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<xsl:stylesheet version="1.0"
xmlns:xsl="http://www.w3.org/1999/XSL/Transform"
xmlns:xi="http://www.w3.org/2001/XInclude"
xmlns:db="http://docbook.org/ns/docbook">

<xsl:template name="isc.copyright.format">
    <xsl:param name="text"/>
    <xsl:value-of select="$isc.copyright.leader"/>
    <xsl:value-of select="normalize-space(substring-before($text, '&#10;'))"/>
    <xsl:text>&#10;</xsl:text>
    <xsl:variable name="rest" select="substring-after($text, '&#10;')"/>
    <xsl:if test="translate($rest, '&#9;&#32;', '')">
        <xsl:call-template name="isc.copyright.format">
            <xsl:with-param name="text" select="$rest"/>
        </xsl:call-template>
    </xsl:if>
</xsl:template>

<xsl:variable name="isc.copyright.text">
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</xsl:variable>

<xsl:variable name="isc.copyright">
    <xsl:call-template name="isc.copyright.format">
        <xsl:with-param name="text" select="$isc.copyright.text"/>
    </xsl:call-template>
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1.10 babel-helper-vue-jsx-merge-props 2.0.3

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distribute the source code, even though third parties are not
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/* nicstar.c v0.22  Jawaid Bazyar (bazyar@hypermall.com)
   * nicstar.c, M. Welsh (matt.welsh@cl.cam.ac.uk)
   *
   * Hacked October, 1997 by Jawaid Bazyar, Interlink Advertising Services Inc.
   * http://www.hypermall.com/
   * 10/1/97 - commented out CFG_PHYIE bit - we don't care when the PHY
   * interrupts us (except possibly for removal/insertion of the cable?)
   * 10/4/97 - began heavy inline documentation of the code. Corrected typos
   * and spelling mistakes.
   * 10/5/97 - added code to handle PHY interrupts, disable PHY on
   * loss of link, and correctly re-enable PHY when link is
   * re-established. (put back CFG_PHYIE)
   *
   * Modified to work with the IDT7721 nicstar -- AAL5 (tested) only.
   *
   * R. D. Rechenmacher <ron@fnal.gov>, Aug. 6, 1997
   *
   * Linux driver for the IDT77201 NICStAR PCI ATM controller.
   * PHY component is expected to be 155 Mbps S/UNI-Lite or IDT 77155;
   * see init_nicstar() for PHY initialization to change this. This driver
   * expects the Linux ATM stack to support scatter-gather lists
   * (skh->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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1.18 less 530 1.el8

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1.19 gobject-introspection 1.64.1

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src/preproc/grn/gprint.h
src/preproc/grn/hdb.cpp
src/preproc/grn/hgraph.cpp
src/preproc/grn/hpoint.cpp
src/preproc/grn/main.cpp

The `gxditview' output device. It is based on X11's `xditview' program and thus has the X license.

src/devices/xditview/DESC.in
src/devices/xditview/Dvi.c
src/devices/xditview/Dvi.h
src/devices/xditview/DviP.h
src/devices/xditview/FontMap
src/devices/xditview/GXditview.ad
src/devices/xditview/Menu.h
src/devices/xditview/ad2c
src/devices/xditview/device.c
src/devices/xditview/device.h
src/devices/xditview/draw.c
src/devices/xditview/font.c
src/devices/xditview/gray1.bm
src/devices/xditview/gray2.bm
src/devices/xditview/gray3.bm
src/devices/xditview/gray4.bm
src/devices/xditview/gray5.bm
src/devices/xditview/gray6.bm
src/devices/xditview/gray7.bm
src/devices/xditview/gray8.bm
src/devices/xditview/gxditview.man
src/devices/xditview/lex.c
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. The `-mdoc` macro set, using the BSD license.

  tmac/doc.tmac
  tmac/doc-old.tmac
  tmac/doc-common
  tmac/doc-ditroff
  tmac/doc-nroff
  tmac/doc-syms
  tmac/groff_mdoc.man

. The `-me` macro set, using the BSD license.

  tmac/e.tmac
  tmac/groff_me.man
  doc/meintro.me
  doc/meintro_fr.me
  doc/meref.me

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

. The file `tmac/hyphen.us` is identical to the file `hyphen.tex`, part of the TeX system written by Donald E. Knuth; the master file can be found at

  ftp://labrea.stanford.edu/pub/tex/dist/lib/hyphen.tex

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1.23 mtools 4.0.26-r0

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For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.
In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

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

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

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

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

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

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

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

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library,
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Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

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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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subheading Preamble

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Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

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

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uses the Library", as object code and/or source code, so that the
user can modify the Library and then relink to produce a modified
executable containing the modified Library. (It is understood
that the user who changes the contents of definitions files in the
Library will not necessarily be able to recompile the application
to use the modified definitions.)

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
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@page
@subheading How to Apply These Terms to Your New Libraries

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@end smallexample

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@end iftex

@end ifinfo

@end page

@heading Appendix: How to Apply These Terms to Your New Programs

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@end smallexample

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@var{signature of Ty Coon}, 1 April 1989
Ty Coon, President of Vice
@end example

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the interface presents a list of user commands or options, such as a
menu, a prominent item in the list meets this criterion.

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1.27 file 5.38
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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.)

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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
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1.34 xfsprogs 5.3.0

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1.35 pythonurllib 1.25.8

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# Contributions to the urllib3 project

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* erikcederstrand <http://code.google.com/u/erikcederstrand/>
  * NTLM-authenticated HTTPSConnectionPool

---

Open Source Used In Cisco Modeling Labs 2.2 538
* Basic-authenticated HTTPSConectionPool (merged into make_headers)

* niphlod <niphlod@gmail.com>
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  * Better unicode support for filepost using StringIO buffers

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  * Bugfixes in testsuite

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  * Stream method for Response objects.
  * Return native strings in header values.
  * Generate 'Host' header when using proxies.

* Jason Robinson <jaywink@basshero.org>
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* Audrius Butkevicius <audrius.butkevicius@elastichosts.com>
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* Peter Waller <p@pwaller.net>
  * HTTPResponse.tell() for determining amount received over the wire

* Nipunn Koorapati <nipunn1313@gmail.com>
  * Ignore default ports when comparing hosts for equality

* Danilo @dbrgn <https://dbrgn.ch/>
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  * Disabled TLS compression in pyopenssl contrib module
  * Configurable cipher suites in pyopenssl contrib module

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  * Bugfixes, docs, test coverage
* Tahia Khan <http://tahia.tk/>
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* Krishna Prasad <kprasad.iitd@gmail.com>
  * Google App Engine documentation

* Aaron Meurer <asmeurer@gmail.com>
  * Added Url.url, which unparses a Url

* Evgeny Kapun <abacababacabaca@gmail.com>
  * Bugfixes

* Benjamen Meyer <bm_witness@yahoo.com>
  * Security Warning Documentation update for proper capture

* Shivan Sornarajah <github@sornars.com>
  * Support for using ConnectionPool and PoolManager as context managers.

* Alex Gaynor <alex.gaynor@gmail.com>
  * Updates to the default SSL configuration

* Tomas Tomecek <ttomecek@redhat.com>
  * Implemented generator for getting chunks from chunked responses.

* tlynn <https://github.com/tlynn>
  * Respect the warning preferences at import.

* David D. Riddle <ddriddle@illinois.edu>
  * IPv6 bugfixes in testsuite

* Thea Flowers <magicalgirl@google.com>
  * App Engine environment tests.
  * Documentation re-write.

* John Krauss <https://github.com/talos>
  * Clues to debugging problems with `cryptography` dependency in docs
* Disassem <https://github.com/Disassem>
  * Fix pool-default headers not applying for url-encoded requests like GET.
  
* James Atherfold <jlatherfold@hotmail.com>
  * Bugfixes relating to cleanup of connections during errors.
  
* Christian Pedersen <https://github.com/chripede>
  * IPv6 HTTPS proxy bugfix
  
* Jordan Moldow <https://github.com/jmoldow>
  * Fix low-level exceptions leaking from `HTTPResponse.stream()`.
  * Bugfix for `ConnectionPool.urlopen(release_conn=False)`.
  * Creation of `HTTPConnectionPool.ResponseCls`.
  
* Predrag Gruevski <https://github.com/obi1kenobi>
  * Made cert digest comparison use a constant-time algorithm.
  
* Adam Talsma <https://github.com/a-tal>
  * Bugfix to ca_cert file paths.
  
* Evan Meagher <https://evanmeagher.net>
  * Bugfix related to `memoryview` usage in PyOpenSSL adapter
  
* John Vandenbergh <jayvdb@gmail.com>
  * Python 2.6 fixes; pyflakes and pep8 compliance
  
* Andy Caldwell <andy.m.caldwell@googlemail.com>
  * Bugfix related to reusing connections in indeterminate states.
  
* Ville Skytt <ville.skytta@iki.fi>
  * Logging efficiency improvements, spelling fixes, Travis config.
  
* Shige Takeda <smtakeda@gmail.com>
  * Started Recipes documentation and added a recipe about handling concatenated gzip data in HTTP response
  
* Jess Shapiro <jesse@jesseshapiro.net>
  * Various character-encoding fixes/tweaks
  * Disabling IPv6 DNS when IPv6 connections not supported
  
* David Foster <http://dafoster.net/>
  * Ensure order of request and response headers are preserved.
  
* Jeremy Cline <jeremy@jcline.org>
  * Added connection pool keys by scheme
  
* Aviv Palivoda <palaviv@gmail.com>
  * History list to Retry object.
  * HTTPResponse contains the last Retry object.
* Nate Prewitt <nate.prewitt@gmail.com>
  * Ensure timeouts are not booleans and greater than zero.
  * Fixed infinite loop in `stream` when amt=None.
  * Added length_remaining to determine remaining data to be read.
  * Added enforce_content_length to raise exception when incorrect content-length received.

* Seth Michael Larson <sethmichaellarson@protonmail.com>
  * Created selectors backport that supports PEP 475.

* Alexandre Dias <alex.dias@smarks.com>
  * Don't retry on timeout if method not in whitelist

* Moinuddin Quadri <moin18@gmail.com>
  * Lazily load idna package

* Tom White <s6yg1ez3@mail2tor.com>
  * Made SOCKS handler differentiate socks5h from socks5 and socks4a from socks4.

* Tim Burke <tim.burke@gmail.com>
  * Stop buffering entire deflate-encoded responses.

* Tuukka Mustonen <tuukka.mustonen@gmail.com>
  * Add counter for status_forcelist retries.

* Erik Rose <erik@mozilla.com>
  * Bugfix to pyopenssl vendoring

* Wolfgang Richter <wolfgang.richter@gmail.com>
  * Bugfix related to loading full certificate chains with PyOpenSSL backend.

* Mike Miller <github@mikeage.net>
  * Logging improvements to include the HTTP(S) port when opening a new connection

* Ioannis Tziakos <mail@itziakos.gr>
  * Fix `util.selectors._fileobj_to_fd` to accept `long`.
  * Update appveyor tox setup to use the 64bit python.

* Akamai (through Jess Shapiro) <jshapiro@akamai.com>
  * Ongoing maintenance; 2017-2018

* Dominique Leuenberger <dimstar@opensuse.org>
  * Minor fixes in the test suite

* Will Bond <will@wbond.net>
  * Add Python 2.6 support to `contrib.securetransport`

* Aleksei Alekseev <alekseev.yeskela@gmail.com>
* using auth info for socks proxy

* Chris Wilcox <git@crwilcox.com>
  * Improve contribution guide
  * Add `HTTPResponse.geturl` method to provide `urlib2.urlopen().geturl()` behavior

* Bruce Merry <https://www.brucemerry.org.za>
  * Fix leaking exceptions when system calls are interrupted with zero timeout

* Hugo van Kemenade <https://github.com/hugovk>
  * Drop support for EOL Python 2.6

* Tim Bell <https://github.com/timb07>
  * Bugfix for responses with Content-Type: message/* logging warnings

* Justin Bramley <https://github.com/jbramleycl>
  * Add ability to handle multiple Content-Encodings

* Katsuhiko YOSHIDA <https://github.com/kyoshidajp>
  * Remove Authorization header regardless of case when redirecting to cross-site

* James Meickle <https://permadeath.com/>
  * Improve handling of Retry-After header

* Chris Jerdonek <chris.jerdonek@gmail.com>
  * Remove a spurious TypeError from the exception chain inside
    `HTTPConnectionPool._make_request()`, also for `BaseExceptions`.

* [Your name or handle] <[email or website]>
  * [Brief summary of your changes]

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1.42 dbus-python 1.2.4 15.el8

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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.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent
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Ty Coon, President of Vice

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1.45 libbytesize 1.4 3.el8

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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
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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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1.46 libmnl 1.0.4 6.el8

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THE BASIC LIBRARY FUNCTIONS
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1.62 ethtool 5.0 2.el8

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Julian Seward, jseward@acm.org
bzip2/libbzip2 version 1.0.8 of 13 July 2019
1.70 xz 5.2.4 3.el8

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```

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1.71 rpcbind 1.2.5 7.el8
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1.72 python-click 7.0

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$ click

==========

Click is a Python package for creating beautiful command line interfaces in a composable way with as little code as necessary. It's the "Command Line Interface Creation Kit". It's highly configurable but comes with sensible defaults out of the box.

It aims to make the process of writing command line tools quick and fun while also preventing any frustration caused by the inability to implement an intended CLI API.

Click in three points:

- Arbitrary nesting of commands
- Automatic help page generation
- Supports lazy loading of subcommands at runtime

Installing

--------

Install and update using `pip`:

.. code-block:: text

   $ pip install click

Click supports Python 3.4 and newer, Python 2.7, and PyPy.


A Simple Example
What does it look like? Here is an example of a simple Click program:

```python
import click

@click.command()
@click.option("--count", default=1, help="Number of greetings."
@click.option("--name", prompt="Your name",
    help="The person to greet.")
def hello(count, name):
    """Simple program that greets NAME for a total of COUNT times.""
    for _ in range(count):
        click.echo("Hello, %s!" % name)

if __name__ == '__main__':
    hello()
```

And what it looks like when run:

```
$ python hello.py --count=3
Your name: Click
Hello, Click!
Hello, Click!
Hello, Click!
```

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Links

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Found in path(s):
* /opt/cola/permits/1144635687_1616118457.69/0/python-click-7-0-orig-tar-gz/Click-7.0/README.rst
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# binary only, patch it back to the system, and then use a wrapper

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```python
import io
import re
from setuptools import setup

with io.open("README.rst", "rt", encoding="utf8") as f:
    readme = f.read()

with io.open("click/__init__.py", "rt", encoding="utf8") as f:
    version = re.search(r"__version__ = "(.*)""", f.read()).group(1)

setup(
    name="Click",
    version=version,
    url="https://palletsprojects.com/p/click/",
    project_urls={
        "Documentation": "https://click.palletsprojects.com/",
        "Code": "https://github.com/pallets/click",
        "Issue tracker": "https://github.com/pallets/click/issues",
    },
    license="BSD",
    author="Armin Ronacher",
    author_email="armin.ronacher@active-4.com",
    maintainer="Pallets Team",
    maintainer_email="contact@palletsprojects.com",
    description="Composable command line interface toolkit",
    long_description=readme,
    packages=["click"],
    include_package_data=True,
)```
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A Simple Example
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What does it look like? Here is an example of a simple Click program:

.. code-block:: python

    import click

    @click.command()
    @click.option("--count", default=1, help="Number of greetings.")
    @click.option("--name", prompt="Your name",
                   help="The person to greet.")
    def hello(count, name):
        """Simple program that greets NAME for a total of COUNT times."""
        for _ in range(count):
            click.echo("Hello, %s!" % name)

    if __name__ == '__main__':
        hello()

And what it looks like when run:

.. code-block:: text

    $ python hello.py --count=3
    Your name: Click
    Hello, Click!
    Hello, Click!
Hello, Click!

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  * Linux, Mac: https://travis-ci.org/pallets/click
  * Windows: https://ci.appveyor.com/project/pallets/click

* Test coverage: https://codecov.io/gh/pallets/click

Platform: UNKNOWN
Classifier: Development Status :: 5 - Production/Stable
Classifier: Intended Audience :: Developers
Classifier: License :: OSI Approved :: BSD License
Classifier: Operating System :: OS Independent
Classifier: Programming Language :: Python
Classifier: Programming Language :: Python :: 2
Classifier: Programming Language :: Python :: 2.7
Classifier: Programming Language :: Python :: 3
Classifier: Programming Language :: Python :: 3.4
Classifier: Programming Language :: Python :: 3.5
Classifier: Programming Language :: Python :: 3.6
Classifier: Programming Language :: Python :: 3.7
Requires-Python: >=2.7, !=3.0.*, !=3.1.*, !=3.2.*, !=3.3.*

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* /opt/cola/permits/1144635687_1616118457.69/0/python-click-7-0-orig-tar-gz/Click-7.0/PKG-INFO
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----

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

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.. _contrib:

As the userbase of Click grows, more and more major feature requests pop up in
Click's bugtracker. As reasonable as it may be for those features to be bundled
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features are either highly experimental or have unproven practical use, while
potentially being a burden to maintain.

This is why click-contrib_ exists. The GitHub organization is a collection of
possibly experimental third-party packages whose featureset does not belong
into Click, but also a playground for major features that may be added to Click
in the future. It is also meant to coordinate and concentrate effort on writing
third-party extensions for Click, and to ease the effort of searching for such
extensions. In that sense it could be described as a low-maintenance
alternative to extension repositories of other frameworks.

Please note that the quality and stability of those packages may be different
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.. _click-contrib: https://github.com/click-contrib/

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1.73 iso-codes 4.5.0-r0

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1.76 libpcap 1.9.1

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## 1.81 xz 5.2.4

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1.84 xf86-video-modesetting 0.9.0-r6

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1.103 libgpg-error 1.31 1.el8

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We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

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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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its purpose remains meaningful.

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1.124 lxd-agent-loader 0.4

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1.136 incremental 16.10.1

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1.137 open-vm-tools 11.1.0 2.el8

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>>> freebsd-base64-4.8
>>> unicode-5.0

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$OpenLDAP: pkg/ldap/libraries/liblutil/base64.c,v 1.15 2006/01/03 22:12:11 kurt Exp $ /
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<table>
<thead>
<tr>
<th>Program</th>
<th>Directory</th>
</tr>
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<tbody>
<tr>
<td>mach_override</td>
<td>lib/interception/mach_override</td>
</tr>
</tbody>
</table>

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@appendixsec GNU LESSER GENERAL PUBLIC LICENSE

@cindex LGPL, Lesser General Public License
@center Version 2.1, February 1999

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@heading END OF TERMS AND CONDITIONS
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@center END OF TERMS AND CONDITIONS
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* DNS resolver (dirmngr/dns.c)

dns.c - Recursive, Reentrant DNS Resolver.

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functions (ten lines or less in length), then the use of the object
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Otherwise, if the work is a derivative of the Library, you may
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* Charles Duffy -- original graphviz extension
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* Thomas Lamb -- linkcheck builder
* ukasz Langa -- partial support for autodoc
* Robert Lehmann -- gettext builder (GSOC project)
* Dan MacKinlay -- metadata fixes
* Martin Mahner -- nature theme
* Will Maier -- directory HTML builder
* Jacob Mason -- websupport library (GSOC project)
* Roland Meister -- epub builder
* Ezio Melotti -- collapsible sidebar JavaScript
* Daniel Neuhuser -- JavaScript domain, Python 3 support (GSOC)
* Christopher Perkins -- autosummary integration
* Benjamin Peterson -- unittests
* T. Powers -- HTML output improvements
* Stefan Seefeld -- toctree improvements
* Shibukawa Yoshiki -- pluggable search API and Japanese search
* Antonio Valentino -- qthelp builder
* Pauli Virtanen -- autodoc improvements, autosummary extension
* Stefan van der Walt -- autosummary extension
* Thomas Waldmann -- apidoc module fixes
* John Waltman -- Texinfo builder
* Barry Warsaw -- setup command improvements
* Sebastian Wiesner -- image handling, distutils support
* Joel Wurtz -- cellspanning support in \LaTeX\

Many thanks for all contributions!

There are also a few modules or functions incorporated from other authors and projects:

* sphinx.util.jsdump uses the basestring encoding from simplejson, written by Bob Ippolito, released under the MIT license
* sphinx.util.stemmer was written by Vivake Gupta, placed in the Public Domain

Local Variables:
coding: utf-8
fill-column: 70
End:
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In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

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

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

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

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@enumerate a
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The modified work must itself be a software library.

@item
You must cause the files modified to carry prominent notices
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@item
You must cause the whole of the work to be licensed at no
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@item
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.)
@end enumerate

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on the Library, the distribution of the whole must be on the terms of
this License, whose permissions for other licensees extend to the
entire whole, and thus to each and every part regardless of who wrote
it.

Thus, it is not the intent of this section to claim rights or contest
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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.

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.

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.

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

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

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

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

@item
Accompany the work with a written offer, valid for at
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If distribution of the work is made by offering access to copy
from a designated place, offer equivalent access to copy the above
specified materials from the same place.

@item
Verify that the user has already received a copy of these
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@end enumerate

For an executable, the required form of the `"work that uses the
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@enumerate a
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@end enumerate

@subheading END OF TERMS AND CONDITIONS

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@end example

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

@var{signature of Ty Coon}, 1 April 1990
Ty Coon, President of Vice
@end example

That's all there is to it!

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   c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

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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 Program.

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The source code for a work means the preferred form of the work for
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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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```
@smallexample
@group
  with the Invariant Sections being @var{list their titles}, with
  the Front-Cover Texts being @var{list}, and with the Back-Cover Texts
  being @var{list}.
@end group
@end smallexample
```

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```
@c Local Variables:
@c ispell-local-pdict: "ispell-dict"
@c End:
```

### 1.165 acl 2.2.53

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1.166 dill 0.3.3

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1.167 libx11 1.6.9

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1.170 sensible-utils 0.0.12+nmu1

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Source: https://alioth.debian.org/projects/collab-maint/sensible-utils.git

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1.171 python-jsonpatch 1.23
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1.173 quota 4.04 10.el8

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Subject: RE: Question about Mesa MLAA license
From: Jorge Jimenez <irtyoku@gmail.com>
Date: 01/08/2013 12:50 PM
To: Tom Callaway <tcallawa@redhat.com>
CC: "jorge@irtyoku.com" <jorge@irtyoku.com>

Yes to both questions.

Thanks,
Jorge

From: Tom Callaway <tcallawa@redhat.com>
Sent: January 8, 2013 6:49 PM
To: Jorge Jimenez <irtyoku@gmail.com>
CC: jorge@irtyoku.com
Subject: Re: Question about Mesa MLAA license

On 01/08/2013 12:39 PM, Jorge Jimenez wrote:
> Hi Tom,
> 
> What we meant with that is that we made an exception for clause 2.
> Instead of clause 2, in the case of the Mesa project, you have to name
> the technique Jimenez's MLAA in the config options of Mesa. We did that
> just to allow them to solve license issues. This exception should be for
> the Mesa project, and any project using Mesa, like Fedora.
> 
> We want to widespread usage of our MLAA, so we want to avoid any kind of
> license complications. Hope current one is good for Fedora, if not
> please tell, and we'll see what we can do!

Okay, a few more questions:

* If Fedora decides to simply reproduce the quoted statement:
"Uses Jimenez's MLAA. Copyright (C) 2010 by Jorge Jimenez, Belen Masia,
Jose I. Echevarria, Fernando Navarro and Diego Gutierrez."

Specifically, if this is done as part of documentation included with
Mesa, is that sufficient to meet clause 2 even if the Mesa config option
is not set as described in your exception?

* Currently, the Mesa config option for MLAA says: "Morphological
anti-aliasing based on Jimenez's MLAA. 0 to disable, 8 for default quality”. Is this in compliance with your exception?

Thanks again,

~tom

==

Fedora Project

Subject: RE: Question about Mesa MLAA license
From: Jorge Jimenez <iryoku@gmail.com>
Date: 01/08/2013 12:39 PM
To: "jorge@iryoku.com" <jorge@iryoku.com>, Tom Callaway <tcallawa@redhat.com>

Hi Tom,

What we meant with that is that we made an exception for clause 2. Instead of clause 2, in the case of the Mesa project, you have to name the technique Jimenez's MLAA in the config options of Mesa. We did that just to allow them to solve license issues. This exception should be for the Mesa project, and any project using Mesa, like Fedora.

We want to widespread usage of our MLAA, so we want to avoid any kind of license complications. Hope current one is good for Fedora, if not please tell, and we'll see what we can do!

Cheers,
Jorge

From: Tom Callaway <tcallawa@redhat.com>
Sent: January 8, 2013 6:30 PM
To: jorge@iryoku.com
Subject: Question about Mesa MLAA license

Jorge,

Thanks for all of your fantastic graphics work! I have been auditing Fedora (a popular distribution of Linux) for license compliance and I came across your MLAA code in Mesa.

The license says:

* 2. Redistributions in binary form must reproduce the following statement:
*    "Uses Jimenez's MLAA. Copyright (C) 2010 by Jorge Jimenez, Belen Masia, Jose I. Echevarria, Fernando Navarro and Diego Gutierrez."
* Only for use in the Mesa project, this point 2 is filled by naming the
* technique Jimenez's MLAA in the Mesa config options.

That wording is unclear. When you say "Only for use in the Mesa project...", it seems like you could either be saying:

- This code may only be used as part of Mesa.

OR

- In Mesa, you can comply with clause 2 by simply selecting "Jimenez's MLAA" in the Mesa config options.

*****

If the first item is true, then we may have to remove the MLAA code from Fedora's copy of Mesa. However, looking at the license on your SMAA code, I do not believe it to be the case. Please let me know either way!

Thanks in advance,

Tom Callaway
Fedora Legal

==
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test('fd6_layout',
executable('fd6_layout',
  ['fd6_layout.c',
   'freedreno_layout.c',
  ],
  link_with: libfreedreno_layout,
  dependencies : idep_mesautil,
  include_directories: [
    inc_include,
    inc_src,
    inc_mapi,
    inc_mesa,
    inc_gallium,
    inc_gallium_aux,
    inc_freedreno],
),
suite : ['freedreno'],
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1.183 python-defaults 3.8.2-0ubuntu2
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This package was put together by Klee Dienes <klee@debian.org> from sources from ftp.python.org:/pub/python, based on the Debianization by
the previous maintainers Bernd S. Brentrup <bsb@uni-muenster.de> and Bruce Perens.

Current maintainer is Matthias Klose <doko@debian.org> until the final 2.3 version is released.

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A. HISTORY OF THE SOFTWARE

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

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

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

All Python releases are Open Source (see http://www.opensource.org for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

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1.187 llvm 10.0.1

3.module_el8.3.0+467+cb298d5b

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; NOTE: Assertions have been autogenerated by utils/update_ltc_test_checks.py
; RUN: llc < %s -mtriple=aarch64-- | FileCheck %s

; A shuffle mask with all undef elements is always legal.

define <4 x i32> @PR41535(<2 x i32> %p1, <2 x i32> %p2) {
  ; CHECK-LABEL: PR41535:
  ; CHECK: // %bb.0:
  ; CHECK-NEXT:    ext v0.8b, v0.8b, v1.8b, #4
  ; CHECK-NEXT:    mov v0.d[1], v0.d[0]
  ; CHECK-NEXT:    ret
  %cat1 = shufflevector <2 x i32> %p1, <2 x i32> undef, <4 x i32> <i32 undef, i32 1, i32 undef, i32 undef>
  %cat2 = shufflevector <2 x i32> %p2, <2 x i32> undef, <4 x i32> <i32 0, i32 undef, i32 undef, i32 undef>
  %r = shufflevector <4 x i32> %cat1, <4 x i32> %cat2, <4 x i32> <i32 undef, i32 undef, i32 1, i32 4>
  ret <4 x i32> %r
}
; RUN: llc < %s -mtriple=s390x-linux-gnu -mcpu=zEC12 -verify-machineinstrs | FileCheck %s

; Test that early if conversion produces LOCR with operands of the right
; register classes.

define void @autogen_SD4739(i8*) {
  ; CHECK-NOT: Expected a GR32Bit register, but got a GRX32Bit register
  BB:
  %L34 = load i8, i8* %0
  %Cmp56 = icmp sgt i8 undef, %L34
  br label %CF246
  CF246:                                            ; preds = %CF246, %BB
    %SL163 = select i1 %Cmp56, i8 %L34, i8 undef
    br i1 undef, label %CF246, label %CF248
  CF248:                                            ; preds = %CF248, %CF246
    store i8 %SL163, i8* %0
    br label %CF248
}
; NOTE: Assertions have been autogenerated by utils/update_ltc_test_checks.py
; RUN: llc < %s -mtriple=x86_64-unknown-unknown -mcpu=skylake-avx512 -mattr=prefer-256-bit | FileCheck %s
; --check-prefixes=CHECK,CHECK-AVX512
; RUN: llc < %s -mtriple=x86_64-unknown-unknown -mcpu=skylake-avx512 -mattr=prefer-256-bit,avx512vbmi |
; FileCheck %s --check-prefixes=CHECK,CHECK-VBMI
; Make sure CPUs default to prefer-256-bit. avx512vnni isn't interesting as it just adds an isel peephole for
vpmaddwd+vpaddd
; RUN: llc < %s -mtriple=x86_64-unknown-unknown -mcpu=skylake-avx512 | FileCheck %s --check-prefixes=CHECK,CHECK-AVX512
; RUN: llc < %s -mtriple=x86_64-unknown-unknown -mattr=-avx512vnni -mcpu=cascadelake | FileCheck %s --check-prefixes=CHECK,CHECK-AVX512
; RUN: llc < %s -mtriple=x86_64-unknown-unknown -mattr=-avx512vnni -mcpu=cooperlake | FileCheck %s --check-prefixes=CHECK,CHECK-AVX512
; RUN: llc < %s -mtriple=x86_64-unknown-unknown -mcpu=cannonlake | FileCheck %s --check-prefixes=CHECK,CHECK-VBMI
; RUN: llc < %s -mtriple=x86_64-unknown-unknown -mattr=-avx512vnni -mcpu=icelake-client | FileCheck %s --check-prefixes=CHECK,CHECK-VBMI
; RUN: llc < %s -mtriple=x86_64-unknown-unknown -mattr=-avx512vnni -mcpu=icelake-server | FileCheck %s --check-prefixes=CHECK,CHECK-VBMI
; RUN: llc < %s -mtriple=x86_64-unknown-unknown -mattr=-avx512vnni -mcpu=tigerlake | FileCheck %s --check-prefixes=CHECK,CHECK-VBMI

; This file primarily contains tests for specific places in X86ISelLowering.cpp that needed be made aware of the legalizer not allowing 512-bit vectors due to prefer-256-bit even though AVX512 is enabled.

define void @add256(<16 x i32>* %a, <16 x i32>* %b, <16 x i32>* %c) "min-legal-vector-width"="256" {
    ; CHECK-LABEL: add256:
    ; CHECK:       # %bb.0:
    ; CHECK-NEXT:   vmovdqa (%rdi), %ymm0
    ; CHECK-NEXT:   vmovdqa 32(%rdi), %ymm1
    ; CHECK-NEXT:   vpaddd 32(%rsi), %ymm1, %ymm1
    ; CHECK-NEXT:   vmovdqa %ymm0, (%rdx)
    ; CHECK-NEXT:   vmovdqa %ymm1, 32(%rdx)
    ; CHECK-NEXT:   vzeroupper
    ; CHECK-NEXT:   retq
    %d = load <16 x i32>, <16 x i32>* %a
    %e = load <16 x i32>, <16 x i32>* %b
    %f = add <16 x i32> %d, %e
    store <16 x i32> %f, <16 x i32>* %c
    ret void
}

define void @add512(<16 x i32>* %a, <16 x i32>* %b, <16 x i32>* %c) "min-legal-vector-width"="512" {
    ; CHECK-LABEL: add512:
    ; CHECK:       # %bb.0:
    ; CHECK-NEXT:   vmovdqa64 (%rdi), %zmm0
    ; CHECK-NEXT:   vpaddd (%rsi), %zmm0, %zmm0
    ; CHECK-NEXT:   vmovdqa64 %zmm0, (%rdx)
    ; CHECK-NEXT:   vzeroupper
    ; CHECK-NEXT:   retq
    %d = load <16 x i32>, <16 x i32>* %a
    %e = load <16 x i32>, <16 x i32>* %b
    %f = add <16 x i32> %d, %e
}
store <16 x i32> %f, <16 x i32>* %c
ret void
}
define void @avg_v64i8_256(<64 x i8>* %a, <64 x i8>* %b) "min-legal-vector-width"="256" {
; CHECK-LABEL: avg_v64i8_256:
; CHECK:
# %bb.0:
; CHECK-NEXT: vmovdqa (%rsi), %ymm0
; CHECK-NEXT: vmovdqa 32(%rsi), %ymm1
; CHECK-NEXT: vpavgb (%rdi), %ymm0, %ymm0
; CHECK-NEXT: vpavgb 32(%rdi), %ymm1, %ymm1
; CHECK-NEXT: vmovdqu %ymm1, (%rax)
; CHECK-NEXT: vmovdqu %ymm0, (%rax)
; CHECK-NEXT: vzeroupper
; CHECK-NEXT: retq
%1 = load <64 x i8>, <64 x i8>* %a
%2 = load <64 x i8>, <64 x i8>* %b
%3 = zext <64 x i8> %1 to <64 x i32>
%4 = zext <64 x i8> %2 to <64 x i32>
%5 = add nuw nsw <64 x i32> %3, <i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1,
i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32
1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1,
i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1>
%6 = add nuw nsw <64 x i32> %5, %4
%7 = lshr <64 x i32> %6, <i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1,
i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32
1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1,
i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1>
%8 = trunc <64 x i32> %7 to <64 x i8>
store <64 x i8> %8, <64 x i8>* undef, align 4
ret void
}

define void @avg_v64i8_512(<64 x i8>* %a, <64 x i8>* %b) "min-legal-vector-width"="512" {
; CHECK-LABEL: avg_v64i8_512:
; CHECK:
# %bb.0:
; CHECK-NEXT: vmovdqa64 (%rsi), %zmm0
; CHECK-NEXT: vpavgb (%rdi), %zmm0, %zmm0
; CHECK-NEXT: vmovdqu64 %zmm0, (%rax)
; CHECK-NEXT: vzeroupper
; CHECK-NEXT: retq
%1 = load <64 x i8>, <64 x i8>* %a
%2 = load <64 x i8>, <64 x i8>* %b
%3 = zext <64 x i8> %1 to <64 x i32>
%4 = zext <64 x i8> %2 to <64 x i32>
%5 = add nuw nsw <64 x i32> %3, <i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1,
i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32

