var i = arguments.length - 1; i >= 0; i--) {
            s = arguments[i];
            for (var p in s) if (Object.getOwnPropertyDescriptor(s, p))
                t[p] = s[p];
        }
    return t;
}

export function __reject(value) {
    try {
        step(generator["throw"](value));
    } catch (e) { reject(e); } return;
}

export function __awaiter(thisArg, _arguments, P, generator) {
    return new (P || (P = Promise))(function (resolve, reject) {
        function step(result) {
            result.done ? resolve(result.value) : generator["next"](result, resolve, reject);
        }
        return step((generator = generator.apply(thisArg, _arguments || [])).next());
    });
}

export function __metadata(metadataKey, metadataValue) {
    if (typeof Reflect === "object" && typeof Reflect.decorate === "function")
        Reflect.decorate(decorators, target, key, desc);
    else
        target = desc = void 0;
    return desc;
}

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

export function __awaiter(thisArg, _arguments, P, generator) {
    return new (P || (P = Promise))(function (resolve, reject) {
        function step(result) {
            result.done ? resolve(result.value) : generator["next"](result, resolve, reject);
        }
        return step((generator = generator.apply(thisArg, _arguments || [])).next());
    });
}

export function __importDefault(target, key) {
        if (key in target)
            Object.defineProperty(target, key, { enumerable: true, get: function () { return target[key]; } });
}

export function __extends(d, b) {
    d = (b && b.__esModule) ? b : b && b.hasOwnProperty(
            function (target, key, desc) { decorator(target, key, desc); }
            return function (target, key, desc) { decorator(target, key, desc); };
    }
}

export function __extends() {
    function __extends(d, b) {
        d = (b && b.__esModule) ? b : b && b.hasOwnProperty();
        if (typeof Reflect === "object" && typeof Reflect.decorate === "function")
            Reflect.decorate(decorators, target, key, desc);
        else
            target = desc = void 0;
        return desc;
    }
}

export function __importDefault(target, key) {
        if (key in target)
            Object.defineProperty(target, key, { enumerable: true, get: function () { return target[key]; } });
}

export function __extends(d, b) {
    d = (b && b.__esModule) ? b : b && b.hasOwnProperty();
    if (typeof Reflect === "object" && typeof Reflect.decorate === "function")
        Reflect.decorate(decorators, target, key, desc);
    else
        target = desc = void 0;
        return desc;
}

export function __importDefault(target, key) {
        if (key in target)
            Object.defineProperty(target, key, { enumerable: true, get: function () { return target[key]; } });
}

export function __extends(d, b) {
    d = (b && b.__esModule) ? b : b && b.hasOwnProperty();
    if (typeof Reflect === "object" && typeof Reflect.decorate === "function")
        Reflect.decorate(decorators, target, key, desc);
    else
        target = desc = void 0;
        return desc;
}

export function __importDefault(target, key) {
        if (key in target)
            Object.defineProperty(target, key, { enumerable: true, get: function () { return target[key]; } });
}
```
registerOnTouched(fn: any): void {
    this._onTouched = fn;
}
```

On blur

Store the callback function

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

```
writeValue(obj: any): void {
    this._renderer.setProperty(this._elementRef.nativeElement, 'value', obj);
}
```

### Store the change function

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

```
updateUI(): void {
    this._renderer.setProperty(this._elementRef.nativeElement, 'value', this._change); // new value
}
```

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.

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

On blur
(or equivalent), your class should call the registered function to allow
* the forms API to update itself:
* @param fn The callback function to register
* @param onTouched fn: any; void:
* @description Function that is called by the forms API when the control status changes to enabled or from 'DISABLED'. Depending on the status, it enables or disables the DOM element.
* Usage Notes
* @param isDisabled The disabled status to set on the element.

```ts
host: {blur: '_onTouched()'}
```

* @param fn The callback function to register

```ts
registerOnTouched(fn: any): void;
```
The default `ControlValueAccessor` for writing a value and listening to changes on input elements. The accessor is used by the `FormControlDirective`, `FormControlName`, and `NgModel` directives. Using the default value accessor The following example shows how to use an input element that activates the default value accessor in this case, a text field.

```ts
const firstNameControl = new FormControl();
```

```html
<input [formControl]="firstNameControl">
```
Reports whether a control is pending, meaning that that async validation is occurring and\n * errors are not yet available for the input value. If the control is not present, null is\n * returned.\n */\n * @description\n * Reports whether the control is\n * disabled, meaning that the control is disabled in the UI and is exempt from validation checks and excluded\n * from aggregate calculations of validity or value. If the control is not present, null is returned.\n */\n * @description\n * Reports whether the control is enabled, meaning that the control is included in ancestor\n * calculations of validity or value. If the control is not present, null is returned.\n */\n * @description\n * Reports whether the control is\n * pristine, meaning that the user has not yet changed the value in the UI. If the control is not present, null is returned.\n */\n * @description\n * 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.\n */\n * @description\n * Reports whether the control is\n * touched, meaning that the user has triggered a 'blur' event on it. If the control is not present, null is returned.\n */\n * @description\n * Returns a multicasting observable\n * that emits a validation status whenever it is calculated for the control. If the control is not present, null is returned.\n */\n * @description\n * Returns the validation status\n * of the control. Possible values include:\n * 'VALID', 'INVALID', 'DISABLED', and 'PENDING'. If the control is not present, null is returned.\n */\n * @description\n * Returns a multicasting observable\n * of value changes for the control that emits every time the value of the control changes in the UI or programmatically. If the control is not present, null is returned.\n */\n * @description\n * Returns an array that represents the path\n * from the top-level form to this control. Each index is the string name of the control on that level.\n */\n * @description\n * Resets the control with the provided value if the control is present. If the control is not present, null is returned.\n */\n * @description\n * Reports whether the control\n * has the error specified.\n */\n * @param\n * The code of the error to check\n * @param\n * A list of control names that designates how to move from the current control to the control that should be queried for errors.\n */\n * @param\n * For example, for the following `FormGroup`:\n * form = new\n * `address: new FormGroup({\n * street: new FormControl() }\n * )\n * );\n */\n * @description\n * 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:\n *
An array of string control names, e.g. `["address", "street"]`. A period-delimited list of control names in one string, e.g. `"address.street"`. *

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controls that sets CSS classes based on control status. The following classes are applied as the properties become true:

* `ng-valid`
* `ng-invalid`
* `ng-pristine`
* `ng-dirty`
* `ng-untouched`
* `ng-touched`

@usageNotes

### CSS classes applied

The following classes are applied as the properties become true:

* `ng-valid`
* `ng-invalid`
* `ng-pristine`
* `ng-dirty`
* `ng-untouched`
* `ng-touched`

@ngModule

ReactiveFormsModule
@ngModule FormsModule
@publicApi

/**
 * @description
 * Directive automatically applied to Angular form groups that sets CSS classes based on control status (valid/invalid/dirty/etc).
 * 
 * @see `NgControlStatus`
 *
 * @ngModule ReactiveFormsModule
 * @ngModule FormsModule
 * @publicApi
 */
@Directive({
  selector:
  '
    [formGroupName], [formArrayName], [ngModelGroup], [formGroup], form:not([ngNoForm]), [ngForm],
  ',
  host: ngControlStatusHost
})
export class NgControlStatusGroup extends AbstractControlStatus {
  constructor(@Self() cd: ControlContainer) { super(cd); }
}

/**
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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';
import {AsyncValidatorFn, ValidationErrors, Validator, ValidatorFn} from './directives/validators';
import {AbstractControl, FormControl} from './model';

function isEmptyInputValue(value: any): boolean {
  return value == null || value.length === 0;
}

/**
 * @description
 * 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 (`.`).
 * - The whole address cannot be longer than 254 characters.

 * @implementation
 * This regex has been ported from AngularJS (see there for git history):
 *  
 *  https://github.com/angular/angular.js/blob/c133ef836/src/ng/directive/input.js#L27
 *  
 *  This is based on the WHATWG version:
 *  
 *  [WHATWG version](https://html.spec.whatwg.org/multipage/input.html#valid-e-mail-address)
 *  
 *  The main differences from the WHATWG version are:
 *  - Disallow `local-part` to begin or end with a period (`.`).
 *  - `local-part` cannot begin or end with a period (`.`).
 *  - `local-part` cannot begin or end with a period (`.`).
 *  - 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
 */
const EMAIL_REGEXP =
    /^(?=.{1,254}$)(?=.{1,64}@)[a-zA-Z0-9!#$%&'*+/=?^_`{|}~-]+(?:\.[a-zA-Z0-9!#$%&'*+/=?^_`{|}~-]+)*@[a-zA-Z0-9](?:[a-zA-Z0-9-]{0,61}[a-zA-Z0-9]?)?(?:\.[a-zA-Z0-9]*[a-zA-Z0-9-]{0,61}[a-zA-Z0-9]?)?$/;

/**
 * @description
 * Provides a set of built-in validators that can be used by form controls.
 */

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collection of controls and returns an error map or null. A null map means that validation has passed.

Validator that requires the control’s value to be greater than or equal to the provided number.

The validator exists only as a function and not as a directive.

Validator that requires the field to be non-empty.

Validator that requires the control’s value be true. This validator is commonly used for required checkboxes.

Validator that requires the control’s value pass an email validation test.

Tests the value using a [regular expression](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Guide/Regular_Expressions) pattern suitable for common usecases. The pattern is based on the definition of a valid email address in the [WHATWG HTML specification](https://html.spec.whatwg.org/multipage/input.html#valid-e-mail-address) with some enhancements to incorporate more RFC rules (such as rules related to domain names and the lengths of different parts of the address).

* The differences from the WHATWG version include:
  - Disallow `local-part` (the part before the `@` symbol) to begin or end with a period (`.`).
  - Disallow `local-part` to be longer than 64 characters.
  - Disallow the whole address to be longer than 254 characters.
  - The pattern does not satisfy your business needs, you can use `Validators.pattern()`.

* Returns a validator function.

* Const control = new FormControl(2, Validators.min(3));

* Returns an error map with the `min` property if the validation check fails, otherwise `null`.

* @see `updateValueAndValidity()`

* Returns a static map with the `min` property.

* Returns a validator function that returns an error map with the `max` property if the validation check fails, otherwise `null`.

* @see `updateValueAndValidity()`

* Returns a static map with the `max` property.

* Returns an error map that contains the `required` property set to `true` if the validation check fails, otherwise `null`.

* Returns the control’s value as an email validation test.

* Tests the value using a [regular expression](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Guide/Regular_Expressions) pattern suitable for common usecases. The pattern is based on the definition of a valid email address in the [WHATWG HTML specification](https://html.spec.whatwg.org/multipage/input.html#valid-e-mail-address) with some enhancements to incorporate more RFC rules (such as rules related to domain names and the lengths of different parts of the address). The differences from the WHATWG version include:

* Disallow `local-part` (the part before the `@` symbol) to begin or end with a period (`.`).

* Disallow `local-part` to be longer than 64 characters.

* Disallow the whole address to be longer than 254 characters.

* If this pattern does not satisfy your business needs, you can use `Validators.pattern()`.

* Validate the value against a different pattern.

* Validates that the field matches a valid email pattern.

* Returns an error map with the `email` property. 