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define void @pmaddwd_32_256(i16* %APtr, i16* %BPtr, i32* %CPtr) "min-legal-vector-width"="256" {
    ; CHECK-LABEL: pmaddwd_32_256:
    ; CHECK:       # %bb.0:
    ; CHECK-NEXT:    vmovdqa (%rdi), %ymm0
    ; CHECK-NEXT:    vmovdqa 32(%rdi), %ymm1
    ; CHECK-NEXT:    vpmaddwd 32(%rsi), %ymm1, %ymm1
    ; CHECK-NEXT:    vpmaddwd (%rsi), %ymm0, %ymm0
    ; CHECK-NEXT:    vmovdqa %ymm0, (%rdx)
    ; CHECK-NEXT:    vmovdqa %ymm1, 32(%rdx)
    ; CHECK-NEXT:    vzeroupper
    ; CHECK-NEXT:    retq
    %A = load i16, i16* %APtr
    %B = load i16, i16* %BPtr
    %a = sext i16 %A to i32
    %b = sext i16 %B to i32
    %m = mul nsw i32 %a, %b
    %odd = shufflevector i32 %m, i32 undef, i32 %odd
    %even = shufflevector i32 %m, i32 undef, i32 %even
    %ret = add i32 %odd, %even
    store i32 %ret, i32* %CPtr
    ret void
}

define void @pmaddwd_32_512(i16* %APtr, i16* %BPtr, i32* %CPtr) "min-legal-vector-width"="512" {
    ; CHECK-LABEL: pmaddwd_32_512:
    ; CHECK:       # %bb.0:
    ; CHECK-NEXT:    vmovdqa64 (%rdi), %zmm0
    ; CHECK-NEXT:    vpmaddwd (%rsi), %zmm1, %zmm1
    ; CHECK-NEXT:    vpmaddwd (%rsi), %zmm0, %zmm0
    ; CHECK-NEXT:    vzeroupper
    ; CHECK-NEXT:    retq
    %A = load i16, i16* %APtr
    %B = load i16, i16* %BPtr
    %a = sext i16 %A to i32
    %b = sext i16 %B to i32
    %m = mul nsw i32 %a, %b
    %odd = shufflevector i32 %m, i32 undef, i32 %odd
    %even = shufflevector i32 %m, i32 undef, i32 %even
    %ret = add i32 %odd, %even
    store i32 %ret, i32* %CPtr
    ret void
}
%B = load <32 x i16>, <32 x i16>* %BPtr
%a = sext <32 x i16> %A to <32 x i32>
%b = sext <32 x i16> %B to <32 x i32>
%m = mul nsw <32 x i32> %a, %b
%odd = shufflevector <32 x i32> %m, <32 x i32> undef, <16 x i32> <i32 0, i32 2, i32 4, i32 6, i32 8, i32 10, i32 12, i32 14, i32 16, i32 18, i32 20, i32 22, i32 24, i32 26, i32 28, i32 30>
%even = shufflevector <32 x i32> %m, <32 x i32> undef, <16 x i32> <i32 1, i32 3, i32 5, i32 7, i32 9, i32 11, i32 13, i32 15, i32 17, i32 19, i32 21, i32 23, i32 25, i32 27, i32 29, i32 31>
%ret = add <16 x i32> %odd, %even
store <16 x i32> %ret, <16 x i32>* %CPtr
ret void
}

define void @psubus_64i8_max_256(<64 x i8>* %xptr, <64 x i8>* %yptr, <64 x i8>* %zptr) "min-legal-vector-width"="256" {
; CHECK-LABEL: psubus_64i8_max_256:
; CHECK: # %bb.0:
; CHECK-NEXT: vmovdqa (%rdi), %ymm0
; CHECK-NEXT: vmovdqa 32(%rdi), %ymm1
; CHECK-NEXT: vpsubusb 32(%rsi), %ymm1, %ymm1
; CHECK-NEXT: vpsubusb (%rsi), %ymm0, %ymm0
; CHECK-NEXT: vmovdqa %ymm0, (%rdx)
; CHECK-NEXT: vzeroupper
; CHECK-NEXT: retq
%x = load <64 x i8>, <64 x i8>* %xptr
%y = load <64 x i8>, <64 x i8>* %yptr
%cmp = icmp ult <64 x i8> %x, %y
%max = select <64 x i1> %cmp, <64 x i8> %y, <64 x i8> %x
%res = sub <64 x i8> %max, %y
store <64 x i8> %res, <64 x i8>* %zptr
ret void
}

define void @psubus_64i8_max_512(<64 x i8>* %xptr, <64 x i8>* %yptr, <64 x i8>* %zptr) "min-legal-vector-width"="512" {
; CHECK-LABEL: psubus_64i8_max_512:
; CHECK: # %bb.0:
; CHECK-NEXT: vmovdqa64 (%rdi), %zmm0
; CHECK-NEXT: vpsubusb (%rsi), %zmm0, %zmm0
; CHECK-NEXT: vmovdqa64 %zmm0, (%rdx)
; CHECK-NEXT: vzeroupper
; CHECK-NEXT: retq
%x = load <64 x i8>, <64 x i8>* %xptr
%y = load <64 x i8>, <64 x i8>* %yptr
%cmp = icmp ult <64 x i8> %x, %y
%max = select <64 x i1> %cmp, <64 x i8> %y, <64 x i8> %x
%res = sub <64 x i8> %max, %y

store <64 x i8> %res, <64 x i8>* %zptr
ret void
}

define i32 @_Z9test_charPcS_i_256(i8* nocapture readonly, i8* nocapture readonly, i32) "min-legal-vector-width"="256" {
  ; CHECK-LABEL: _Z9test_charPcS_i_256:
  ; CHECK:   # %bb.0: # %entry
  ; CHECK-NEXT: movl %edx, %eax
  ; CHECK-NEXT: vpxor %xmm0, %xmm0, %xmm0
  ; CHECK-NEXT: xorl %ecx, %ecx
  ; CHECK-NEXT: vpxor %xmm1, %xmm1, %xmm1
  ; CHECK-NEXT: vpxor %xmm2, %xmm2, %xmm2
  ; CHECK-NEXT: .p2align 4, 0x90
  ; CHECK-NEXT:  .LBB8_1: # %vector.body
  ; CHECK-NEXT:  # =>This Inner Loop Header: Depth=1
  ; CHECK-NEXT:  vpmovsxbw (%rdi,%rcx), %ymm3
  ; CHECK-NEXT:  vpmovsxbw 16(%rdi,%rcx), %ymm4
  ; CHECK-NEXT:  vpmovsxbw (%rsi,%rcx), %ymm5
  ; CHECK-NEXT:  vpmaddwd %ymm3, %ymm5, %ymm3
  ; CHECK-NEXT:  vpaddd %ymm1, %ymm3, %ymm1
  ; CHECK-NEXT:  vpmovsxbw 16(%rsi,%rcx), %ymm5
  ; CHECK-NEXT:  vpmaddwd %ymm4, %ymm3, %ymm3
  ; CHECK-NEXT:  vpaddd %ymm2, %ymm3, %ymm2
  ; CHECK-NEXT:  addq $32, %rcx
  ; CHECK-NEXT:  cmpq %rcx, %rax
  ; CHECK-NEXT:  jne .LBB8_1
  ; CHECK-NEXT:  # %bb.2: # %middle.block
  ; CHECK-NEXT:  vpaddd %ymm0, %ymm1, %ymm1
  ; CHECK-NEXT:  vpaddd %ymm0, %ymm2, %ymm0
  ; CHECK-NEXT:  vpaddd %ymm0, %ymm1, %ymm0
  ; CHECK-NEXT:  vextracti128 $1, %ymm0, %xmm1
  ; CHECK-NEXT:  vpaddd %xmm1, %xmm0, %xmm0
  ; CHECK-NEXT:  vpshufd {{.*#+}} xmm1 = xmm0[2,3,0,1]
  ; CHECK-NEXT:  vpaddd %xmm0, %xmm0
  ; CHECK-NEXT:  vpaddd %xmm0, %xmm0
  ; CHECK-NEXT:  vpaddd %xmm1, %xmm0, %xmm0
  ; CHECK-NEXT:  vmovd %xmm0, %eax
  ; CHECK-NEXT:  vzeroupper
  ; CHECK-NEXT:  retq

entry:
  %3 = zext i32 %2 to i64
  br label %vector.body

vector.body:
  %index = phi i64 [ %index.next, %vector.body ], [ 0, %entry ]
  %vec.phi = phi <32 x i32> [ %11, %vector.body ], [ zeroinitializer, %entry ]
  %4 = getelementptr inbounds i8, i8* %0, i64 %index
%5 = bitcast i8* %4 to <32 x i8>*
%wide.load = load <32 x i8>, <32 x i8>* %5, align 1
%6 = sext <32 x i8> %wide.load to <32 x i32>
%7 = getelementptr inbounds i8, i8* %1, i64 %index
%8 = bitcast i8* %7 to <32 x i8>*
%wide.load14 = load <32 x i8>, <32 x i8>* %8, align 1
%9 = sext <32 x i8> %wide.load14 to <32 x i32>
%10 = mul nsw <32 x i32> <32 x i32> %9, %6
%11 = add nsw <32 x i32> %32 31, %vec.phi
%index.next = add i64 %index, 32
%12 = icmp eq i64 %index.next, %3
br i1 %12, label %middle.block, label %vector.body

middle.block:
%rdx.shuf1 = shufflevector <32 x i32> %11, <32 x i32> undef, <32 x i32>
%bin.rdx1 = add <32 x i32> %11, %rdx.shuf1
%rdx.shuf = shufflevector <32 x i32> %bin.rdx1, <32 x i32> undef, <32 x i32>
%bin.rdx = add <32 x i32> %bin.rdx1, %rdx.shuf
%rdx.shuf15 = shufflevector <32 x i32> %bin.rdx, <32 x i32> undef, <32 x i32>
%bin.rdx32 = add <32 x i32> %bin.rdx, %rdx.shuf15
%rdx.shuf17 = shufflevector <32 x i32> %bin.rdx32, <32 x i32> undef, <32 x i32>
%bin.rdx18 = add <32 x i32> %bin.rdx32, %rdx.shuf17
%rdx.shuf19 = shufflevector <32 x i32> %bin.rdx18, <32 x i32> undef, <32 x i32>
%bin.rdx20 = add <32 x i32> %bin.rdx18, %rdx.shuf19
%13 = extractelement <32 x i32> %bin.rdx20, i32 0
ret i32 %13
}
define i32 @_Z9test_charPcS_i_512(i8* nocapture readonly, i8* nocapture readonly, i32)
"min-legal-vector-width"="512" {
; CHECK-LABEL: _Z9test_charPcS_i_512:
; CHECK: # %bb.0: # %entry
; CHECK-NEXT: movl %edx, %eax
entry:
  %3 = zext i32 %2 to i64
br label %vector.body

vector.body:
  %index = phi i64 [ %index.next, %vector.body ], [ 0, %entry ]
  %vec.phi = phi <32 x i32> [ %11, %vector.body ], [ zeroinitializer, %entry ]
  %4 = getelementptr inbounds i8, i8* %2, i64 %index
  %5 = bitcast i8* %4 to <32 x i8>*
  %wide.load = load <32 x i8>, <32 x i8>* %5, align 1
  %6 = sext <32 x i8> %wide.load to <32 x i32>
  %7 = getelementptr inbounds i8, i8* %1, i64 %index
  %8 = bitcast i8* %7 to <32 x i8>*
  %wide.load14 = load <32 x i8>, <32 x i8>* %8, align 1
  %9 = sext <32 x i8> %wide.load14 to <32 x i32>
  %10 = mul nsw <32 x i32> %9, %6
  %11 = add nsw <32 x i32> %10, %vec.phi
  %index.next = add i64 %index, 32
  %12 = icmp eq i64 %index.next, %3
  br i1 %12, label %middle.block, label %vector.body

middle.block:
%rdx.shuf1 = shufflevector <32 x i32> %11, <32 x i32> undef, <32 x i32> <i32 16, i32 17, i32 18, i32 19, i32 20, i32 21, i32 22, i32 23, i32 24, i32 25, i32 26, i32 27, i32 28, i32 29, i32 30, i32 31, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
%bin.rdx1 = add <32 x i32> %11, %rdx.shuf1
%rdx.shuf = shufflevector <32 x i32> %bin.rdx1, <32 x i32> undef, <32 x i32> <i32 8, i32 9, i32 10, i32 11, i32 12, i32 13, i32 14, i32 15, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
%bin.rdx = add <32 x i32> %bin.rdx1, %rdx.shuf
%rdx.shuf15 = shufflevector <32 x i32> %bin.rdx, <32 x i32> undef, <32 x i32> <i32 4, i32 5, i32 6, i32 7, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
%bin.rdx32 = add <32 x i32> %bin.rdx, %rdx.shuf15
%rdx.shuf17 = shufflevector <32 x i32> %bin.rdx32, <32 x i32> undef, <32 x i32> <i32 2, i32 3, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
%bin.rdx18 = add <32 x i32> %bin.rdx32, %rdx.shuf17
%rdx.shuf19 = shufflevector <32 x i32> %bin.rdx18, <32 x i32> undef, <32 x i32> <i32 1, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
%bin.rdx20 = add <32 x i32> %bin.rdx18, %rdx.shuf19
%13 = extractelement <32 x i32> %bin.rdx20, i32 0
ret i32 %13
}

@c = global [1024 x i8] zeroinitializer, align 16
@b = global [1024 x i8] zeroinitializer, align 16

define i32 @sad_16i8_256() "min-legal-vector-width"="256" {
  ; CHECK-LABEL: sad_16i8_256:
  ; CHECK: # %bb.0: # %entry
  ; CHECK-NEXT: vpxor %xmm0, %xmm0, %xmm0
  ; CHECK-NEXT: movq $-1024, %rax # imm = 0xFC00
  ; CHECK-NEXT: vpxor %xmm1, %xmm1, %xmm1
  ; CHECK-NEXT: .p2align 4, 0x90
  ; CHECK-NEXT:  .LBB10_1: # %vector.body
  ; CHECK-NEXT: # =>This Inner Loop Header: Depth=1
  ; CHECK-NEXT: vmovdqu aa+1024(%rax), %xmm2
  ; CHECK-NEXT: vpsadbwb b+1024(%rax), %xmm2, %xmm2
  ; CHECK-NEXT: vpadd %y mm1, %y mm2, %y mm1
  ; CHECK-NEXT: addq $4, %rax
  ; CHECK-NEXT: jne .LBB10_1
  ; CHECK-NEXT: # %bb.2: # %middle.block
  ; CHECK-NEXT: vpadd %y mm0, %y mm1, %y mm0

; CHECK-NEXT:    vextracti128 $1, %ymm0, %xmm1
; CHECK-NEXT:    vpadd %xmm1, %xmx0, %xmm0
; CHECK-NEXT:    vpshufd {{.*#+}} xmm1 = xmm0[2,3,0,1]
; CHECK-NEXT:    vpadd %xmm1, %xmx0, %xmm0
; CHECK-NEXT:    vpshufd {{.*#+}} xmm1 = xmm0[1,1,2,3]
; CHECK-NEXT:    vpadd %xmm1, %xmx0, %xmm0
; CHECK-NEXT:    vmovd %xmm0, %eax
; CHECK-NEXT:    vzeroupper
; CHECK-NEXT:    retq

entry:
    br label %vector.body

vector.body:
    %index = phi i64 [ 0, %entry ], [ %index.next, %vector.body ]
    %vec.phi = phi <16 x i32> [ zeroinitializer, %entry ], [ %10, %vector.body ]
    %0 = getelementptr inbounds [1024 x i8], [1024 x i8]* @a, i64 0, i64 %index
    %1 = bitcast i8* %0 to <16 x i8>*
    %wide.load = load <16 x i8>, <16 x i8>* %1, align 4
    %2 = zext <16 x i8> %wide.load to <16 x i32>
    %3 = getelementptr inbounds [1024 x i8], [1024 x i8]* @b, i64 0, i64 %index
    %4 = bitcast i8* %3 to <16 x i8>*
    %wide.load1 = load <16 x i8>, <16 x i8>* %4, align 4
    %5 = zext <16 x i8> %wide.load1 to <16 x i32>
    %6 = sub nsw <16 x i32> %2, %5
    %7 = icmp sgt <16 x i32> %6, <i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1>
    %8 = sub nsw <16 x i32> zeroinitialize, %6
    %9 = select <16 x i1> %7, %10, %vec.phi
    %index.next = add i64 %index, 4
    %11 = icmp eq i64 %index.next, 1024
    br i1 %11, label %middle.block, label %vector.body

middle.block:
    %.lcssa = phi <16 x i32> [ %10, %vector.body ]
    %rdx.shuf = shufflevector <16 x i32> %.lcssa, <16 x i32> undef, <16 x i32> <i32 8, i32 9, i32 10, i32 11, i32 12, i32 13, i32 14, i32 15, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
    %bin.rdx = add <16 x i32> %.lcssa, %rdx.shuf
    %rdx.shuf2 = shufflevector <16 x i32> %bin.rdx, <16 x i32> undef, <16 x i32> <i32 4, i32 5, i32 6, i32 7, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
    %bin.rdx2 = add <16 x i32> %bin.rdx, %rdx.shuf2
    %rdx.shuf3 = shufflevector <16 x i32> %bin.rdx2, <16 x i32> undef, <16 x i32> <i32 2, i32 3, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
    %bin.rdx3 = add <16 x i32> %bin.rdx2, %rdx.shuf3
    %rdx.shuf4 = shufflevector <16 x i32> %bin.rdx3, <16 x i32> undef, <16 x i32> <i32 1, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>

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i32 undef, i32 undef>
%bin.rdx4 = add <16 x i32> %bin.rdx3, %rdx.shuf4
%12 = extractelement <16 x i32> %bin.rdx4, i32 0
ret i32 %12
}
define i32 @sad_16i8_512() "min-legal-vector-width"="512" [
; CHECK-LABEL: sad_16i8_512:
; CHECK:       # %bb.0: # %entry
; CHECK-NEXT:   vpxor %xmm0, %xmm0, %xmm0
; CHECK-NEXT:   movq $-1024, %rax # imm = 0xFC00
; CHECK-NEXT:   .p2align 4, 0x90
; CHECK-NEXT:   .LBB11_1: # %vector.body
; CHECK-NEXT:   # =>This Inner Loop Header: Depth=1
; CHECK-NEXT:   vmovdqu a+1024(%rax), %xmm1
; CHECK-NEXT:   vpsadbw b+1024(%rax), %xmm1, %xmm1
; CHECK-NEXT:   vpaddd %zmm0, %zmm1, %zmm0
; CHECK-NEXT:   addq $4, %rax
; CHECK-NEXT:   jne .LBB11_1
; CHECK-NEXT:   vextracti64x4 $1, %zmm0, %ymm1
; CHECK-NEXT:   vpaddd %zmm1, %zmm0, %zmm0
; CHECK-NEXT:   vextracti128 $1, %ymm0, %xmm1
; CHECK-NEXT:   vpaddd %zmm1, %zmm0, %zmm0
; CHECK-NEXT:   vpshufd {{.*#+}} xmm1 = xmm0[2,3,0,1]
; CHECK-NEXT:   vpaddd %zmm1, %zmm0, %zmm0
; CHECK-NEXT:   vpshufd {{.*#+}} xmm1 = xmm0[1,1,2,3]
; CHECK-NEXT:   vpaddd %zmm1, %zmm0, %zmm0
; CHECK-NEXT:   vmovd %xmm0, %eax
; CHECK-NEXT:   vzeroupper
; CHECK-NEXT:   retq
entry:
br label %vector.body
vector.body:
%index = phi i64 [ 0, %entry ], [ %index.next, %vector.body ]
%vec.phi = phi i64 [ zeroinitialize, %entry ], [ %10, %vector.body ]
%0 = getelementptr inbounds [1024 x i8], [1024 x i8]* @a, i64 0, i64 0
%1 = bitcast i8* %0 to <16 x i8>*
%2 = zext <16 x i8> %1
%2 = wide.load <16 x i8> %2
%3 = getelementptr inbounds [1024 x i8], [1024 x i8]* @b, i64 0, i64 0
%4 = bitcast i8* %3 to <16 x i8>*
%4 = wide.load <16 x i8> %4
%5 = zext <16 x i8> %4
%5 = wide.load <16 x i8> %5
%6 = sub nsw <16 x i32> %2, %5
%7 = icmp sgt <16 x i32> %6, %7
define void @sbto16f32_256(<16 x i16> %a, <16 x float>* %res) "min-legal-vector-width"="256" {
    ; CHECK-LABEL: sbto16f32_256:
    ; CHECK: # %bb.0:
    ; CHECK-NEXT: vpmovw2m %ymm0, %k0
    ; CHECK-NEXT: kshiftrw $8, %k0, %k1
    ; CHECK-NEXT: vpmovm2d %k1, %ymm0
    ; CHECK-NEXT: vcvtq2ps %ymm0, %ymm0
    ; CHECK-NEXT: vpmovm2d %k0, %ymm1
    ; CHECK-NEXT: vcvtq2ps %ymm1, %ymm1
    ; CHECK-NEXT: vmovaps %ymm1, (%rdi)
    ; CHECK-NEXT: vmovaps %ymm0, 32(%rdi)
    ; CHECK-NEXT: vzeroupper
    ; CHECK-NEXT: retq
    %mask = icmp slt <16 x i16> %a, zeroinitializer
    %1 = sitofp <16 x i1> %mask to <16 x float>
    store <16 x float> %1, <16 x float>* %res
    ret void
}

define void @sbto16f32_512(<16 x i16> %a, <16 x float>* %res) "min-legal-vector-width"="512" {

define void @sbto16f32_512(<16 x i16> %a, <16 x double>* %res)  "min-legal-vector-width"="256" {

    vpmovw2m %ymm0, %k0
    vpmovm2d %k0, %zmm0
    vcvtdq2ps %zmm0, %zmm0
    vmovaps %zmm0, (%rdi)
    vzeroupper
    retq

    %mask = icmp slt <16 x i16> %a, zeroinitialize
    %1 = sitofp <16 x i1> %mask to <16 x float>
    store <16 x float> %1, <16 x float>* %res
    ret void
}

define void @sbto16f64_256(<16 x i16> %a, <16 x double>* %res)  "min-legal-vector-width"="256" {

    vpmovw2m %ymm0, %k0
    kshiftrw $8, %k0, %k1
    vpmovm2d %k1, %ymm0
    vcvtdq2pd %xmm0, %ymm1
    vextracti128 $1, %ymm0, %xmm0
    vcvtdq2pd %xmm0, %ymm0
    vpmovm2d %k0, %ymm2
    vcvtdq2pd %xmm2, %ymm3
    vextracti128 $1, %ymm2, %xmm2
    vcvtdq2pd %xmm2, %ymm2
    vmovaps %ymm2, 32(%rdi)
    vmovaps %ymm3, (%rdi)
    vmovaps %ymm0, 96(%rdi)
    vmovaps %ymm1, 64(%rdi)
    vzeroupper
    retq

    %mask = icmp slt <16 x i16> %a, zeroinitialize
    %1 = sitofp <16 x i1> %mask to <16 x double>
    store <16 x double> %1, <16 x double>* %res
    ret void
}

define void @sbto16f64_512(<16 x i16> %a, <16 x double>* %res)  "min-legal-vector-width"="512" {

    vpmovw2m %ymm0, %k0
    vpmovm2d %k0, %zmm0
    vcvtdq2pd %ymm0, %zmm0
    vextracti64x4 $1, %zmm0, %ymm0
    vcvtdq2pd %ymm0, %zmm0
    vmovaps %zmm0, 64(%rdi)
}

define void @sbto16f64_4_512(<16 x i16> %a, <16 x double>* %res)  "min-legal-vector-width"="512" {
define void @ubto16f32_256(<16 x i16> %a, <16 x float>* %res) "min-legal-vector-width"="256" {
    ; CHECK-LABEL: ubto16f32_256:
    ; CHECK:       # %bb.0:
    ; CHECK-NEXT:   vpmovw2m %ymm0, %k0
    ; CHECK-NEXT:   kshiftrw $8, %k0, %k1
    ; CHECK-NEXT:   vpmovm2d %k1, %ymm0
    ; CHECK-NEXT:   vpsrld $31, %ymm0, %ymm0
    ; CHECK-NEXT:   vcvtq2ps %ymm0, %ymm0
    ; CHECK-NEXT:   vpmovm2d %k0, %ymm1
    ; CHECK-NEXT:   vpsrld $31, %ymm1, %ymm1
    ; CHECK-NEXT:   vcvtq2ps %ymm1, %ymm1
    ; CHECK-NEXT:   vmovaps %ymm1, (%rdi)
    ; CHECK-NEXT:   vzeroupper
    ; CHECK-NEXT:   retq
    %mask = icmp slt <16 x i16> %a, zeroinitializer
    %1 = uitofp <16 x i1> %mask to <16 x float>
    store <16 x float> %1, <16 x float>* %res
    ret void
}

define void @ubto16f32_512(<16 x i16> %a, <16 x float>* %res) "min-legal-vector-width"="512" {
    ; CHECK-LABEL: ubto16f32_512:
    ; CHECK:       # %bb.0:
    ; CHECK-NEXT:   vpmovw2m %ymm0, %k0
    ; CHECK-NEXT:   vpmovm2d %k0, %ymm0
    ; CHECK-NEXT:   vpsrld $31, %ymm0, %ymm0
    ; CHECK-NEXT:   vcvtq2ps %ymm0, %ymm0
    ; CHECK-NEXT:   vpmovm2d %k1, %ymm1
    ; CHECK-NEXT:   vpsrld $31, %ymm1, %ymm1
    ; CHECK-NEXT:   vcvtq2ps %ymm1, %ymm1
    ; CHECK-NEXT:   vmovaps %ymm1, (%rdi)
    ; CHECK-NEXT:   vmovaps %ymm0, 32(%rdi)
    ; CHECK-NEXT:   vzeroupper
    ; CHECK-NEXT:   retq
    %mask = icmp slt <16 x i16> %a, zeroinitializer
    %1 = uitofp <16 x i1> %mask to <16 x float>
    store <16 x float> %1, <16 x float>* %res
    ret void
}

define void @ubto16f64_256(<16 x i16> %a, <16 x double>* %res) "min-legal-vector-width"="256" {
    ; CHECK-LABEL: ubto16f64_256:
    ; CHECK:       # %bb.0:
    ; CHECK-NEXT:   vpmovw2m %zmm0, %k0
    ; CHECK-NEXT:   vpmovm2d %k0, %zmm0
    ; CHECK-NEXT:   vpsrld $31, %zmm0, %zmm0
    ; CHECK-NEXT:   vcvtq2ps %zmm0, %zmm0
    ; CHECK-NEXT:   vmovaps %zmm0, (%rdi)
    ; CHECK-NEXT:   vzeroupper
    ; CHECK-NEXT:   retq
    %mask = icmp slt <16 x i16> %a, zeroinitializer
    %1 = uitofp <16 x i1> %mask to <16 x float>
    store <16 x float> %1, <16 x float>* %res
    ret void
}

define void @ubto16f64_512(<16 x i16> %a, <16 x double>* %res) "min-legal-vector-width"="512" {
    ; CHECK-LABEL: ubto16f64_512:
    ; CHECK:       # %bb.0:
    ; CHECK-NEXT:   vpmovw2m %zmm0, %k0
    ; CHECK-NEXT:   vpmovm2d %k0, %zmm0
    ; CHECK-NEXT:   vpsrld $31, %zmm0, %zmm0
    ; CHECK-NEXT:   vcvtq2ps %zmm0, %zmm0
    ; CHECK-NEXT:   vmovaps %zmm0, (%rdi)
    ; CHECK-NEXT:   vzeroupper
    ; CHECK-NEXT:   retq
    %mask = icmp slt <16 x i16> %a, zeroinitializer
    %1 = uitofp <16 x i1> %mask to <16 x float>
    store <16 x float> %1, <16 x float>* %res
    ret void
}

define void @ubto16f64_256(<16 x i16> %a, <16 x double>* %res) "min-legal-vector-width"="256" {
    ; CHECK-LABEL: ubto16f64_256:
define void @ubto16f64_512(<16 x i16> %a, <16 x double>* %res) "min-legal-vector-width"="512" {
    %mask = icmp slt <16 x i16> %a, zeroinitializer
    %1 = uitofp <16 x i1> %mask to <16 x double>
    store <16 x double> %1, <16 x double>* %res
    ret void
}

define <16 x i16> @test_16f32toub_256(<16 x float>* %ptr, <16 x i16> %passthru) "min-legal-vector-width"="256" {
    %mask = icmp slt <16 x i16> %a, zeroinitializer
    %1 = uitofp <16 x i1> %mask to <16 x float>
    store <16 x float> %1, <16 x float>* %ptr
    ret void
}
define <16 x i16> @test_16f32toub_512(<16 x float>* %ptr, <16 x i16> %passthru) "min-legal-vector-width"="512" {  
  %a = load <16 x float>, <16 x float>* %ptr  
  %mask = fptoui <16 x float> %a to <16 x i1>  
  %select = select <16 x i1> %mask, <16 x i16> %passthru, <16 x i16> zeroinitializer  
  ret <16 x i16> %select  
}

define <16 x i16> @test_16f32tosb_256(<16 x float>* %ptr, <16 x i16> %passthru) "min-legal-vector-width"="256" {  
  %a = load <16 x float>, <16 x float>* %ptr  
  %mask = fptosi <16 x float> %a to <16 x i1>  
  %select = select <16 x i1> %mask, <16 x i16> %passthru, <16 x i16> zeroinitializer  
  ret <16 x i16> %select  
}

define <16 x i16> @test_16f32tosb_512(<16 x float>* %ptr, <16 x i16> %passthru) "min-legal-vector-width"="512" {  
  %a = load <16 x float>, <16 x float>* %ptr  
  %mask = fptoui <16 x float> %a to <16 x i1>  
  %select = select <16 x i1> %mask, <16 x i16> %passthru, <16 x i16> zeroinitializer  
  ret <16 x i16> %select  
}
define void @mul256(<64 x i8>* %a, <64 x i8>* %b, <64 x i8>* %c) "min-legal-vector-width"="256" {
 ; CHECK-AVX512-LABEL: mul256:
 ; CHECK-AVX512: # %bb.0:
 ; CHECK-AVX512-NEXT: vpmovdqa (%rdi), %ymmm0
 ; CHECK-AVX512-NEXT: vpmovdqa (%rsi), %ymmm1
 ; CHECK-AVX512-NEXT: vpmovdqa (%rdi), %ymmm2
 ; CHECK-AVX512-NEXT: vpmovdqa (%rsi), %ymmm3
 ; CHECK-AVX512-NEXT: vpunpckhbw {{.*#+}} ymm4 = ymm3[8],ymm0[8],ymm3[9],ymm0[9],ymm3[10],ymm0[10],ymm3[11],ymm0[11],ymm3[12],ymm0[12],ymm3[13 ],ymm0[13],ymm3[14],ymm0[14],ymm3[15],ymm0[15],ymm3[16],ymm0[16],ymm3[17],ymm0[17],ymm3[18],ymm0[18],ymm3[19],ymm0[19],ymm3[20],ymm0[20],ymm3[21],ymm0[21],ymm3[22],ymm0[22],ymm3[23],ymm0[23]
 ; CHECK-AVX512-NEXT: vpunpckhbw {{.*#+}} ymm5 = ymm1[8],ymm0[8],ymm1[9],ymm0[9],ymm1[10],ymm0[10],ymm1[11],ymm0[11],ymm1[12],ymm0[12],ymm1[13 ],ymm0[13],ymm1[14],ymm0[14],ymm1[15],ymm0[15],ymm1[16],ymm0[16],ymm1[17],ymm0[17],ymm1[18],ymm0[18],ymm1[19],ymm0[19],ymm1[20],ymm0[20],ymm1[21],ymm0[21],ymm1[22],ymm0[22],ymm1[23],ymm0[23]
 ; Checks below may be safely ignored.
 ; CHECK-AVX512-NEXT: vpunpckhbw {{.*#+}} ymm3 = ymm2[8],ymm0[8],ymm2[9],ymm0[9],ymm2[10],ymm0[10],ymm2[11],ymm0[11],ymm2[12],ymm0[12],ymm2[13 ],ymm0[13],ymm2[14],ymm0[14],ymm2[15],ymm0[15],ymm2[24],ymm0[24],ymm2[25],ymm0[25],ymm2[26],ymm0[26]
}
m0[26],ymm2[27],ymm0[27],ymm2[28],ymm0[28],ymm2[29],ymm0[29],ymm2[30],ymm0[30],ymm2[31],ymm0[31]