---

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(ValidatorFn|null|undefined)|null): ValidatorFn|null {
  if (!validators) return null;
  const presentValidators: ValidatorFn[] = validators.filter(isPresent as any);
  if (presentValidators.length == 0) return null;

  return function(control: AbstractControl) {
    return _mergeErrors(_executeValidators(control, presentValidators));
  };

  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;
}
```typescript
/**
 * Sets the "value" property on the input element.
 *
 * @param value The checked value
 */
this._renderer.setProperty(this._elementRef.nativeElement, 'value', normalizedValue);

/**
 * Registers a function called when the control value changes.
 *
 * @param fn The callback function
 */
this.registerOnChange(fn: (_: number|null) => void) {
    this.onChange = (value) => { fn(value == '' ? null : parseFloat(value)); }
}

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

/**
 * Sets the "disabled" property on the input element.
 *
 * @param isDisabled The disabled value
 */
this.setDisabledState(isDisabled: boolean): void {
    this._renderer.setProperty(this._elementRef.nativeElement, 'disabled', isDisabled);
}
```

```typescript
/**
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 */

import {Directive, ElementRef, Injectable, Injector, Input, OnDestroy, OnInit, Renderer2, forwardRef} from '@angular/core';

import {ControlValueAccessor, NG_VALUE_ACCESSOR} from './control_value_accessor';
import {NgControl} from './ng_control';

export const RADIO_VALUE_ACCESSOR: any = {
  provide: NG_VALUE_ACCESSOR,
  useExisting: forwardRef(() => RadioControlValueAccessor),
  multi: true
};

/**
 * 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.
 *
 * `{example forms/ts/reactiveRadioButtons/reactive_radio_button_example.ts region='Reactive'}
 */
@Directive({
  selector: 'input[type=radio][formControlName],input[type=radio][ngModel]',
  host: {'(change)': 'onChange()', '(blur)': 'onTouched()'},
  providers: [RADIO_VALUE_ACCESSOR]
})
export class RadioControlValueAccessor implements ControlValueAccessor, OnInit, OnDestroy {
  /**
   * The registered callback function called when a change event occurs on the input element.
   *
   * @param fn 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.
   *
   * Tracks the name of the radio input element.
   */
  onTouched = () => {};

  /**
   * Tracks the name of the 'FormControl' bound to the directive. The name corresponds
   * to a key in the parent 'FormGroup' or 'FormArray'.
   */
  formControlName = !/
```
```typescript
import { Directive, ElementRef, Renderer2, StaticProvider, forwardRef } from '@angular/core';

import { ControlValueAccessor, NG_VALUE_ACCESSOR } from './control_value_accessor';

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

/**
 * @description
 * The `ControlValueAccessor` for writing a range value and listening to range input changes.
 * The value accessor is used by the `FormControlDirective`, `FormControlName`, and `NgModel` directives.
 *
 * @usageNotes
 *
 * ### 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: '[type=range][formControlName], [type=range][formControl], [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 {
  /**
   * @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 = () => {};

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

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

  /**
   * Registers a function called when the control value changes.
   */
  registerOnChange(fn: (_: number|null) => void): void {
   .onChange = (value) => { fn(value == '' ? null : parseFloat(value)); };
  }

  /**
   * Registers a function called when the control is touched.
   */
  registerOnTouched(fn: () => void): void {
    onTouched = fn;
  }

  /**
   * Sets the \"disabled\" property on the range input element.
   */
  setDisabledState(isDisabled: boolean): void {
    _renderer.setProperty(_elementRef.nativeElement, 'disabled', isDisabled);
  }
}
```

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

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

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 ngModelGroup="person">
          <input [(ngModel)]="person.name" name="firstName">
       </div>
    </form>`
};

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

import {FormErrorExamples as Examples} from './error_examples';

export class ReactiveErrors {
  static controlParentException(): void {
    throw new Error(`formControlName must be used with a parent
       formGroup directive. You'll want to add a formGroup
       directive and pass it an existing FormGroup instance
       (you can create one in your class).

       Example:

       ${Examples.formControlName}`);
  }

  static ngModelGroupException(): void {
    throw new Error(`formControlName cannot be used with an
       ngModelGroup parent. It is only compatible with parents
       that also have a "form" prefix: formGroupName,
       formArrayName, or formGroup.

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

        ${Examples.formGroupName}

       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}.

    For more information on this, see our API
    docs here:
    https://angular.io/api/forms/${directiveName}='${FormControlDirective' ? 'FormControlDirective' : 'FormControlName'}
    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
    `);
  }
}

Open Source Used In MSX vBranch Service Pack 3.9.0  6602
### Using select controls in a reactive form

The following examples show how to use a select control in a reactive form.

```typescript
{@example forms/ts/reactiveSelectControl/reactive_select_control_example.ts region='Component'}
```

### Using select controls in a template-driven form

To use a select in a template-driven form, simply add an `ngModel` and a `name` attribute to the main `<select>` tag.

```typescript
{@example forms/ts/selectControl/select_control_example.ts region='Component'}
```

### Customizing option selection

Angular uses object identity to select option. It's possible for the identities of items to change while the data does not. This can happen, for example, if the items are produced from an RPC to the server, and that RPC is re-run. Even if the data hasn't changed, the second response will produce objects with different identities.

To customize the default option comparison algorithm, `<select>` supports `compareWith` input. `compareWith` takes a function which has two arguments: `option1` and `option2`. For example, if `compareWith` is given, Angular selects option by the return value of the function.

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

```typescript
<select 
    [compareWith]="compareFn"
    [formControl]="selectedCountriesControl">
    <option *ngFor="let country of countries"
        [ngValue]="country">
        {{country.name}}
    </option>
</select>
``` 

```typescript
function compareFn(c1: Country,
 c2: Country): boolean {
 return c1 && c2 ? c1.id === c2.id : c1 === c2;
}
``` 

**Note:** We listen to the 'change' event because 'input' events aren't fired on selects in Firefox and IE:

- https://bugzilla.mozilla.org/show_bug.cgi?id=1024350

@ngModule ReactiveFormsModule
@ngModule FormsModule

@publicApi
```typescript
@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: (value: any) => any) {
      if (typeof fn !== 'function') {
        throw new Error(`compareWith must be a function, but received
        ${JSON.stringify(fn)}`);
      }
      this._compareWith = fn;
    }

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

    /**
     * Sets the \`selectedIndex\` property on the input element.
     */
    onSelectedIndexChanged = (id: string) => {
      this._renderer.setProperty(this._elementRef.nativeElement, 'selectedIndex', id);
    }

    /**
     * @description
     * Registers a function called when the control value changes.
     */
    registerOnChange(fn: (value: any) => any) {
      this.onChange = (value: any) => {
        fn(this.value);
      };
    }

    /**
     * @description
     * Registers a function called when the control is touched.
     */
    registerOnTouched(fn: () => any) {
      this.onTouched = fn;
    }

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

    // Other methods...
```
export class SelectMultipleControlValueAccessor implements ControlValueAccessor {
  /**
   * The current value
   */
  value: any;

  /** @internal */
  _optionMap: Map<string, ɵNgSelectMultipleOption> = new Map<string, ɵNgSelectMultipleOption>();

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

  /** @description */
  _registerOption(value: ɵNgSelectMultipleOption): string {
    const id: string = (this._idCounter++).toString();
    this._optionMap.set(id, value);
    return id;
  }

  /** @internal */
  _getOptionId(value: any): string|null {
    for (const id of Array.from(this._optionMap.keys())) {
      if (this._compareWith(this._optionMap.get(id) !._value, value)) return id;
    }
    return null;
  }

  /** @description */
  _getOptionValue(valueString: string): any {
    const id: string = _extractId(valueString);
    return this._optionMap.has(id) ? this._optionMap.get(id) !._value : valueString;
  }

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

  /**
   * Sets the "disabled" property on the select input element.
   * @param isDisabled The disabled value
   */
  setDisabledState(isDisabled: boolean): void {
    this._renderer.setProperty(this._elementRef.nativeElement, 'disabled', isDisabled);
  }

  /** @internal */
  _registerOption(value: ɵNgSelectMultipleOption): string {
    const id: string = (this._idCounter++).toString();
    this._optionMap.set(id, value);
    return id;
  }

  /** @internal */
  _getOptionId(value: any): string|null {
    for (const id of Array.from(this._optionMap.keys())) {
      if (this._compareWith(this._optionMap.get(id) !._value, value)) return id;
    }
    return null;
  }

  /** @description */
  _getOptionValue(valueString: string): any {
    const id: string = _extractId(valueString);
    return this._optionMap.has(id) ? this._optionMap.get(id) !._value : valueString;
  }
}

/**
 * @description
 * Marks `<option>` as dynamic, so Angular can be notified when
 * options change.
 * @see `SelectMultipleControlValueAccessor`
 * @publicApi
 * @ngModule ReactiveFormsModule
 * @ngModule FormsModule
 */
@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. Unlike the value binding,
   * ngValue supports binding to objects.
   */
  @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);
    }
  }

  ngOnDestroy(): void {
    this._renderer.onTouched = null;
    this.onTouched = () => {
      this._renderer.writeValue(this.value);
    };
  }

  private _setElementValue(value: string): void {
    this._renderer.setInput(this._elementRef.nativeElement, 'value', value);
  }
}

/**
 * @description
 * The current value
 */
* @description
 * The current value
 */

@Host() private _select: SelectMultipleControlValueAccessor) {
  // 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. Unlike the value binding,
   * ngValue supports binding to objects.
   */
  @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);
    }
  }

  ngOnDestroy(): void {
    this._renderer.onTouched = null;
    this.onTouched = () => {
      this._renderer.writeValue(this.value);
    };
  }

  private _setElementValue(value: string): void {
    this._renderer.setInput(this._elementRef.nativeElement, 'value', value);
  }
}
value;
      this._setElementValue(_buildValueString(this.id, value));
    }
  }

  /**
   * @description
   * Lifecycle method called before the directive’s instance is destroyed. For internal use only.
   */
  ngOnDestroy(): void
    {}

  export {ɵNgSelectMultipleOption as NgSelectMultipleOption};

  import {isDevMode, ɵlooseIdentical as looseIdentical} from '@angular/core';

  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); });
      return; // re-run validation when validator binding changes, e.g. minLENGTH=3 -> minLENGTH=4
      dir._rawValidators.forEach((validator: any) => {
        if (validator.registerOnValidatorChange) {
          validator.registerOnValidatorChange(null);
        }
      });
    }

    if (control.disabled) {
      if (dir.valueAccessor!.setDisabledState) {
        dir.valueAccessor!.setDisabledState(false);
      }
    }

    if (dir.valueAccessor!.registerOnTouched) {
      dir.valueAccessor!.registerOnTouched();
    }

    dir._rawValidators.forEach((validator: AsyncValidator | AsyncValidatorFn, dir: NgControl) => {
      if (validator.registerOnValidatorChange) {
        validator.registerOnValidatorChange(!() => control.updateValueAndValidity());
      }
    });

    if (dir.valueAccessor!.registerOnChange) {
      dir.valueAccessor!.registerOnChange(() => control.updateValueAndValidity());
    }

    if (dir.valueAccessor!.registerOnTouched) {
      dir.valueAccessor!.registerOnTouched();
    }

    if (dir.valueAccessor!.registerOnValidatorChange) {
      dir.valueAccessor!.registerOnValidatorChange(!() => control.updateValueAndValidity());
    }

    if (dir.valueAccessor!.registerOnTouched) {
      dir.valueAccessor!.registerOnTouched();
    }

    if (dir.valueAccessor!.registerOnValidatorChange) {
      dir.valueAccessor!.registerOnValidatorChange(!() => control.updateValueAndValidity());
    }

    if (dir.valueAccessor!.registerOnTouched) {
      dir.valueAccessor!.registerOnTouched();
    }

    if (dir.valueAccessor!.registerOnValidatorChange) {
      dir.valueAccessor!.registerOnValidatorChange(!() => control.updateValueAndValidity());
    }

    if (dir.valueAccessor!.registerOnTouched) {
      dir.valueAccessor!.registerOnTouched();
    }

    if (dir.valueAccessor!.registerOnValidatorChange) {
      dir.valueAccessor!.registerOnValidatorChange(!() => control.updateValueAndValidity());
    }

    if (dir.valueAccessor!.registerOnTouched) {
      dir.valueAccessor!.registerOnTouched();
    }

    if (dir.valueAccessor!.registerOnValidatorChange) {
      dir.valueAccessor!.registerOnValidatorChange(!() => control.updateValueAndValidity());
    }

    if (dir.valueAccessor!.registerOnTouched) {
      dir.valueAccessor!.registerOnTouched();
    }

    if (dir.valueAccessor!.registerOnValidatorChange) {
      dir.valueAccessor!.registerOnValidatorChange(!() => control.updateValueAndValidity());
    }

    if (dir.valueAccessor!.registerOnTouched) {
      dir.valueAccessor!.registerOnTouched();
    }

    if (dir.valueAccessor!.registerOnValidatorChange) {
      dir.valueAccessor!.registerOnValidatorChange(!() => control.updateValueAndValidity());
    }

    if (dir.valueAccessor!.registerOnTouched) {
      dir.valueAccessor!.registerOnTouched();
    }

    if (dir.valueAccessor!.registerOnValidatorChange) {
      dir.valueAccessor!.registerOnValidatorChange(!() => control.updateValueAndValidity());
    }

    if (dir.valueAccessor!.registerOnTouched) {
      dir.valueAccessor!.registerOnTouched();
    }

    if (dir.valueAccessor!.registerOnValidatorChange) {
      dir.valueAccessor!.registerOnValidatorChange(!() => control.updateValueAndValidity());
    }

    if (dir.valueAccessor!.registerOnTouched) {
      dir.valueAccessor!.registerOnTouched();
    }

    if (dir.valueAccessor!.registerOnValidatorChange) {
      dir.valueAccessor!.registerOnValidatorChange(!() => control.updateValueAndValidity());
    }

    if (dir.valueAccessor!.registerOnTouched) {
      dir.valueAccessor!.registerOnTouched();
    }

    if (dir.valueAccessor!.registerOnValidatorChange) {
      dir.valueAccessor!.registerOnValidatorChange(!() => control.updateValueAndValidity());
    }

    if (dir.valueAccessor!.registerOnTouched) {
      dir.valueAccessor!.registerOnTouched();
    }

    if (dir.valueAccessor!.registerOnValidatorChange) {
      dir.valueAccessor!.registerOnValidatorChange(!() => control.updateValueAndValidity());
    }

    if (dir.valueAccessor!.registerOnTouched) {
      dir.valueAccessor!.registerOnTouched();
    }

    if (dir.valueAccessor!.registerOnValidatorChange) {
      dir.valueAccessor!.registerOnValidatorChange(!() => control.updateValueAndValidity());
    }

    if (dir.valueAccessor!.registerOnTouched) {
      dir.valueAccessor!.registerOnTouched();
    }

    if (dir.valueAccessor!.registerOnValidatorChange) {
      dir.valueAccessor!.registerOnValidatorChange(!() => control.updateValueAndValidity());
    }

    if (dir.valueAccessor!.registerOnTouched) {
      dir.valueAccessor!.registerOnTouched();
    }

    if (dir.valueAccessor!.registerOnValidatorChange) {
      dir.valueAccessor!.registerOnValidatorChange(!() => control.updateValueAndValidity());
    }

    if (dir.valueAccessor!.registerOnTouched) {
      dir.valueAccessor!.registerOnTouched();
    }

    if (dir.valueAccessor!.registerOnValidatorChange) {
      dir.valueAccessor!.registerOnValidatorChange(!() => control.updateValueAndValidity());
    }

    if (dir.valueAccessor!.registerOnTouched) {
      dir.valueAccessor!.registerOnTouched();
    }

    if (dir.valueAccessor!.registerOnValidatorChange) {
      dir.valueAccessor!.registerOnValidatorChange(!() => control.updateValueAndValidity());
    }

    if (dir.valueAccessor!.registerOnTouched) {
      dir.valueAccessor!.registerOnTouched();
    }
Reports that a FormControl is valid, meaning that no errors exist in the input value.

Reports that a FormControl is invalid, meaning that an error exists in the input value.

Reports that a FormControl is pending, meaning that async validation is occurring and errors are not yet available for the input value.

Reports that a FormControl is disabled, meaning that the control is exempt from ancestor calculations of validity or value.

The list of validators applied to a control.

The list of async validators applied to control.

The event name for control to update upon.

The base class for FormControl, FormGroup, and FormArray.

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.
private _asyncValidationSubscription: any;

FormHooks;

// TODO(issue/24571): remove !:
private _parent!: FormGroup | FormArray;
private _asyncValidationSubscription: any;

* The current value of the control.

** For a `FormControl`, the current value.

** For an enabled `FormGroup`, the values of enabled controls as an object

** 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.

* 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

* with a key-value pair for each member of the group.

* For a disabled `FormGroup`, the values of all controls as an array.

* public readonly value: any; // TODO(issue/24571): remove !:

* Initialize the AbstractControl instance.

* * param validator The function that determines the asynchronous validity of this control.

* * param asyncValidator The function that determines the asynchronous validity of this control.

* control.

* constructor(public validator: ValidatorFn|null, public asyncValidator: AsyncValidatorFn|null) {}

* The parent control.

* * get parent(): FormGroup|FormArray { return this._parent; } // TODO(issue/24571): remove !:

* * returns True if the control has passed all of its validation tests.

* false otherwise.

* * get valid(): boolean { return this.status === VALID; } // TODO(issue/24571): remove !:

* * A control is ‘invalid’ when its status is ‘INVALID’.

* * @see {link AbstractControl.status} * * @returns True if the control has failed one or more of its validation checks.

* false otherwise.

* * get invalid(): boolean { return this.status === INVALID; } // TODO(issue/24571): remove !:

* * A control is ‘pending’ when its status is ‘PENDING’.

* * @see {link AbstractControl.status} * * @returns True if this control is in the process of conducting a validation check.

* false otherwise.

* * get pending(): boolean { return this.status == PENDING; } // TODO(issue/24571): remove !:

* * A control is ‘disabled’ when its status is ‘DISABLED’.

* * @see {link AbstractControl.status} * * @returns True if the control is disabled, false otherwise.

* * get disabled(): boolean { return this.status !== DISABLED; } // TODO(issue/24571): remove !:

* * A control is ‘enabled’ as long as its status is not ‘DISABLED’.

* * @see {link AbstractControl.status} * * @returns True if the control has any status other than ‘DISABLED’.

* false if the status is ‘DISABLED’.

* * @see {link AbstractControl.status} * * @returns True if the control is ‘disabled’.

* * public readonly pristine: boolean = true;

* * Programmatic changes to a control’s value do not mark it dirty.

* * null if there are no errors.

* * @ TODO(issue/24571): remove !:

* public readonly errors!: ValidationErrors | null; // TODO(issue/24571): remove !:

* * An object containing any errors generated by failing validation.

* or null if there are no errors.

* * return this.status !== null; // TODO(issue/24571): remove !:

* public readonly pristine: boolean = true;

* * A control is ‘dirty’ if the user has changed the value.

* * null if there are no errors.

* * @ TODO(issue/24571): remove !:

* public readonly errors!: ValidationErrors | null; // TODO(issue/24571): remove !:

* * A control is ‘pristine’ if the user has not yet changed the value in the UI.

* * @returns True 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 ‘dirty’ if the user has changed the value.

* * null if there are no errors.

* * @ TODO(issue/24571): remove !:

* public readonly pristine: boolean = true;

* * A control is ‘disabled’ when its status is ‘DISABLED’.

* * @see {link AbstractControl.status} * * @returns True if the user has changed the value of this control in the UI.

* * Programmatic changes to a control’s value do not mark it dirty.

* * A control is marked ‘touched’ once the user has triggered a ‘blur’ event on it.

* * A control is marked ‘touched’.

* * @ TODO(issue/24571): remove !:

* public readonly valueChanges!: Observable<any>;// TODO(issue/24571): remove !:

* * A multicasting observable that emits an event every time the validation

* * of the control recalculate.

* * @see {link AbstractControl.status} * * // TODO(issue/24571): remove !:

* public readonly statusChanges!: Observable<any>;// TODO(issue/24571): remove !:

* Reports the update strategy of the ‘AbstractControl’ (meaning the event on which the control updates itself).

* Possible values: ‘change’ | ‘blur’ | ‘submit’

* Default value: ‘change’
this._updateOn ? this._updateOn : (this.parent ? this.parent.updateOn : 'change');

/**
 * Overwrites any existing async validators.
 * @param opts Configuration options that determine how the control emits events after marking is applied.
 * * `onlySelf`: When true, only this control. When false or not supplied, marks all direct ancestors. Default is false.
 */
markAsUntouched(opts: {onlySelf?: boolean} = {}): void {
  (this as {pristine: boolean}).pristine = true;

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

  if (this._pendingTouched || this._forEachChild((control: AbstractControl) => control.markAsUntouched({onlySelf: true}))) {
    this._parent.markAsUntouched({onlySelf: true});
  }

  this.markAsUntouched({onlySelf: true});
}

/**
 * Marks the control as `dirty`. A control becomes dirty
 * when its value is changed through the UI; compare `markAsTouched`.
 *
 * @param opts Configuration options that determine how the control emits events after marking is applied.
 * * `onlySelf`: When true, only this control. When false or not supplied, marks all direct ancestors. Default is false.
 */
markAsDirty(opts: {onlySelf?: boolean} = {}): void {
  (this as {pristine: boolean}).pristine = false;

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

  if (this._pendingDirty || this._forEachChild((control: AbstractControl) => control.markAsUntouched({onlySelf: true}))) {
    this._parent.markAsUntouched({onlySelf: true});
  }

  this.markAsUntouched({onlySelf: true});
}

/**
 * Marks the control as `pristine`.
 * @param opts Configuration options that determine how the control emits events after marking is applied.
 * * `onlySelf`: When true, only this control. When false or not supplied, marks all direct ancestors. Default is false.
 */
markAsPristine(opts: {onlySelf?: boolean} = {}): void {
  (this as {pristine: boolean}).pristine = true;

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

  if (this._pendingDirty || this._forEachChild((control: AbstractControl) => control.markAsUntouched({onlySelf: true}))) {
    this._parent.markAsUntouched({onlySelf: true});
  }

  this.markAsUntouched({onlySelf: true});
}
marking is applied. 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), the `statusChanges` observable emits an event with the latest status the control is marked pending. When false, no events are emitted.

```javascript
* @param opts Configuration options that determine how the control propagates changes and emits events after 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 `statusChanges` and `valueChanges` observables emit events with the latest status and value when the control is disabled.
* When false, no events are emitted.