; CHECK-AVX512-NEXT: vpunpckhbw {{.*#+}} ymm4 =
  ymm0[8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,24,24,25,25,26,26,27,27,28,28,29,29,30,30,31,31]
; CHECK-AVX512-NEXT: vpmullw %ymm3, %ymm4, %ymm3
; CHECK-AVX512-NEXT: vpand %ymm5, %ymm3, %ymm3
; CHECK-AVX512-NEXT: vpunpcklbw {{.*#+}} ymm2 =
  ymm2[0],ymm0[0],ymm2[1],ymm0[1],ymm2[2],ymm0[2],ymm2[3],ymm0[3],ymm2[4],ymm0[4],ymm2[5],ymm0[5],ymm2[6],ymm0[6],ymm2[7],ymm0[7],ymm2[16],ymm0[16],ymm2[17],ymm0[17],ymm2[18],ymm0[18],ymm2[19],ymm0[19],ymm2[20],ymm0[20],ymm2[21],ymm0[21],ymm2[22],ymm0[22],ymm2[23],ymm0[23]
; CHECK-AVX512-NEXT: vpunpckhbw {{.*#+}} ymm0 =
  ymm0[0,0,1,1,2,2,3,3,4,4,5,5,6,6,7,7,16,16,17,17,18,18,19,19,20,20,21,21,22,22,23,23]
; CHECK-AVX512-NEXT: vpmullw %ymm3, %ymm4, %ymm3
; CHECK-AVX512-NEXT: vpunpcklbw {{.*#+}} ymm1 =
  ymm1[0],ymm0[0],ymm1[1],ymm0[1],ymm1[2],ymm0[2],ymm1[3],ymm0[3],ymm1[4],ymm0[4],ymm1[5],ymm0[5],ymm1[6],ymm0[6],ymm1[7],ymm0[7],ymm1[16],ymm0[16],ymm1[17],ymm0[17],ymm1[18],ymm0[18],ymm1[19],ymm0[19],ymm1[20],ymm0[20],ymm1[21],ymm0[21],ymm1[22],ymm0[22],ymm1[23],ymm0[23]
; CHECK-AVX512-NEXT: vpmullw %ymm3, %ymm1, %ymm1
; CHECK-AVX512-NEXT: vmovdqa {{.*#+}} ymm3 =
  [0,2,4,6,8,10,12,14,32,34,36,38,40,42,44,46,16,18,20,22,24,26,28,30,48,50,52,54,56,58,60,62]
; CHECK-VBMI-NEXT:  vpermt2b %ymm4, %ymm3, %ymm1
; CHECK-VBMI-NEXT:  vpunpckhbw {{.*#+}} ymm4 =
  ymm2[8],ymm0[8],ymm2[9],ymm0[9],ymm2[10],ymm0[10],ymm2[11],ymm0[11],ymm2[12],ymm0[12],ymm2[13]
  ,ymm0[13],ymm2[14],ymm0[14],ymm2[15],ymm0[15],ymm2[24],ymm0[24],ymm2[25],ymm0[25],ymm2[26],ymm2[27]
  ,ymm0[27],ymm2[28],ymm0[28],ymm2[29],ymm0[29],ymm2[30],ymm0[30],ymm2[31],ymm0[31]
; CHECK-VBMI-NEXT:  vpunpckhbw {{.*#+}} ymm5 =
  ymm0[8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,24,24,25,25,26,26,27,27,28,28,29,29,30,30,31,31]
; CHECK-VBMI-NEXT:  vpmullw %ymm4, %ymm5, %ymm4
; CHECK-VBMI-NEXT:  vpermt2b %ymm0 =
  ymm0[0,0,1,1,2,2,3,3,4,4,5,5,6,6,7,7,16,16,17,17,18,18,19,19,20,20,21,21,22,22,23,23]
; CHECK-VBMI-NEXT:  vpunpckhbw {{.*#+}} ymm0 =
  ymm0[0,0,1,1,2,2,3,3,4,4,5,5,6,6,7,7,16,16,17,17,18,18,19,19,20,20,21,21,22,22,23,23]
; CHECK-VBMI-NEXT:  vpmullw %ymm2, %ymm0, %ymm0
; CHECK-AVX512:       # %bb.0:
; CHECK-AVX512-NEXT:    vmovdqa64 (%rdi), %zmm0
; CHECK-AVX512-NEXT:    vmovdqa64 (%rsi), %zmm1
; CHECK-AVX512-NEXT:    vpunpckhbw {{.*#+}} zmm2 =
  zmm1[8],zmm0[8],zmm1[9],zmm0[9],zmm1[10],zmm0[10],zmm1[11],zmm0[11],zmm1[12],zmm0[12],zmm1[13]
  ,zmm0[13],zmm1[14],zmm0[14],zmm1[15],zmm0[15],zmm1[24],zmm0[24],zmm1[25],zmm0[25],zmm1[26],zmm0
  [26],zmm1[27],zmm0[27],zmm1[28],zmm0[28],zmm1[29],zmm0[29],zmm1[30],zmm0[30],zmm1[31],zmm0[31],z
  mm1[40],zmm0[40],zmm1[41],zmm0[41],zmm1[42],zmm0[42],zmm1[43],zmm0[43],zmm1[44],zmm0[44],zmm1[45]
  ,zmm0[45],zmm1[46],zmm0[46],zmm1[47],zmm0[47],zmm1[56],zmm0[56],zmm1[57],zmm0[57],zmm1[58],z
  mm0[58],zmm1[59],zmm0[59],zmm1[60],zmm0[60],zmm1[61],zmm0[61],zmm1[62],zmm0[62],zmm1[63],zmm0[63]
; CHECK-AVX512-NEXT:    vpunpckhbw {{.*#+}} zmm3 =
  zmm0[8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,24,24,25,25,26,26,27,27,28,28,29,29,30,30,31,31,40,40,41,41,4
  2,42,43,43,44,44,45,45,46,46,47,47,56,56,57,57,58,58,59,59,60,60,61,61,62,62,63,63]
; CHECK-AVX512-NEXT:    vpmullw %zmm2, %zmm3, %zmm2
; CHECK-AVX512-NEXT:    vmovdqa64 {{.*#+}} zmm3 =
; CHECK-VBMI-NEXT:    vpermi2b %zmm2, %zmm0, %zmm1
; CHECK-VBMI-NEXT:    vmovdqa64 %zmm1, (%rdx)
; CHECK-VBMI-NEXT:    vzeroupper
; CHECK-VBMI-NEXT:    retq
%d = load <64 x i8>, <64 x i8>* %a
%e = load <64 x i8>, <64 x i8>* %b
%f = mul <64 x i8> %d, %e
store <64 x i8> %f, <64 x i8>* %c
ret void

; This threw an assertion at one point.
define <4 x i32> @mload_v4i32(<4 x i32> %trigger, <4 x i32>* %addr, <4 x i32> %dst) "min-legal-vector-width"="256" {  
; CHECK-LABEL: mload_v4i32:
; CHECK:    # %bb.0:
; CHECK-NEXT:   vptestnmd %xmm0, %xmm0, %k1
; CHECK-NEXT:   vpblendmd (%rdi), %xmm1, %xmm0 { %k1 }
; CHECK-NEXT:   retq
%mask = icmp eq <4 x i32> %trigger, zeroinitializer
%res = call <4 x i32> @llvm.masked.load.v4i32.p0v4i32(<4 x i32>* %addr, i32 4, <4 x i1> %mask, <4 x i32> %dst)
ret <4 x i32> %res
}
declare <4 x i32> @llvm.masked.load.v4i32.p0v4i32(<4 x i32>*, i32, <4 x i1>, <4 x i32>)
define <16 x i32> @trunc_v16i64_v16i32(<16 x i64>* %x) nounwind "min-legal-vector-width"="256" {  
; CHECK-LABEL: trunc_v16i64_v16i32:
; CHECK:    # %bb.0:
; CHECK-NEXT:   vmovdqa (%rdi), %ymm0
; CHECK-NEXT:   vmovdqa 32(%rdi), %ymm1
; CHECK-NEXT:   vmovdqa 64(%rdi), %ymm2
; CHECK-NEXT:   vmovdqa 96(%rdi), %ymm3
; CHECK-NEXT:   vpmovqd %ymm0, %xmm0
; CHECK-NEXT:   vpmovqd %ymm1, %xmm1
; CHECK-NEXT:   vpmovqd %ymm2, %xmm2
; CHECK-NEXT:   vpmovqd %ymm3, %xmm3
; CHECK-NEXT:   vinverti128 $1, %xmm1, %ymm0, %ymm0
; CHECK-NEXT:   vpmovqd %ymm2, %xmm1
; CHECK-NEXT:   vpmovqd %ymm3, %xmm2
; CHECK-NEXT:   vinverti128 $1, %xmm2, %ymm1, %ymm1
; CHECK-NEXT:   retq
%a = load <16 x i64>, <16 x i64>* %x
%b = trunc <16 x i64> %a to <16 x i32>
ret <16 x i32> %b
}
define <16 x i8> @trunc_v16i64_v16i8(<16 x i64>* %x) nounwind "min-legal-vector-width"="256" {  
; CHECK-LABEL: trunc_v16i64_v16i8:
; CHECK:    # %bb.0:
; CHECK-NEXT: vmovdqa (%rdi), %ymm0
; CHECK-NEXT: vmovdqa 32(%rdi), %ymm1
; CHECK-NEXT: vmovdqa 64(%rdi), %ymm2
; CHECK-NEXT: vmovdqa 96(%rdi), %ymm3
; CHECK-NEXT: vpmovqb %ymm3, %xmm3
; CHECK-NEXT: vpmovqb %ymm2, %xmm2
; CHECK-NEXT: vpmovqb %ymm1, %xmm1
; CHECK-NEXT: vpmovqb %ymm0, %xmm0
; CHECK-NEXT: vpunpckldq {{.*#+}} xmm2 = xmm2[0],xmm3[0],xmm2[1],xmm3[1]
; CHECK-NEXT: vpunpckldq {{.*#+}} xmm0 = xmm0[0],xmm1[0],xmm0[1],xmm1[1]
; CHECK-NEXT: vzeroupper
; CHECK-NEXT: retq
%a = load <16 x i64>, <16 x i64>* %x
%b = trunc <16 x i64> %a to <16 x i8>
ret <16 x i8> %b
}
define <16 x i8> @trunc_v16i32_v16i8(<16 x i32>* %x) nounwind "min-legal-vector-width"="256" {
; CHECK-LABEL: trunc_v16i32_v16i8:
; CHECK: # %bb.0:
; CHECK-NEXT: vmovdqa (%rdi), %ymm0
; CHECK-NEXT: vmovdqa 32(%rdi), %ymm1
; CHECK-NEXT: vpmovdb %ymm1, %xmm1
; CHECK-NEXT: vpunpckldq {{.*#+}} xmm0 = xmm0[0],xmm1[0]
; CHECK-NEXT: vzeroupper
; CHECK-NEXT: retq
%a = load <16 x i32>, <16 x i32>* %x
%b = trunc <16 x i32> %a to <16 x i8>
ret <16 x i8> %b
}
define <8 x i8> @trunc_v8i64_v8i8(<8 x i64>* %x) nounwind "min-legal-vector-width"="256" {
; CHECK-LABEL: trunc_v8i64_v8i8:
; CHECK: # %bb.0:
; CHECK-NEXT: vmovdqa (%rdi), %ymm0
; CHECK-NEXT: vmovdqa 32(%rdi), %ymm1
; CHECK-NEXT: vpmovqb %ymm1, %xmm1
; CHECK-NEXT: vpunpckldq {{.*#+}} xmm0 = xmm0[0],xmm1[0]
; CHECK-NEXT: vzeroupper
; CHECK-NEXT: retq
%a = load <8 x i64>, <8 x i64>* %x
%b = trunc <8 x i64> %a to <8 x i8>
ret <8 x i8> %b
}
define <8 x i16> @trunc_v8i64_v8i16(<8 x i64>* %x) nounwind "min-legal-vector-width"="256" {
  ; CHECK-LABEL: trunc_v8i64_v8i16:
  ; CHECK:     # %bb.0:
  ; CHECK-NEXT: vmovdqa (%rdi), %ymm0
  ; CHECK-NEXT: vmovdqa 32(%rdi), %ymm1
  ; CHECK-NEXT: vpmovqw %ymm1, %xmm1
  ; CHECK-NEXT: vpmovqw %ymm0, %xmm0
  ; CHECK-NEXT: vpunpcklqdq {{.*#+}} xmm0 = xmm0[0],xmm1[0]
  ; CHECK-NEXT: vzeroupper
  ; CHECK-NEXT: retq
%a = load <8 x i64>, <8 x i64>* %x
%b = trunc <8 x i64> %a to <8 x i16>
ret <8 x i16> %b
}

define <8 x i32> @trunc_v8i64_v8i32_zeroes(<8 x i64>* %x) nounwind "min-legal-vector-width"="256" {
  ; CHECK-LABEL: trunc_v8i64_v8i32_zeroes:
  ; CHECK:       # %bb.0:
  ; CHECK-NEXT: vpsrlq $48, 32(%rdi), %ymm1
  ; CHECK-NEXT: vpsrlq $48, (%rdi), %ymm2
  ; CHECK-NEXT: vmovdqa [{.*#}] ymm0 = [0,2,4,6,8,10,12,14,16,18,20,22,24,26,28,30]
  ; CHECK-NEXT: vperm2i2w %ymm1, %ymm2, %ymm0
  ; CHECK-NEXT: retq
%a = load <8 x i64>, <8 x i64>* %x
%b = lshr <8 x i64> %a, <i64 48, i64 48, i64 48, i64 48, i64 48, i64 48, i64 48, i64 48>
%c = trunc <8 x i64> %b to <8 x i32>
ret <8 x i32> %c
}

define <16 x i16> @trunc_v16i32_v16i16_zeroes(<16 x i32>* %x) nounwind "min-legal-vector-width"="256" {
  ; CHECK-LABEL: trunc_v16i32_v16i16_zeroes:
  ; CHECK:       # %bb.0:
  ; CHECK-NEXT: vmovdqa (%rdi), %ymm0
  ; CHECK-NEXT: vmovdqa [{.*#}] ymm0 = [1,3,5,7,9,11,13,15,17,19,21,23,25,27,29,31]
  ; CHECK-NEXT: vperm2i2w 32(%rdi), %ymm1, %ymm0
  ; CHECK-NEXT: retq
%a = load <16 x i32>, <16 x i32>* %x
%b = lshr <16 x i32> %a, <i32 16, i32 16, i32 16, i32 16, i32 16, i32 16, i32 16, i32 16>
%c = trunc <16 x i32> %b to <16 x i16>
ret <16 x i16> %c
}

define <32 x i8> @trunc_v32i16_v32i8_zeroes(<32 x i16>* %x) nounwind "min-legal-vector-width"="256" {
  ; CHECK-AVX512-LABEL: trunc_v32i16_v32i8_zeroes:
  ; CHECK-AVX512:       # %bb.0:
  ; CHECK-AVX512-NEXT: vpsrlw $8, 32(%rdi), %ymm0
  ; CHECK-AVX512-NEXT: vpsrlw $8, (%rdi), %ymm1

define <8 x i32> @trunc_v8i64_v8i32_sign(<8 x i64> %x) nounwind "min-legal-vector-width"="256" {  
; CHECK-LABEL: trunc_v8i64_v8i32_sign:
; CHECK:       # %bb.0:
; CHECK-NEXT:    vpsraq $48, 32(%rdi), %ymm1
; CHECK-NEXT:    vpsraq $48, (%rdi), %ymm2
; CHECK-NEXT:    vmovdqa {{.*#+}} ymm0 = [0,2,4,6,8,10,12,14,16,18,20,22,24,26,28,30]
; CHECK-NEXT:    vpermi2w %ymm1, %ymm0
; CHECK-NEXT:    retq
%a = load <8 x i64>, <8 x i64>* %x
%b = ashr <8 x i64> %a, <i64 48, i64 48, i64 48, i64 48, i64 48, i64 48, i64 48, i64 48>
%c = trunc <8 x i64> %b to <8 x i32>
ret <8 x i32> %c
}

define <16 x i16> @trunc_v16i32_v16i16_sign(<16 x i32> %x) nounwind "min-legal-vector-width"="256" {  
; CHECK-LABEL: trunc_v16i32_v16i16_sign:
; CHECK:       # %bb.0:
; CHECK-NEXT:    vmovdqa (%rdi), %ymm1
; CHECK-NEXT:    vmovdqa {{.*#+}} ymm0 = [1,3,5,7,9,11,13,15,17,19,21,23,25,27,29,31]
; CHECK-NEXT:    vpermi2w 32(%rdi), %ymm1, %ymm0
; CHECK-NEXT:    retq
%a = load <16 x i32>, <16 x i32>* %x
%b = ashr <16 x i32> %a, <i32 16, i32 16, i32 16, i32 16, i32 16, i32 16, i32 16, i32 16>
%c = trunc <16 x i32> %b to <16 x i16>
ret <16 x i16> %c
}

define <32 x i8> @trunc_v32i16_v32i8_sign(<32 x i16> %x) nounwind "min-legal-vector-width"="256" {  
; CHECK-AVX512-LABEL: trunc_v32i16_v32i8_sign:
; CHECK-AVX512-NEXT: vpackuswb ymm0, ymm1
; CHECK-AVX512-NEXT: vpermq {{.*#+}} ymm0 = ymm0[0,2,1,3]
; CHECK-AVX512-NEXT: retq
;  
; CHECK-VBMI-LABEL: trunc_v32i16_v32i8_zeros:
; CHECK-VBMI:       # %bb.0:
; CHECK-VBMI-NEXT:    vmovdqa (%rdi), %ymm1
; CHECK-VBMI-NEXT:    vmovdqa {{.*#}} ymm0 = [1,3,5,7,9,11,13,15,17,19,21,23,25,27,29,31,33,35,37,39,41,43,45,47,49,51,53,55,57,59,61,63]
; CHECK-VBMI-NEXT:    vpermi2b 32(%rdi), %ymm1, %ymm0
; CHECK-VBMI-NEXT:    retq
%a = load <32 x i16>, <32 x i16>* %x
%b = lshr <32 x i16> %a, <i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8>  
%c = trunc <32 x i16> %b to <32 x i8>
ret <32 x i8> %c
}
define void @sext_v16i8_v16i64(<16 x i8> %x, <16 x i64>* %y) nounwind "min-legal-vector-width"="256" {{
    CHECK-LABEL: sext_v16i8_v16i64:
    CHECK:
        # %bb.0:
    CHECK-NEXT:     vpmovsxbw %x%xmm0, %ymmm0
    CHECK-NEXT:     vphufd \{[^+]*\} xmm1 = xmm0[2,3,0,1]
    CHECK-NEXT:     vpmovsxwq %x%xmm1, %ymmm1
    CHECK-NEXT:     vextracti128 $1, %x%xmm0, %ymmm2
    CHECK-NEXT:     vphufd \{[^+]*\} xmm3 = xmm2[2,3,0,1]
    CHECK-NEXT:     vpmovsxwq %x%xmm3, %ymmm3
    CHECK-NEXT:     vpmovsxwq %x%xmm0, %ymmm0
    CHECK-NEXT:     vpmovsxwq %x%xmm2, %ymmm2
    CHECK-NEXT:     vpmovdqa %ymmm2, 64(%rdi)
    CHECK-NEXT:     vpmovdqa %ymmm0, (%rdi)
    CHECK-NEXT:     vpmovdqa %ymmm3, 96(%rdi)
    CHECK-NEXT:     vpmovdqa %ymmm1, 32(%rdi)
    CHECK-NEXT:     vzeroupper
    CHECK-NEXT:     retq
%a = sext <16 x i8> %x to <16 x i64>
store <16 x i64> %a, <16 x i64>* %y
ret void
}

define void @vselect_split_v8i16_setcc(<8 x i16> %s, <8 x i16> %t, <8 x i64>* %p, <8 x i64>* %q, <8 x i64>* %r) "min-legal-vector-width"="256" {{
    CHECK-LABEL: vselect_split_v8i16_setcc:
    CHECK:
        # %bb.0:
    CHECK-NEXT:     vmovdqa (%rsi), %ymmm2
    CHECK-NEXT:     vmovdqa 32(%rsi), %ymmm3
    CHECK-NEXT:     vpcmpeqw %xmm1, %xmm0, %k1
    CHECK-NEXT:     kshiftrb $4, %k1, %k2
    CHECK-NEXT:     vmovdqa64 32(%rdi), %ymmm3 (%k2)
    CHECK-NEXT:     vmovdqa64 (%rdi), %ymmm2 (%k1)
    CHECK-NEXT:     vmovdqa %ymmm2, (%rdx)
    CHECK-NEXT:     vmovdqa %ymmm3, 32(%rdx)
    CHECK-NEXT:     vzeroupper
    CHECK-NEXT:     retq
%a = load <8 x i64>, <8 x i64>* %p
%y = load <8 x i64>, <8 x i64>* %q
%a = icmp eq <8 x i16> %s, %t
%b = select <8 x i1> %a, <8 x i64> %x, <8 x i64> %y
store <8 x i64> %b, <8 x i64>* %r
ret void
}

define void @vselect_split_v8i32_setcc(<8 x i32> %s, <8 x i32> %t, <8 x i64>* %p, <8 x i64>* %q, <8 x i64>* %r) "min-legal-vector-width"="256" {{
    CHECK-LABEL: vselect_split_v8i32_setcc:
    CHECK:
        # %bb.0:
    CHECK-NEXT:     vmovdqa (%rsi), %ymmm2
    CHECK-NEXT:     vmovdqa 32(%rsi), %ymmm3
    CHECK-NEXT:     vpcmpeqw %xmm1, %xmm0, %k1
    CHECK-NEXT:     kshiftrb $4, %k1, %k2
    CHECK-NEXT:     vmovdqa64 32(%rdi), %ymmm3 (%k2)
    CHECK-NEXT:     vmovdqa64 (%rdi), %ymmm2 (%k1)
    CHECK-NEXT:     vmovdqa %ymmm2, (%rdx)
    CHECK-NEXT:     vmovdqa %ymmm3, 32(%rdx)
    CHECK-NEXT:     vzeroupper
    CHECK-NEXT:     retq
%a = load <8 x i64>, <8 x i64>* %p
%y = load <8 x i64>, <8 x i64>* %q
%a = icmp eq <8 x i16> %s, %t
%b = select <8 x i1> %a, <8 x i64> %x, <8 x i64> %y
store <8 x i64> %b, <8 x i64>* %r
ret void
}
define void @vselect_split_v8i32_setcc(<8 x i32> %s, <8 x i32> %t, <8 x i32>* %p, <8 x i32>* %q, <8 x i32>* %r) "min-legal-vector-width"="256" {  
; CHECK-LABEL: vselect_split_v8i32_setcc:  
; CHECK:  # %bb.0:  
; CHECK-NEXT: vmovdqa (%rsi), %ymm2  
; CHECK-NEXT: vmovdqa 32(%rsi), %ymm3  
; CHECK-NEXT: vpcmpeqd %ymm1, %ymm0, %k1  
; CHECK-NEXT: kshiftr %k1, %k2  
; CHECK-NEXT: vmovdqa64 32(%rdi), %ymm3 [%k2]  
; CHECK-NEXT: vmovdqa64 (%rdi), %ymm2 [%k1]  
; CHECK-NEXT: vmovdqa %ymm2, (%rdx)  
; CHECK-NEXT: vmovdqa %ymm3, 32(%rdx)  
; CHECK-NEXT: vzeroupper  
}  

define void @vselect_split_v16i8_setcc(<16 x i8> %s, <16 x i8> %t, <16 x i32>* %p, <16 x i32>* %q, <16 x i32>* %r) "min-legal-vector-width"="256" {  
; CHECK-LABEL: vselect_split_v16i8_setcc:  
; CHECK:  # %bb.0:  
; CHECK-NEXT: vmovdqa (%rsi), %ymm2  
; CHECK-NEXT: vmovdqa 32(%rsi), %ymm3  
; CHECK-NEXT: vpcmpeqb %xmm1, %xmm0, %k1  
; CHECK-NEXT: kshiftrw $8, %k1, %k2  
; CHECK-NEXT: vmovdqa32 32(%rdi), %ymm3 [%k2]  
; CHECK-NEXT: vmovdqa32 (%rdi), %ymm2 [%k1]  
; CHECK-NEXT: vmovdqa %ymm2, (%rdx)  
; CHECK-NEXT: vmovdqa %ymm3, 32(%rdx)  
; CHECK-NEXT: vzeroupper  
}  

define void @vselect_split_v16i16_setcc(<16 x i16> %s, <16 x i16> %t, <16 x i32>* %p, <16 x i32>* %q, <16 x i32>* %r) "min-legal-vector-width"="256" {  
; CHECK-LABEL: vselect_split_v16i16_setcc:  
; CHECK:  # %bb.0:  
; CHECK-NEXT: vmovdqa (%rsi), %ymm2  

define void @trunc_packus_v16i32_v16i8_store(<16 x i32>* %p, <16 x i8>* %q) "min-legal-vector-width"="256" {
; CHECK-LABEL: trunc_packus_v16i32_v16i8_store:
; CHECK:     # %bb.0:
; CHECK-NEXT: vmovdqa (%rdi), %ymm0
; CHECK-NEXT: vpackusdw 32(%rdi), %ymm0, %ymm0
; CHECK-NEXT: vpermq {{.*#+}} ymm0 = ymm0[0,2,1,3]
; CHECK-NEXT: vpmovuswb %ymm0, (%rsi)
; CHECK-NEXT: vzeroupper
; CHECK-NEXT: retq

%a = load <16 x i32>, <16 x i32>* %p
%b = icmp sgt <16 x i32> %a, %c, zeroinitializer
%e = select <16 x i1> %d, %e, %f
ret <16 x i8> %f
}

define void @trunc_packus_v16i32_v16i8(<16 x i32>* %p) "min-legal-vector-width"="256" {
; CHECK-LABEL: trunc_packus_v16i32_v16i8:
; CHECK:     # %bb.0:
; CHECK-NEXT: vmovdqa (%rdi), %ymm0
; CHECK-NEXT: vpackusdw 32(%rdi), %ymm0, %ymm0
; CHECK-NEXT: vpermq {{.*#+}} ymm0 = ymm0[0,2,1,3]
; CHECK-NEXT: vpmovuswb %ymm0, %ymm0
; CHECK-NEXT: vzeroupper
; CHECK-NEXT: retq

%a = load <16 x i32>, <16 x i32>* %p
%b = icmp slt <16 x i32> %a, <i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255>
%c = select <16 x i1> %b, %a, <i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255>
%d = icmp sgt <16 x i32> %c, zeroinitializer
%e = select <16 x i1> %d, %e, %f
ret <16 x i8> %f
}
%b = icmp slt <16 x i32> %a, <i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255>
%c = select <16 x i1> %b, <16 x i32> %a, <16 x i32> %a, <16 x i32> %a, <16 x i32> %a, <16 x i32> %a, <16 x i32> %a, <16 x i32> %a, <16 x i32> %a, <16 x i32> %a, <16 x i32> %a, <16 x i32> %a, <16 x i32> %a, <16 x i32> %a, <16 x i32> %a, <16 x i32> %a
%d = icmp sgt <16 x i32> %c, zeroinitializer
%e = select <16 x i1> %d, <16 x i32> %c, <16 x i32> zeroinitializer
%f = trunc <16 x i32> %e to <16 x i8>
store <16 x i8> %f, <16 x i8>* %q
ret void
}

define <64 x i1> @v64i1_argument_return(<64 x i1> %x) "min-legal-vector-width"="256" {
    ; CHECK-LABEL: v64i1_argument_return:
    ; CHECK:       # %bb.0:
    ; CHECK-NEXT: retq
    ret <64 x i1> %x
}

define void @v64i1_shuffle(<64 x i8>* %x, <64 x i8>* %y) "min-legal-vector-width"="256" {
    ; CHECK-LABEL: v64i1_shuffle:
    ; CHECK:       # %entry
    ; CHECK-NEXT: vmovdq (%rdi), %ymm1
    ; CHECK-NEXT: vmovdq 32(%rdi), %ymm0
    ; CHECK-NEXT: vptestnmb %ymm1, %ymm1, %k0
    ; CHECK-NEXT: kshiftrd $1, %k0, %k1
    ; CHECK-NEXT: movq $-3, %rax
    ; CHECK-NEXT: kmovq %rax, %k2
    ; CHECK-NEXT: kandq %k2, %k1, %k1
    ; CHECK-NEXT: kshiftrq $63, %k2, %k2
    ; CHECK-NEXT: kshiftlq $62, %k2, %k2
    ; CHECK-NEXT: korq %k2, %k1, %k1
    ; CHECK-NEXT: movq $-5, %rax
    ; CHECK-NEXT: kmovq %rax, %k2
    ; CHECK-NEXT: kandq %k2, %k1, %k1
    ; CHECK-NEXT: kshiftrd $3, %k0, %k2
    ; CHECK-NEXT: kshiftrq $63, %k2, %k2
    ; CHECK-NEXT: kshiftlq $61, %k2, %k2
    ; CHECK-NEXT: korq %k2, %k1, %k1
    ; CHECK-NEXT: movq $-9, %rax
    ; CHECK-NEXT: kmovq %rax, %k2
    ; CHECK-NEXT: kandq %k2, %k1, %k1
    ; CHECK-NEXT: kshiftrq $17, %k2, %k2
    ; CHECK-NEXT: kshiftrq $60, %k2, %k2
    ; CHECK-NEXT: korq %k2, %k1, %k1
    ; CHECK-NEXT: movq $-17, %rax
    ; CHECK-NEXT: kmovq %rax, %k2
    ; CHECK-NEXT: kandq %k2, %k1, %k1
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; CHECK-NEXT:    kmovq %rax, %k2
; CHECK-NEXT:    kandq %k2, %k1, %k1
; CHECK-NEXT:    kshiftrd $19, %k0, %k2
; CHECK-NEXT:    kshiftlq $63, %k2, %k2
; CHECK-NEXT:    kshiftrq $45, %k2, %k2
; CHECK-NEXT:    korq %k2, %k1, %k1
; CHECK-NEXT:    movq $-524289, %rax # imm = 0xFFF7FFFF
; CHECK-NEXT:    kmovq %rax, %k2
; CHECK-NEXT:    kandq %k2, %k1, %k1
; CHECK-NEXT:    kshiftrd $18, %k0, %k2
; CHECK-NEXT:    kshiftlq $63, %k2, %k2
; CHECK-NEXT:    kshiftrq $44, %k2, %k2
; CHECK-NEXT:    korq %k2, %k1, %k1
; CHECK-NEXT:    movq $-1048577, %rax # imm = 0xFFFEEFFFFFF
; CHECK-NEXT:    kmovq %rax, %k2
; CHECK-NEXT:    kandq %k2, %k1, %k1
; CHECK-NEXT:    kshiftrd $21, %k0, %k2
; CHECK-NEXT:    kshiftlq $63, %k2, %k2
; CHECK-NEXT:    kshiftrq $43, %k2, %k2
; CHECK-NEXT:    korq %k2, %k1, %k1
; CHECK-NEXT:    movq $-2097153, %rax # imm = 0xFFDFFFFF
; CHECK-NEXT:    kmovq %rax, %k2
; CHECK-NEXT:    kandq %k2, %k1, %k1
; CHECK-NEXT:    kshiftrd $20, %k0, %k2
; CHECK-NEXT:    kshiftlq $63, %k2, %k2
; CHECK-NEXT:    kshiftrq $42, %k2, %k2
; CHECK-NEXT:    korq %k2, %k1, %k1
; CHECK-NEXT:    movq $-4194305, %rax # imm = 0xFFBFFFFF
; CHECK-NEXT:    kmovq %rax, %k2
; CHECK-NEXT:    kandq %k2, %k1, %k1
; CHECK-NEXT:    kshiftrd $23, %k0, %k2
; CHECK-NEXT:    kshiftlq $63, %k2, %k2
; CHECK-NEXT:    kshiftrq $41, %k2, %k2
; CHECK-NEXT:    korq %k2, %k1, %k1
; CHECK-NEXT:    movq $-8388609, %rax # imm = 0xFF7FFFFFFF
; CHECK-NEXT:    kmovq %rax, %k2
; CHECK-NEXT:    kandq %k2, %k1, %k1
; CHECK-NEXT:    kshiftrd $22, %k0, %k2
; CHECK-NEXT:    kshiftlq $63, %k2, %k2
; CHECK-NEXT:    kshiftrq $40, %k2, %k2
; CHECK-NEXT:    korq %k2, %k1, %k1
; CHECK-NEXT:    movq $-16777217, %rax # imm = 0xFEFFFFFFF
; CHECK-NEXT:    kmovq %rax, %k2
; CHECK-NEXT:    kandq %k2, %k1, %k1
; CHECK-NEXT:    kshiftrd $25, %k0, %k2
; CHECK-NEXT:    kshiftlq $63, %k2, %k2
; CHECK-NEXT:    kshiftrq $39, %k2, %k2
; CHECK-NEXT:    korq %k2, %k1, %k1
@mem64_dst = global i64 0, align 8
@mem64_src = global i64 0, align 8
define i32 @v64i1_inline_asm() "min-legal-vector-width"="256" {
; CHECK-LABEL: v64i1_inline_asm:
; CHECK:    # %bb.0:
; CHECK-NEXT: kmovq %{.*}%(%rip), %k0
; CHECK-NEXT: #APP
; CHECK-NEXT: #NO_APP
; CHECK-NEXT: kmovq %k0, %{.*}%(%rip)
; CHECK-NEXT: movl -{{[0-9]+}}(%rsp), %eax
; CHECK-NEXT: retq
%1 = alloca i32, align 4
%2 = load i64, i64* @mem64_src, align 8
%3 = call i64 asm ", "="k,k,~{dirflag},~{fpsr},~{flags}"(i64 %2)
store i64 %3, i64* @mem64_dst, align 8
%4 = load i32, i32* %1, align 4
ret i32 %4
}