```javascript
* @param opts Configuration options that determine how the control propagates changes and emits events after the control is enabled.
* * `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 enabled.
* When false, no events are emitted.

```javascript
* @param parent Sets the parent of the control
```
observables emit events with the latest status and value when the control is updated. * When false, no events are emitted. *An updateValueAndValidity(opts: { onlySelf?: boolean, emitEvent?: boolean } = { }): void { 
  this._setInitialStatus();
  this._updateValue();
  if (this.enabled) {
    this._statusChangesAsEventEmitter<string>();
  } else {
    this._cancelExistingSubscription();
  }
  (this as {inputs: any}).inputs = this._runValidator();
  (this as {status: string}).status = this._calculateStatus();
  if (this.status === VALID || this.status === PENDING) {
    this._runAsyncValidator(opts.emitEvent);
  }
  if (opts.emitEvent !== false) {
    (this.valueChanges as EventEmitter<any>).emit(this.value);
    (this.statusChanges as EventEmitter<string>).emit(this.status);
  }
}

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

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}));
  }
}

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 path A list of control names that designates how to move from the current control
 * to the control that should be queried for errors.
 * * For example, to get a 'name' control nested within a 'person' sub-group:
 * * `this.form.get('person.name');`
 * -OR-
 * * A period-delimited list of control names in one string, e.g. `'person.name'`
 * * 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:
 * * One array of string control names, e.g. `[address, street]`
 * * Period-delimited list of control names in one string, e.g. `'address.stree'`
 * * @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.
 * * For example, for the following `FormGroup`:
 * * `new FormGroup({
 * *   address: new FormGroup({ street: new FormControl() })
 * * });`
 * * The path to the 'street' control from the root form would be 'address' -> 'street'.
 * * It can be provided to this method in one of two formats:
 * * One array of string control names, e.g. `[address, street]`
 * * 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.
given path.

* If the control is not present, false is returned.

* `hasError(errorCode, path)` - Retrieves the top-level ancestor of this control.

* `get root()` - AbstractControl

* `hasError(errorCode, path)` - Returns true if the control is not present, false otherwise.

* `hasError(errorCode, path)` - Returns true if the control is present, false otherwise.

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* `get root()` - AbstractControl

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* `hasError(errorCode, path)` - Returns true if the control is present, false otherwise.
Set the `updateOn` option to `"submit"` to update on a submit `event`.

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

Reset the control back to an initial value and disabled state.

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

Reset the control back to an initial value and disabled state.

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

Set the `updateOn` option to `'submit'` to update on a submit `event`.

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

Set the `updateOn` option to `'submit'` to update on a submit `event`.

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

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Set the `updateOn` option to `'submit'` to update on a submit `event`.

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

Set the `updateOn` option to `'submit'` to update on a submit `event`.

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

Set the `updateOn` option to `'submit'` to update on a submit `event`.

```ts
const control = new FormControl(Nancy:\n  { updateOn: 'submit' }, \n  { \n    updateOn: 'submit', \n    updateOn: 'submit' \n  } \n); \n```
this.markAsUntouched(options);
this.setValue(this.value, options);
this._pendingChange = false;
}/**
 * Register a listener for change events.
 */
registerOnChange(fn: Function): void {
  this._onChange.push(fn);
}
/**
 * Get the list of change listeners.
 */
getChangeListeners(): Function[] {
  return this._onChange;
}
/**
 * @internal
 */
$updateValue() {}
/**
 * @internal
 */
_anyControls(condition: Function): boolean {
  return false;
}
/**
 * @internal
 */
_allControlsDisabled(): boolean {
  return this.disabled;
}
/**
 * @internal
 */
_clearChangeFns(): void {
  this._onChange = [];
  this._onDisabledChange = [];
  this._onCollectionChange = () => {};
}
/**
 * @internal
 */
_syncPendingControls(): boolean {
  if (this.updateOn === 'submit') {
    if (this._pendingDirty) this.markAsDirty();
    if (this._pendingTouched) this.markAsTouched();
    if (this._pendingChange) {
      this.setValue(this._pendingValue, {onlySelf: true, emitModelToViewChange: false});
      return true;
    }
  }
  return false;
}
/**
 * @internal
 */
_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;
    this.enable({onlySelf: true, emitEvent: false});
  }
}
/**
 * Creates a form group with 2 controls
 */
const form = new FormGroup({
  first: new FormControl('Nancy', Validators.minLength(2)),
  last: new FormControl('Drew'),
});

console.log(form.value);   // {first: 'Nancy', last: 'Drew'}
console.log(form.status);  // 'VALID'

function passwordMatchValidator(g: FormGroup) {
  return g.get('password').value === g.get('passwordConfirm').value
    ? null : {'mismatch': true};
}

const form = new FormGroup({
  password: new FormControl(''),
  passwordConfirm: new FormControl(''),
}, passwordMatchValidator);
this._setUpdateStrategy(validatorOrOpts);
this._setUpControls();
this.updateValueAndValidity({onlySelf: true, emitEvent: false});

/**
 * Registers a control with the group's list of controls.
 * 
 * This method does not update the value or validity of the control.
 * Use { @link FormGroup#addControl addControl} instead.
 */

**@

this.controls[name].registerControl(name, control);

 /**
 * Adds a control to this group.
 * This method also updates and validates the control.
 */

**@

this.controls[name].setControl(name, control);

/**
 * Remove a control from this group.
 * 
 * @param name The control name to remove from the collection
 */

**@

do { delete this.controls[name]; } while (false);

/**
 * Checks whether 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.
 */

**@

if (this.controls[name]) return this.controls[name];

/**
 * Sets the value of the `FormGroup`. It accepts an object that matches
 * the structure of the group,
 * with control names as keys.
 * 
 * const form = new FormGroup({
 *   first: new FormControl(),
 *   last: new FormControl()
 * });
 */

/**
 * 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.
 */

/**
 * Configuration options that determine how the control propagates changes
 * and emits events after the value changes.
 * 
 * The configuration options are passed to the { @link AbstractControl#updateValueAndValidity updateValueAndValidity} method.
 */

**@

other options: {onlySelf?: boolean, emitEvent?: boolean} = {};

Object.keys(value).forEach(name => {
  this._throwIfControlMissing(name);
  this.controls[name].setValue(value[name], {onlySelf: true, emitEvent: options.emitEvent});
});

this.updateValueAndValidity(options);


control.value;
  }
  })
}

/** @internal */
_reduceChildren(initValue: any, fn: Function) {
  let res = initValue;
  this._forEachChild(control: AbstractControl, name: string) => {
    res = fn(res, control, name);
  }
  return res;
}

/** @internal */
_allControlsDisabled(): boolean {
  return Object.keys(this.controls).length > 0 || this.disabled;
}

/** @internal */
_checkAllValuesPresent(value: any): void {
  this._forEachChild((control: AbstractControl, name: string) => {
    if (value[name] === undefined) {
      throw new Error(`Must supply a value for form control with name: '${name}'.`);
    }
  });
}

/**
 * Tracks the value and validity state of an array of `FormControl`, `FormGroup` or `FormArray` instances.
 * A `FormArray` aggregates the values of each child `FormControl` into an array.
 * It calculates its status by reducing the status values of its children. For example, if one of the
 * controls in a `FormArray` is invalid, the entire array becomes invalid.
 * The two types of validators are passed in as separate and the second and third argument respectively, or together as part
 * of an options object.
 * The two types of validators are passed in as separate and the second and third argument respectively, or together as part
 * of an options object.
 */
export class FormArray extends AbstractControl {
  constructor(controls: AbstractControl[], validatorOrOpts?: ValidatorFn|ValidatorFn[], asyncValidator?: AsyncValidatorFn|AsyncValidatorFn[])
}

/**
 * Creates a new `FormArray` instance.
 *
 * @param controls An array of child controls. Each child control is given an index
 * where it is registered.
 *
 * @param validatorOrOpts A synchronous validator function, or an array of
 * such functions, or an
 */
export class FormArray extends AbstractControl {
  constructor(controls: AbstractControl[], validatorOrOpts?: ValidatorFn|ValidatorFn[], asyncValidator?: AsyncValidatorFn|AsyncValidatorFn[])
}

/**
 * Creates a new `FormArray` instance.
 */
export class FormArray extends AbstractControl {
  constructor(controls: AbstractControl[], validatorOrOpts?: ValidatorFn|ValidatorFn[], asyncValidator?: AsyncValidatorFn|AsyncValidatorFn[])
}
`emitEvent`: When true or not supplied (the default), both the `statusChanges` and `valueChanges` observables emit events with the latest status and value when the control is reset. When false, no events are emitted.

The configuration options are passed to the `AbstractControl#updateValueAndValidity` method.

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

```typescript
/**
 * The aggregate value of the array, including any disabled controls.
 * For enabled controls only, the ‘value’ property is the best way to get the value of the array.
 * Remove all controls in the ‘FormArray’.
 */
getRawValue(): any[] {
  return this.controls.map(control => control.value);
}
```

```typescript
/**
 * Remove all controls in the `FormArray`.
 * @usageNotes
 * ### Remove all elements from a FormArray
 *
```
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 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 subgroups within the form. In template driven forms, all `<form>` tags are automatically tagged as `NgForm`. To import the `FormsModule` but skip its usage in some forms, for example, to use native HTML5 validation, add the `ngNoForm` 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.

The following example shows how to capture the form values from the `ngSubmit` event.

```typescript
SidebarExampleComponent
```
setUpControl(dir.control, dir);
      dir.control.updateValueAndValidity({emitEvent: false});
    }
  }

  /**
   * @description
   * Retrieves the `FormControl` instance from the provided `NgModel` directive.
   * @param dir The `NgModel` directive instance.
   */
  getControl(dir: NgModel): FormControl { return <FormControl>this.form.get(dir.path); }

  /**
   * @description
   * Adds a new `NgModelGroup` directive instance to the form.
   * @param dir The `NgModelGroup` directive instance.
   */
  addFormGroup(dir: NgModelGroup): void {
    const container = this._findContainer(dir.path);
    if (container) {
      container.registerControl(dir.name, new FormGroup({}));
      setUpFormContainer(container, dir);
      container.formDirective.addFormGroup(dir);
      container.form.updateValueAndValidity({emitEvent: false});
    }
  }

  /**
   * @description
   * Removes the `NgModelGroup` directive instance from the form.
   * @param dir The `NgModelGroup` directive instance.
   */
  removeFormGroup(dir: NgModelGroup): void {
    const container = this._findContainer(dir.path);
    if (container) {
      container.removeControl(dir.name);
      container.formDirective.removeFormGroup(dir);
    }
  }

  /**
   * @description
   * Obtains the `FormGroup` for a provided `NgModelGroup` directive instance.
   * @param dir The `NgModelGroup` directive instance.
   */
  getFormGroup(dir: NgModelGroup): FormGroup { return <FormGroup>this.form.get(dir.path); }

  /**
   * @description
   * Sets the new value for the provided `NgControl` directive.
   * @param dir The `NgControl` directive instance.
   * @param value The new value for the control.
   */
  updateModel(dir: NgControl, value: any): void {
    this.control.setValue(value);
  }

  /**
   * @description
   * Method called when the "reset" event is triggered on the form.
   */
  onReset(): void {
    this.resetForm();
  }

  /**
   * @description
   * Resets the form to an initial value and resets its submitted status.
   * @param value The new value for the form.
   */
  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;
  }
}
internal callback method triggered before the instance is destroyed.

* Removes the group from its parent group.

* An ngOnDestroy(): void {
  \n  if (this.formDirective) {
    this.formDirective.removeFormGroup(this);
  }

  /\n  /\n  * @description * The 'FormGroup' bound to this directive.

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

  /\n  /\n  * @description * The top-level directive for this group if present, otherwise null.

  * get formDirective(): FormDirective {
    return this.formDirective;
  }

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

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

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

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

  /\n  /\n  * @internal * @checkParentType(): void {
  \n  }

  /\n  /\n  * checkParentType(): void {
  \n  }

  /\n  /\n  * @external * @checkParentType(): void {
  \n  }

  /\n  /\n  * checkParentType(): void {
  \n  }

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

  * get path(): string[] {
    return return controlPath(this.name == null ? this.name : this.name.toString(), this._parent);
  }

  /\n  /\n  * @description * The top-level directive for this group if present, otherwise null.

  * @get * get formDirective(): FormDirective {
    return this.formDirective;
  }

  /\n  /\n  * @description * The top-level directive for this group if present, otherwise null.

  * get formDirective(): FormDirective {
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  }

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    return this.formDirective;
  }

  /\n  /\n  * @description * The top-level directive for this group if present, otherwise null.

  * get formDirective(): FormDirective {
    return this.formDirective;
  }

  /\n  /\n  * @description * The top-level directive for this group if present, otherwise null.

  * get formDirective(): FormDirective {
    return this.formDirective;
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    return this.formDirective;
  }

  /\n  /\n  * @description * The top-level directive for this group if present, otherwise null.

  * get formDirectiv
rather than the domain model's value on submit.

### Using ngModel within a form

The following example shows controls using 'ngModel' within a form:

```html
<form>
  <input name="login" ngModel placeholder="Login">
  <input type="checkbox" ngModel
          [ngModelOptions]="{standalone: true}">
  Show more options? 
</form>
```

### Setting the ngModel attribute name through options

The following example shows you an alternate way to set the name attribute. The name attribute is used

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

### Setting the ngModel name attribute through options

The following example shows you an alternate way to set the name attribute. The name attribute is used

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

/**
 * A lifecycle method called when the directive's inputs change. For internal use only.
 * @param changes An object of key/value pairs for the set of changed inputs.
 * @return void
 */
this._checkForErrors();
```

```html
<form>
  <input name="login" ngModel placeholder="Login">
  <input type="checkbox" ngModel
          [ngModelOptions]="{standalone: true}">
  Show more options? 
</form>
```

### Setting the ngModel name attribute through options

The following example shows you an alternate way to set the name attribute. The name attribute is used

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

### Setting the ngModel name attribute through options

The following example shows you an alternate way to set the name attribute. The name attribute is used

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

/**
 * A lifecycle method called when the directive's inputs change. For internal use only.
 * @param changes An object of key/value pairs for the set of changed inputs.
 * @return void
 */
this._checkForErrors();
```

```html
<form>
  <input name="login" ngModel placeholder="Login">
  <input type="checkbox" ngModel
          [ngModelOptions]="{standalone: true}">
  Show more options? 
</form>
```
this.formDirective && this.formDirective.removeControl(this); }\n
/**
* 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
* get path(): string[]
*/
return this._parent ? controlPath(this.name, this._parent) : [this.name]; }\n
/**
* The top-level directive for this control if present, otherwise null.
* get formDirective(): any {
* return this._parent ? this._parent.formDirective : null; }\n
/**
* Synchronous validator function composed of all the synchronous validators
* registered with this directive.
* get validator(): ValidatorFn|null { return composeValidators(this._rawValidators); }\n
/**
* The top-level directive for this control if present, otherwise null.
* get formDirective(): any {
* return this._parent ? this._parent.formDirective : null; }\n
/**
* Async validator function composed of all the async validators registered with this
* @description
* get asyncValidator(): AsyncValidatorFn|null {
* return composeAsyncValidators(this._rawAsyncValidators); }\n
/**
* Sets the new value for the view model and emits an `ngModelChange` event.
* return this.viewModel = newValue;
* private _setUpControl(): void {
* this._setUpdateStrategy();
* if (this._isStandalone()) this._setUpStandalone();
* this.formDirective.addControl(this);
* this._registered = true;
* }

/**
* @description
* @param newValue The new value emitted by viewToModelUpdate.
* viewToModelUpdate(newValue: any): void {
* this.viewModel = newValue;
* private _setUpControl(): void {
* this._setUpdateStrategy();
* if (this.options && this.options.updateOn != null) {
* this.control._updateOn = this.options.updateOn;
* }
* this.control._updateOn = this.options.updateOn;
* if (this._parent instanceof NgModelGroup) {
* …
* }

/**
* @description
* @param newValue The new value emitted by viewToModelUpdate.
* viewToModelUpdate(newValue: any): void {
* this.viewModel = newValue;
* private _setUpControl(): void {
* this._setUpdateStrategy();
* if (this.options && this.options.updateOn != null) {
* this.control._updateOn = this.options.updateOn;
* }
* this.control._updateOn = this.options.updateOn;
* if (this._parent instanceof NgModelGroup) {
* …
* }

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

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

/**
* @description
* * Adds `novalidate` attribute to all forms by default.
* * `novalidate` is used to disable browser's native form validation.
* * If you want to use native validation with Angular forms, just add `ngNativeValidate` attribute:
* ```
* <form ngNativeValidate></form>
* ```
* @publicApi
* @NgModule ReactiveFormsModule
* @NgModule FormsModule
*/
@Directive({
  selector: 'form:not([ngNoForm]):not([ngNativeValidate])',
  host: {'novalidate': ''},
})
export class ɵNgNoValidate {
}

export {ɵNgNoValidate as NgNoValidate};

/**
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*/

import {Directive, EventEmitter, Inject, InjectionToken, Input, OnChanges, Optional, Output, Self, SimpleChanges, forwardRef} from '@angular/core';

import

@license
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 */

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

/**
* @description
* * Adds `novalidate` attribute to all forms by default.
* * `novalidate` is used to disable browser's native form validation.
* * If you want to use native validation with Angular forms, just add `ngNativeValidate` attribute:
* ```
* <form ngNativeValidate></form>
* ```
* @publicApi
* @NgModule ReactiveFormsModule
* @NgModule FormsModule
* @NgModule Directives(['form:not([ngNoForm]):not([ngNativeValidate]), host: {novalidate: "",}])
*/

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

/**
* @description
* * Adds `novalidate` attribute to all forms by default.
* * `novalidate` is used to disable browser's native form validation.
* * If you want to use native validation with Angular forms, just add `ngNativeValidate` attribute:
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* <form ngNativeValidate></form>
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* @publicApi
* @NgModule ReactiveFormsModule
* @NgModule FormsModule
* @NgModule Directives(['form:not([ngNoForm]):not([ngNativeValidate]), host: {novalidate: "",}])
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* <form ngNativeValidate></form>
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* @publicApi
* @NgModule ReactiveFormsModule
* @NgModule FormsModule
* @NgModule Directives(['form:not([ngNoForm]):not([ngNativeValidate]), host: {novalidate: "",}])
*/

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

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* * 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
* @NgModule Directives(['form:not([ngNoForm]):not([ngNativeValidate]), host: {novalidate: "",}])
*/

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

/**
* @description
* * Adds `novalidate` attribute to all forms by default.
* * `novalidate` is used to disable browser's native form validation.
* * If you want to use native validation with Angular forms, just add `ngNativeValidate` attribute:
* ```
* <form ngNativeValidate></form>
* ```
* @publicApi
* @NgModule ReactiveFormsModule
* @NgModule FormsModule
* @NgModule Directives(['form:not([ngNoForm]):not([ngNativeValidate]), host: {novalidate: "",}])
*/
```typescript
{FormControl} from '../../model';
import {NG_ASYNC_VALIDATORS, NG_VALIDATEORS} from
'{/control_value_accessor'};
import {NG_ASYNC_VALIDATORS, NG_VALIDATEORS} from
'{/reactive_errors'};
import {NgModelWarning, composeAsyncValidators, composeValidators, isPropertyUpdated,
selectValueAccessor, setUpControl} from '{/shared}';
import {AsyncValidator, AsyncValidatorFn, Validator,
ValidatorFn} from '../validators';

/**
 * Token to provide to turn off the ngModel warning on formControl and
formControlName.
 */
export const NG_MODEL_WITH_FORM_CONTROL_WARNING =
new InjectionToken('NgModelWithFormControlWarning');

export const formControlBinding: any = {
  provide:
NgControl,
  useExisting: forwardRef(() => FormControlDirective)
};

/**
 * @description
 * * Syncs a 
standalone `FormControl` instance to a form control element.
 * 
 * @see [Reactive Forms Guide](guide/reactive-forms)
 * @see `FormControl`
 * @see `AbstractControl`
 *
 * @usageNotes
 *
 * ### Registering a single
 * form 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']>
* ```
 *
 * ```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.
 * After (choice 1 - use reactive 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. In
 * * @publicApi
 * * @Directive({selector: '[formControl]', providers: [FormControlBinding], exportAs: 'ngForm']})
 * FormControlDirective extends NgControl implements OnChanges {
 * 
 * Internal reference to the view model value.
 * 
 * Tracks the `FormControl` instance bound to the directive.
 * 
 * // TODO(issue/24571): remove `!`.
 * 
 * Triggers a warning that this input should not be used with
 * reactive forms.
 * 
 * Static property used to track whether any ngModel warnings have been sent across
 * * all instances of FormControlDirective. Used to
 * support warning config of `\once\`.
 * 
 * Instance property used to track whether an ngModel warning has been sent out for this
 * ```
```
* particular `FormControlDirective` instance. Used to support warning config of \"always\".\n *\n * @internal\n
*/\n _ngModelWarningSent = false;\n\n constructor(@Optional() @Self() @Inject(NG_VALIDATORS)
validators: Array<Validator|ValidatorFn>,\n
@Optional() @Self() @Inject(NG_ASYNC_VALIDATORS)
asyncValidators: Array<AsyncValidator|AsyncValidatorFn>,\n
@Optional() @Self()
@Inject(NG_VALUE_ACCESSOR)\n
valueAccessors: ControlValueAccessor[],\n
@Optional()
@Inject(NG_MODEL_WITH_FORM_CONTROL_WARNING) private _ngModelWarningConfig: string|null) {\n
super();\n
this._rawValidators = validators || [];\n
this._rawAsyncValidators =
asyncValidators || [];\n
this.valueAccessor = selectValueAccessor(this, valueAccessors);\n
}\n\n
/**\n
* @description\n
* A lifecycle method called when the directive's inputs change. For
internal use\n
* only.\n
*\n
* @param changes A object of key/value pairs for the set of
changed inputs.\n
*/\n
ngOnChanges(changes: SimpleChanges): void {\n
if
(this._isControlChanged(changes)) {\n
setUpControl(this.form, this);\n
if (this.control.disabled
&& this.valueAccessor !.setDisabledState) {\n
this.valueAccessor !.setDisabledState !(true);\n
}\n
this.form.updateValueAndValidity({emitEvent: false});\n
}\n
if
(isPropertyUpdated(changes, this.viewModel)) {\n
_ngModelWarning(\n
'formControl',
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