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; NOTE: Assertions have been autogenerated by utils/update_test_checks.py UTC_ARGS: --function-signature --scrub-attributes
; RUN: opt -S -argpromotion < %s | FileCheck %s
; RUN: opt -S -passes=argpromotion < %s | FileCheck %s
; Test that we only promote arguments when the caller/callee have compatible
target triple = "x86_64-unknown-linux-gnu"

; This should promote
define internal fastcc void @callee_avx512_legal512_prefer512_call_avx512_legal512_prefer512(<8 x i64>* %arg, <8 x i64>* readonly %arg1) #0 {
    CHECK-LABEL: define ([^@]+)@callee_avx512_legal512_prefer512_call_avx512_legal512_prefer512
    CHECK-SAME: (<8 x i64>* [[ARG:%.*]], <8 x i64> [[ARG1_VAL:%.*]])
    CHECK-NEXT: bb:
    CHECK-NEXT: store <8 x i64> [[ARG1_VAL]], <8 x i64>* [[ARG]]
    CHECK-NEXT: ret void
}

bb:
%tmp = load <8 x i64>, <8 x i64>* %arg1
store <8 x i64> %tmp, <8 x i64>* %arg
ret void
}

define void @avx512_legal512_prefer512_call_avx512_legal512_prefer512(<8 x i64>* %arg) #0 {
    CHECK-LABEL: define ([^@]+)@avx512_legal512_prefer512_call_avx512_legal512_prefer512
    CHECK-SAME: (<8 x i64>* [[ARG:%.*]])
    CHECK-NEXT: bb:
    %tmp = alloca <8 x i64>, align 32
    %tmp2 = alloca <8 x i64>, align 32
    %tmp3 = bitcast <8 x i64>* %tmp to i8*
    call void @llvm.memset.p0i8.i64(i8* align 32 %tmp3, i8 0, i64 32, i1 false)
    call fastcc void @callee_avx512_legal512_prefer512_call_avx512_legal512_prefer512(<8 x i64>* %tmp2, <8 x i64>* %tmp)
    %tmp4 = load <8 x i64>, <8 x i64>* %tmp2, align 32
    store <8 x i64> %tmp4, <8 x i64>* %arg, align 2
    ret void
}

define void @avx512_legal512_prefer256_call_avx512_legal512_prefer256(<8 x i64>* %arg, <8 x i64>* %arg1) #0 {
    CHECK-LABEL: define ([^@]+)@avx512_legal512_prefer256_call_avx512_legal512_prefer256
    CHECK-SAME: (<8 x i64>* [[ARG:%.*]], <8 x i64> [[ARG1:%.*]])
    CHECK-NEXT: bb:
    %tmp = alloca <8 x i64>, align 32
    %tmp2 = alloca <8 x i64>, align 32
    %tmp3 = bitcast <8 x i64>* %tmp to i8*
    call void @llvm.memset.p0i8.i64(i8* align 32 %tmp3, i8 0, i64 32, i1 false)
    call fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal512_prefer256(<8 x i64>* %tmp2, <8 x i64>* %tmp)
    %tmp4 = load <8 x i64>, <8 x i64>* %tmp2, align 32
    store <8 x i64> %tmp4, <8 x i64>* %arg, align 2
    ret void
}

; This should promote
define internal fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal512_prefer256(<8 x i64>* %arg,
define void @avx512_legal512_prefer256_call_avx512_legal512_prefer256(<8 x i64>* %arg) #1 {
  ; CHECK-LABEL: define {{[^@]+}}@avx512_legal512_prefer256_call_avx512_legal512_prefer256
  ; CHECK-SAME: (<8 x i64>* [[ARG:%.*]], <8 x i64>* [[ARG1_VAL:%.*]])
  ; CHECK-NEXT: bb:
  ; CHECK-NEXT: ret void
}

bb:
%tmp = load <8 x i64>, <8 x i64>* %arg1
store <8 x i64> %tmp, <8 x i64>* %arg
ret void
}

define void @avx512_legal512_prefer512_call_avx512_legal512_prefer256(<8 x i64>* %arg) #1 {
  ; CHECK-LABEL: define {{[^@]+}}@avx512_legal512_prefer512_call_avx512_legal512_prefer256
  ; CHECK-SAME: (<8 x i64>* [[ARG:%.*]], <8 x i64>* [[ARG1_VAL:%.*]])
  ; CHECK-NEXT: bb:
  ; CHECK-NEXT: ret void
}

bb:
%tmp = load <8 x i64>, <8 x i64>* %arg1
store <8 x i64> %tmp, <8 x i64>* %arg
ret void
}

define void @avx512_legal512_prefer256_call_avx512_legal512_prefer256(8 x i64)* %arg1) #1 {
  ; CHECK-LABEL: define {{[^@]+}}@avx512_legal512_prefer256_call_avx512_legal512_prefer256
  ; CHECK-SAME: (<8 x i64>* [[ARG:%.*]], <8 x i64>* [[ARG1_VAL:%.*]])
  ; CHECK-NEXT: bb:
  ; CHECK-NEXT: ret void
}

bb:
%tmp = load <8 x i64>, <8 x i64>* %arg1
store <8 x i64> %tmp, <8 x i64>* %arg
ret void
}

; This should promote
define internal fastcc void @callee_avx512_legal512_prefer512_call_avx512_legal512_prefer256(8 x i64)* %arg, <8 x i64>* %arg1) #1 {
  ; CHECK-LABEL: define {{[^@]+}}@callee_avx512_legal512_prefer512_call_avx512_legal512_prefer256
  ; CHECK-SAME: (<8 x i64>* [[ARG:%.*]], <8 x i64>* [[ARG1_VAL:%.*]])
  ; CHECK-NEXT: bb:
  ; CHECK-NEXT: ret void
}

bb:
%tmp = load <8 x i64>, <8 x i64>* %arg1
store <8 x i64> %tmp, <8 x i64>* %arg
ret void
}
define void @avx512_legal512_prefer512_call_avx512_legal512_prefer256(<8 x i64>* %arg) #0 {
  bb:
  %tmp = alloca <8 x i64>, align 32
  %tmp2 = alloca <8 x i64>, align 32
  %tmp3 = bitcast <8 x i64>* %tmp to i8*
  call void @llvm.memset.p0i8.i64(i8* align 32 %tmp3, i8 0, i64 32, i1 false)
  call fastcc void @callee_avx512_legal512_prefer512_call_avx512_legal512_prefer256(<8 x i64>* %tmp2, <8 x i64>* %arg)
  %tmp4 = load <8 x i64>, <8 x i64>* %tmp2, align 32
  store <8 x i64> %tmp4, <8 x i64>* %arg, align 2
  ret void
}

; This should promote
define internal fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal512_prefer512(<8 x i64>* %arg, <8 x i64>* readonly %arg1) #0 {
  bb:
  %tmp = load <8 x i64>, <8 x i64>* %arg1
  store <8 x i64> %tmp, <8 x i64>* %arg
  ret void
}
define void @avx512_legal512_prefer256_call_avx512_legal512_prefer512(<8 x i64>* %arg) #1 {
; CHECK-LABEL: define {([^@]+)}@avx512_legal512_prefer256_call_avx512_legal512_prefer512
; CHECK-SAME: (<8 x i64>* [[ARG:%.*]])
; CHECK-NEXT: bb:
; CHECK-NEXT: [[TMP:%.*]] = alloca <8 x i64>, align 32
; CHECK-NEXT: [[TMP2:%.*]] = alloca <8 x i64>, align 32
; CHECK-NEXT: [[TMP3:%.*]] = bitcast <8 x i64>* [[TMP]] to i8*
; CHECK-NEXT: call void @llvm.memset.p0i8.i64(i8* align 32 [[TMP3]], i8 0, i64 32, i1 false)
; CHECK-NEXT: [[TMP_VAL:%.*]] = load <8 x i64>, <8 x i64>* [[TMP]] to i8*
; CHECK-NEXT: call fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal512_prefer512(<8 x i64>* [[TMP2]], <8 x i64> [[TMP_VAL]])
; CHECK-NEXT: [[TMP4:%.*]] = load <8 x i64>, <8 x i64>* [[TMP2]], align 32
; CHECK-NEXT: store <8 x i64> [[TMP4]], <8 x i64>* [[ARG]], align 2
; CHECK-NEXT: ret void

bb:
%tmp = alloca <8 x i64>, align 32
%tmp2 = alloca <8 x i64>, align 32
%tmp3 = bitcast <8 x i64>* %tmp to i8*
call void @llvm.memset.p0i8.i64(i8* align 32 %tmp3, i8 0, i64 32, i1 false)
call fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal512_prefer512(<8 x i64>* %tmp2, <8 x i64>* %tmp)
%tmp4 = load <8 x i64>, <8 x i64>* %tmp2, align 32
store <8 x i64> %tmp4, <8 x i64>* %arg, align 2
ret void
}

; This should not promote
define internal fastcc void @callee_avx512_legal256_prefer256_call_avx512_legal512_prefer256(<8 x i64>* %arg, <8 x i64>* readonly %arg1) #1 {
; CHECK-LABEL: define {([^@]+)}@callee_avx512_legal256_prefer256_call_avx512_legal512_prefer256
; CHECK-SAME: (<8 x i64>* [[ARG:%.*]], <8 x i64>* readonly [[ARG1:%.*]])
; CHECK-NEXT: bb:
; CHECK-NEXT: [[TMP:%.*]] = load <8 x i64>, <8 x i64>* [[ARG1]]
; CHECK-NEXT: store <8 x i64> [[TMP]], <8 x i64>* [[ARG]]
; CHECK-NEXT: ret void
;
bb:
%tmp = load <8 x i64>, <8 x i64>* %arg1
store <8 x i64> %tmp, <8 x i64>* %arg
ret void
}

define void @avx512_legal256_prefer256_call_avx512_legal512_prefer256(<8 x i64>* %arg) #2 {
; CHECK-LABEL: define {([^@]+)}@avx512_legal256_prefer256_call_avx512_legal512_prefer256
; CHECK-SAME: (<8 x i64>* [[ARG:%.*]])
; CHECK-NEXT: bb:
define internal fastcc void @callee_avx2_legal256_prefer256_call_avx2_legal512_prefer256(<8 x i64>* %arg, <8 x i64>* readonly %arg1) #3 {
  bb:
  %tmp = alloca <8 x i64>, align 32
  %tmp2 = alloca <8 x i64>, align 32
  %tmp3 = bitcast <8 x i64>* %tmp to i8*
  call void @llvm.memset.p0i8.i64(i8* align 32 %tmp3, i8 0, i64 32, i1 false)
  call fastcc void @callee_avx2_legal256_prefer256_call_avx2_legal512_prefer256(<8 x i64>* %tmp2, <8 x i64>* %tmp)
  %tmp4 = load <8 x i64>, <8 x i64>* %tmp4, align 32
  store <8 x i64> %tmp4, <8 x i64>* %arg, align 2
  ret void
}

; This should promote
define void @avx2_legal256_prefer256_call_avx2_legal512_prefer256(<8 x i64>* %arg) #4 {
  bb:
  %tmp = alloca <8 x i64>, align 32
  %tmp2 = alloca <8 x i64>, align 32
  %tmp3 = bitcast <8 x i64>* %tmp to i8*
  call void @llvm.memset.p0i8.i64(i8* align 32 %tmp3, i8 0, i64 32, i1 false)
  %tmp4 = load <8 x i64>, <8 x i64>* %tmp2, align 32
  store <8 x i64> %tmp4, <8 x i64>* %arg, align 2
  ret void
}
%tmp2 = alloca <8 x i64>, align 32
%tmp3 = bitcast <8 x i64>* %tmp to i8*
call void @llvm.memset.p0i8.i64(i8* align 32 %tmp3, i8 0, i64 32, i1 false)
call fastcc void @callee_avx2_legal512_prefer256_call_avx2_legal512_prefer256(<8 x i64>* %tmp2, <8 x i64>* %tmp)
%tmp4 = load <8 x i64>, <8 x i64>* %tmp2, align 32
store <8 x i64> %tmp4, <8 x i64>* %arg, align 2
ret void
}

; This should promote
define internal fastcc void @callee_avx2_legal512_prefer256_call_avx2_legal512_prefer256(<8 x i64>* %arg, <8 x i64>* readonly %arg1) #4 {
; CHECK-LABEL: define {{[^@]+}}@callee_avx2_legal512_prefer256_call_avx2_legal512_prefer256
; CHECK-SAME: (<8 x i64>* [[ARG:%.*]], <8 x i64>* [[ARG1_VAL:%.*]])
; CHECK-NEXT: bb:
; CHECK-NEXT: store <8 x i64> [[ARG1_VAL]], <8 x i64>* [[ARG]]
; CHECK-NEXT: ret void
;
bb:
%tmp = load <8 x i64>, <8 x i64>* %arg1
store <8 x i64> %tmp, <8 x i64>* %arg
ret void
}

define void @avx2_legal512_prefer256_call_avx2_legal512_prefer256(<8 x i64>* %arg) #3 {
; CHECK-LABEL: define {{[^@]+}}@avx2_legal512_prefer256_call_avx2_legal512_prefer256
; CHECK-SAME: (<8 x i64>* [[ARG:%.*]])
; CHECK-NEXT: bb:
; CHECK-NEXT: [[TMP:%.*]] = alloca <8 x i64>, align 32
; CHECK-NEXT: [[TMP2:%.*]] = alloca <8 x i64>, align 32
; CHECK-NEXT: [[TMP3:%.*]] = bitcast <8 x i64>* [[TMP]] to i8*
; CHECK-NEXT: call void @llvm.memset.p0i8.i64(i8* align 32 [[TMP3]], i8 0, i64 32, i1 false)
; CHECK-NEXT: [[TMP_VAL:%.*]] = load <8 x i64>, <8 x i64>* [[TMP]]
; CHECK-NEXT: call fastcc void @callee_avx2_legal512_prefer256_call_avx2_legal512_prefer256(<8 x i64>* [[TMP2]], <8 x i64>* [[TMP_VAL]])
; CHECK-NEXT: [[TMP4:%.*]] = load <8 x i64>, <8 x i64>* [[TMP2]], align 32
; CHECK-NEXT: store <8 x i64> [[TMP4]], <8 x i64>* [[ARG]], align 2
; CHECK-NEXT: ret void
;
bb:
%tmp = alloca <8 x i64>, align 32
%tmp2 = alloca <8 x i64>, align 32
%tmp3 = bitcast <8 x i64>* %tmp to i8*
call void @llvm.memset.p0i8.i64(i8* align 32 %tmp3, i8 0, i64 32, i1 false)
call fastcc void @callee_avx2_legal512_prefer256_call_avx2_legal512_prefer256(<8 x i64>* %tmp2, <8 x i64>* %tmp)
%tmp4 = load <8 x i64>, <8 x i64>* %tmp2, align 32

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store <8 x i64> %tmp4, <8 x i64>* %arg, align 2
ret void
}

; Function Attrs: argmemonly nounwind
declare void @llvm.memset.p0i8.i64(i8* nocapture writeonly, i8, i64, i1) #5

attributes #0 = { inlinehint norecurse nounwind uwtable "target-features"="+avx512vl" "min-legal-vector-width"="512" "prefer-vector-width"="512" }
attributes #1 = { inlinehint norecurse nounwind uwtable "target-features"="+avx512vl" "min-legal-vector-width"="512" "prefer-vector-width"="256" }
attributes #2 = { inlinehint norecurse nounwind uwtable "target-features"="+avx512vl" "min-legal-vector-width"="256" "prefer-vector-width"="256" }
attributes #3 = { inlinehint norecurse nounwind uwtable "target-features"="+avx2" "min-legal-vector-width"="512" "prefer-vector-width"="256" }
attributes #4 = { inlinehint norecurse nounwind uwtable "target-features"="+avx2" "min-legal-vector-width"="256" "prefer-vector-width"="256" }
attributes #5 = { argmemonly nounwind }

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target triple = "hexagon"

define hidden fastcc void @fred() unnamed_addr #0 {
  entry:
  br i1 undef, label %while.end, label %while.body.lr.ph

  while.body.lr.ph: ; preds = %entry
  br label %while.body

  while.body: ; preds = %exit.2, %while.body.lr.ph
  %lsr.iv = phi %struct.0* %cgep22, %exit.2 , [ undef, %while.body.lr.ph ]
  switch i32 undef, label %exit [
    i32 1, label %sw.bb.i
    i32 2, label %sw.bb3.i
  ]

  sw.bb.i: ; preds = %while.body
  unreachable

  sw.bb3.i: ; preds = %while.body
  unreachable

  exit: ; preds = %while.body
  switch i32 undef, label %exit.2 [
    i32 1, label %sw.bb.i17
    i32 2, label %sw.bb3.i20
  ]

  sw.bb.i17: ; preds = %exit
  %0 = bitcast %struct.0* %lsr.iv to i32*
  %1 = load i32, i32* %0, align 4
  unreachable

  sw.bb3.i20: ; preds = %exit
  %2 = bitcast %struct.0* %lsr.iv to i8**
define <16 x double> @test_sitofp_fixed(<16 x i32> %in) {
  ; First, extend each i32 to i64.
  ; CHECK-DAG: sshll2.2d [[BLOCK0_HI:v[0-9]+]], v0, #0
  ; CHECK-DAG: sshll2.2d [[BLOCK1_HI:v[0-9]+]], v1, #0
  ; CHECK-DAG: sshll2.2d [[BLOCK2_HI:v[0-9]+]], v2, #0
  ; CHECK-DAG: sshll2.2d [[BLOCK3_HI:v[0-9]+]], v3, #0
  ; Next, convert each to double.
  ; CHECK-DAG: scvtf.2d v0, [[BLOCK0_LO]]
  ; CHECK-DAG: scvtf.2d v1, [[BLOCK1_HI]]
  ; CHECK-DAG: scvtf.2d v2, [[BLOCK1_LO]]
  ; CHECK-DAG: scvtf.2d v3, [[BLOCK2_HI]]
  ; CHECK-DAG: scvtf.2d v4, [[BLOCK2_LO]]
  ; CHECK-DAG: scvtf.2d v5, [[BLOCK2_HI]]
  ; CHECK-DAG: scvtf.2d v6, [[BLOCK3_LO]]
  ; CHECK-DAG: scvtf.2d v7, [[BLOCK3_HI]]
  ; CHECK: ret
  %flt = sitofp <16 x i32> %in to <16 x double>
  %res = fdiv <16 x double> %flt, <double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0>
  ret <16 x double> %res
}

define <4 x double> @test_sitofp_fixed_shortish(<4 x i64> %in) {
  ; This one is small enough to satisfy isSimple, but still illegally large.
}

attributes #0 = { nounwind optsize "target-cpu"="hexagonv55" }
; RUN: llc -mtriple=aarch64-apple-ios %s -o - | FileCheck %s

; CHECK-DAG: scvtf.2d v0, v0
; CHECK-DAG: scvtf.2d v1, v1

; CHECK: ret
%flt = sitofp <4 x i64> %in to <4 x double>
%res = fdiv <4 x double> %flt, <double 64.0, double 64.0, double 64.0, double 64.0>
ret <4 x double> %res

} ; RUN: opt %s -inline -S | FileCheck %s

define internal void @innerSmall() "min-legal-vector-width"="128" {
  ret void
}

define internal void @innerLarge() "min-legal-vector-width"="512" {
  ret void
}

define internal void @innerNoAttribute() {
  ret void
}

; We should not add an attribute during inlining. No attribute means unknown.
; Inlining doesn't change the fact that we don't know anything about this
; function.
define void @outerNoAttribute() {
  call void @innerLarge()
  ret void
}

define void @outerConflictingAttributeSmall() "min-legal-vector-width"="128" {
  call void @innerLarge()
  ret void
}

define void @outerConflictingAttributeLarge() "min-legal-vector-width"="512" {
  call void @innerSmall()
  ret void
}

; We should remove the attribute after inlining since the callee's
; vector width requirements are unknown.
define void @outerAttribute() "min-legal-vector-width"="128" {
  call void @innerNoAttribute()
  ret void
}
; CHECK: define void @outerNoAttribute() {
; CHECK: define void @outerConflictingAttributeSmall() #0
; CHECK: define void @outerConflictingAttributeLarge() #0
; CHECK: define void @outerAttribute() {
; CHECK: attributes #0 = { "min-legal-vector-width"="512" }

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; RUN: opt -consthoist -S -o - %s | FileCheck %s
target triple = "thumbv6m-none--musleabi"

; Check that for i8 type, the maximum legal offset is 31.
; Also check that an constant used as value to be stored rather than
; pointer in a store instruction is hoisted.
; CHECK: foo_i8
; CHECK-DAG: %[[C1:const[0-9]?]] = bitcast i32 805874720 to i32
; CHECK-DAG: %[[C2:const[0-9]?]] = bitcast i32 805874688 to i32
; CHECK-DAG: %[[C3:const[0-9]?]] = bitcast i32 805873720 to i32
; CHECK-DAG: %[[C4:const[0-9]?]] = bitcast i32 805873688 to i32
; CHECK: %0 = inttoptr i32 %[[C2]] to i8*
; CHECK-NEXT: %1 = load volatile i8, i8* %0
; CHECK-NEXT: %[[M1:const_mat[0-9]?]] = add i32 %[[C2]], 4
define void @foo_i8() {
  entry:
  %0 = load volatile i8, i8* inttoptr (i32 805874688 to i8*)
  %1 = load volatile i8, i8* inttoptr (i32 805874692 to i8*)
  %2 = load volatile i8, i8* inttoptr (i32 805874719 to i8*)
  %3 = load volatile i8, i8* inttoptr (i32 805874720 to i8*)
  %4 = load volatile i8, i8* inttoptr (i32 805874727 to i8*)
  store i8 %4, i8* inttoptr(i32 805873688 to i8*)
  store i8 %3, i8* inttoptr(i32 805873719 to i8*)
  store i8 %2, i8* inttoptr(i32 805873720 to i8*)
  store i8 %1, i8* inttoptr(i32 805873727 to i8*)
  store i8* inttoptr(i32 805874800 to i8*), i8** @goo
  ret void
}

@goo = global i8* undef

define void @foo_i16() {
  entry:
  %0 = load volatile i16, i16* inttoptr (i32 805874688 to i16*)
  %1 = load volatile i16, i16* inttoptr (i32 805874692 to i16*)
  %2 = load volatile i16, i16* inttoptr (i32 805874719 to i16*)
  %3 = load volatile i16, i16* inttoptr (i32 805874720 to i16*)
  %4 = load volatile i16, i16* inttoptr (i32 805874727 to i16*)
  store i16 %4, i16* inttoptr(i32 805873688 to i16*)
  store i16 %3, i16* inttoptr(i32 805873719 to i16*)
  store i16 %2, i16* inttoptr(i32 805873720 to i16*)
  store i16 %1, i16* inttoptr(i32 805873727 to i16*)
  store i16* inttoptr(i32 805874800 to i16*), i16** @goo
  ret void
}
define void @foo_i16() {
  entry:
  %0 = load volatile i16, i16* inttoptr (i32 805874688 to i16*), align 2
  %1 = load volatile i16, i16* inttoptr (i32 805874692 to i16*), align 2
  %2 = load volatile i16, i16* inttoptr (i32 805874720 to i16*), align 2
  %3 = load volatile i16, i16* inttoptr (i32 805874750 to i16*), align 2
  %4 = load volatile i16, i16* inttoptr (i32 805874752 to i16*), align 2
  %5 = load volatile i16, i16* inttoptr (i32 805874774 to i16*), align 2
  ret void
}

define void @foo_i32() {
  entry:
  %0 = load volatile i32, i32* inttoptr (i32 805874816 to i32*), align 4
  %1 = load volatile i32, i32* inttoptr (i32 805874688 to i32*), align 4
  %2 = load volatile i32, i32* inttoptr (i32 805874720 to i32*), align 4
  %3 = load volatile i32, i32* inttoptr (i32 805874750 to i32*), align 4
  %4 = load volatile i32, i32* inttoptr (i32 805874752 to i32*), align 4
  %5 = load volatile i32, i32* inttoptr (i32 805874774 to i32*), align 4
  ret void
}
%0 = load volatile i32, i32* inttoptr (i32 805874688 to i32*), align 4
%1 = load volatile i32, i32* inttoptr (i32 805874692 to i32*), align 4
%2 = load volatile i32, i32* inttoptr (i32 805874812 to i32*), align 4
%3 = load volatile i32, i32* inttoptr (i32 805874816 to i32*), align 4
%4 = load volatile i32, i32* inttoptr (i32 805874824 to i32*), align 4
%5 = load volatile i32, i32* inttoptr (i32 805874828 to i32*), align 4
ret void
}

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# but not in AUTHORS, because Google holds the copyright.
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# https://developers.google.com/open-source/cla/corporate
#
# The agreement for individuals can be filled out on the web.
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# When adding J Random Contributor's name to this file,
# either J's name or J's organization's name should be
# added to the AUTHORS file, depending on whether the
# individual or corporate CLA was used.
#
# Names should be added to this file as:
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#
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JianXiong Zhou <zhoujianxiong2@gmail.com>
target triple = "x86_64-unknown-linux-gnu"

; This should promote
define internal fastcc void @callee_avx512_legal512_prefer512_call_avx512_legal512_prefer512(<8 x i64>* %arg, <8 x i64>* readonly %arg1) #0 {
  %tmp = load <8 x i64>, <8 x i64>* %arg1
  store <8 x i64> %tmp, <8 x i64>* %arg

  bb:
  %tmp = load <8 x i64>, <8 x i64>* %arg1
  store <8 x i64> %tmp, <8 x i64>* %arg

```cpp
ret void

define void @avx512_legal512_prefer512_call_avx512_legal512_prefer512(<8 x i64>* %arg) #0 {
  ; CHECK-LABEL: define ([^@]+) @avx512_legal512_prefer512_call_avx512_legal512_prefer512
  ; CHECK-SAME: (<8 x i64>* nocapture writeonly [[ARG:%.*]])
  ; CHECK-NEXT: bb:
  ; CHECK-NEXT:  [[TMP:%.*]] = alloca <8 x i64>, align 32
  ; CHECK-NEXT:  [[TMP2:%.*]] = alloca <8 x i64>, align 32
  ; CHECK-NEXT:  [[TMP3:%.*]] = bitcast <8 x i64>* [[TMP]] to i8*
  ; CHECK-NEXT: call void @llvm.memset.p0i8.i64(i8* nonnull align 32 dereferenceable(64) [[TMP3]], i8 0, i64 32, i1 false)
  ; CHECK-NEXT: call fastcc void @callee_avx512_legal512_prefer512_call_avx512_legal512_prefer512(<8 x i64>* noalias nocapture nofree nonnull writeonly align 32 dereferenceable(64) [[TMP2]], <8 x i64>* noalias nocapture nofree nonnull readonly align 32 dereferenceable(64) [[TMP]])
  ; CHECK-NEXT:  [[TMP4:%.*]] = load <8 x i64>, <8 x i64>* [[TMP2]], align 32
  ; CHECK-NEXT:  store <8 x i64> [[TMP4]], <8 x i64>* [[ARG]], align 2
  ; CHECK-NEXT:  ret void
  
  bb:
  %tmp = alloca <8 x i64>, align 32
  %tmp2 = alloca <8 x i64>, align 32
  %tmp3 = bitcast <8 x i64>* %tmp to i8*
  call void @llvm.memset.p0i8.i64(i8* align 32 %tmp3, i8 0, i64 32, i1 false)
  call fastcc void @callee_avx512_legal512_prefer512_call_avx512_legal512_prefer512(<8 x i64>* %tmp2, <8 x i64>* %tmp)
  %tmp4 = load <8 x i64>, <8 x i64>* %tmp2, align 32
  store <8 x i64> %tmp4, <8 x i64>* %arg, align 2
  ret void
}

; This should promote
define internal fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal512_prefer256(<8 x i64>* %arg, <8 x i64>* readonly %arg1) #1 {
  ; CHECK-LABEL: define ([^@]+) @callee_avx512_legal512_prefer256_call_avx512_legal512_prefer256
  ; CHECK-SAME: (<8 x i64>* noalias nocapture nofree nonnull writeonly align 32 dereferenceable(64) [[ARG:%.*]], <8 x i64>* noalias nocapture nofree nonnull readonly align 32 dereferenceable(64) [[ARG1:%.*]])
  ; CHECK-NEXT: bb:
  ; CHECK-NEXT:  [[TMP:%.*]] = load <8 x i64>, <8 x i64>* [[ARG1]], align 32
  ; CHECK-NEXT:  store <8 x i64> [[TMP]], <8 x i64>* [[ARG]], align 32
  ; CHECK-NEXT:  ret void
  
  bb:
  %tmp = load <8 x i64>, <8 x i64>* %arg1
  store <8 x i64> %tmp, <8 x i64>* %arg
  ret void
}
```
define void @avx512_legal512_prefer256_call_avx512_legal512_prefer256(<8 x i64>* %arg) #1 {  
; CHECK-LABEL: define ({{[^@]+}}) @avx512_legal512_prefer256_call_avx512_legal512_prefer256  
; CHECK-SAME: (<8 x i64>* nocapture writeonly [ARG:%.*]))  
; CHECK-NEXT: bb:  
; CHECK-NEXT: [[TMP:%.*]] = alloca <8 x i64>, align 32  
; CHECK-NEXT: [[TMP2:%.*]] = alloca <8 x i64>, align 32  
; CHECK-NEXT: [[TMP3:%.*]] = bitcast <8 x i64>* [[TMP]] to i8*  
; CHECK-NEXT: call void @llvm.memset.p0i8.i64(i8* nonnull align 32 dereferenceable(64) [[TMP3]], i8 0, i64 32, i1 false)  
; CHECK-NEXT: call fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal512_prefer256(<8 x i64>* noalias nocapture nofree nonnull writeonly align 32 dereferenceable(64) [[TMP2]], <8 x i64>* noalias nocapture nofree nonnull readonly align 32 dereferenceable(64) [[TMP]])  
; CHECK-NEXT: [[TMP4:%.*]] = load <8 x i64>, <8 x i64>* [[TMP2]], align 32  
; CHECK-NEXT: store <8 x i64> [[TMP4]], <8 x i64>* [[ARG]], align 2  
; CHECK-NEXT: ret void  
}  

bb:  
%tmp = alloca <8 x i64>, align 32  
%tmp2 = alloca <8 x i64>, align 32  
%tmp3 = bitcast <8 x i64>* %tmp to i8*  
call void @llvm.memset.p0i8.i64(i8* align 32 %tmp3, i8 0, i64 32, i1 false)  
call fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal512_prefer256(<8 x i64>* %tmp2, <8 x i64>* %tmp)  
%tmp4 = load <8 x i64>, <8 x i64>* %tmp2, align 32  
store <8 x i64> %tmp4, <8 x i64>* %arg, align 2  
ret void  
}

; This should promote  
define internal fastcc void @callee_avx512_legal512_prefer512_call_avx512_legal512_prefer256(<8 x i64>* %arg, <8 x i64>* readonly %arg1) #1 {  
; CHECK-LABEL: define ({{[^@]+}}) @callee_avx512_legal512_prefer512_call_avx512_legal512_prefer256  
; CHECK-SAME: (<8 x i64>* noalias nocapture nofree nonnull readonly align 32 dereferenceable(64) [[ARG:%.*]], <8 x i64>* noalias nocapture nofree nonnull readonly align 32 dereferenceable(64) [[ARG1:%.*]])  
; CHECK-NEXT: bb:  
; CHECK-NEXT: [[TMP:%.*]] = load <8 x i64>, <8 x i64>* [[ARG1]], align 32  
; CHECK-NEXT: store <8 x i64> [[TMP]], <8 x i64>* [[ARG]], align 32  
; CHECK-NEXT: ret void  
}  

bb:  
%tmp = load <8 x i64>, <8 x i64>* %arg1  
store <8 x i64> %tmp, <8 x i64>* %arg  
ret void  
}  

define void @avx512_legal512_prefer512_call_avx512_legal512_prefer256(<8 x i64>* %arg) #0 {  
; CHECK-LABEL: define ({{[^@]+}}) @avx512_legal512_prefer512_call_avx512_legal512_prefer256  
; CHECK-SAME: (<8 x i64>* nocapture writeonly [ARG:%.*]))
define external fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal512_prefer512(<8 x i64>* %arg, <8 x i64>* readonly %arg1) #0 {
  ; CHECK-LABEL: define {{[^@]+}}@callee_avx512_legal512_prefer256_call_avx512_legal512_prefer512
  ; CHECK-SAME: (<8 x i64>* noalias nocapture nfree nonnull writeonly align 32 dereferenceable(64) [[ARG:%.*]], <8 x i64>* noalias nocapture nfree nonnull readonly align 32 dereferenceable(64) [[ARG1:%.*]])
  ; CHECK-NEXT:  bb:
  ; CHECK-NEXT:    %tmp = load <8 x i64>, <8 x i64>* %arg1
  ; CHECK-NEXT:    store <8 x i64> %tmp, <8 x i64>* %arg
  ; CHECK-NEXT:    ret void
}

define void @avx512_legal512_prefer256_call_avx512_legal512_prefer512(<8 x i64>* %arg) #1 {
  ; CHECK-LABEL: define {{[^@]+}}@avx512_legal512_prefer256_call_avx512_legal512_prefer512
  ; CHECK-SAME: (<8 x i64>* nocapture writeonly [[ARG:%.*]])
  ; CHECK-NEXT:  bb:
  ; CHECK-NEXT:  bb:
  ; CHECK-NEXT:    %tmp = alloca <8 x i64>, align 32
  ; CHECK-NEXT:    %tmp2 = alloca <8 x i64>, align 32
  ; CHECK-NEXT:    %tmp3 = bitcast <8 x i64>* %tmp to i8*
call void @llvm.memset.p0i8.i64(i8* align 32 %tmp3, i8 0, i64 32, i1 false)
call fastcc void @callee_avx512_legal512_prefer512_call_avx512_legal512_prefer256(<8 x i64>* noalias nocapture nfree nonnull writeonly align 32 dereferenceable(64) [[TMP2]], <8 x i64>* noalias nocapture nfree nonnull readonly align 32 dereferenceable(64) [[TMP]])
  ; CHECK-NEXT:    %tmp4 = load <8 x i64>, <8 x i64>* %arg
  ; CHECK-NEXT:    store <8 x i64> %tmp4, <8 x i64>* %arg, align 2
  ; CHECK-NEXT:    ret void
}

; This should promote
define internal fastcc void @callee_avx512_legal512_prefer512_call_avx512_legal512_prefer256(<8 x i64>* %arg, <8 x i64>* %tmp) #0 {
  ; CHECK-LABEL: define {{[^@]+}}@callee_avx512_legal512_prefer256_call_avx512_legal512_prefer512
  ; CHECK-NEXT:  bb:
  ; CHECK-NEXT:    %tmp = alloca <8 x i64>, align 32
  ; CHECK-NEXT:    %tmp2 = alloca <8 x i64>, align 32
  ; CHECK-NEXT:    %tmp3 = bitcast <8 x i64>* %tmp to i8*
call void @llvm.memset.p0i8.i64(i8* align 32 %tmp3, i8 0, i64 32, i1 false)
call fastcc void @callee_avx512_legal512_prefer512_call_avx512_legal512_prefer256(<8 x i64>* %tmp2, <8 x i64>* %tmp)
  ; CHECK-NEXT:    %tmp4 = load <8 x i64>, <8 x i64>* %tmp2, align 32
  ; CHECK-NEXT:    store <8 x i64> %tmp4, <8 x i64>* %arg, align 2
  ; CHECK-NEXT:    ret void
}

define void @avx512_legal512_prefer256_call_avx512_legal512_prefer512(<8 x i64>* %arg) #1 {
  ; CHECK-LABEL: define {{[^@]+}}@avx512_legal512_prefer256_call_avx512_legal512_prefer512
  ; CHECK-SAME: (<8 x i64>* nocapture writeonly [[ARG:%.*]])
  ; CHECK-NEXT:  bb:
  ; CHECK-NEXT:  bb:
  ; CHECK-NEXT:    %tmp = alloca <8 x i64>, align 32
  ; CHECK-NEXT:    %tmp2 = alloca <8 x i64>, align 32
  ; CHECK-NEXT:    %tmp3 = bitcast <8 x i64>* %tmp to i8*
call void @llvm.memset.p0i8.i64(i8* align 32 %tmp3, i8 0, i64 32, i1 false)
call fastcc void @callee_avx512_legal512_prefer512_call_avx512 Legal512_prefer256(<8 x i64>* noalias nocapture nfree nonnull writeonly align 32 dereferenceable(64) [[TMP2]], <8 x i64>* noalias nocapture nfree nonnull readonly align 32 dereferenceable(64) [[TMP]])
  ; CHECK-NEXT:    %tmp4 = load <8 x i64>, <8 x i64>* %arg
  ; CHECK-NEXT:    store <8 x i64> %tmp4, <8 x i64>* %arg, align 2
  ; CHECK-NEXT:    ret void
}
define internal fastcc void @callee_avx512_legal256_prefer256_call_avx512_legal512_prefer256(<8 x i64>* %arg, <8 x i64>* readonly %arg1) #1 {
    %tmp = alloca <8 x i64>, align 32
    %tmp2 = alloca <8 x i64>, align 32
    %tmp3 = bitcast <8 x i64>* %tmp to i8*
    call void @llvm.memset.p0i8.i64(i8* align 32 %tmp3, i8 0, i64 32, i1 false)
    call fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal512_prefer512(<8 x i64>* %tmp2, <8 x i64>* %tmp)
    %tmp4 = load <8 x i64>, <8 x i64>* %tmp2, align 32
    store <8 x i64> %tmp4, <8 x i64>* %arg, align 2
    ret void
}

; This should not promote
define void @avx512_legal256_prefer256_call_avx512_legal512_prefer256(<8 x i64>* %arg) #2 {
    %tmp = load <8 x i64>, <8 x i64>* %arg
    store <8 x i64> %tmp, <8 x i64>* %arg
    ret void
}
; CHECK-NEXT: call fastcc void @callee_avx512_legal256_prefer256_call_avx512_legal256_prefer256(<8 x i64>* noalias nocapture nofree nonnull writeonly align 32 dereferenceable(64) [[TMP2]], <8 x i64>* noalias nocapture nofree nonnull readonly align 32 dereferenceable(64) [[TMP]])
; CHECK-NEXT: [[TMP4:%.*]] = load <8 x i64>, <8 x i64>* [[TMP2]], align 32
; CHECK-NEXT: store <8 x i64> [[TMP4]], <8 x i64>* [[ARG]], align 2
; CHECK-NEXT: ret void

bb:
%tmp = alloca <8 x i64>, align 32
%tmp2 = alloca <8 x i64>, align 32
%tmp3 = bitcast <8 x i64>* %tmp to i8*
call void @llvm.memset.p0i8.i64(i8* align 32 %tmp3, i8 0, i64 32, i1 false)
call fastcc void @callee_avx512_legal256_prefer256_call_avx512_legal256_prefer256(<8 x i64>* %tmp2, <8 x i64>* %tmp)
%tmp4 = load <8 x i64>, <8 x i64>* %tmp2, align 32
store <8 x i64> %tmp4, <8 x i64>* %arg, align 2
ret void

; This should not promote
define internal fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal256_prefer256(<8 x i64>* %arg, <8 x i64>* readonly %arg1) #2 {
; CHECK-LABEL: define {{[^@]+}}@callee_avx512_legal512_prefer256_call_avx512_legal256_prefer256
; CHECK-SAME: (<8 x i64>* noalias nocapture nofree nonnull writeonly align 32 dereferenceable(64) [[ARG:%.*]], <8 x i64>* noalias nocapture nofree nonnull readonly align 32 dereferenceable(64) [[ARG1:%.*]])
; CHECK-NEXT: bb:
; CHECK-NEXT: [[TMP:%.*]] = load <8 x i64>, <8 x i64>* [[ARG]], align 32
; CHECK-NEXT: store <8 x i64> [[TMP]], <8 x i64>* [[ARG]], align 32
; CHECK-NEXT: ret void

bb:
%tmp = load <8 x i64>, <8 x i64>* %arg1
store <8 x i64> %tmp, <8 x i64>* %arg
ret void

define void @avx512_legal512_prefer256_call_avx512_legal256_prefer256(<8 x i64>* %arg) #1 {
; CHECK-LABEL: define {{[^@]+}}@avx512_legal512_prefer256_call_avx512_legal256_prefer256
; CHECK-SAME: (<8 x i64>* nocapture writeonly [[ARG:%.*]])
; CHECK-NEXT: bb:
; CHECK-NEXT: [[TMP:%.*]] = alloca <8 x i64>, align 32
; CHECK-NEXT: [[TMP2:%.*]] = alloca <8 x i64>, align 32
; CHECK-NEXT: [[TMP3:%.*]] = bitcast <8 x i64>* [[TMP]] to i8*
; CHECK-NEXT: call void @llvm.memset.p0i8.i64(i8* nonnull align 32 dereferenceable(64) [[TMP3]], i8 0, i64 32, i1 false)
; CHECK-NEXT: call fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal512_prefer256(<8 x i64>* noalias nocapture nofree nonnull writeonly align 32 dereferenceable(64) [[TMP2]], <8 x i64>* noalias nocapture nofree nonnull readonly align 32 dereferenceable(64) [[TMP]])
define internal fastcc void @callee_avx2_legal256_prefer256_call_avx2_legal512_prefer256(<8 x i64>* %arg, <8 x i64>* readonly %arg1) #3 {
  ; CHECK-LABEL: define {{[^@]+}}@callee_avx2_legal256_prefer256_call_avx2_legal512_prefer256
  ; CHECK-SAME: (<8 x i64>* noalias nocapture nofree nonnull writeonly align 32 dereferenceable(64) [[ARG:%.*]], <8 x i64>* noalias nocapture nofree nonnull readonly align 32 dereferenceable(64) [[ARG1:%.*]])
  ; CHECK-NEXT: bb:
  ; CHECK-NEXT: [[TMP:%.*]] = load <8 x i64>, <8 x i64>* [[ARG1]], align 32
  ; CHECK-NEXT: store <8 x i64> [[TMP]], <8 x i64>* [[ARG]], align 32
  ; CHECK-NEXT: ret void

bb:
%tmp = load <8 x i64>, <8 x i64>* %arg
store <8 x i64> %tmp, <8 x i64>* %arg
ret void
}

define void @avx2_legal256_prefer256_call_avx2_legal512_prefer256(<8 x i64>* %arg) #4 {
  ; CHECK-LABEL: define {{[^@]+}}@avx2_legal256_prefer256_call_avx2_legal512_prefer256
  ; CHECK-SAME: (<8 x i64>* nocapture writeonly [[ARG:%.*]])
  ; CHECK-NEXT: bb:
  ; CHECK-NEXT: [[TMP:%.*]] = alloca <8 x i64>, align 32
  ; CHECK-NEXT: [[TMP2:%.*]] = alloca <8 x i64>, align 32
  ; CHECK-NEXT: [[TMP3:%.*]] = bitcast <8 x i64>* [[TMP]] to i8*
  ; CHECK-NEXT: call void @llvm.memset.p0i8.i64(i8* nonnull align 32 dereferenceable(64) [[TMP3]], i8 0, i64 32, i1 false)
  ; CHECK-NEXT: call fastcc void @callee_avx2_legal512_legal512_prefer256_call_avx512_legal512_prefer256(<8 x i64>* %tmp2, <8 x i64>* %tmp)
  ; CHECK-NEXT: [[TMP4:%.*]] = load <8 x i64>, <8 x i64>* %tmp2, align 32
  ; CHECK-NEXT: store <8 x i64> [[TMP4]], <8 x i64>* %arg, align 2
  ; CHECK-NEXT: ret void

bb:
%tmp = alloca <8 x i64>, align 32
%tmp2 = alloca <8 x i64>, align 32
%tmp3 = bitcast <8 x i64>* %tmp to i8*

call void @llvm.memset.p0i8.i64(i8* align 32 %tmp3, i8 0, i64 32, i1 false)
call fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal512_prefer256(<8 x i64>* %tmp, <8 x i64>* %tmp)
%tmp4 = load <8 x i64>, <8 x i64>* %tmp, align 32
store <8 x i64> %tmp4, <8 x i64>* %arg, align 2
ret void
}
bb:
%tmp = alloca <8 x i64>, align 32
%tmp2 = alloca <8 x i64>, align 32
%tmp3 = bitcast <8 x i64>* %tmp to i8*
call void @llvm.memset.p0i8.i64(i8* %tmp3, i8 0, i64 32, i1 false)
call fastcc void @callee_avx2_legal256_prefer256_call_avx2_legal512_prefer256(<8 x i64>* %tmp2, <8 x i64>* %tmp)
%tmp4 = load <8 x i64>, <8 x i64>* %tmp2, align 32
store <8 x i64> %tmp4, <8 x i64>* %arg, align 2
ret void
}

; This should promote
define internal fastcc void @callee_avx2_legal512_prefer256_call_avx2_legal256_prefer256(<8 x i64>* %arg, <8 x i64>* readonly %arg1) #4 {
    ; CHECK-LABEL: define {{[^@]+}}@callee_avx2_legal512_prefer256_call_avx2_legal256_prefer256
    ; CHECK-SAME: (<8 x i64>* noalias nocapture nofree nonnull writeonly align 32 dereferenceable(64) [[ARG:%.*]], <8 x i64>* noalias nocapture nofree nonnull readonly align 32 dereferenceable(64) [[ARG1:%.*]])
    ; CHECK-NEXT: bb:
    ; CHECK-NEXT: %[TMP:%.*] = load <8 x i64>, <8 x i64>* [[ARG1]], align 32
    ; CHECK-NEXT: store <8 x i64> @[TMP], <8 x i64>* [[ARG]], align 32
    ; CHECK-NEXT: ret void

    ; bb:
    %tmp = load <8 x i64>, <8 x i64>* %arg
    store <8 x i64> %tmp, <8 x i64>* %arg
    ret void
}

define void @avx2_legal512_prefer256_call_avx2_legal256_prefer256(<8 x i64>* %arg) #3 {
    ; CHECK-LABEL: define {{[^@]+}}@avx2_legal512_prefer256_call_avx2_legal256_prefer256
    ; CHECK-SAME: (<8 x i64>* nocapture writeonly [[ARG:%.*]])
    ; CHECK-NEXT: bb:
    ; CHECK-NEXT: @[TMP:%.*] = alloca <8 x i64>, align 32
    ; CHECK-NEXT: @[TMP2:%.*] = alloca <8 x i64>, align 32
    ; CHECK-NEXT: @[TMP3:%.*] = bitcast <8 x i64>* [@TMP] to i8*
    ; CHECK-NEXT: call void @llvm.memset.p0i8.i64(i8* nonnull align 32 dereferenceable(64) [@TMP3], i8 0, i64 32, i1 false)
    ; CHECK-NEXT: call fastcc void @callee_avx2_legal512_prefer256_call_avx2_legal256_prefer256(<8 x i64>* noalias nocapture nofree nonnull writeonly align 32 dereferenceable(64) [@TMP2], <8 x i64>* noalias nocapture nofree nonnull readonly align 32 dereferenceable(64) [@TMP])
    ; CHECK-NEXT: @[TMP4:%.*] = load <8 x i64>, <8 x i64>* [@TMP2], align 32
    ; CHECK-NEXT: store <8 x i64> @[TMP4], <8 x i64>* [@ARG], align 2
    ; CHECK-NEXT: ret void

    ; bb:
    %tmp = alloca <8 x i64>, align 32
%tmp2 = alloca <8 x i64>, align 32
%tmp3 = bitcast <8 x i64>* %tmp to i8*
call void @llvm.memset.p0i8.i64(i8* align 32 %tmp3, i8 0, i64 32, i1 false)
call fastcc void @callee_avx2_legal512_prefer256_call_avx2_legal256_prefer256(<8 x i64>* %tmp2, <8 x i64>* %tmp)
%tmp4 = load <8 x i64>, <8 x i64>* %tmp2, align 32
store <8 x i64> %tmp4, <8 x i64>* %arg, align 2
ret void
}

; Function Attrs: argmemonly nounwind
declare void @llvm.memset.p0i8.i64(i8* nocapture writeonly, i8, i64, i1) #5

attributes #0 = { inlinehint norecurse nounwind uwtable "target-features"="+avx512vl" "min-legal-vector-width"="512" "prefer-vector-width"="512" }
attributes #1 = { inlinehint norecurse nounwind uwtable "target-features"="+avx512vl" "min-legal-vector-width"="512" "prefer-vector-width"="256" }
attributes #2 = { inlinehint norecurse nounwind uwtable "target-features"="+avx512vl" "min-legal-vector-width"="256" "prefer-vector-width"="256" }
attributes #3 = { inlinehint norecurse nounwind uwtable "target-features"="+avx2" "min-legal-vector-width"="512" "prefer-vector-width"="256" }
attributes #4 = { inlinehint norecurse nounwind uwtable "target-features"="+avx2" "min-legal-vector-width"="256" "prefer-vector-width"="256" }
attributes #5 = { argmemonly nounwind }

; RUN: llc -O3 -mtriple=powerpc-unknown-linux-gnu -mcpu=e500 -mattr=spe < %s | FileCheck %s

; PowerPC SPE is a rare in-tree target that has the FP_TO_SINT node marked
; as Legal.

; Verify that fptosi(42.1) isn't simplified when the rounding mode is
; unknown.
; CHECK-LABEL: @f20
; COMMON: cfdctsiz
define i32 @f20(double %a) strictfp {
entry:
%result = call i32 @llvm.experimental.constrained.fptosi.i32.f64(double 42.1,
metadata !"fpexcept.strict")
strictfp
ret i32 %result
}

@llvm.fp.env = thread_local global i8 zeroinitializer, section "llvm.metadata"
declare i32 @llvm.experimental.constrained.fptosi.i32.f64(double, metadata)

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; NOTE: Assertions have been autogenerated by utils/update_analyze_test_checks.py
; RUN: opt -cost-model -analyze -mtriple=x86_64-apple-macosx10.8.0 -matr=+avx2 | FileCheck %s --check-prefixes=CHECK,VEC256,AVX
; RUN: opt -cost-model -analyze -mtriple=x86_64-apple-macosx10.8.0 -matr=+avx512vl,+avx512bw,+avx512dq,+prefer-256-bit | FileCheck %s --check-prefixes=CHECK,VEC256,SKX256
; RUN: opt -cost-model -analyze -mtriple=x86_64-apple-macosx10.8.0 -matr=+avx512vl,+avx512bw,+avx512dq,-prefer-256-bit | FileCheck %s --check-prefixes=CHECK,VEC512
define void @zext256() "min-legal-vector-width"="256" { 
 ; VEC256-LABEL: 'zext256'
 ; VEC256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %A = zext <8 x i16> undef to <8 x i64>
 ; VEC256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %B = zext <8 x i32> undef to <8 x i64>
 ; VEC256-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %C = zext <16 x i8> undef to <16 x i32>
 ; VEC256-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %D = zext <16 x i16> undef to <16 x i32>
 ; VEC256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %E = zext <32 x i8> undef to <32 x i16>
 ; VEC256-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void
 ;
 ; VEC512-LABEL: 'zext256'
 ; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %A = zext <8 x i16> undef to <8 x i64>
 ; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %B = zext <8 x i32> undef to <8 x i64>
 ; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %C = zext <16 x i8> undef to <16 x i32>
 ; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %D = zext <16 x i16> undef to <16 x i32>
 ; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %E = zext <32 x i8> undef to <32 x i16>
 ; VEC512-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void
 ;
 ; %A = zext <8 x i16> undef to <8 x i64>
 %B = zext <8 x i32> undef to <8 x i64>
 %C = zext <16 x i8> undef to <16 x i32>
 %D = zext <16 x i16> undef to <16 x i32>
 %E = zext <32 x i8> undef to <32 x i16>
 ret void
 }

define void @zext512() "min-legal-vector-width"="512" { 
 ; AVX-LABEL: 'zext512'
 ; AVX-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %A = zext <8 x i16> undef to <8 x i64>
 ; AVX-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %B = zext <8 x i32> undef to <8 x i64>
 ; AVX-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %C = zext <16 x i8> undef to <16 x i32>
 ; AVX-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %D = zext <16 x i16> undef to <16 x i32>
 ; AVX-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %E = zext <32 x i8> undef to <32 x i16>
 ; AVX-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void
 ;
 ; SKX256-LABEL: 'zext512'
 ; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %A = zext <8 x i16> undef to <8 x
define void @sext256() "min-legal-vector-width"="256" {
  ; VEC256-LABEL: 'sext256'
  ; VEC256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %A = sext <8 x i8> undef to <8 x i64>
  ; VEC256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %B = sext <8 x i16> undef to <8 x i64>
  ; VEC256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %C = sext <8 x i32> undef to <8 x i64>
  ; VEC256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %D = sext <8 x i16> undef to <8 x i64>
  ; VEC256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %E = sext <8 x i32> undef to <8 x i64>
  ; VEC256-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void

  %A = sext <8 x i16> undef to <8 x i64>
  %B = sext <8 x i32> undef to <8 x i64>
  %C = sext <8 x i32> undef to <8 x i64>
  %D = sext <8 x i16> undef to <8 x i64>
  %E = sext <8 x i32> undef to <8 x i64>
  ret void
}

define void @sext256() "min-legal-vector-width"="256" {
  ; VEC256-LABEL: 'sext256'
  ; VEC256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %A = sext <8 x i8> undef to <8 x i64>
  ; VEC256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %B = sext <8 x i32> undef to <8 x i64>
  ; VEC256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %C = sext <8 x i32> undef to <8 x i64>
  ; VEC256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %D = sext <8 x i16> undef to <8 x i64>
  ; VEC256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %E = sext <8 x i32> undef to <8 x i64>
  ; VEC256-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void

  %A = sext <8 x i16> undef to <8 x i64>
  %B = sext <8 x i32> undef to <8 x i64>
  %C = sext <8 x i32> undef to <8 x i64>
  %D = sext <8 x i16> undef to <8 x i64>
  %E = sext <8 x i32> undef to <8 x i64>
  ret void
}

define void @sext256() "min-legal-vector-width"="256" {
  ; VEC256-LABEL: 'sext256'
  ; VEC256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %A = sext <8 x i8> undef to <8 x i64>
  ; VEC256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %B = sext <8 x i32> undef to <8 x i64>
  ; VEC256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %C = sext <8 x i32> undef to <8 x i64>
  ; VEC256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %D = sext <8 x i16> undef to <8 x i64>
  ; VEC256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %E = sext <8 x i32> undef to <8 x i64>
  ; VEC256-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void

  %A = sext <8 x i16> undef to <8 x i64>
  %B = sext <8 x i32> undef to <8 x i64>
  %C = sext <8 x i32> undef to <8 x i64>
  %D = sext <8 x i16> undef to <8 x i64>
  %E = sext <8 x i32> undef to <8 x i64>
  ret void
}

define void @sext256() "min-legal-vector-width"="256" {
  ; VEC256-LABEL: 'sext256'
  ; VEC256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %A = sext <8 x i8> undef to <8 x i64>
  ; VEC256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %B = sext <8 x i32> undef to <8 x i64>
  ; VEC256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %C = sext <8 x i32> undef to <8 x i64>
  ; VEC256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %D = sext <8 x i16> undef to <8 x i64>
  ; VEC256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %E = sext <8 x i32> undef to <8 x i64>
  ; VEC256-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void

  %A = sext <8 x i16> undef to <8 x i64>
  %B = sext <8 x i32> undef to <8 x i64>
  %C = sext <8 x i32> undef to <8 x i64>
  %D = sext <8 x i16> undef to <8 x i64>
  %E = sext <8 x i32> undef to <8 x i64>
  ret void
}

define void @sext256() "min-legal-vector-width"="256" {
  ; VEC256-LABEL: 'sext256'
  ; VEC256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %A = sext <8 x i8> undef to <8 x i64>
  ; VEC256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %B = sext <8 x i32> undef to <8 x i64>
  ; VEC256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %C = sext <8 x i32> undef to <8 x i64>
  ; VEC256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %D = sext <8 x i16> undef to <8 x i64>
  ; VEC256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %E = sext <8 x i32> undef to <8 x i64>
  ; VEC256-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void

  %A = sext <8 x i16> undef to <8 x i64>
  %B = sext <8 x i32> undef to <8 x i64>
  %C = sext <8 x i32> undef to <8 x i64>
  %D = sext <8 x i16> undef to <8 x i64>
  %E = sext <8 x i32> undef to <8 x i64>
  ret void
}
define void @sext512() "min-legal-vector-width"="512" {
  ; AVX-LABEL: 'sext512'
  ; AVX-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %A = sext <8 x i8> undef to <8 x i64>
  ; AVX-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %B = sext <8 x i16> undef to <8 x i64>
  ; AVX-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %C = sext <8 x i32> undef to <8 x i64>
  ; AVX-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %D = sext <16 x i8> undef to <16 x i32>
  ; AVX-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %E = sext <16 x i16> undef to <16 x i32>
  ; AVX-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %F = sext <32 x i8> undef to <32 x i16>
  ; AVX-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void
  
  ; SKX256-LABEL: 'sext512'
  ; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %A = sext <8 x i8> undef to <8 x i64>
  ; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %B = sext <8 x i16> undef to <8 x i64>
  ; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %C = sext <8 x i32> undef to <8 x i64>
  ; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %D = sext <16 x i8> undef to <16 x i32>
  ; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %E = sext <16 x i16> undef to <16 x i32>
  ; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %F = sext <32 x i8> undef to <32 x i16>
  ; SKX256-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void
  
  ; VEC512-LABEL: 'sext512'
  ; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %A = sext <8 x i8> undef to <8 x i64>
  ; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %B = sext <8 x i16> undef to <8 x i64>
  ; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %C = sext <8 x i32> undef to <8 x i64>
  ; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %D = sext <16 x i8> undef to <16 x i32>
  ; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %E = sext <16 x i16> undef to <16 x i32>
  ; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %F = sext <32 x i8> undef to <32 x i16>
  ; VEC512-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void
}

; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %B = sext <8 x i16> undef to <8 x i64>
; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %C = sext <8 x i32> undef to <8 x i64>
; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %D = sext <16 x i8> undef to <16 x i32>
; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %E = sext <16 x i16> undef to <16 x i32>
; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %F = sext <32 x i8> undef to <32 x i16>
; VEC512-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void

; %A = sext <8 x i8> undef to <8 x i64>
%B = sext <8 x i16> undef to <8 x i64>
%C = sext <8 x i32> undef to <8 x i64>
%D = sext <16 x i8> undef to <16 x i32>
%E = sext <16 x i16> undef to <16 x i32>
%F = sext <32 x i8> undef to <32 x i16>
ret void

; RUN: llc < %s -mtriple=x86_64-linux-android -mattr=+mmx -enable-legalize-types-checking | FileCheck %s
;
; D31946
; Check that we dont end up with the "LLVM ERROR: Cannot select" error.
; Additionally ensure that the output code actually put fp128 values in SSE registers.

declare fp128 @llvm.fabs.f128(fp128)
declare fp128 @llvm.copysign.f128(fp128, fp128)

define fp128 @TestSelect(fp128 %a, fp128 %b) {
  %cmp = fcmp ogt fp128 %a, %b
  %sub = fsub fp128 %a, %b
  %res = select i1 %cmp, fp128 %sub, fp128 0xL00000000000000000000000000000000
  ret fp128 %res
}
define fp128 @TestFabs(fp128 %a) {
}
define fp128 @TestFabs(fp128 %a) {

%res = call fp128 @llvm.fabs.f128(fp128 %a)
ret fp128 %res
; CHECK-LABEL: TestFabs:
; CHECK andps .LCPI1_0(%rip), %xmm0
; CHECK-NEXT retq
}
define fp128 @TestCopysign(fp128 %a, fp128 %b) {
%res = call fp128 @llvm.copysign.f128(fp128 %a, fp128 %b)
ret fp128 %res
; CHECK-LABEL: TestCopysign:
; CHECK andps .LCPI2_1(%rip), %xmm0
; CHECK-NEXT orps %xmm1, %xmm0
; CHECK-NEXT retq
}
define fp128 @TestFneg(fp128 %a) {
%mul = fmul fp128 %a, %a
%res = fsub fp128 0x00000000000000008000000000000000, %mul
ret fp128 %res
; CHECK-LABEL: TestFneg:
; CHECK movaps %xmm0, %xmm1
; CHECK-NEXT callq __multf3
; CHECK-NEXT xorps .LCPI3_0(%rip), %xmm0
; CHECK-NEXT popq %rax
; CHECK-NEXT retq
}

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########################################################################
## Constant-time SSSE3 AES core implementation.
## version 0.1
##
## By Mike Hamburg (Stanford University), 2009
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1.197 python-oauthlib 3.1.0

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1.198 memstrack 0.1.11 1.el8

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1.200 python 3.8.7-r1

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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, which became
Zope Corporation. In 2001, the Python Software Foundation (PSF, see
https://www.python.org/psf/) was formed, a non-profit organization
created specifically to own Python-related Intellectual Property.
Zope Corporation was a sponsoring member of the PSF.

All Python releases are Open Source (see http://www.opensource.org for
the Open Source Definition). Historically, most, but not all, Python
releases have also been GPL-compatible; the table below summarizes
the various releases.

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(2) According to Richard Stallman, 1.6.1 is not GPL-compatible, because its license has a choice of law clause. According to CNRI, however, Stallman's lawyer has told CNRI's lawyer that 1.6.1 is "not incompatible" with the GPL.

Thanks to the many outside volunteers who have worked under Guido's direction to make these releases possible.

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d) Convey the object code by offering access from a designated place (gratis or for a charge), and offer equivalent access to the Corresponding Source in the same way through the same place at no further charge. You need not require recipients to copy the Corresponding Source along with the object code. If the place to copy the object code is a network server, the Corresponding Source may be on a different server (operated by you or a third party) that supports equivalent copying facilities, provided you maintain clear directions next to the object code saying where to find the Corresponding Source. Regardless of what server hosts the Corresponding Source, you remain obligated to ensure that it is available for as long as needed to satisfy these requirements.

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.

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Most GNU software, including some libraries, is covered by the ordinary GNU General Public License, which was designed for utility programs. This license, the GNU Library General Public License, applies to certain designated libraries. This license is quite different from the ordinary one; be sure to read it in full, and don't assume that anything in it is the same as in the ordinary license.

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

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

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

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

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"Source code" for a work means the preferred form of the work for
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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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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.
If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

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

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

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

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

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

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

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

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

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

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

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# PLY (Python Lex-Yacc)       Version 3.11


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Introduction

PLY is a 100% Python implementation of the common parsing tools lex and yacc. Here are a few highlights:

- PLY is very closely modeled after traditional lex/yacc. If you know how to use these tools in C, you will find PLY to be similar.

- PLY provides *very* extensive error reporting and diagnostic information to assist in parser construction. The original implementation was developed for instructional purposes. As a result, the system tries to identify the most common types of errors made by novice users.