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ReactiveFormsModule

```typescript
@Directive({
  selector: '[formGroup]
})
export class FormGroupDirective extends ControlContainer implements Form,
OnChanges {
  /**
   * @description
   * Reports whether the form submission has been triggered.
   */
  public readonly submitted: boolean = false;

  // TODO(issue/24571): remove '!'.
  private _oldForm !: FormGroup;

  /**
   * @description
   * Tracks the list of added `FormControlName` instances
   */
  directives: FormControlName[] = [];

  /**
   * @description
   * Tracks the `FormGroup` bound to this directive.
   */
  @Input('formGroup') form: FormGroup = null !;

  /**
   * @description
   * Emits an event when the form submission has been triggered.
   */
  @Output() ngSubmit = new EventEmitter();

  constructor(
      @Optional() @Self() @Inject(NG_VALIDATORS) private _validators: any[] = [],
      @Optional() @Self() @Inject(NG_ASYNC_VALIDATORS) private _asyncValidators: any[] = []) {
    super();
  }

  ngOnChanges(changes: SimpleChanges) {
    if (changes.hasOwnProperty('form')) {
      this._updateValidators();
      this._updateDomValue();
      this._updateRegistrations();
    }
  }

  addControl(dir: FormControlName): FormControl {
    const ctrl: any = this.form.get(dir.path);
    setUpControl(ctrl, dir);
    ctrl.updateValueAndValidity({emitEvent: false});
    this.directives.push(dir);
    return ctrl;
  }

  getControl(dir: FormControlName): FormControl {
    return <FormControl>this.form.get(dir.path);
  }

  removeControl(dir: FormControlName): void {
    removeDir<FormControlName>(this.directives, dir);
  }

  addFormGroup(dir: FormGroupName): void {
    const ctrl: any = this.form.get(dir.path);
    setUpFormContainer(ctrl, dir);
    ctrl.updateValueAndValidity({emitEvent: false});
  }

  removeFormGroup(dir: FormGroupName): void {}

  getFormGroup(dir: FormGroupName): FormGroup {
    return <FormGroup>this.form.get(dir.path);
  }

  addFormArray(dir: FormArrayName): void {
    const ctrl: any = this.form.get(dir.path);
    setUpFormContainer(ctrl, dir);
    ctrl.updateValueAndValidity({emitEvent: false});
  }

  removeFormArray(dir: FormArrayName): void {}

  getFormArray(dir: FormArrayName): FormArray {
    return <FormArray>this.form.get(dir.path);
  }
```

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as its payload.

```typescript
/**
 * Method called when the "reset" event is triggered on the form.
 * @description
 * Resets the form to an initial value and resets its submitted status.
 * @param The new value for the form.
 * @resetForm(value: any = undefined): void
 * (this as{submitted: boolean}).submitted = false;
 * syncPendingControls(this.form, this.directives);
 */

private _checkFormPresent() {
  if (!this.form) {
    ReactiveErrors.missingFormException();
  }
}
```

```typescript
/**
 * @description
 * Method called when the "submit" event object
 * on Submit(Sevent: Event): boolean 
 * (this as {submitted: boolean}).submitted = true;
 * syncPendingControls(this.form, this.directives);
 * this.ngSubmit.emit(Sevent);
 * return false;
 */

onSubmit($event: Event): boolean {
  (this as{submitted: boolean}).submitted = true;
  syncPendingControls(this.form, this.directives);

  this.ngSubmit.emit($event);
  return false;
}
```

```typescript
/**
 * @description
 * Method called when the "reset" event is triggered on the form.
 * @resetForm(value: any = undefined): void
 * (this as{submitted: boolean}).submitted = false;
 * syncPendingControls(this.form, this.directives);
 */

onReset(): void { this.resetForm(); }
```

```typescript
/**
 * @description
 * 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 as{submitted: boolean}).submitted = false;
 */

resetForm(value: any = undefined): void {
  this.form.reset(value);
  (this as{submitted: boolean}).submitted = false;
}
```

```typescript
/**
 * @internal
 */

_updateDomValue() {
  this.directives.forEach(dir => {
    const newCtrl: any = this.form.get(dir.path);
    if (dir.control !== newCtrl) {
      cleanUpControl(dir.control, dir);
      if (newCtrl) setUpControl(newCtrl, dir);
      (dir as{control: FormControl}).control = newCtrl;
    }
  });

  this.form._updateTreeValidity({emitEvent: false});
}
```

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

```typescript
_updateValidators() {
  const sync = composeValidators(this._validators);
  this.form.validator = Validators.compose([this.form.validator !, sync !]);

  const async = composeAsyncValidators(this._asyncValidators);
  this.form.asyncValidator = Validators.composeAsync([this.form.asyncValidator !, async !]);
}
```

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

```typescript
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 !]);
}
```

```typescript
/**
 * @description
 * Method called when the "reset" event is triggered on the form.
 * @resetForm(value: any = undefined): void
 * (this as{submitted: boolean}).submitted = false;
 * syncPendingControls(this.form, this.directives);
 */

onSubmit($event: Event): boolean {
  (this as{submitted: boolean}).submitted = true;
  syncPendingControls(this.form, this.directives);

  this.ngSubmit.emit($event);
  return false;
}
```

```typescript
/**
 * @description
 * Method called when the "reset" event is triggered on the form.
 * @resetForm(value: any = undefined): void
 * (this as{submitted: boolean}).submitted = false;
 * syncPendingControls(this.form, this.directives);
 */

onReset(): void { this.resetForm(); }
```

```typescript
/**
 * @description
 * 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 as{submitted: boolean}).submitted = false;
 */

resetForm(value: any = undefined): void {
  this.form.reset(value);
  (this as{submitted: boolean}).submitted = false;
}
```

```typescript
/**
 * @internal
 */

_updateDomValue() {
  this.directives.forEach(dir => {
    const newCtrl: any = this.form.get(dir.path);
    if (dir.control !== newCtrl) {
      cleanUpControl(dir.control, dir);
      if (newCtrl) setUpControl(newCtrl, dir);
      (dir as{control: FormControl}).control = newCtrl;
    }
  });

  this.form._updateTreeValidity({emitEvent: false});
}
```

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

```typescript
_updateValidators() {
  const sync = composeValidators(this._validators);
  this.form.validator = Validators.compose([this.form.validator !, sync !]);

  const async = composeAsyncValidators(this._asyncValidators);
  this.form.asyncValidator = Validators.composeAsync([this.form.asyncValidator !, async !]);
}
```

```typescript
/**
 * @internal
 */

_updateDomValue() {
  this.directives.forEach(dir => {
    const newCtrl: any = this.form.get(dir.path);
    if (dir.control !== newCtrl) {
      cleanUpControl(dir.control, dir);
      if (newCtrl) setUpControl(newCtrl, dir);
      (dir as{control: FormControl}).control = newCtrl;
    }
  });

  this.form._updateTreeValidity({emitEvent: false});
}
```

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

```typescript
_updateValidators() {
  const sync = composeValidators(this._validators);
  this.form.validator = Validators.compose([this.form.validator !, sync !]);

  const async = composeAsyncValidators(this._asyncValidators);
  this.form.asyncValidator = Validators.composeAsync([this.form.asyncValidator !, async !]);
}
```

```typescript
/**
 * @description
 * Method called when the "reset" event is triggered on the form.
 * @resetForm(value: any = undefined): void
 * (this as{submitted: boolean}).submitted = false;
 * syncPendingControls(this.form, this.directives);
 */

onSubmit($event: Event): boolean {
  (this as{submitted: boolean}).submitted = true;
  syncPendingControls(this.form, this.directives);

  this.ngSubmit.emit($event);
  return false;
}
```

```typescript
/**
 * @description
 * Method called when the "reset" event is triggered on the form.
 * @resetForm(value: any = undefined): void
 * (this as{submitted: boolean}).submitted = false;
 * syncPendingControls(this.form, this.directives);
 */

onReset(): void { this.resetForm(); }
```

```typescript
/**
 * @description
 * 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 as{submitted: boolean}).submitted = false;
 */

resetForm(value: any = undefined): void {
  this.form.reset(value);
  (this as{submitted: boolean}).submitted = false;
}
```

```typescript
/**
 * @internal
 */

_updateDomValue() {
  this.directives.forEach(dir => {
    const newCtrl: any = this.form.get(dir.path);
    if (dir.control !== newCtrl) {
      cleanUpControl(dir.control, dir);
      if (newCtrl) setUpControl(newCtrl, dir);
      (dir as{control: FormControl}).control = newCtrl;
    }
  });

  this.form._updateTreeValidity({emitEvent: false});
}
```

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

```typescript
_updateValidators() {
  const sync = composeValidators(this._validators);
  this.form.validator = Validators.compose([this.form.validator !, sync !]);

  const async = composeAsyncValidators(this._asyncValidators);
  this.form.asyncValidator = Validators.composeAsync([this.form.asyncValidator !, async !]);
}
```

```typescript
/**
 * @description
 * Method called when the "reset" event is triggered on the form.
 * @resetForm(value: any = undefined): void
 * (this as{submitted: boolean}).submitted = false;
 * syncPendingControls(this.form, this.directives);
 */

onSubmit($event: Event): boolean {
  (this as{submitted: boolean}).submitted = true;
  syncPendingControls(this.form, this.directives);

  this.ngSubmit.emit($event);
  return false;
}
```

```typescript
/**
 * @description
 * Method called when the "reset" event is triggered on the form.
 * @resetForm(value: any = undefined): void
 * (this as{submitted: boolean}).submitted = false;
 * syncPendingControls(this.form, this.directives);
 */

onReset(): void { this.resetForm(); }
```

```typescript
/**
 * @description
 * 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 as{submitted: boolean}).submitted = false;
 */

resetForm(value: any = undefined): void {
  this.form.reset(value);
  (this as{submitted: boolean}).submitted = false;
}
```

```typescript
/**
 * @internal
 */

_updateDomValue() {
  this.directives.forEach(dir => {
    const newCtrl: any = this.form.get(dir.path);
    if (dir.control !== newCtrl) {
      cleanUpControl(dir.control, dir);
      if (newCtrl) setUpControl(newCtrl, dir);
      (dir as{control: FormControl}).control = newCtrl;
    }
  });

  this.form._updateTreeValidity({emitEvent: false});
}
```

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

```typescript
_updateValidators() {
  const sync = composeValidators(this._validators);
  this.form.validator = Validators.compose([this.form.validator !, sync !]);

  const async = composeAsyncValidators(this._asyncValidators);
  this.form.asyncValidator = Validators.composeAsync([this.form.asyncValidator !, async !]);
}
```
asyncValidators: any[]) {
    super();
    this._parent = parent;
    this._validators = validators;
    this._asyncValidators = asyncValidators;
  }

  /** @internal */
  _checkParentType(): void {
    if (_hasInvalidParent(this._parent)) {
      ReactiveErrors.groupParentException();
    }
  }