- PLY provides full support for empty productions, error recovery, precedence specifiers, and moderately ambiguous grammars.

- Parsing is based on LR-parsing which is fast, memory efficient, better suited to large grammars, and which has a number of nice properties when dealing with syntax errors and other parsing problems. Currently, PLY builds its parsing tables using the LALR(1) algorithm used in yacc.

- PLY uses Python introspection features to build lexers and parsers. This greatly simplifies the task of parser construction since it reduces the number of files and eliminates the need to run a separate lex/yacc tool before running your program.

- PLY can be used to build parsers for "real" programming languages. Although it is not ultra-fast due to its Python implementation, PLY can be used to parse grammars consisting of several hundred rules (as might be found for a language like C). The lexer and LR parser are also reasonably efficient when parsing typically sized programs. People have used PLY to build parsers for C, C++, ADA, and other real programming languages.

How to Use

PLY consists of two files : lex.py and yacc.py. These are contained within the 'ply' directory which may also be used as a Python package. To use PLY, simply copy the 'ply' directory to your project and import lex and yacc from the associated 'ply' package. For example:
import ply.lex as lex
import ply.yacc as yacc

Alternatively, you can copy just the files lex.py and yacc.py individually and use them as modules. For example:

import lex
import yacc

The file setup.py can be used to install ply using distutils.

The file doc/ply.html contains complete documentation on how to use the system.

The example directory contains several different examples including a PLY specification for ANSI C as given in K&R 2nd Ed.

A simple example is found at the end of this document

Requirements
==============
PLY requires the use of Python 2.6 or greater. However, you should use the latest Python release if possible. It should work on just about any platform. PLY has been tested with both CPython and Jython. It also seems to work with IronPython.

Resources
==========
More information about PLY can be obtained on the PLY webpage at:

http://www.dabeaz.com/ply

For a detailed overview of parsing theory, consult the excellent book "Compilers : Principles, Techniques, and Tools" by Aho, Sethi, and Ullman. The topics found in "Lex & Yacc" by Levine, Mason, and Brown may also be useful.

The GitHub page for PLY can be found at:

https://github.com/dabeaz/ply

An old and relatively inactive discussion group for PLY is found at:

http://groups.google.com/group/ply-hack

Acknowledgments
===================
A special thanks is in order for all of the students in CS326 who suffered through about 25 different versions of these tools :-).

The CHANGES file acknowledges those who have contributed patches.

Elias Ioup did the first implementation of LALR(1) parsing in PLY-1.x. Andrew Waters and Markus Schoepflin were instrumental in reporting bugs and testing a revised LALR(1) implementation for PLY-2.0.

Special Note for PLY-3.0
========================
Ply-3.0 the first PLY release to support Python 3. However, backwards compatibility with Python 2.6 is still preserved. PLY provides dual Python 2/3 compatibility by restricting its implementation to a common subset of basic language features. You should not convert PLY using 2to3--it is not necessary and may in fact break the implementation.

Example
=======

Here is a simple example showing a PLY implementation of a calculator with variables.

```python
# calc.py
# A simple calculator with variables.

tokens = (
    'NAME','NUMBER',
    'PLUS','MINUS','TIMES','DIVIDE','EQUALS',
    'LPAREN','RPAREN',
)

def t_NUMBER(t):
    r'\d+'
t.value = int(t.value)
return t

# Ignored characters
t_ignore = " 	"

def t_newline(t):
    r'\n+'
    t.lexer.lineno += t.value.count("\n")

def t_error(t):
    print(\"Illegal character \'%s\'\" % t.value[0])
    t.lexer.skip(1)

# Build the lexer
import ply.lex as lex
lex.lex()

# Precedence rules for the arithmetic operators
precedence = (
    (\'left\', \'PLUS\', \'MINUS\'),
    (\'left\', \'TIMES\', \'DIVIDE\'),
    (\'right\', \'UMINUS\'),
)

# dictionary of names (for storing variables)
names = { }

def p_statement_assign(p):
    \"statement : NAME EQUALS expression\"
    names[p[1]] = p[3]

def p_statement_expr(p):
    \"statement : expression\"
    print(p[1])

def p_expression_binop(p):
    \"expression : expression PLUS expression\"
        | expression MINUS expression
        | expression TIMES expression
        | expression DIVIDE expression\"

def p_expression_uminus(p):
    \"expression : MINUS expression %prec UMINUS\"
\[ p[0] = -p[2] \]

def p_expression_group(p):
    'expression : LPAREN expression RPAREN'
    p[0] = p[2]

def p_expression_number(p):
    'expression : NUMBER'
    p[0] = p[1]

def p_expression_name(p):
    'expression : NAME'
    try:
        p[0] = names[p[1]]
    except LookupError:
        print("Undefined name '%s'" % p[1])
        p[0] = 0

def p_error(p):
    print("Syntax error at '%s'" % p.value)

import ply.yacc as yacc
yacc.yacc()

while True:
    try:
        s = raw_input('calc > ')   # use input() on Python 3
    except EOFError:
        break
    yacc.parse(s)

Bug Reports and Patches

My goal with PLY is to simply have a decent lex/yacc implementation for Python. As a general rule, I don't spend huge amounts of time working on it unless I receive very specific bug reports and/or patches to fix problems. I also try to incorporate submitted feature requests and enhancements into each new version. Please visit the PLY github page at https://github.com/dabeaz/ply to submit issues and pull requests. To contact me about bugs and/or new features, please send email to dave@dabeaz.com.

-- Dave

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Metadata-Version: 1.1
Name: ply
Version: 3.11
Summary: Python Lex & Yacc
Home-page: http://www.dabeaz.com/ply/
Author: David Beazley
Author-email: dave@dabeaz.com
License: BSD
Description-Content-Type: UNKNOWN
Description:

PLY is yet another implementation of lex and yacc for Python. Some notable features include the fact that its implemented entirely in Python and it uses LALR(1) parsing which is efficient and well suited for larger grammars.

PLY provides most of the standard lex/yacc features including support for empty productions, precedence rules, error recovery, and support for ambiguous grammars.

PLY is extremely easy to use and provides very extensive error checking.
It is compatible with both Python 2 and Python 3.

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1.223 libgcrypt 1.8.5 4.el8

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1.231 urllib3 1.26.3

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# Contributions to the urllib3 project

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## Contributors

In chronological order:

* victor.vde <http://code.google.com/u/victor.vde/>
  * HTTPS patch (which inspired HTTPSConnectionPool)

* erikcederstrand <http://code.google.com/u/erikcederstrand/>
  * NTLM-authenticated HTTPSConnectionPool
  * Basic-authenticated HTTPSConnectionPool (merged into make_headers)

* niphlod <niphlod@gmail.com>
  * Client-verified SSL certificates for HTTPSConnectionPool
  * Response gzip and deflate encoding support
  * Better unicode support for filepost using StringIO buffers

* btoconnor <brian@btoconnor.net>
  * Non-multipart encoding for POST requests

* p.dobrogost <http://code.google.com/u/@WBRSRIBZdHBFXQB6/>
  * Code review, PEP8 compliance, benchmark fix

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  * Bugfixes, Improvements and Test coverage

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  * Python 3 support

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  * Design review, bugfixes, test coverage.
* studer <theo.studer@gmail.com>
  * IPv6 url support and test coverage

* Shivaram Lingamneni <slingamn@cs.stanford.edu>
  * Support for explicitly closing pooled connections

* hartator <hartator@gmail.com>
  * Corrected multipart behavior for params

* Thomas Weischuh <thomas@t-8ch.de>
  * Support for TLS SNI
  * API unification of ssl_version/cert_reqs
  * SSL fingerprint and alternative hostname verification
  * Bugfixes in testsuite

* Sune Kirkeby <mig@ibofoi.dk>
  * Optional SNI-support for Python 2 via PyOpenSSL.

* Marc Schlaich <marc.schlaich@gmail.com>
  * Various bugfixes and test improvements.

* Bryce Boe <bbzbryce@gmail.com>
  * Correct six.moves conflict
  * Fixed pickle support of some exceptions

* Boris Figovskey <boris.figovskey@ravelosystems.com>
  * Allowed to skip SSL hostname verification

* Cory Benfield <https://lukasa.co.uk/about/>
  * Stream method for Response objects.
  * Return native strings in header values.
  * Generate 'Host' header when using proxies.

* Jason Robinson <jaywink@basshero.org>
  * Add missing WrappedSocket.fileno method in PyOpenSSL

* Audrius Butkevicius <audrius.butkevicius@elastichosts.com>
  * Fixed a race condition

* Stanislav Vitkovskiy <stas.vitkovsky@gmail.com>
  * Added HTTPS (CONNECT) proxy support

* Stephen Holsapple <sholsapp@gmail.com>
  * Added abstraction for granular control of request fields

* Martin von Gagern <Martin.vGagern@gmx.net>
  * Support for non-ASCII header parameters
* Kevin Burke <kev@inburke.com> and Pavel Kirichenko <juanych@yandex-team.ru>
  * Support for separate connect and request timeouts

* Peter Waller <p@pwaller.net>
  * HTTPResponse.tell() for determining amount received over the wire

* Nipunn Koorapati <nipunn1313@gmail.com>
  * Ignore default ports when comparing hosts for equality

* Danilo @dbrgn <https://dbrgn.ch/>
  * Disabled TLS compression by default on Python 3.2+
  * Disabled TLS compression in pyopenssl contrib module
  * Configurable cipher suites in pyopenssl contrib module

* Roman Bogorodskiy <roman.bogorodskiy@ericsson.com>
  * Account retries on proxy errors

* Nicolas Delaby <nicolas.delaby@ezeep.com>
  * Use the platform-specific CA certificate locations

* Josh Schneier <https://github.com/jschneier>
  * HTTPHeaderDict and associated tests and docs
  * Bugfixes, docs, test coverage

* Tahia Khan <http://tahia.tk/>
  * Added Timeout examples in docs

* Arthur Grunseid <https://grunseid.com>
  * source_address support and tests (with https://github.com/bui)

* Ian Cordasco <graffatcolmingov@gmail.com>
  * PEP8 Compliance and Linting
  * Add ability to pass socket options to an HTTP Connection

* Erik Tollerud <erik.tollerud@gmail.com>
  * Support for standard library io module.

* Krishna Prasad <kprasad.iitd@gmail.com>
  * Google App Engine documentation

* Aaron Meurer <asmeurer@gmail.com>
  * Added Url.url, which unparses a Url

* Evgeny Kapun <abacabadabacaba@gmail.com>
  * Bugfixes

* Benjamen Meyer <bm_witness@yahoo.com>
* Security Warning Documentation update for proper capture

* Shivan Sornarajah <github@sornars.com>
  * Support for using ConnectionPool and PoolManager as context managers.

* Alex Gaynor <alex.gaynor@gmail.com>
  * Updates to the default SSL configuration

* Tomas Tomecek <ttomecek@redhat.com>
  * Implemented generator for getting chunks from chunked responses.

* tlynn <https://github.com/tlynn>
  * Respect the warning preferences at import.

* David D. Riddle <ddriddle@illinois.edu>
  * IPv6 bugfixes in testsuite

* Thea Flowers <magicalgirl@google.com>
  * App Engine environment tests.
  * Documentation re-write.

* John Krauss <https://github.com/talos>
  * Clues to debugging problems with `cryptography` dependency in docs

* Disassem <https://github.com/Disassem>
  * Fix pool-default headers not applying for url-encoded requests like GET.

* James Atherfold <jlatherfold@hotmail.com>
  * Bugfixes relating to cleanup of connections during errors.

* Christian Pedersen <https://github.com/chripede>
  * IPv6 HTTPS proxy bugfix

* Jordan Moldow <https://github.com/jmoldow>
  * Fix low-level exceptions leaking from ``HTTPResponse.stream()``.
  * Bugfix for `ConnectionPool.urlopen(release_conn=False)`.
  * Creation of `HTTPConnectionPool.ResponseCls`.

* Predrag Gruevski <https://github.com/obi1kenobi>
  * Made cert digest comparison use a constant-time algorithm.

* Adam Talsma <https://github.com/a-tal>
  * Bugfix to `ca_cert` file paths.

* Evan Meagher <https://evanmeagher.net>
  * Bugfix related to `memoryview` usage in PyOpenSSL adapter

* John Vandenberg <jayvdb@gmail.com>
* Python 2.6 fixes: pyflakes and pep8 compliance

* Andy Caldwell <andy.m.caldwell@googlemail.com>
* Bugfix related to reusing connections in indeterminate states.

* Ville Skytt <ville.skytta@iki.fi>
* Logging efficiency improvements, spelling fixes, Travis config.

* Shige Takeda <smtakeda@gmail.com>
* Started Recipes documentation and added a recipe about handling concatenated gzip data in HTTP response

* Jess Shapiro <jesse@jesseshapiro.net>
* Various character-encoding fixes/tweaks
* Disabling IPv6 DNS when IPv6 connections not supported

* David Foster <http://dafoster.net/>
* Ensure order of request and response headers are preserved.

* Jeremy Cline <jeremy@jcline.org>
* Added connection pool keys by scheme

* Aviv Palivoda <palaviv@gmail.com>
* History list to Retry object.
* HTTPResponse contains the last Retry object.

* Nate Prewitt <nate.prewitt@gmail.com>
* Ensure timeouts are not booleans and greater than zero.
* Fixed infinite loop in `stream` when amt=None.
* Added length_remaining to determine remaining data to be read.
* Added enforce_content_length to raise exception when incorrect content-length received.

* Seth Michael Larson <sethmichaellarson@protonmail.com>
* Created selectors backport that supports PEP 475.

* Alexandre Dias <alex.dias@smarkets.com>
* Don't retry on timeout if method not in whitelist

* Moinuddin Quadri <moin18@gmail.com>
* Lazily load idna package

* Tom White <s6yg1ez3@mail2tor.com>
* Made SOCKS handler differentiate socks5h from socks5 and socks4a from socks4.

* Tim Burke <tim.burke@gmail.com>
* Stop buffering entire deflate-encoded responses.

* Tuukka Mustonen <tuukka.mustonen@gmail.com>
* Add counter for status_forcelist retries.
* Erik Rose <erik@mozilla.com>
  * Bugfix to pyopenssl vending

* Wolfgang Richter <wolfgang.richter@gmail.com>
  * Bugfix related to loading full certificate chains with PyOpenSSL backend.

* Mike Miller <github@mikeage.net>
  * Logging improvements to include the HTTP(S) port when opening a new connection

* Ioannis Tziakos <mail@itziakos.gr>
  * Fix ```util.selectors._fileobj_to_fd``` to accept ```long```
  * Update appveyor tox setup to use the 64bit python.

* Akamai (through Jess Shapiro) <jshapiro@akamai.com>
  * Ongoing maintenance; 2017-2018

* Dominique Leuenberger <dimstar@opensuse.org>
  * Minor fixes in the test suite

* Will Bond <will@wbond.net>
  * Add Python 2.6 support to ```contrib.securetransport```

* Aleksei Alekseev <alekseev.yeskela@gmail.com>
  * using auth info for socks proxy

* Chris Wilcox <git@crwilcox.com>
  * Improve contribution guide
  * Add ```HTTPResponse.geturl``` method to provide ```urllib2.urlopen().geturl()``` behavior

* Bruce Merry <https://www.brucemerry.org.za>
  * Fix leaking exceptions when system calls are interrupted with zero timeout

* Hugo van Kemenade <https://github.com/hugovk>
  * Drop support for EOL Python 2.6

* Tim Bell <https://github.com/timb07>
  * Bugfix for responses with Content-Type: message/* logging warnings

* Justin Bramley <https://github.com/jbramleycl>
  * Add ability to handle multiple Content-Encodings

* Katsuhiko YOSHIDA <https://github.com/kyoshidajp>
  * Remove Authorization header regardless of case when redirecting to cross-site

* James Meickle <https://permadeath.com/>
  * Improve handling of Retry-After header
* Chris Jerdonek <chris.jerdonek@gmail.com>
  * Remove a spurious TypeError from the exception chain inside
    HTTPConnectionPool._make_request(), also for BaseExceptions.

* Jorge Lopez Silva <https://github.com/jalopezsilva>
  * Added support for forwarding requests through HTTPS proxies.

* Benno Rice <benno@jeamland.net>
  * Allow cadata parameter to be passed to underlying `SSLContext.load_verify_locations()`.

* Keiichi Kobayashi <abok.1k@gmail.com>
  * Rename VerifiedHTTPSConnection to HTTPSConnection

* Himanshu Garg <garg_himanshu@outlook.com>
  * DOC & LICENSE Update

* Hod Bin Noon <bin.noon.hod@gmail.com>
  * Test improvements

* Chris Olufson <tycarac@gmail.com>
  * Fix for connection not being released on HTTP redirect and response not preloaded

* [Bastiaan Bakker] <https://github.com/bastiaanb>
  * Support for logging session keys via environment variable `SSLKEYLOGFILE` (Python 3.8+)

* [Ezzeri Esa] <https://github.com/savarin>
  * Ports and extends on types from typeshed

* [Your name or handle] <[email or website]>
  * [Brief summary of your changes]

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1.240 vue-router 3.5.1

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1.241 libxv 1.0.11-r2
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1.242 libvorbis 1.3.7-r0

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1.243 diffutils 3.7

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1.249 acl 2.2.53 1.el8

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1.253 throttle-debounce 1.1.0

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1.256 python-wadllib 1.3.3

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1.258 pyjwt 1.7.1

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1.262 busybox-initscripts 3.2-r2
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Metadata-Version: 1.1
Name: netifaces
Version: 0.10.6
Summary: Portable network interface information.
Home-page: https://bitbucket.org/al45tair/netifaces
Author: Alastair Houghton
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.. image:: https://drone.io/bitbucket.org/al45tair/netifaces/status.png
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1. What is this?
It's been annoying me for some time that there's no easy way to get the address(es) of the machine's network interfaces from Python. There is a good reason for this difficulty, which is that it is virtually impossible to do so in a portable manner. However, it seems to me that there should be a package you can easy_install that will take care of working out the details of doing so on the machine you're using, then you can get on with writing Python code without concerning yourself with the nitty gritty of system-dependent low-level networking APIs.

This package attempts to solve that problem.

2. How do I use it?

First you need to install it, which you can do by typing:

tar xvzf netifaces-0.10.6.tar.gz  
cd netifaces-0.10.6  
python setup.py install

**Note that you will need the relevant developer tools for your platform**, as netifaces is written in C and installing this way will compile the extension.

Once that's done, you'll need to start Python and do something like the following:

```python
>>> import netifaces

Then if you enter

```python
>>> netifaces.interfaces()
['lo0', 'gif0', 'stf0', 'en0', 'en1', 'fw0']
```  
you'll see the list of interface identifiers for your machine.

You can ask for the addresses of a particular interface by doing

```python
>>> netifaces.ifaddresses('lo0')
```

```json
{  18: [{'addr': ''}],  2: [{'peer': '127.0.0.1', 'netmask': '255.0.0.0', 'addr': '127.0.0.1'}],  30: [{'peer': ':1', 'netmask': 'ffff:ffff:ffff:ffff:ffff:ffff:ffff:ffff', 'addr': '::1'}, {'peer': '', 'netmask': 'ffff:ffff:ffff:ffff::', 'addr': 'fe80::1%lo0'}]
```

Hmmm. That result looks a bit cryptic; let's break it apart and explain what each piece means. It returned a dictionary, so let's look there first:

```json
{  18: [...],  2: [...],  30: [...] }
```
Each of the numbers refers to a particular address family. In this case, we have three address families listed; on my system, 18 is `"AF_LINK"` (which means the link layer interface, e.g. Ethernet), 2 is `"AF_INET"` (normal Internet addresses), and 30 is `"AF_INET6"` (IPv6).

But wait! Don't use these numbers in your code. The numeric values here are system dependent; fortunately, I thought of that when writing netifaces, so the module declares a range of values that you might need. e.g.

```python
>>> netifaces.AF_LINK
18
```

Again, on your system, the number may be different.

So, what we've established is that the dictionary that's returned has one entry for each address family for which this interface has an address. Let's take a look at the `"AF_INET"` addresses now:

```python
>>> addrs = netifaces.ifaddresses('lo0')
>>> addrs[netifaces.AF_INET]
[{'peer': '127.0.0.1', 'netmask': '255.0.0.0', 'addr': '127.0.0.1'}]
```

You might be wondering why this value is a list. The reason is that it's possible for an interface to have more than one address, even within the same family. I'll say that again: *you can have more than one address of the same type associated with each interface*.

*Asking for "the" address of a particular interface doesn't make sense.*

Right, so, we can see that this particular interface only has one address, and, because it's a loopback interface, it's point-to-point and therefore has a *peer* address rather than a broadcast address.

Let's look at a more interesting interface.

```python
>>> addrs = netifaces.ifaddresses('en0')
>>> addrs[netifaces.AF_INET]
[{'broadcast': '10.15.255.255', 'netmask': '255.240.0.0', 'addr': '10.0.1.4'}, {'broadcast': '192.168.0.255', 'addr': '192.168.0.47'}]
```

This interface has two addresses (see, I told you...) Both of them are regular IPv4 addresses, although in one case the netmask has been changed from its default. The netmask may not appear on your system if it's set to the default for the address range.

Because this interface isn't point-to-point, it also has broadcast addresses.

Now, say we want, instead of the IP addresses, to get the MAC address; that
is, the hardware address of the Ethernet adapter running this interface. We can do

```python
>>> addrs[netifaces.AF_LINK]
[['addr': '00:12:34:56:78:9a']]
```

Note that this may not be available on platforms without getifaddrs(), unless they happen to implement "SIOCGIFHWADDR". Note also that you just get the address; it's unlikely that you'll see anything else with an "AF_LINK" address.

Oh, and don't assume that all "AF_LINK" addresses are Ethernet; you might, for instance, be on a Mac, in which case:

```python
>>> addrs = netifaces.ifaddresses('fw0')
>>> addrs[netifaces.AF_LINK]
[['addr': '00:12:34:56:78:9a:bc:de']]
```

No, that isn't an exceptionally long Ethernet MAC address---it's a FireWire address.

As of version 0.10.0, you can also obtain a list of gateways on your machine:

```python
>>> netifaces.gateways()
{2: [('10.0.1.1', 'en0', True), ('10.2.1.1', 'en1', False)], 30: [('fe80::1', 'en0', True), 'default': { 2: ('10.0.1.1', 'en0'), 30: ('fe80::1', 'en0') }}
```

This dictionary is keyed on address family---in this case, "AF_INET"---and each entry is a list of gateways as "(address, interface, is_default)" tuples. Notice that here we have two separate gateways for IPv4 ("AF_INET"); some operating systems support configurations like this and can either route packets based on their source, or based on administratively configured routing tables.

For convenience, we also allow you to index the dictionary with the special value "default", which returns a dictionary mapping address families to the default gateway in each case. Thus you can get the default IPv4 gateway with

```python
>>> gws = netifaces.gateways()
>>> gws['default'][netifaces.AF_INET]
('10.0.1.1', 'en0')
```

Do note that there may be no default gateway for any given address family; this is currently very common for IPv6 and much less common for IPv4 but it can happen even for "AF_INET".

BTW, if you're trying to configure your machine to have multiple gateways for the same address family, it's a very good idea to check the documentation for your operating system *very* carefully, as some systems become extremely confused or route packets in a non-obvious manner.
I'm very interested in hearing from anyone (on any platform) for whom the `gateways()` method doesn't produce the expected results. It's quite complicated extracting this information from the operating system (whichever operating system we're talking about), and so I expect there's at least one system out there where this just won't work.

3. This is great! What platforms does it work on?
-----------------------------------------------

It gets regular testing on OS X, Linux and Windows. It has also been used successfully on Solaris, and it's expected to work properly on other UNIX-like systems as well. If you are running something that is not supported, and wish to contribute a patch, please use BitBucket to send a pull request.

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

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5. Why the jump to 0.10.0?
--------------------------

Because someone released a fork of netifaces with the version 0.9.0. Hopefully skipping the version number should remove any confusion. In addition starting with 0.10.0 Python 3 is now supported and other features/bugfixes have been included as well. See the CHANGELOG for a more complete list of changes.
1. What is this?

It's been annoying me for some time that there's no easy way to get the address(es) of the machine's network interfaces from Python. There is a good reason for this difficulty, which is that it is virtually impossible to do so in a portable manner. However, it seems to me that there should be a package you can easy_install that will take care of working out the details of doing so on the machine you're using, then you can get on with writing Python code without concerning yourself with the nitty gritty of system-dependent low-level networking APIs.

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python setup.py install
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Once that's done, you'll need to start Python and do something like the following::

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>>> import netifaces
```

Then if you enter

```
>>> netifaces.interfaces()
['lo0', 'gif0', 'stf0', 'en0', 'en1', 'fw0']
```

you'll see the list of interface identifiers for your machine.

You can ask for the addresses of a particular interface by doing

```
>>> netifaces.ifaddresses('lo0')
{18: [dict(...)], 2: [dict(...)], 30: [dict(...)]}
```

Hmmm. That result looks a bit cryptic; let's break it apart and explain what each piece means. It returned a dictionary, so let's look there first::

```
{ 18: [...], 2: [...] 30: [...] }
```

Each of the numbers refers to a particular address family. In this case, we have three address families listed; on my system, 18 is `AF_LINK` (which means the link layer interface, e.g. Ethernet), 2 is `AF_INET` (normal Internet addresses), and 30 is `AF_INET6` (IPv6).

But wait! Don't use these numbers in your code. The numeric values here are system dependent; fortunately, I thought of that when writing netifaces, so the module declares a range of values that you might need. e.g.

```
>>> netifaces.AF_LINK
18
```
Again, on your system, the number may be different.

So, what we've established is that the dictionary that's returned has one entry for each address family for which this interface has an address. Let's take a look at the `AF_INET` addresses now:

```python
>>> addrs = netifaces.ifaddresses('lo0')
>>> addrs[netifaces.AF_INET]
[['peer': '127.0.0.1', 'netmask': '255.0.0.0', 'addr': '127.0.0.1']]
```

You might be wondering why this value is a list. The reason is that it's possible for an interface to have more than one address, even within the same family. I'll say that again: *you can have more than one address of the same type associated with each interface*.

*Asking for "the" address of a particular interface doesn't make sense.*

Right, so, we can see that this particular interface only has one address, and, because it's a loopback interface, it's point-to-point and therefore has a *peer* address rather than a broadcast address.

Let's look at a more interesting interface.

```python
>>> addrs = netifaces.ifaddresses('en0')
>>> addrs[netifaces.AF_INET]
[['broadcast': '10.15.255.255', 'netmask': '255.240.0.0', 'addr': '10.0.1.4'], {'broadcast': '192.168.0.255', 'addr': '192.168.0.47'}]
```

This interface has two addresses (see, I told you...) Both of them are regular IPv4 addresses, although in one case the netmask has been changed from its default. The netmask *may not* appear on your system if it's set to the default for the address range.

Because this interface isn't point-to-point, it also has broadcast addresses.

Now, say we want, instead of the IP addresses, to get the MAC address; that is, the hardware address of the Ethernet adapter running this interface. We can do

```python
>>> addrs[netifaces.AF_LINK]
[['addr': '00:12:34:56:78:9a']]
```

Note that this may not be available on platforms without getifaddrs(), unless they happen to implement `SIOCGIFHWADDR`. Note also that you just get the address; it's unlikely that you'll see anything else with an `AF_LINK` address. Oh, and don't assume that all `AF_LINK` addresses are Ethernet; you might, for instance, be on a Mac, in which case:
No, that isn't an exceptionally long Ethernet MAC address---it's a FireWire address.

As of version 0.10.0, you can also obtain a list of gateways on your machine:

```python
>>> netifaces.gateways()
{2: [('10.0.1.1', 'en0', True), ('10.2.1.1', 'en1', False)], 30: [('fe80::1', 'en0', True)], 'default': { 2: ('10.0.1.1', 'en0'), 30: ('fe80::1', 'en0') }}
```

This dictionary is keyed on address family---in this case, ``AF_INET``---and each entry is a list of gateways as ``(address, interface, is_default)`` tuples.

Notice that here we have two separate gateways for IPv4 (``AF_INET``); some operating systems support configurations like this and can either route packets based on their source, or based on administratively configured routing tables.

For convenience, we also allow you to index the dictionary with the special value ``'default'``, which returns a dictionary mapping address families to the default gateway in each case. Thus you can get the default IPv4 gateway with

```python
>>> gws = netifaces.gateways()
>>> gws['default'][netifaces.AF_INET]
('10.0.1.1', 'en0')
```

Do note that there may be no default gateway for any given address family; this is currently very common for IPv6 and much less common for IPv4 but it can happen even for ``AF_INET``.

BTW, if you're trying to configure your machine to have multiple gateways for the same address family, it's a very good idea to check the documentation for your operating system *very* carefully, as some systems become extremely confused or route packets in a non-obvious manner.

I'm very interested in hearing from anyone (on any platform) for whom the ``gateways()`` method doesn't produce the expected results. It's quite complicated extracting this information from the operating system (whichever operating system we're talking about), and so I expect there's at least one system out there where this just won't work.

3. This is great! What platforms does it work on?

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

It gets regular testing on OS X, Linux and Windows. It has also been used successfully on Solaris, and it's expected to work properly on other UNIX-like
systems as well. If you are running something that is not supported, and wish to contribute a patch, please use BitBucket to send a pull request.

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

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5. Why the jump to 0.10.0?
--------------------------

Because someone released a fork of netifaces with the version 0.9.0. Hopefully skipping the version number should remove any confusion. In addition starting with 0.10.0 Python 3 is now supported and other features/bugfixes have been included as well. See the CHANGELOG for a more complete list of changes.

Found in path(s):
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 * Rob Earhart
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1.267 click 7.1.2
1.267.1 Available under license:
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.. _contrib:

=============
click-contrib
=============

As the userbase of Click grows, more and more major feature requests pop up in Click's bugtracker. As reasonable as it may be for those features to be bundled with Click instead of being a standalone project, many of those requested features are either highly experimental or have unproven practical use, while potentially being a burden to maintain.

This is why click-contrib_ exists. The GitHub organization is a collection of possibly experimental third-party packages whose featureset does not belong into Click, but also a playground for major features that may be added to Click in the future. It is also meant to coordinate and concentrate effort on writing third-party extensions for Click, and to ease the effort of searching for such extensions. In that sense it could be described as a low-maintenance alternative to extension repositories of other frameworks.

Please note that the quality and stability of those packages may be different than what you expect from Click itself. While published under a common organization, they are still projects separate from Click.

.. _click-contrib: https://github.com/click-contrib/

Found in path(s):
* /opt/cola/permits/1144331308_1615905579.47/0/pallets-click-7-1-2-0-g1784558-1-tar-gz/pallets-click-
import io
import re

from setuptools import find_packages
from setuptools import setup

with io.open("README.rst", "rt", encoding="utf8") as f:
    readme = f.read()

with io.open("src/click/__init__.py", "rt", encoding="utf8") as f:
    version = re.search(r'__version__ = "(.*)"', f.read()).group(1)

setup(
    name="click",
    version=version,
    url="https://palletsprojects.com/p/click/",
    project_urls={
        "Documentation": "https://click.palletsprojects.com/",
        "Code": "https://github.com/pallets/click",
        "Issue tracker": "https://github.com/pallets/click/issues",
    },
    license="BSD-3-Clause",
    maintainer="Pallets",
    maintainer_email="contact@palletsprojects.com",
    description="Composable command line interface toolkit",
    long_description=readme,
    packages=find_packages("src"),
    package_dir={"": "src"},
    package_data=True,
    python_requires=">=2.7, !=3.0.*, !=3.1.*, !=3.2.*, !=3.3.*, !=3.4.*",
    classifiers=[
        "Development Status :: 5 - Production/Stable",
        "Intended Audience :: Developers",
        "License :: OSI Approved :: BSD License",
        "Operating System :: OS Independent",
        "Programming Language :: Python",
        "Programming Language :: Python :: 2",
        "Programming Language :: Python :: 3",
    ],
)

Found in path(s):
/ opt/ cola/ permits/ 1 14 4331308_ 1615905579. 47/ 0/ pallets-click-7- 1- 2- 0- g1784558- 1- tar-gz/ pallets-click-1784558/ setup.py
No license file was found, but licenses were detected in source scan.

# binary only, patch it back to the system, and then use a wrapper

Found in path(s):
* /opt/cola/permits/1144331308_1615905579.47/0/pallets-click-7-1-2-0-g1784558-1-tar-gz/pallets-click-1784558/src/click/_compat.py

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Found in path(s):
* /opt/cola/permits/1144331308_1615905579.47/0/pallets-click-7-1-2-0-g1784558-1-tar-gz/pallets-click-
1784558/src/click/parser.py
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Including attribution to #612

Found in path(s):
* /opt/cola/permits/1144331308_1615905579.47/0/pallets-click-7-1-2-0-g1784558-1-tar-gz/pallets-click-
1784558/tests/test_formatting.py

1.268 gpgme 1.13.1
1.268.1 Available under license :

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1.275 dnf-plugin-spacewalk 2.8.5

11.module_el8.1.0+211+ad6c0bc7

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Linus Torvalds

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## Commands to generate dependency files
GEN_DEPS.c=$(CC) -E -MM $(DEFS) $(CPPFLAGS)
GEN_DEPS.cc=$(CXX) -E -MM $(DEFS) $(CPPFLAGS)

## Flags for position independent code
SHAREDLIBCFLAGS = -fPIC
SHAREDLIBCXXFLAGS = -fPIC
SHAREDLIBCXXFLAGS = -fPIC

## Additional flags when building libraries and with threads
THREADSCPPFLAGS = -D_REENTRANT
LIBCPPFLAGS =

## Compiler switch to embed a runtime search path
LD_RPATH=
LD_RPATH_PRE=-Wl,-rpath,

## Compiler switch to embed a library name
LD_SONAME = -Wl,-soname -Wl,$(notdir $(MIDDLE_SO_TARGET))

## Shared library options
LD_SOOPTIONS= -Wl,-Bsymbolic

## Shared object suffix
SO = so

## Non-shared intermediate object suffix
STATIC_O = ao

## Compilation rules
%.$(STATIC_O): $(srcdir)/%.c
$(COMPILE.c) $(STATICCPPFLAGS) $(STATICCFLAGS) -o $@ $<
%.o: $(srcdir)/%.c
$(COMPILE.c) $(DYNAMICCPPFLAGS) $(DYNAMICCFLAGS) -o $@ $<

%.$(STATIC_O): $(srcdir)/%.cpp
$(COMPILE.cc) $(STATICCPPFLAGS) $(STATICCXXFLAGS) -o $@ $<
```

%.o: $(srcdir)/%.cpp
$(COMPILEx.cc) $(DYNAMICCPPFLAGS) $(DYNAMICCXXFLAGS) -o $@ $<

## Dependency rules
%.d: $(srcdir)/%.c
@echo "generating dependency information for $<"
$(SHELL) -ec "$\(GEN\_DEPS\).c $<$ \
| sed s/\$\(\%\)\.$\(\$\)\.$\(\$\)\.$\(\$\)/$\1\.$\@ : /g\" > $@; \
[-s $@ ] || rm -f $@

%.d: $(srcdir)/%.cpp
@echo "generating dependency information for $<"
$(SHELL) -ec "$\(GEN\_DEPS\).cc $<$ \
| sed s/\$\(\%\)\.$\(\$\)\.$\(\$\)\.$\(\$\)/$\1\.$\@ : /g\" > $@; \
[-s $@ ] || rm -f $@

## Versioned libraries rules
%.\$.\(SO\).\$(SO\_TARGET\_VERSION\_MAJOR): %.\$.\(SO\).\$(SO\_TARGET\_VERSION)
$(RM) $@ && ln -s ${<F} $@
%.\$.\(SO\): %.\$.\(SO\).\$(SO\_TARGET\_VERSION\_MAJOR)
$(RM) $@ && ln -s ${*F}.\$.\$(SO\_TARGET\_VERSION) $@

## Bind internal references

# LDflags that pkgdata will use
BIR\_LDFLAGS= -Wl,-Bsymbolic

# Dependencies [i.e. map files] for the final library
BIR\_DEPS=

## Remove shared library 's'
STATIC\_PREFIX\_WHEN\_USED =
STATIC\_PREFIX =

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1.281 gsettings-desktop-schemas 3.32.0 5.el8

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### 1.282 libxmlb 0.1.15

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1.290 cron 3.0pl1

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* /opt/cola/permits/1097313584_1611670802.24/0/cron-3-0pl1-orig-tar-bz2/cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/cron.h
* /opt/cola/permits/1097313584_1611670802.24/0/cron-3-0pl1-orig-tar-bz2/cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/do_command.c
* /opt/cola/permits/1097313584_1611670802.24/0/cron-3-0pl1-orig-tar-bz2/cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/cron.c
* /opt/cola/permits/1097313584_1611670802.24/0/cron-3-0pl1-orig-tar-bz2/cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/user.c
* /opt/cola/permits/1097313584_1611670802.24/0/cron-3-0pl1-orig-tar-bz2/cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/database.c
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"$Id: crontab.1,v 2.4 1993/12/31 10:47:33 vixie Exp$
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$Id: INSTALL,v 2.5 1994/01/15 20:43:43 vixie Exp $

Read the comments at the top of the Makefile, then edit the area marked 'configurable stuff'.