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

/**
 * @description
 *
 * Syncs a nested `FormArray` to a DOM element.
 * This directive is designed to be used with a parent `FormGroupDirective` (selector:`[formGroup]`). It accepts the string name of the nested `FormArray` you want to link, and will look for a `FormArray` registered with that name in the parent's `FormGroup` instance you passed into `FormGroupDirective`. It * @see [Reactive Forms Guide](guide/reactive-forms) * @see `AbstractControl`

 * @ngModule
 * @publicApi
 */
@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`. It 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`. It * @see [Reactive Forms Guide](guide/reactive-forms) * @see `AbstractControl`

 * @ngModule
 * @publicApi
 */
@Directive({selector: '[formArrayName]', providers: [formArrayNameProvider]})
export class FormArrayName extends ControlContainer implements OnInit, OnDestroy {
  /**
   * @description
   * A lifecycle method called when the directive's inputs are initialized. For internal use only.
   * @throws If the directive does not have a valid parent.
   */
  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.
   */
  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();
    }
  }

  @Host() @SkipSelf() parent: ControlContainer,
  @Optional() @Self() @Inject(NG_ASYNC_VALIDATORS) validators: any[];
  @Optional() @Self() @Inject(NG_VALIDATORS) asyncValidators: any[];
  @Optional() @Host() @SkipSelf() parent: ControlContainer,
  @Optional() @Self() @Inject(NG_ASYNC_VALIDATORS) validators: any[];
  @Optional() @Self() @Inject(NG_VALIDATORS) asyncValidators: any[];

import {AsyncValidator, AsyncValidatorFn, Validator, ValidatorFn} from '../validators';
import {NgControl, useExisting, forwardRef, FormControlName} from '@angular/forms';
import {FormGroupDirective} from './form_group_directive';
import {FormArray, FormGroup, 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`
 * @see `FormControlGroup`
 * @see `ControlNameBinding`
 * @example
 * ```ts
 * this.form.get('first').setValue('some value');
 * ```
 * @publicApi
 */
@Directive({selector: '[formControlName]', providers: [controlNameBinding]})
export class FormControlName extends NgControl implements OnChanges, OnDestroy {
  private _added = false;

  /**
   * @description
   * Internal reference to the view model value.
   * @internal
   */
  viewModel: any;

  /**
   * @description
   * Tracks the `FormControl` instance bound to the directive.
   * @internal
   */
  // TODO(issue/24571): remove '!'.
  readonly control!: FormControl;

  /**
   * @description
   * Tracks the name of the `FormControl` bound to the directive. The
   * name corresponds * to a key in the parent `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 controls to be
   * bound * to indices when iterating over controls in a `FormArray`. * To
   * Triggers a warning that this input should not be used with reactive forms.
   * @publicApi
   */
  @Input('formControlName') name!: string | number | null;

  // TODO(issue/24571): remove '!'.
  /* @Input('disabled') set isDisabled(isDisabled: boolean) {
    ReactiveErrors.disabledAttrWarning();
  } */
  //
  //
TODO(kara): remove next 4 properties once deprecation period is over

```typescript
/** @deprecated as of v6 */
@Input('ngModel') model: any;

/** @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 FormControlName. Used to support warning config of `\once` in v6. *
 * @internal
 */
static ngModelWarningSentOnce = false;

/**
 * @description
 * Instance property used to track whether an ngModel warning has been sent out for this particular FormControlName instance. Used to support warning config of `\always` in v6. *
 */
constructor(
  @Optional() @Host() @SkipSelf() parent: ControlContainer,
  @Optional() @Self()
  @Inject(NG_VALIDATORS) validators: Array<Validator|ValidatorFn>,
  @Optional() @Self()
  @Inject(NG_ASYNC_VALIDATORS) asyncValidators: Array<AsyncValidator|AsyncValidatorFn>,
  @Optional() @Self()
  @Inject(NG_VALUE_ACCESSOR) valueAccessors: ControlValueAccessor[],
  @Optional() @Inject(NG_MODEL_WITH_FORM_CONTROL_WARNING) private _ngModelWarningConfig: string|null) {
  super();
  this._parent = parent;
  this._rawValidators = validators || [];
  this._rawAsyncValidators = asyncValidators || [];
  this.valueAccessor = selectValueAccessor(this, valueAccessors);
}
```

```typescript
ngOnChanges(changes: SimpleChanges) {
  if (!this._added) this._setUpControl();
  if (isPropertyUpdated(changes, this.viewModel)) {
    _ngModelWarning('formControlName', FormControlName, this, this._ngModelWarningConfig);
    this.viewModel = this.model;
    this.formDirective.updateModel(this, this.model);
  }
}
```

```typescript
get path(): string[] {
  return controlPath(this.name == null ? this.name : this.name.toString(), this._parent !);
}
```

```typescript
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import {Directive, Input, OnChanges, 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.
 */
interface Validator {
  validate(control: AbstractControl): ValidationErrors;
}

/**
 * @description
 * An interface implemented by classes that perform asynchronous validation.
 */
interface AsyncValidator {
  validate(control: AbstractControl): Observable<ValidationErrors> | Promise<ValidationErrors>;
}

/**
 * @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) {
  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);
  }
}
```

```typescript
ngOnDestroy(): void {
  if (this.formDirective) {
    this.formDirective.removeControl(this);
  }
}
```

```typescript
viewToModelUpdate(newValue: any): void {
  this.viewModel = newValue;
  this.update.emit(newValue);
}
```
```typescript
@Directive({
  selector: '[customValidator]',
  providers: [{provide: NG_VALIDATORS, useExisting: CustomValidatorDirective, multi: true}]
})
class CustomValidatorDirective implements Validator {
  constructor(private authService: AccountService, private _router: Router) {
  }

  validate(control: AbstractControl): ValidationErrors|null {
    return {'custom': true};
  }
}

@Directive({
  selector: '[customAsyncValidator]',
  providers: [{provide: NG_ASYNC_VALIDATORS, useExisting: CustomAsyncValidatorDirective, multi: true}]
})
class CustomAsyncValidatorDirective implements AsyncValidator {
  constructor(private ariService: AccountService) {
  }

  validate(control: AbstractControl): Observable<ValidationErrors|null> {
    return observableOf({'custom': true});
  }
}

@Directive({
  selector: '[required]',
  providers: [{provide: NG_VALIDATORS, useExisting: RequiredValidator, multi: true}]
})
class RequiredValidator implements Validator {
  constructor(private _notificationService: NotificationService) {
  }

  validate(control: AbstractControl): ValidationErrors|null {
    return Validators.required(control) ? null : {required: true};
  }
}
```

```typescript
const REQUIRED_VALIDATOR: StaticProvider = {
  provide: NG_VALIDATORS,
  useExisting: forwardRef(() => RequiredValidator),
  multi: true
};

const CHECKBOX_REQUIRED_VALIDATOR: StaticProvider = {
  provide: NG_VALIDATORS,
  useExisting: forwardRef(() => CheckboxRequiredValidator),
  multi: true
};
```

```typescript
@Directive({
  selector: ':not([type=checkbox])[required][formControlName],:not([type=checkbox])[required][formControl],:not([type=checkbox])[required][ngModel]',
  providers: [REQUIRED_VALIDATOR],
  host: {'[attr.required]': 'required ? "" : null'}
})
export class RequiredValidator implements Validator {
  private _value!: boolean;
  private _onChange!: () => void;

  constructor(private _notificationService: NotificationService) {
  }

  validate(control: AbstractControl): ValidationErrors|null {
    return Validators.required(control) ? null : {required: true};
  }
}
```

```typescript
@Directive({
  selector: '[required]',
  providers: [CHECKBOX_REQUIRED_VALIDATOR],
  host: {'[attr.required]': 'required ? "" : null'}
})
export class CheckboxRequiredValidator implements AsyncValidator {
  constructor(private ariService: AccountService) {
  }

  validate(control: AbstractControl): Observable<ValidationErrors|null> {
    return observableOf({'custom': true});
  }
}
```

```typescript
@Directive({
  selector: '[ngModel]',
  providers: [NgModuleFormsModule],
  host: {'[attr.required]': 'required ? "" : null'}
})
export class RequiredValidator {
  constructor(private _formBuilder: FormBuilder, private _notificationService: NotificationService) {
  }

  validate(control: AbstractControl): ValidationErrors|null {
    return Validators.required(control) ? null : {required: true};
  }
}
```

```typescript
@Directive({
  selector: '[ngModel]',
  providers: [NgModuleFormsModule],
  host: {'[attr.required]': 'required ? "" : null'}
})
export class CheckboxRequiredValidator {
  constructor(private _formBuilder: FormBuilder, private _notificationService: NotificationService) {
  }

  validate(control: AbstractControl): Observable<ValidationErrors|null> {
    return observableOf({'custom': true});
  }
}
```
ReactiveFormsModule

```typescript
@Directive({
  selector: '[email][formControlName], [email][formControl], [email][ngModel]',
  providers: [EMAIL_VALIDATOR],
  host: {'[attr.email]': 'email ? true : null'}
})
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.
   * @param fn The callback function
   */
  registerOnValidatorChange(fn: () => void): void {
    this._onChange = fn;
  }
}
```

/**
 * @description
 * A function that receives a control and synchronously returns a map of validation errors if present, otherwise null.
 */
export interface AsyncValidatorFn {
  (control: AbstractControl): Promise<ValidationErrors|null>|Observable<ValidationErrors|null>;
}

/**
 * @description
 * A function that receives a control and returns a Promise or observable that emits validation errors if present, otherwise null.
 */
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 `<email>` attribute. The directive is provided with the `NG_VALIDATORS` multi-provider list.
 */
@Directive({
  selector: '[minlength][formControlName], [minlength][formControl], [minlength][ngModel]',
  host: {'[attr.minlength]': 'minlength ? minlength : null'},
  providers: [MIN_LENGTH_VALIDATOR],
  host: {'[attr.minlength]': 'minlength ? minlength : null'}
})
export class MinLengthValidator implements Validator {
  // TODO(issue/24571): remove '!'.
  private _validator!: ValidatorFn;
  // TODO(issue/24571): remove '!'.
  private _onChange!: () => void;

  /**
   * @description
   * Tracks changes to the the minimum length bound to this directive.
   */
  @Input()
  set minlength(value: string|number) {
    this._validator = value !== '' ? Validators.minLength(value) : null;
    if (this._onChange) this._onChange();
  }

  /**
   * @description
   * Method that validates whether the minimum length is valid.
   * Returns the validation result if enabled, otherwise null.
   */
  validate(control: AbstractControl): ValidationErrors|null {
    return this._validator ? this._validator(control) : null;
  }

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

/* */
```
if ('minlength' in changes) {
  this._createValidator();
  if (this._onChange) this._onChange();
}

/**
 * @description
 * Method that validates whether the value meets a minimum length requirement. Returns the validation result if enabled, otherwise null.
 * @param {AbstractControl} control - The control to validate.
 * @returns {ValidationErrors} - The validation result, or null.
 */
validate(control: AbstractControl): ValidationErrors|null {
  return this.minlength == null ? null : this._validator(control);
}

/**
 * @description
 * Registers a callback function to call when the validator inputs change.
 * @param {Fn} fn - The callback function.
 */
registerOnValidatorChange(fn: () => void): void { this._onChange = fn; }

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

/**
 * @description
 * Method that validates whether the value exceeds the maximum length requirement.
 * @param {AbstractControl} control - The control to validate.
 * @returns {ValidationErrors} - The validation result, or null.
 */
validate(control: AbstractControl): ValidationErrors|null {
  return this.maxlength != null ? this._validator(control) : null;
}

/**
 * @description
 * Registers a callback function to call when the validator inputs change.
 * @param {Fn} fn - The callback function.
 */
registerOnValidatorChange(fn: () => void): void { this._onChange = fn; }

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.
  * @see [Form Validation](guide/form-validation)
  * @usageNotes
  * ### Adding a maximum length validator
  * The following example shows how to add a maximum length validator to an input attached to an input using the 'ngModel' binding.
  *
  * ```html
  * <input name="firstName" ngModel maxlength="25">
  * ```
  *
  * @ngModule ReactiveFormsModule
  * @ngModule FormsModule
  * @publicApi
  */
@Directive({
  selector: '[maxlength][formControlName],[maxlength][formControl],[maxlength][ngModel]',
  providers: [MAX_LENGTH_VALIDATOR],
  host: {'[attr.maxlength]': 'maxlength ? maxlength : null'}
})
export class MaxLengthValidator implements Validator, OnChanges {
  private _validator!: ValidatorFn;
  private _onChange!: () => void;

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

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

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

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

PATTERN_VALIDATOR: any = {
  provide: NG_VALIDATORS,
  useExisting: forwardRef(() => PatternValidator),
  multi: true,
  * @description
  * A directive that adds regex pattern validation to controls marked with the 'pattern' attribute. The directive is provided with the 'NG_VALIDATORS' multi-provider list.
  * @see [Form Validation](guide/form-validation)
  * @usageNotes
  * ### Adding a pattern validator
  * The following example shows how to add a pattern validator to an input attached to an input using the 'ngModel' binding.
  *
  * ```html
  * <input name="firstName" ngModel pattern="[a-zA-Z ]*">
  * ```
  *
  * @ngModule ReactiveFormsModule
  * @ngModule FormsModule
  * @publicApi
  */
@Directive({
  selector: '[pattern][formControlName],[pattern][formControl],[pattern][ngModel]',
  providers: [PATTERN_VALIDATOR],
  host: {'[attr.pattern]': 'pattern ? pattern : null'}
})
export class PatternValidator implements Validator, OnChanges {
  private _validator!: ValidatorFn;
  private _onChange!: () => void;

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

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

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

  private _createValidator(): void {
    this._validator = Validators.pattern(this.pattern);
  }
}
```typescript
// 
// export class InternalFormsSharedModule {
//   
//   export {ɵInternalFormsSharedModule as InternalFormsSharedModule};
// }
// 
// 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 {
//   return (<AbstractControlOptions>options).asyncValidators !== undefined ||
//   (<AbstractControlOptions>options).validators !== undefined ||
//   (<AbstractControlOptions>options).updateOn !== undefined;
// }
// 
// @see [Reactive Forms Guide](/guide/reactive-forms)
// ```
validator or array of async validator\n * functions.\n */\n array\n controlsConfig: any[],\n validatorOrOpts?: ValidatorFn|ValidatorFn[]|AbstractControlOptions|null,\n asyncValidator?:\n AsyncValidatorFn|AsyncValidatorFn[]|null): FormArray \n const controls = controlsConfig.map(c =>\n this._createControl(c));\n return new FormArray(controls, validatorOrOpts, asyncValidator);
 */\n @internal \n _reduceControls(controlsConfig: {[k: string]: any}): {[key: string]: AbstractControl} \n const controls: {[key: string]: AbstractControl} = {};
 Object.keys(controlsConfig).forEach(controlName => {\n controls[controlName] = this._createControl(controlsConfig[controlName]);\n });\n return controls;\n */\n @internal \n _createControl(controlsConfig: any): AbstractControl \n if (controlsConfig instanceof FormControl ||\n controlConfig instanceof FormGroup ||\n controlConfig instanceof FormArray) {\n return controlConfig;\n } else if (Array.isArray(controlsConfig)) {\n const value = controlConfig[0];\n const asyncValidator: \n AsyncValidatorFn = controlConfig.length > 1 ? controlConfig[1] : null;\n const asyncValidator:
 AsyncValidatorFn = controlConfig.length > 2 ? controlConfig[2] : null;\n return this.control(value, validator,\n asyncValidator);\n } else {\n return this.control(controlsConfig[controlName], null,\n value, validator,\n asyncValidator);\n }\n return this.control(controlsConfig[controlName], null,\n value, validator,\n asyncValidator);
 */\n Copyright Google Inc. All Rights Reserved.\n */\n * Use of this source code is governed by an MIT-style license that can be found in the LICENSE file at https://angular.io/license\n */\n Entry point for all APIs of the common package.\n */\n * @publicApi\n */\n export const VERSION = new Version(9.0.7);\n */\n * @copyright Copyright Google Inc.\n * All Rights Reserved.\n */\n * Use of this source code is governed by an MIT-style license that can be found in the LICENSE file at https://angular.io/license\n */\n import {FormsModule} from './forms';\n import {ReactiveFormsModule} from './forms';
 import {RadioControlRegistry} from './directives/radio_control_value_accessor';\n import {FormBuilder} from './form_builder';\n import {FormBuilder} from './form_builder';\n import {RadioControlRegistry} from './directives/radio_control_value_accessor';\n import {AbstractControlDirective} from './directives/abstract_control_directive';
 import {ControlContainer} from './directives/control_container';
 import {RadioControlRegistry} from './directives/radio_control_value_accessor';\n import {AbstractControlDirective} from './directives/abstract_control_directive';
 import {AbstractFormGroupDirective} from './directives/abstract_form_group_directive';
 import {CheckboxControlValueAccessor} from './directives/checkbox_value_accessor';
 import {CheckboxControlValueAccessor} from './directives/checkbox_value_accessor';
 import {InternalFormsSharedModule} from './directives';
 import {RadioControlRegistry} from './directives/radio_control_value_accessor';\n import {AbstractControlDirective} from './directives/abstract_control_directive';
 import {AbstractFormGroupDirective} from './directives/abstract_form_group_directive';
```typescript
import { 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';
import {controlNameBinding as ɵangular_packages_forms_forms_r } from './src/directives/reactive_directives/form_control_name';
import {formDirectiveProvider as ɵangular_packages_forms_forms_s } from './src/directives/reactive_directives/form_group_directive';
import {formArrayNameProvider as ɵangular_packages_forms_forms_u, formGroupNameProvider as ɵangular_packages_forms_forms_t } from './src/directives/reactive_directives/form_group_name';
import {SELECT_VALUE_ACCESSOR as ɵangular_packages_forms_forms_v } from './src/directives/select_control_value_accessor';
import {NgSelectMultipleOption as ɵangular_packages_forms_forms_x, SELECT_MULTIPLE_VALUE_ACCESSOR as ɵangular_packages_forms_forms_w } from './src/directives/select_multiple_control_value_accessor';
import {CHECKBOX_REQUIRED_VALIDATOR as ɵangular_packages_forms_forms_a, EMAIL_VALIDATOR as ɵangular_packages_forms_forms_b, SELECT_VALUE_ACCESSOR as ɵangular_packages_forms_forms_c, MAX_LENGTH_VALIDATOR as ɵangular_packages_forms_forms_d, MIN_LENGTH_VALIDATOR as ɵangular_packages_forms_forms_e, PATTERN_VALIDATOR as ɵangular_packages_forms_forms_f, REQUIRED_VALIDATOR as ɵangular_packages_forms_forms_g } from './src/directives/validators';
```

```
import {InjectionToken, forwardRef, Directive, Renderer2, ElementRef, getDOM, Optional, Inject, Self, forkJoin, map, Promise, from, Observable, Injectable, Input, Injector, Examples, looseIdentical, Host, _buildValueString, _extractId, isDevMode, EventEmitter, SkipSelf, resolvedPromise, Output, formControlBinding, formDirectiveProvider, NgNoValidate, NgSelectMultipleOption, _NgModule, Version, InternalFormsSharedModule
```
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* /opt/ws_local/PERMITS_SQL/1047774271_1590610393.22/0/forms-9-0-7-tgz/package/esm2015/src/directives/ng_control.js
* /opt/ws_local/PERMITS_SQL/1047774271_1590610393.22/0/forms-9-0-7-tgz/package/esm2015/src/directives/abstractControlDirective.js
* /opt/ws_local/PERMITS_SQL/1047774271_1590610393.22/0/forms-9-0-7-tgz/package/esm5/src/directives/reactiveDirectives/formControlDirective.js
* /opt/ws_local/PERMITS_SQL/1047774271_1590610393.22/0/forms-9-0-7-tgz/package/esm5/src/directives/selectMultipleControlValueAccessor.js
* /opt/ws_local/PERMITS_SQL/1047774271_1590610393.22/0/forms-9-0-7-tgz/package/esm2015/src/directives/controlContainer.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/templateDrivenErrors.js
* /opt/ws_local/PERMITS_SQL/1047774271_1590610393.22/0/forms-9-0-7-tgz/package/esm2015/src/directives/rangeValueAccessor.js
* /opt/ws_local/PERMITS_SQL/1047774271_1590610393.22/0/forms-9-0-7-tgz/package/esm5/src/directives/ngControl.js
* /opt/ws_local/PERMITS_SQL/1047774271_1590610393.22/0/forms-9-0-7-tgz/package/esm5/src/directives/errorExamples.js
* /opt/ws_local/PERMITS_SQL/1047774271_1590610393.22/0/forms-9-0-7-tgz/package/esm5/src/directives/ngModel.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/controlValueAccessor.js
* /opt/ws_local/PERMITS_SQL/1047774271_1590610393.22/0/forms-9-0-7-tgz/package/esm5/src/directives/templateDrivenErrors.js
* /opt/ws_local/PERMITS_SQL/1047774271_1590610393.22/0/forms-9-0-7-tgz/package/esm2015/src/directives/reactiveDirectives/formGroupName.js
* /opt/ws_local/PERMITS_SQL/1047774271_1590610393.22/0/forms-9-0-7-tgz/package/esm2015/public_api.js
1.846 lettuce-core 5.2.1

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1.855 jackson-module-parameter-names

2.10.2

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Appendix: How to Apply These Terms to Your New Programs

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To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.
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<signature of Ty Coon>, 1 April 1989
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[This is the first released version of the library GPL. It is
numbered 2 because it goes with version 2 of the ordinary GPL.]

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

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

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

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The
former contains code derived from the library, while the latter only works together with the library.

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

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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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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
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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
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a) Accompany the work with the complete corresponding
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uses the Library”, as object code and/or source code, so that the
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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.

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Appendix: How to Apply These Terms to Your New Libraries

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1.862 jetty-util 9.4.26.v20200117
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Eclipse
The following artifacts are EPL.
* org.eclipse.jetty.orbit:org.eclipse.jdt.core
The following artifacts are EPL and ASL2.
* org.eclipse.jetty.orbit:javax.security.auth.message

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

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Oracle

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

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

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Oracle OpenJDK

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

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications
are hosted at github and both modified and original are under GPLv2 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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