Edit config.h. The stuff I expect you to change is down a bit from the top of the file, but it's clearly marked. Also look at pathnames.h.

You don't have to create the /var/cron or /var/cron/tabs directories, since both the daemon and the `crontab' program will do this the first time they run if they don't exist. You do need to have a /var, though -- just "mkdir /var" if you don't have one, or you can "mkdir /usr/var; ln -s /usr/var /var" if you expect your /var to have a lot of stuff in it.

You will also need /usr/local/etc and /usr/local/bin directories unless you change the Makefile. These will have to be created by hand, but if you are a long-time Usenet user you probably have them already. /usr/local/man is where I keep my man pages, but I have the source for `man' and you probably do not. Therefore you may have to put the man pages into /usr/man/manl, which will be hard since there will be name collisions. (Note that the man command was originally written by Bill Joy before he left Berkeley, and it contains no AT&T code, so it is in UUNET's archive of freely-distributable BSD code.)

LINUX note: /usr/include/paths.h on some linux systems shows _PATH_SENDMAIL to be /usr/bin/sendmail even though sendmail is installed in /usr/lib.
you should check this out.

say:
make all

su and say:
make install

Note that if I can get you to "su and say" something just by asking, you have a very serious security problem on your system and you should look into it.

Edit your /usr/lib/crontab file into little pieces -- see the CONVERSION file for help on this.

Use the `crontab' command to install all the little pieces you just created.
Some examples (see below before trying any of these!)

crontab -u uucp -r /usr/lib/uucp/crontab.src

crontab -u news -r /usr/lib/news/crontab.src

crontab -u root -r /usr/adm/crontab.src

Notes on above examples: (1) the .src files are copied at the time the command is issued; changing the source files later will have no effect until they are reinstalled with another `crontab -r' command. (2) The crontab command will affect the crontab of the person using the command unless `-u USER' is given; `-u' only works for root. When using most `su' commands under most BSD's, `crontab' will still think of you as yourself even though you may think of yourself as root -- so use `-u' liberally. (3) the `-r' option stands for `replace'; check the man page for crontab(1) for other possibilities.

Kill your existing cron daemon -- do `ps aux' and look for /etc/cron.

Edit your /etc/rc or /etc/rc.local, looking for the line that starts up /etc/cron. Comment it out and add a line to start the new cron daemon -- usually /usr/local/etc/cron, unless you changed it in the Makefile.

Start up this cron daemon yourself as root. Just type /usr/local/etc/cron (or whatever); no `&' is needed since the daemon forks itself and the process you executed returns immediately.

ATT notes: for those people unfortunate enough to be stuck on a AT&T UNIX, you will need the public-domain "libndir", found in the B News source and in any comp.sources.unix archive. You will also need to hack the code some.

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Vixie Cron V3.0
December 27, 1993
[V2.2 was some time in 1992]
[V2.1 was May 29, 1991]
[V2.0 was July 5, 1990]
[V2.0-beta was December 9, 1988]
[V1.0 was May 6, 1987]
Paul Vixie

This is a version of `cron` that is known to run on BSD 4.[23] systems. It
is functionally based on the SysV cron, which means that each user can have
their own crontab file (all crontab files are stored in a read-protected
directory, usually /var/cron/tabs). No direct support is provided for
`at'; you can continue to run `atrun' from the crontab as you have been
doing. If you don't have atrun (i.e., System V) you are in trouble.

A messages is logged each time a command is executed; also, the files
"allow" and "deny" in /var/cron can be used to control access to the
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To use this: Sorry, folks, there is no cutesy 'Configure' script. You'll have to go edit a couple of files... So, here's the checklist:

Read all the FEATURES, INSTALL, and CONVERSION files
Edit config.h
Edit Makefile
(both of these files have instructions inside; note that some things in config.h are definable in Makefile and are therefore surrounded by #ifndef...#endif)
'make'
'su' and 'make install'
(you may have to install the man pages by hand)
kil your existing cron process
(actually you can run your existing cron if you want, but why?)
build new crontabs using /usr/lib/{crontab,crontab.local}
(either put them all in "root"'s crontab, or divide it up and rip out all the 'su' commands, collapse the lengthy lists into ranges with steps -- basically, this step is as much work as you want to make it)
start up the new cron
(must be done as root)
watch it. test it with 'crontab -r' and watch the daemon track your changes.
if you like it, change your /etc/{rc,rc.local} to use it instead of the old one.

$Id: README,v 2.3 1993/12/28 08:34:43 vixie Exp $

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(For example, a function in a library to compute square roots has
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1.292 pcre2 10.34

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THE BASIC LIBRARY FUNCTIONS

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1.293 libgcrypt 1.8.5

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 * Rob Earhart
 * Rob Siemborski
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## Commands to generate dependency files
GEN_DEPS.c=$(CC) -E -MM $(DEFS) $(CPPFLAGS)
GEN_DEPS.cc=$(CXX) -E -MM $(DEFS) $(CPPFLAGS)

## Flags for position independent code
SHAREDLIBCFLAGS = -fPIC
SHAREDLIBCXXFLAGS = -fPIC
SHAREDLIBCXXFLAGS = -DPIC

## Additional flags when building libraries and with threads
THREADSCPPFLAGS = -D_REENTRANT
LIBCPPFLAGS =

## Compiler switch to embed a runtime search path
LD_RPATH=
LD_RPATH_PRE=-Wl,-rpath,

## Compiler switch to embed a library name
LD_SONAME = -Wl,-soname -Wl,$(notdir $(MIDDLE_SO_TARGET))

## Shared library options
LD_SOOPTIONS= -Wl,-Bsymbolic
## Shared object suffix
SO = so

## Non-shared intermediate object suffix
STATIC_O = ao

## Compilation rules
%.$(STATIC_O): $(srcdir)/%.c
$(COMPILE.c) $(STATICCPPFLAGS) $(STATICCFLAGS) -o $@ $<
%.o: $(srcdir)/%.c
$(COMPILE.c) $(DYNAMICCPPFLAGS) $(DYNAMICCFLAGS) -o $@ $<

%.$(STATIC_O): $(srcdir)/%.cpp
$(COMPILE.cc) $(STATICCPPFLAGS) $(STATICCXXFLAGS) -o $@ $<
%.o: $(srcdir)/%.cpp
$(COMPILE.cc) $(DYNAMICCPPFLAGS) $(DYNAMICCXXFLAGS) -o $@ $<

## Dependency rules
%.d: $(srcdir)/%.c
@echo "generating dependency information for $<"
@$(SHELL) -ec "$(GEN_DEPS.c) $< \n| sed \"s|$*
\.o\[ :\]*/|$\1.o $@ : /\" > $@ ;\n[ -s $@ ] \| rm -f $@"'

%.d: $(srcdir)/%.cpp
@echo "generating dependency information for $<"
@$(SHELL) -ec "$(GEN_DEPS.cc) $< \n| sed \"s|$*
\.o\[ :\]*/|$\1.o $@ : /\" > $@ ;\n[ -s $@ ] \| rm -f $@"'

## Versioned libraries rules
%.$(SO).$(SO_TARGET_VERSION_MAJOR): %.$(SO).$(SO_TARGET_VERSION)
$(RM) $@ && ln -s ${<F} $@
%.$(SO): %.$(SO).$(SO_TARGET_VERSION_MAJOR)
$(RM) $@ && ln -s ${*F}.$(SO).$(SO_TARGET_VERSION) $@

## Bind internal references

# LDflags that pkgdata will use
BIR_LDFLAGS= -Wl,-Bsymb

# Dependencies [i.e. map files] for the final library
BIR_DEPS=

## Remove shared library 's'
STATIC_PREFIX_WHEN_USED =
## End BSD-specific setup

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1.310 kerberos 1.18.2 5.el8

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cmd/krb5/iprop/iprop_hdr.h
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cmd/krb5/kproplog/kproplog.c
cmd/krb5/slave/kpropd_rpc.c
lib/gss_mechs/mech_krb5/et/kdb5_err.c
lib/gss_mechs/mech_spnego/mech/gssapiP_spnego.h
lib/gss_mechs/mech_spnego/mech/spnego_mech.c
lib/krb5/kadm5/kadm_host_srv_names.c
lib/krb5/kdb/kdb_convert.c
lib/krb5/kdb/kdb_hdr.h
lib/krb5/kdb/kdb_log.c
lib/krb5/kdb/kdb_log.h
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lib/libgss/g_inquire_names.c
lib/libgss/g_process_context.c
lib/libgss/g_rel_buffer.c
lib/libgss/g_rel_cred.c
lib/libgss/g_rel_name.c
lib/libgss/g_rel_oid_set.c
lib/libgss/g_seal.c
lib/libgss/g_sign.c
lib/libgss/g_store_cred.c
lib/libgss/g_unseal.c
lib/libgss/g_userok.c
lib/libgss/g_utils.c
lib/libgss/g_verify.c
lib/gssd_pname_to_uid.c
uts/common/gssapi/include/gssapi_err_generic.h
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"src/lib/gssapi", including the following files:

lib/gssapi/generic/gssapi_err_generic.et
lib/gssapi/mechglue/g_accept_sec_context.c
lib/gssapi/mechglue/g_acquire_cred.c
lib/gssapi/mechglue/g_canon_name.c
lib/gssapi/mechglue/g_compare_name.c
lib/gssapi/mechglue/g_context_time.c
lib/gssapi/mechglue/g_delete_sec_context.c
lib/gssapi/mechglue/g_dsp_name.c
lib/gssapi/mechglue/g_dsp_status.c
lib/gssapi/mechglue/g_dup_name.c
lib/gssapi/mechglue/g_exp_sec_context.c
lib/gssapi/mechglue/g_export_name.c
lib/gssapi/mechglue/g_glue.c
lib/gssapi/mechglue/g_imp_name.c
lib/gssapi/mechglue/g_imp_sec_context.c
lib/gssapi/mechglue/g_init_sec_context.c
lib/gssapi/mechglue/g_initialize.c
lib/gssapi/mechglue/g_inquire_context.c
lib/gssapi/mechglue/g_inquire_cred.c
lib/gssapi/mechglue/g_inquire_names.c
lib/gssapi/mechglue/g_process_context.c
lib/gssapi/mechglue/g_rel_buffer.c
lib/gssapi/mechglue/g_rel_cred.c
lib/gssapi/mechglue/g_rel_name.c
lib/gssapi/mechglue/g_rel_oid_set.c
lib/gssapi/mechglue/g_seal.c
lib/gssapi/mechglue/g_sign.c
lib/gssapi/mechglue/g_store_cred.c
lib/gssapi/mechglue/g_unseal.c
lib/gssapi/mechglue/g_userok.c
lib/gssapi/mechglue/g_utils.c
lib/gssapi/mechglue/g_verify.c
lib/gssapi/mechglue/gssd_pname_to_uid.c
lib/gssapi/mechglue/mglueP.h
lib/gssapi/mechglue/oid_ops.c
lib/gssapi/spnego/gssapiP_spnego.h
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1.318 ttf-dejavu 2.37-r1

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1.325 perl 5.30.0
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Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.6 of 6 September 2010
---
abstract: 'Build and install Perl modules'
author:
- 'Ken Williams <kwilliams@cpan.org>'
- "Development questions, bug reports, and patches should be sent to the Module-Build mailing list at <module-build@perl.org>.
build_requires:
  File::Temp: 0.15
  Test::Harness: 3.16
  Test::More: 0.49
generated_by: 'Module::Build version 0.3608'
license: gpl
meta-spec:
  url: http://module-build.sourceforge.net/META-spec-v1.4.html
  version: 1.4
name: Module-Build
resources:
  MailingList: mailto:module-build@perl.org
  license: http://dev.perl.org/licenses/
  repository: http://github.com/dagolden/module-build/
  version: 3

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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) 19xx name of author
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  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.

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school, if any, to sign a "copyright disclaimer" for the program, if
necessary. Here a sample; alter the names:

  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
That's all there is to it!

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The End
#!perl

=head1 NAME

copyright.t

=head1 DESCRIPTION

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

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

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

=cut

use strict;
use Config;
BEGIN { require './test.pl' }

if ( $Config{usecrosscompile} ) {
    skip_all( "Not all files are available during cross-compilation" );
}

my ($opt) = @ARGV;

my $readme_year = readme_year;
my $v_year = v_year;

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

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

done_testing;

sub readme_year
# returns the latest copyright year from the top-level README file
{
open my $readme, '<', '../README' or die "Opening README failed: $!";

# The copyright message is the first paragraph:
local $/ = " ;
my $copyright_msg = <$readme>;

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

sub v_year
# returns the latest copyright year shown in perl -v
{
my $output = runperl switches => ['-v'];
my ($year) = $output =~ /copyright 1987.*\b(\d{4,})/i
    or die "Copyright statement not found in perl -v output "$output"";
$year;
}
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<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

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1.327 swagger-ui-bundle 0.0.8

1.327.1 Available under license :

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

Metadata-Version: 1.1
Name: swagger-ui-bundle
Version: 0.0.8
Summary: swagger_ui_bundle - swagger-ui files in a pip package
Home-page: https://github.com/dtkav/swagger_ui_bundle
Author: Daniel Grossmann-Kavanagh
Author-email: UNKNOWN
License: Apache License Version 2.0
Description: swagger_ui_bundle

=================

This package contains the static files for swagger-ui as a python package.

Basic configuration options are templated with the Jinja2 templating language.

This package is intended to be webserver-agnostic, so it only includes the static files, and some very basic configuration.

Getting Started

==============

You can import the swagger_ui_path from the swagger_ui_bundle package like so:

.. code-block:: python

    from swagger_ui_bundle import swagger_ui_path

    # or if you need a specific version
    from swagger_ui_bundle import swagger_ui_2_path
    from swagger_ui_bundle import swagger_ui_3_path

You can easily serve up this directory as all static files to get the default swagger-ui distribution. Here’s an example in flask:

.. code-block:: python
from swagger_ui_bundle import swagger_ui_path

from flask import Flask, Blueprint, send_from_directory, render_template

swagger_bp = Blueprint('swagger_ui', __name__,
                        static_url_path='',
                        static_folder=swagger_ui_path,
                        template_folder=swagger_ui_path)

app = Flask(__name__, static_url_path="")
app.register_blueprint(swagger_bp, url_prefix="/ui")

if __name__ == '__main__':
    app.run()

You may wish to override some of the configuration variables. Included is a jinja2 templated file where you can modify these parameters. You can add another route to render this template with your desired configuration like so:

.. code-block:: python

    SWAGGER_UI_CONFIG = {
        "openapi_spec_url": "https://petstore.swagger.io/v2/swagger.json"
    }

    @swagger_bp.route('/
    def swagger_ui_index():
        return render_template('index.j2', **SWAGGER_UI_CONFIG)

Have a look at `example.py` for a complete server for the Flask webserver.

License
=======

Since this is just repackaging swagger-ui releases, the license comes from the swagger ui project (https://github.com/swagger-api/swagger-ui).

All vendored code is published by SmartBear Software under the Apache 2.0 License.

Keywords: swagger-ui
Platform: UNKNOWN
Classifier: Programming Language :: Python
Authorization URL:

Token URL:

Please input username and password for password flow authorization

Username: <input class="oauth-username" type="text" name="username"

Password: <input class="oauth-password" type="password" name="password"

Setup client authentication.

Option value: "none"

Basic auth

Option value: "request-body"

Request body

Client Id: <input class="oauth-client-id" type="text" name="client-id"

Client secret: <input class="oauth-client-secret" type="text" name="client-secret"

Type:

None or other

Basic auth

Request body

Scope: <input class="oauth-scope" type="checkbox" data-scope="" oauthtype=""/>

label: <br/>

desc: <br/>

false

true

Scope: "none"

Scope: "basic"

Scope: "request-body"

"none"

"basic"

"request-body"

"none"

"basic"

"request-body"

Authorization URL:

Token URL:

Password:

Client Id:

Client secret:

Scope:

OAuth2.0

"Required"

Authentication.

"none"

"basic"

"request-body"

API requires the following scopes. Select which ones you want to grant to Swagger UI.

Scopes are used to grant an application different levels of access to data on behalf of the end user. Each API
may declare one or more scopes.

<a href="#" data-sw-translate>
Learn how to use</a>

<p data-sw-translate>
</p>

<ul data-sw-translate="true">
<li data-sw-translate="true">

<div data-sw-translate="true">

<h4 data-sw-translate="true">

Warning: Deprecated
</h4>

</div>

</li>

</ul>

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Implementation Notes
</h4>

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</p>

<br/>

</div>

<h4 data-sw-translate="true">

Response Class
</h4>

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<br/>

</div>

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Headers
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Header
</th>

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Description
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Type
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Other
</th>

</tr>

</thead>

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</tbody>

</table>

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Response Messages
</h4>

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<th data-sw-translate="true">

HTTP Status Code
</th>

<th data-sw-translate="true">

Reason
</th>

<th data-sw-translate="true">

Response Model
</th>

<th data-sw-translate="true">

Headers
</th>

</tr>

</thead>

<tbody data-sw-translate="true">

</tbody>

</table>

<h4 data-sw-translate="true">

Parameters
</h4>

<table data-sw-translate="true">

<thead data-sw-translate="true">

<tr data-sw-translate="true">

<th data-sw-translate="true">

Parameter
</th>

<th data-sw-translate="true">

Value
</th>

<th data-sw-translate="true">

Description
</th>

<th data-sw-translate="true">

Parameter Type
</th>

<th data-sw-translate="true">

Data Type
</th>

</tr>

</thead>

<tbody data-sw-translate="true">

</tbody>

</table>

<h4 data-sw-translate="true">

Other
</h4>

<div data-sw-translate="true">

<p data-sw-translate="true">

</p>

<br/>

</div>
Open Source Used in Cisco Modeling Labs 2.2

This document contains information about open-source technologies used in Cisco Modeling Labs 2.2. For more detailed information, please refer to the full documentation available on Cisco's website.
c(new e(1970,0,1,0,0,r));(for var o in e)
null
`throw new RangeError("Out of range index"); if (n < 0 || n >= this.length) throw new RangeError("sourceEnd out of bounds"); if (r < 0) throw new RangeError("sourceEnd out of bounds"); `
function s(t){P("ondata"),b=!1;var n=e.write(t);!1!==n||b||((1===f.pipesCount&&f.pipes===e||f.pipesCount>1&&k(f.pipes,e)!==-1)&&!v&&(P("false write response, pause","_readableState.awaitDrain"),h._readableState.awaitDrain++,h.pause()))}function l(t){P("onerror",t),p(),e.removeListener("error",l),0===D(e,"error")&&!e.emit("error",t)}function y(){P("onfinish"),e.removeListener("close",y),a.prototype.unpipe=function(e){var t=this._readableState;if(0===t.pipesCount)return this;if(1===t.pipesCount)return e?e!==t.pipes?this:(e||(e=t.pipes),t.pipes=null,t.pipesCount=0,t.flowing=!1,e&.&e.emit("unpipe","this"),this):if(!e){var n=t.pipes,r=t.pipesCount,t=t.pipesCount?t:0,t.flowing=!1;for(var i=0;i<r;i++)n[i].emit("unpipe","this");return this}var a=k(t.pipes,e);return a===-1?t.pipes.splice(a,1):t.pipesCount-1,1===t.pipesCount&&(t.pipes=t.pipes[0]),e.emit("unpipe",this),this},a.prototype.on=function(e,t){var n=I.prototype.on.call(this,e,t);if("data"===e)this._readableState.flowing!==!1&&this.resume();else if("readable"===e){var r=this._readableState;r.endEmitted||r.readableListening||(r.readableListening=r.needReadable=!0,r.emittedReadable=r.reading?r.length&&h(this,r):T(y,this))}return n},a.prototype.addListener=a.prototype.on,a.prototype.resume=function(){var e=this._readableState;return e.flowing||(P("resume"),e.flowing=!0,v(this,e)),this},a.prototype.pause=function(){return P("call pause flowi ng=%j",this._readableState.flowing),!1!==this._readableState.flowing&&(P("pause"),this._readableState.flowing=!1,this.emit("pause"),this)},a.prototype.wrap=function(e){var t=this._readableState,n=!1,r=this;e.on("end",function(){if(P("wrapped end"),t.decoder&&!t.ended){var e=t.decoder.end();e&&e.length&&r.push(e)}r.push(null)}),e.on("data",function(i){if(P("wrapped data"),t.decoder&&(i=t.decoder.write(i)),(!t.objectMode||null!==i&&void 0!==i)&&(t.objectMode||i&&i.length)){var a=r.push(i);a||(n=!0,e.pause())}});for(var i in e)void 0===this[i]&&"function"==typeof e[i]&&(this[i]=function(t){return e[i].apply(e,arguments)}(i));var a="error","close","destroy","pause","resume".split","return O(a,function(t){e.on(t,r.emit.bind(r,t))},!1)}},a.prototype._read=function(t){P("wrapped _read",t),n&(!n&!i.length)?)return a=r.push(i);a[i]="error","close","destroy","pause","resume".split","return O(a,function(t){e.on(t,r.emit.bind(r,t))},!1)}},a.prototype._read=function(t){P("wrapped _read",t),n&(!n&!i.length)?)return a=r.push(i);a[i]="error","close","destroy","pause","resume".split","return O(a,function(t){e.on(t,r.emit.bind(r,t))},!1)}},a.prototype._read=function(t){P("wrapped _read",t),n&(!n&!i.length)?)return a=r.push(i);a[i]="error","close","destroy","pause","resume".split","return O(a,function(t){e.on(t,r.emit.bind(r,t))},!1)}},a.prototype._read=function(t){P("wrapped _read",t),n&(!n&!i.length)?)return 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a=r.push(i);a[i]="error","close","destroy","pause","resume".split",return O(a,function(t){e.on(t,r.emit.bind(r,t))},!1)}},a.prototype._read=function(t){P("wrapped _read",t),n&(!n&!i.length)?)return a=r.push(i);a[i]="error","close","destroy","pause","resume".split",return O(a,function(t){e.on(t,r.emit.bind(r,t))},!1)}},a.prototype._read=function(t){P("wrapped _read",t),n&(!n&!i.length)?)return a=r.push(i);a[i]="error","close","destroy","pause","resume".split",return O(a,function(t){e.on(t,r.emit.bind(r,t))},!1)}},a.prototype._read=function(t){P("wrapped _read",t),n&(!n&!i.length)?)return a=r.push(i);a[i]="error","close","destroy","pause","resume".split",return O(a,function(t){e.on(t,r.emit.bind(r,t))},!1)}},a.prototype._read=function(t){P("wrapped _read",t),n&(!n&!i.length)?)return a=r.push(i);a[i]="error","close","destroy","pause","resume".split",return O(a,function(t){e.on(t,r.emit.bind(r,t))},!1)}},a.prototype._read=function(t){P("wrapped _read",t),n&(!n&!i.length)?)return a=r.push(i);a[i]="error","close","destroy","pause","resume".split",return O(a,function(t){e.on(t,r.emit.bind(r,t))},!1)}},a.prototype._read=function(t){P("wrapped _read",t),n&(!n&!i.length)?)return a=r.push(i);a[i]="error","close","destroy","pause","resume".split",return O(a,function(t){e.on(t,r.emit.bind(r,t))},!1)}},a.prototype._read=function(t){P("wrapped _read",t),n&(!n&!i.length)?)return a=r.push(i);a[i]="error","close","destroy","pause","resume".split",return O(a,function(t){e.on(t,r.emit.bind(r,t))},!1)}},a.prototype._read=function(t){P("wrapped _read",t),n&(!n&!i.length)?)return a=r.push(i);a[i]="error","close","destroy","pause","resume".split",return O(a,function(t){e.on(t,r.emit.bind(r,t))},!1)}},a.prototype._read=function(t){P("wrapped _read",t),n&(!n&!i.length)?)return a=r.push(i);a[i]="error","close","destroy","pause","resume".split",return O(a,function(t){e.on(t,r.emit.bind(r,t))},!1)}},a.prototype._read=function(t){P("wrapped _read",t),n&(!n&!i.length)?)return a=r.push(i);a[i]="error","close","destroy","pause","resume".split",return O(a,function(t){e.on(t,r.emit.bind(r,t))},!1)}},a.prototype._read=function(t){P("wrapped _read",t),n&(!n&!i.length)?)return a=r.push(i);a[i]="error","close","destroy","pause","resume".split",return O(a,function(t){e.on(t,r.emit.bind(r,t))},!1)}},a.prototype._read=function(t){P("wrapped _read",t),n&(!n&!i.length)?)return a=r.push(i);a[i]="error"
console.log('Open Source Used In Cisco Modeling Labs 2.2');
function H(e) { return J.toByteArray(B(e)) }

function Y(e, t, n, r) {
  for (var i = 0; i < r && !(i + n >= t.length || i >= e.length); i++)
    t[i + n] = e[i];
  return i;
}

var J = e(“base64-js”), W = e(“ieee754”), Q = e(“is-array”);

n.Buffer = i, n.SlowBuffer = g, n.INSPECT_MAX_BYTES = 50, i.poolSize = 8192;

G = {};

TYPED_ARRAY_SUPPORT = function() {
  try {
    var t = new Uint8Array(1);
    t.foo = function() {
      return 42;
    };
    i = t.constructor = e.42, t.constructor = null;
    return t;
  } catch (t) {
    return t;
  }
}

G.isBuffer = function(e) {
  return !(null == e || !e._isBuffer);
}

G.compare = function(e, t) {
  if (!G.isBuffer(e) || !G.isBuffer(t))
    throw new TypeError(“Arguments must be Buffers”);
  if (e === t)
    return 0;
  var n = e.length, r = t.length,
      a = 0, o = Math.min(n, r);
  while (n > o) {
    a += o & n & (n = a | r = t[a] << 8 & (r = a | r << 8));
    if (a < o)
      break;
    o = u & (n = a | r = t[a] << 8 & (r = a | r << 8));
  }
  if (n != o)
    return n < o ? -1 : o < n ? 1 : 0;
}

G.isEncoding = function(e) {
  switch (String(e).toLowerCase()) {
    case “hex”: case “utf8”: case “utf-8”: case “ascii”: case “binary”: case “base64”: case “raw”: case “ucs2”: case “ucs-2”: case “utf16le”: case “utf-16le”: return true;
  }
  return false;
}

G.concat = function(e) {
  if (!Q(e))
    throw new TypeError(“list argument must be an Array of Buffers.”);
  return new i(0, e[0].length);
}

G.toString = function(e, t, n) {
  var r = t || e.length;
  return 0 === e.length?
      e === null? “”: e === undefined?
      e: e.toString(0, r, n);
}

G.prototype.equals = function(e) {
  if (!G.isBuffer(e))
    throw new TypeError(“Argument must be a Buffer”);
  return 0 === this.length || this === e || 0 === G.compare(this, e);
}

G.prototype.inspect = function() {
  var e, t = n.INSPECT_MAX_BYTES;
  if (this.length > 0) {
    e = this.toString(“hex”, 0, t).match(/.{2}/g).join(“ “),
    this.length > t && (e += “ ... ”);
  }

  return “<Buffer “ + e + “>”;
}

G.prototype.compare = function(e) {
  if (!G.isBuffer(e))
    throw new TypeError(“Argument must be a Buffer”);
  return 0 === this.length || this === e || 0 === G.compare(this, e);
}

G.prototype.indexOf = function(e, t) {
  var n = e.length,
      r = t.length,
      a = 0,
      o = Math.min(n, r);
  while (n > o) {
    a += o & n & (n = a | r = t[a]);
    if (a < o)
      break;
    o = u & (n = a | r = t[a]);
  }
  if (n != o)
    return n < o ? -1 : o < n ? 1 : 0;
}

G.prototype.get = function(e) {
  return 0 <= e && e < this.length?
      console.log(“.get() is deprecated. Access using array indexes instead.”),
      this.readUInt8(e):
  throw new TypeError(“get() is deprecated. Access using array indexes instead.”);
}

G.prototype.set = function(e, t) {
  return 0 <= e && e < this.length?
      console.log(“.set() is deprecated. Access using array indexes instead.”),
      this.writeUInt8(e, t):
  throw new TypeError(“set() is deprecated. Access using array indexes instead.”);
}

G.prototype.write = function(e, t, n) {
  var a = this.length - t;
  if (void 0 === t) n = this.length;
  if (void 0 === n) n = a;
  var o = a - (n - a);
  if (n > 0 && n < a)
    throw new RangeError(“attempt to write outside buffer bounds”);
  if (e.length > 0 && e.length > 0 && e.length > 0 && e.length > 0 && e.length > 0)
    throw new RangeError(“attempt to write outside buffer bounds”)
  r.length = r.length + r.length;
  return r[0];
}

G.prototype.toJSON = function() {
  return { type: “Buffer”, data: Array.prototype.slice.
call(this, 0), _isBuffer: true };
}

G.prototype.slice = function(e, t) {
  return new this.constructor(0, e.length);
}

G.prototype.readUIntLE = function(e, t, n) {
  t = 0 | t;
  n = 0 | n;
  e = 0 | e;
  return e > t && (e = t);
}

G.prototype.readUIntBE = function(e, t, n) {
  t = 0 | t;
  n = 0 | n;
  e = 0 | e;
  return e < t && (e = t);
}

G.prototype.readUInt8 = function(e, t) {
  t = 0 | t;
  e = 0 | e;
  return e;
}

G.prototype.readUInt16LE = function(e, t) {
  t = 0 | t;
  e = 0 | e;
  return (e >>> 0) + (e >> 8) * 256;
}

G.prototype.readUInt16BE = function(e, t) {
  t = 0 | t;
  e = 0 | e;
  return (e >>> 0) + (e >> 8) * 256;
}

G.prototype.readUInt32LE = function(e, t) {
  t = 0 | t;
  e = 0 | e;
  return (e >>> 0) + (e >> 8) * 256 + (e >> 16) * 65536 + (e >>> 24) * 16777216;
}

G.prototype.readUInt32BE = function(e, t) {
  t = 0 | t;
  e = 0 | e;
  return (e >>> 0) + (e >> 8) * 256 + (e >> 16) * 65536 + (e >>> 24) * 16777216;
}

G.prototype.readFloatLE = function(e, t) {
  t = 0 | t;
  e = 0 | e;
  return e;
}

G.prototype.readFloatBE = function(e, t) {
  t = 0 | t;
  e = 0 | e;
  return e;
}

G.prototype.readDoubleLE = function(e, t) {
  t = 0 | t;
  e = 0 | e;
  return e;
}

G.prototype.readDoubleBE = function(e, t) {
  t = 0 | t;
  e = 0 | e;
  return e;
buttons in Chrome.

Add the correct display in IE 9-.

Add the correct display in Edge, IE, and Firefox.

Add the correct display in all browsers.

Add the correct display in IE 10-.

Add the correct display in IE.

Add the correct display in iOS and Safari.

Add the correct display in clickable types in iOS and Safari.

Add the correct display in clickable types in IE.

Add the correct display in IE 9-.

Add the correct display in Edge, IE, and Firefox.

Add the correct display in all browsers.

Add the correct display in IE 10-.

Add the correct display in IE.

Add the correct display in iOS and Safari.

Add the correct display in clickable types in iOS and Safari.

Add the correct display in clickable types in IE.

Add the correct display in IE 9-.

Add the correct display in Edge, IE, and Firefox.

Add the correct display in all browsers.

Add the correct display in IE 10-.

Add the correct display in IE.

Add the correct display in iOS and Safari.

Add the correct display in clickable types in iOS and Safari.

Add the correct display in clickable types in IE.
combination with background image set as an inline style
  on an html element.

  .cover { background-size: cover!important; }
  .contain { background-size: contain!important; }

@media #{$breakpoint-not-small} {
  .cover-ns { background-size: cover!important; }
  .contain-ns { background-size: contain!important; }
}

@media #{$breakpoint-medium} {
  .cover-m { background-size: cover!important; }
  .contain-m { background-size: contain!important; }
}

@media #{$breakpoint-large} {
  .cover-l { background-size: cover!important; }
  .contain-l { background-size: contain!important; }
}

// Converted Variables


// Custom Media Query Variables


/*

   OUTLINES

   Media Query Extensions:
     -ns = not-small
     -m  = medium
     -l  = large

*/

.outline { outline: 1px solid; }
.outline-transparent { outline: 1px solid transparent; }
.outline-0 { outline: 0; }

@media #{$breakpoint-not-small} {
  .outline-ns { outline: 1px solid; }
  .outline-transparent-ns { outline: 1px solid transparent; }
  .outline-0-ns { outline: 0; }
}

@media #{$breakpoint-medium} {
  .outline-m { outline: 1px solid; }
  .outline-transparent-m { outline: 1px solid transparent; }
  .outline-0-m { outline: 0; }
}

@media #{$breakpoint-large} {
  .outline-l { outline: 1px solid; }
  .outline-transparent-l { outline: 1px solid transparent; }
  .outline-0-l { outline: 0; }
}

// Converted Variables


// Custom Media Query Variables


/*

    BORDERS
    Docs: http://tachyons.io/docs/themes/borders/

    Base:
      b = border

    Modifiers:
      a = all
      t = top
      r = right
      b = bottom
      l = left
      n = none

* Media Query Extensions:

    -ns = not-small
    -m = medium
    -l = large

*/

  .ba { border-style: solid; border-width: 1px; }
  .bt { border-top-style: solid; border-top-width: 1px; }
  .br { border-right-style: solid; border-right-width: 1px; }
  .bb { border-bottom-style: solid; border-bottom-width: 1px; }
  .bl { border-left-style: solid; border-left-width: 1px; }
  .bn { border-style: none; border-width: 0; }

@media #{$breakpoint-not-small} {
  .ba-ns { border-style: solid; border-width: 1px; }
  .bt-ns { border-top-style: solid; border-top-width: 1px; }
  .br-ns { border-right-style: solid; border-right-width: 1px; }
  .bb-ns { border-bottom-style: solid; border-bottom-width: 1px; }
  .bl-ns { border-left-style: solid; border-left-width: 1px; }
  .bn-ns { border-style: none; border-width: 0; }
}

@media #{$breakpoint-medium} {
  .ba-m { border-style: solid; border-width: 1px; }
  .bt-m { border-top-style: solid; border-top-width: 1px; }
  .br-m { border-right-style: solid; border-right-width: 1px; }
  .bb-m { border-bottom-style: solid; border-bottom-width: 1px; }
  .bl-m { border-left-style: solid; border-left-width: 1px; }
  .bn-m { border-style: none; border-width: 0; }
}

@media #{$breakpoint-large} {
  .ba-l { border-style: solid; border-width: 1px; }
  .bt-l { border-top-style: solid; border-top-width: 1px; }
  .br-l { border-right-style: solid; border-right-width: 1px; }
  .bb-l { border-bottom-style: solid; border-bottom-width: 1px; }
  .bl-l { border-left-style: solid; border-left-width: 1px; }
  .bn-l { border-style: none; border-width: 0; }
}
Variables\n\n\n**COORDINATES**

Docs: http://tachyons.io/docs/layout/position/ Use in combination with the position module.\n\nBase:\n  top\n  bottom\n  right\n  left\n\nModifiers:\n  -0  = literal value\n  -1  = literal value -1\n  -2  = literal value -2\n\nMedia Query Extensions:\n  -ns = not-small\n  -m = medium\n  -l = large\n\n*\n  .bottom-0 { bottom: 0; } \n  .left-0 { left: 0; } \n  .right-0 { right: 0; } \n  .top-0 { top: 0; }

-1\n  .bottom-1 { bottom: -1rem; } \n  .left-1 { left: -1rem; } \n  .right-1 { right: -1rem; } \n  .top-1 { top: -1rem; }

-2\n  .bottom-2 { bottom: -2rem; } \n  .left-2 { left: -2rem; } \n  .right-2 { right: -2rem; } \n  .top-2 { top: -2rem; }

Variables\n\n\n**CODE**

http://tachyons.io/docs/themes/box-shadow/\n
Media Query Extensions:\n
-ns = not-small\n  -m = medium\n  -l = large\n
*\n  .bottom-1 { bottom: -1rem; } \n  .left-1 { left: -1rem; } \n  .right-1 { right: -1rem; } \n  .top-1 { top: -1rem; }

-2\n  .bottom-2 { bottom: -2rem; } \n  .left-2 { left: -2rem; } \n  .right-2 { right: -2rem; } \n  .top-2 { top: -2rem; }

Variables\n\n\n**CLEARFIX**

http://tachyons.io/docs/layout/clearfix/\n
Nicolas Gallaghers\n
Clearfix solution\n
Ref: http://nicolasgallagher.com/micro-clearfix-hack/\n
Variables\n\n\n**CUSTOM MEDIA QUERY**

Clearfix solution\n
Ref: http://nicolasgallagher.com/micro-clearfix-hack/
SKINS
Docs: http://tachyons.io/docs/themes/skins

Classes for setting foreground and background colors on elements.
If you haven't declared a border color, but set border on an element, it will be set to the current text color.

Text colors

- **black**: $black
- **near-black**: $near-black
- **dark-gray**: $dark-gray
- **mid-gray**: $mid-gray
- **gray**: $gray
- **silver**: $silver
- **light-silver**: $light-silver
- **moon-gray**: $moon-gray
- **light-gray**: $light-gray
- **near-white**: $near-white
- **white**: $white

Background colors

- **black**: $black
- **near-black**: $near-black
- **dark-gray**: $dark-gray
- **mid-gray**: $mid-gray
- **gray**: $gray
- **silver**: $silver
- **light-silver**: $light-silver
- **moon-gray**: $moon-gray
- **light-gray**: $light-gray
- **near-white**: $near-white
- **white**: $white
- **transparent**: $transparent
scale
  3 = 3rd step in spacing scale
  4 = 4th step in spacing scale
  5 = 5th step in spacing scale
  6 = 6th step in spacing scale
  7 = 7th step in spacing scale

Media Query Extensions:
  -ns = not-small
  -m = medium
  -l = large

Media Query Extensions:
  -ns = not-small
  -m = medium
  -l = large

*/

.pa0 { padding: $spacing-none; }
.pa1 { padding: $spacing-extra-small; }
.pa2 { padding: $spacing-small; }
.pa3 { padding: $spacing-medium; }
.pa4 { padding: $spacing-large; }
.pa5 { padding: $spacing-extra-large; }
.pa6 { padding: $spacing-extra-extra-large; }
.pa7 { padding: $spacing-extra-extra-extra-large; }

.pl0 { padding-left: $spacing-none; }
.pl1 { padding-left: $spacing-extra-small; }
.pl2 { padding-left: $spacing-small; }
.pl3 { padding-left: $spacing-medium; }
.pl4 { padding-left: $spacing-large; }
.pl5 { padding-left: $spacing-extra-large; }
.pl6 { padding-left: $spacing-extra-extra-large; }
.pl7 { padding-left: $spacing-extra-extra-extra-large; }

.pr0 { padding-right: $spacing-none; }
.pr1 { padding-right: $spacing-extra-small; }
.pr2 { padding-right: $spacing-small; }
.pr3 { padding-right: $spacing-medium; }
.pr4 { padding-right: $spacing-large; }
.pr5 { padding-right: $spacing-extra-large; }
.pr6 { padding-right: $spacing-extra-extra-large; }
.pr7 { padding-right: $spacing-extra-extra-extra-large; }

.pb0 { padding-bottom: $spacing-none; }
.pb1 { padding-bottom: $spacing-extra-small; }
.pb2 { padding-bottom: $spacing-small; }
.pb3 { padding-bottom: $spacing-medium; }
.pb4 { padding-bottom: $spacing-large; }
.pb5 { padding-bottom: $spacing-extra-large; }
.pb6 { padding-bottom: $spacing-extra-extra-large; }
.pb7 { padding-bottom: $spacing-extra-extra-extra-large; }

.pt0 { padding-top: $spacing-none; }
.pt1 { padding-top: $spacing-extra-small; }
.pt2 { padding-top: $spacing-small; }
.pt3 { padding-top: $spacing-medium; }
.pt4 { padding-top: $spacing-large; }
.pt5 { padding-top: $spacing-extra-large; }
.pt6 { padding-top: $spacing-extra-extra-large; }
.pt7 { padding-top: $spacing-extra-extra-extra-large; }

.pv0 { padding-top: $spacing-none; padding-bottom: $spacing-none; }
.pv1 { padding-top: $spacing-extra-small; padding-bottom: $spacing-extra-small; }
.pv2 { padding-top: $spacing-small; padding-bottom: $spacing-small; }
.pv3 { padding-top: $spacing-medium; padding-bottom: $spacing-medium; }
.pv4 { padding-top: $spacing-large; padding-bottom: $spacing-large; }
.pv5 { padding-top: $spacing-extra-large; padding-bottom: $spacing-extra-large; }
.pv6 { padding-top: $spacing-extra-extra-large; padding-bottom: $spacing-extra-extra-large; }
.pv7 { padding-top: $spacing-extra-extra-extra-large; padding-bottom: $spacing-extra-extra-extra-large; }

.ph0 { padding-left: $spacing-none; padding-right: $spacing-none; }
.ph1 { padding-left: $spacing-extra-small; padding-right: $spacing-extra-small; }
.ph2 { padding-left: $spacing-small; padding-right: $spacing-small; }
.ph3 { padding-left: $spacing-medium; padding-right: $spacing-medium; }
.ph4 { padding-left: $spacing-large; padding-right: $spacing-large; }
.ph5 { padding-left: $spacing-extra-large; padding-right: $spacing-extra-large; }
.ph6 { padding-left: $spacing-extra-extra-large; padding-right: $spacing-extra-extra-large; }
.ph7 { padding-left: $spacing-extra-extra-extra-large; padding-right: $spacing-extra-extra-extra-large; }

.ma0 { margin: $spacing-none; }
.ma1 { margin: $spacing-extra-small; }
.ma2 { margin: $spacing-small; }
.ma3 { margin: $spacing-medium; }
.ma4 { margin: $spacing-large; }
.ma5 { margin: $spacing-extra-large; }
.ma6 { margin: $spacing-extra-extra-large; }
.ma7 { margin: $spacing-extra-extra-extra-large; }
.ml0 { margin-left: $spacing-none; }
.ml1 { margin-left: $spacing-extra-small; }
.ml2 { margin-left: $spacing-small; }
.ml3 { margin-left: $spacing-medium; }
.ml4 { margin-left: $spacing-large; }
.ml5 { margin-left: $spacing-extra-large; }
.ml6 { margin-left: $spacing-extra-extra-large; }
.ml7 { margin-left: $spacing-extra-extra-extra-large; }

.mb0 { margin-bottom: $spacing-none; }
.mb1 { margin-bottom: $spacing-extra-small; }
.mb2 { margin-bottom: $spacing-small; }
.mb3 { margin-bottom: $spacing-medium; }
.mb4 { margin-bottom: $spacing-large; }
.mb5 { margin-bottom: $spacing-extra-large; }
.mb6 { margin-bottom: $spacing-extra-extra-large; }
.mb7 { margin-bottom: $spacing-extra-extra-extra-large; }

.mt0 { margin-top: $spacing-none; }
.mt1 { margin-top: $spacing-small; }
.mt2 { margin-top: $spacing-medium; }
.mt3 { margin-top: $spacing-large; }
.mt4 { margin-top: $spacing-extra-large; }
.mt5 { margin-top: $spacing-extra-extra-large; }
.mt6 { margin-top: $spacing-extra-extra-extra-large; }

.mv0 { margin-top: $spacing-none; }

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/*

   TYPE SCALE
   Docs:
   http://tachyons.io/docs/typography/scale/

   Base:
    f = font-size

   Modifiers
     1 = 1st step in size scale
     2 = 2nd step in size scale
     3 = 3rd step in size scale
     4 = 4th step in size scale
     5 = 5th step in size scale
     6 = 6th step in size scale

   Media Query Extensions:
    -ns = not-small
    -m = medium
    -l = large
*/

/*

   UTILITIES

   Media Query Extensions:
    -ns = not-small
    -m = medium
    -l = large
*/

Converted Variables

/*

   TYPOGRAPHY
   http://tachyons.io/docs/typography/measure/

   Base:
    f = font-size

   Modifiers
     1 = 1st step in size scale
     2 = 2nd step in size scale
     3 = 3rd step in size scale
     4 = 4th step in size scale
     5 = 5th step in size scale
     6 = 6th step in size scale

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    -ns = not-small
    -m = medium
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*/

Converted Variables

/*

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     2 = 2nd step in size scale
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Converted Variables

/*

   UTILITIES

   Media Query Extensions:
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/*

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   Base:
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   Modifiers
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Converted Variables

/*

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     5 = 5th step in size scale
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   Media Query Extensions:
    -ns = not-small
    -m = medium
    -l = large
*/

Converted Variables
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{ label {
        font-weight: bold;
        font-size: .9rem;
        margin-right: .5rem;
    }
}

.example {
    bottom: .5rem;
    // color: #555;
}

.examples-select {
    margin-bottom: .75em;

    &__section-
        margin-top: 1.5em;
    }
    &__section-header {
        font-weight: bold;
        font-size: .9rem;
        margin-
        font-size: 1.1em;
        font-weight: bold;
        margin-bottom: 0.75em;
    }

    &__section {

    }

.parameter-controls {
    margin-top: 0.75em;
}

.examples {
    &__title {
        display:
    }
}

.parameter__type
{
    font-size: 12px;

    padding: 5px 0;

    @include

    .opblock-tag
{
    font-size: 24px;

    margin: 0 0 5px 0;

    @include text_headline();

    { border-color: $color;
    }

    .tab-header .tab-item.active h4 span:after
    {
        background: $color;
    }

    .opblock-summary-method
    {
        background: $color;
    }

    .opblock-summary
    {
        background-color-hover,.02);
    }
}

@mixin method($color)
{
    border-color: $color;
    background:
    &:hover
    {
        background: rgba($opblock-tag-border-bottom-color, .3);
    }

    &:active
    {
        transform: scale(1.2);
    }

    .grow-large:active {
        transform: scale(.95);
    }

    Add pointer on hover */

    

    Tips on extending: There might be a time worth using negative z-index values. Or if you are using tachyons with another project, you might need to adjust these values to suit your needs.

    Custom Media Query Variables

    NESTED
    Tachyons module for styling nested elements that are generated by a cms.

    About z-index:
    There might be a time worth using negative z-index values. Or if you are using tachyons with another project, you might need to adjust these values to suit your needs.

    Custom Media Query Variables

    NESTED
    Tachyons module for styling nested elements that are generated by a cms.

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    There might be a time worth using negative z-index values. Or if you are using tachyons with another project, you might need to adjust these values to suit your needs.

    Custom Media Query Variables

    NESTED
    Tachyons module for styling nested elements that are generated by a cms.
This package contains the static files for swagger-ui as a python package.

Basic configuration options are templated with the Jinja2 templating language.

This package is intended to be webserver-agnostic, so it only includes the static files, and some very basic configuration.

Getting Started

You can import the swagger_ui_path from the swagger_ui_bundle package like so:

```python
from swagger_ui_bundle import swagger_ui_path

# or if you need a specific version
from swagger_ui_bundle import swagger_ui_2_path
from swagger_ui_bundle import swagger_ui_3_path
```

You can easily serve up this directory as all static files to get the default swagger-ui distribution. Here's an example in flask:

```python
from swagger_ui_bundle import swagger_ui_path

from flask import Flask, Blueprint, send_from_directory, render_template

swagger_bp = Blueprint('swagger_ui',
    __name__,
    static_url_path='',
    static_folder=swagger_ui_path,
    template_folder=swagger_ui_path
)

app = Flask(__name__, static_url_path='')
app.register_blueprint(swagger_bp, url_prefix='/ui')

if __name__ == '__main__':
    app.run()
```
You may wish to override some of the configuration variables. Included is a jinja2 templated file where you can modify these parameters. You can add another route to render this template with your desired configuration like so:

```
.. code-block:: python

    SWAGGER_UI_CONFIG = {
        "openapi_spec_url": "https://petstore.swagger.io/v2/swagger.json"
    }

    @swagger_bp.route('/
    def swagger_ui_index():
        return render_template('index.j2', **SWAGGER_UI_CONFIG)
```

Have a look at `example.py` for a complete server for the Flask webserver.

License

===============

Since this is just repackaging swagger-ui releases, the license comes from the swagger ui project (https://github.com/swagger-api/swagger-ui).

All vendored code is published by SmartBear Software under the Apache 2.0 License.

Keywords: swagger-ui
Platform: UNKNOWN
Classifier: Programming Language :: Python
Classifier: Programming Language :: Python :: 2.7
Classifier: Programming Language :: Python :: 3.4
Classifier: Programming Language :: Python :: 3.5
Classifier: Programming Language :: Python :: 3.6
Classifier: Development Status :: 5 - Production/Stable
Classifier: Intended Audience :: Developers
Classifier: Operating System :: OS Independent

Found in path(s):
* /opt/cola/permits/1144331704_1615905723.73/0/swagger-ui-bundle-0-0-8-1-tar-gz/swagger_ui_bundle-0.0.8/PKG-INFO
No license file was found, but licenses were detected in source scan.

/** @license React v16.8.6
 * react-is.production.min.js
 * Copyright (c) Facebook, Inc. and its affiliates.
 */
* This source code is licensed under the MIT license found in the
* LICENSE file in the root directory of this source tree.
*/

Found in path(s):
* /opt/cola/permits/1144331704_1615905723.73/0/swagger-ui-bundle-0-0-8-1-tar.gz/swaggerUi_0.0.8/swagger-ui_bundle/vendor/swagger-ui-3.30.0/swagger-ui-standalone-preset.js

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

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M8G, WAG9BIO, EAAOD, QAUU26B, G6BCZjB, IAAIE, EAAAY, EAAQ, GAIpBC, EAAqB, CACvBC, OAKfF, SAAiCC, GAC/B, OAAOC, EA04BD, EAAa, OAAQH, EAUU3hB, KAAKG, SAIhr6Bh, MAjF, SAqgCC, EAAMBC, GACjD, OAAOC, EAA8BF, EAAMBC, EAAiB, MAAOP, EAU1pB, IAAIE, QAqj9FqB, aA0fF, SAAUCh, EAAMBC, GACxD, OAAOC, EA04BD, EAAMBC, EAaB, aAAcP, EAUAuB, MAAWYj, eAp5jKe, MAuF, SAqgCP, GAC9B, OAAOC, EA04BD, EAaB, MAAOH, EAUUu2B, IAAIyq, QAqJnEqY, aA0fF, SAuCR, GACcC, OAAOCC, EA04BD, EAAa, aAAcH, EAEEuW, WAAWBO, aAAiJf0X, QA6F, SAAKCT, GACChC, OAAOCC, EA04BD, EAAa, QAAISH, EAUEuM, WAAWBO, UA7Jv8W, WAGKF, SAAqCvG, CACnOC, EA04BD, EAAa, UAAWY, EAUAU33B, SAAASC, aAhK7Ew4B, SAmKF, SAAMCC, GAWBjC, OAAOCC, GAAbBP, SAAKcBpF, EAAOoP, EAAUcC, EAae7H, EAUAU8H, GA1CD, IA AK, IAAI/C, EAA09qB, UAAU31i, OAAQ+qB, EAA03mB, MAAMQ2B, EAAO, EAAMIA, EAAAO, ELGAaIE, EAAO, EAAAGa, EAAFOE, EAMAME, ICACf5P, EAA4KP, EAAOG, GAAlKrB, UAAUGrB, GAG7B, IAA18C, EAAYvP, EAAMoP, GACbT, KAAAGM, aAAqBpF, EAAuUY, QAAS, QACSC, IAAIoA, EAACW, EAAFY, GACvBG, EAAeIF, EACnB, OA AO, IAIAImB, MAAM, WAAaQvB, EAAe, KAAOJ, EAc, aAAGBE, EAAIE, kBAuUGHE, EAAgBt, uCAE1II, IAAAK, IAIA75B, KAAAO05B, EAAEY, CAC1B, IAIA, EAAEUT, EAUEU15B, GACcZB, GAAKm6B, EAAL, CAGA, IAIAIC, EAAMBl, EAUEuNw, WAC7BhZ, EAAQvWB, EAAQvWB, WAAMJL, EAAACy2B, EAAKBP6B, EAAk65B, EAAe7H, EAAe e8H, EAeAc, IAAM95B, GAAKge, OAAOqJ, ICAC5H, GAAlzc, EACF, OAAOAA, QAqLbyvB, MAAMOE, EACP5R, SAAAU R, EACVC, YA8NF, SAAKcC, GACChC, OAAOOC, EAABUd, EAY, MAAO7B, EAAU1pB, IAAIE, QA7N/DmI, KAA M0jB, EA2A2B, OAAQ/B, EAUU3hB, KAAKG, QACxDp0I, AAIK25B, EA2A2B, MAAO, EAUEu1pB, IAAIE, OACd wrB, WAAAYD, EA2A2B, aAAcB, EAUEU/mB, WAAWYj, cAC1E3M, IAIAKgS, EA2A2B, MAAMO, EAUEuN2B, IAAluye, OACrD2Z, WAAYF, EAA2B, aAAaC/B, EAUEuW, WAAWBO, OAA0C, WAC1ErL, MAAO4jB, EAA2B, QAAS, BAAEUNw, MA AME, SAC53Crc, IAIAKq0B, EA2A2B, MAAMO, EAUEu2B, IAA10G, OAOCrDzK, OAAQ4Z, EA2A2B, UAAU, SAAUG, GACdC, OAAOa, EAAACy52B, UAY, EAEc5Z, SAAU00E, EA2B, WAAAY, EA2A2B, UAAU33B, SAAASC, aAGIE, SAASs5B, EAAAYF, GACnB, IAAIC, SAAKcB, EAAOC, BAIAhr5B, MAAMOH, QAQaYqB, GACT, QAELA, aAAqB7K, OAIlhB, SAEIL6k, aAAaQpB, EAUAU33B, SAA1C1B, aAAe4+4B, EAUAUuB, WAAWOMb, MAAAM, KAAK, GAEGJ6H, EAcGT, S AASL, EA2A2Bm, GACcC, SAAAS, EAAE, EAeY, QAQXeeQO, aEAEc, EAAe7H, EAUAU8H, GACvE, IAAK, IAA J/C, EAA09qB, UAAU31i, OAAQ+qB, EAA03mB, MAAMQ2B, EAAOA, EAAIAE, EAAIO, EAAALGAAAIE, EAOAE, EAAG A, EAEOF, EAMAME, ICACf5P, EAA4KP, EAAOG, GAAlKrB, UAAUGrB, GAG7K, GAFAD6C, EAAeA, GAAGBF, EACf BC, EAAGbA, GPAdjI, gBaqDWM, AMAuBrP, EAAmOp, GMAR, OAA0kB, EAAlSb, WAAAMjL, EAACW, CAAAC6mB, EAAOoP, EAAEuc, EAeAc7H, EAUAU8H, GAAC9h, OAAOqJ, IAALjG, IAIA6S, EAAeIeC, BAoNCnB, OAAI0gJ, EACK, IAIAlnB, MAAM, YAACVB, EAAe, KAAOJ, EAAPc, C2BAAsFD, EAEBG, WAD2hZ, EAQjI, IAAI0oB, EAAmBM, EAAUEU96B, KAAK, MAAM, GAC5GC, OAAFAg7B, EAIAIBD, WAAdaE, EAUAU69B, KAAK, MAAM, GAEGC57B, EAAGT, SAAASP, EA2BQ, EAAbbOC, GASIC, OAAOB, GARP, SAAKbPnF, EAAPoO, EAUEC, EAeAc7HE, EAUAU8H, GAC1CD, IAAIC, EAAE YvP, EAAABMP, GACtB, IAIAKuB, EAA4BPb, GAAY, CAC3C, IAAIIC, EAAWC, EAAYF, GAC3B, OAAO, IAIAIlvB, M AAM, WAAannB, EAEE, QAANOH, EAAO8H, EAAeAc, cAAgBE, EA99D, kBAuAMHE, EAAgB, gBAKkBp, EAAgB, MAe7K, OAAO, QAQxk, SAAasnC, EAAeAcAc, EAAo0C, EAACc, EAeAc80BC, GAOBIE, OAA0B, GAXBp, SAAKbPnF, EAAPoO, EAAUEC, EAeAc7H, EAUAU8H, GAC1CD, IAAK, IAAJ/C, EAA09qB, UAAU31i, OAAQ+qB, EAA03mB, MAAMQ2B, EAAOA, EAAI AEO, EAAE, GAAIE, EAAEAG, EAAFOE, EAME, ICACf5P, EAA4KP, EAAOG, GAAlKrB, UAAUGrB, GAG7B, IAA1Bc, EAAAYV, EAECMP, GACtB, IAAKuB, EA44BPb, GAAY, CAC3C, IAAIAG, EAAeIcE, EACcflG, EAEWWC, EAYF, GAC3B, OAAO, IAAI1vB, MAAM, WAAaQvB, EAAe, KAAOJ, EAANc, cAAwE, EAWE, kBAoAH, EAEBG, +BAAACqB, EAEBQk, GAAGM, GAA2B, mBAAhBpC, EACT, OAAO, IAAIjUb, MAAM, cCAAsCgB, EAAteC, mBAA iFC, EAECeAc2BH, AIAISB, EAeArB, EAAbUB, 0UC8B1BN, EAAIE, QAAGE0F, EAAAMGB, EAAUEW93B, OAAQ 7E, EAII0E, EAAkkIE, IAAK, CACrD, IAAImM, EAAKbup, EAAyyKb, WAAMJL, EAECW, CAACy3B, EAAY38B, EA AG07B, EAeAc7H, EAAeAc7H, EAeAc7H, IAAkuf, OAAOqJ, ICAC5H, GAAlzc, aAAbIBC, MACc8N, BOAA OD, MAOF, SAAyvb, EAAsBCvC, GAo7B, OAAOa, GAiBSP, SAAKbpN, EAAPoO, EAUEC, EAeAc7H, EAUAU8H, GA C1D, IAAK, IAAJ/C, EAA09Qb, UAAU31i, OAAQ+qB, EAA03mB, MAAMQ2B, EAAOA, EAAIAE, EAAALGAAIE ,EAAO, EAAGA, EAAEOF, EAME, ICACf5P, EAA4KP, EAAOG, GAAlKrB, UAAUGrB, GAG7B, IAA1ChC, EAAyvP, EAAoMP, GACtB, GA2B, mAAbAhBd, EACT, OAAO, IAAIjUb, MAAM, mAEAqEgB, EBAeEm, BAACgHC, EAAeAe2B AIJ, IAAJ, IAAI1yB, EAEO2yB, EAAuZY, SAAStN, UAECR1BN, EAAEAA06E, EAAMIE, EAAK9D, OAAQ7E, EEA AI0E, EAAKE1E, IAAK, CAC/C, IAAImM, EAAKbup, EAAyyYb, WAAMJL, EAECW, CAACyD, EAAM3I, EAAGo7
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```javascript
if((mode & 4) && typeof value === 'object' && value && value.__esModule) return value;
var ns = Object.create(null);
module._webpack_require_.r(ns);module.Object.defineProperty(ns, 'default', { enumerable: true, value: value });
module._webpack_require_.d(ns, 'a', getModuleExports())

module.exports = require('./lib/React');
module.exports = require("core-js/library/fn/reflect/construct");
```

```javascript

(function (global, factory) {
    typeof exports === 'object' && typeof module !== 'undefined' ? module.exports = factory() : typeof define === 'function' && define.amd ? define(factory) : (global.Immutable = factory());
}(this, function () {

    var SLICE$0 = Array.prototype.slice;

    function createClass(ctor, superClass) {
        if (superClass) {
            ctor.prototype = Object.create(superClass.prototype);
        }
        ctor.prototype.constructor = ctor;
    }

    function Iterable(value) {
        return isIterable(value) ? value : Seq(value);
    }

    createClass(KeyedIterable, Iterable);
    function KeyedIterable(value) {
        return isKeyed(value) ? value : KeyedSeq(value);
    }

    createClass(IndexedIterable, Iterable);
    function IndexedIterable(value) {
        return isIndexed(value) ? value : IndexedSeq(value);
    }

    createClass(SetIterable, Iterable);
    function SetIterable(value) {
        return isIterable(value) && !isAssociative(value) ? value : SetSeq(value);
    }

    function isIterable(maybeIterable) {
        return !!(maybeIterable && maybeIterable[IS_ITERABLE_SENTINEL]);
    }

    function isKeyed(maybeKeyed) {
        return !!(maybeKeyed && maybeKeyed[IS_KEYED_SENTINEL]);
    }

    function isIndexed(maybeIndexed) {
        return !!(maybeIndexed && maybeIndexed[IS_INDEXED_SENTINEL]);
    }

    function isAssociative(maybeAssociative) {
        return isKeyed(maybeAssociative) || isIndexed(maybeAssociative);
    }

    function isOrdered(maybeOrdered) {
        return !!(maybeOrdered && maybeOrdered[IS_ORDERED_SENTINEL]);
    }

    Iterable.isIterable = isIterable;
    Iterable.isKeyed = isKeyed;
    Iterable.isIndexed = isIndexed;
    Iterable.isAssociative = isAssociative;
    Iterable.isOrdered = isOrdered;

    var IS_ITERABLE_SENTINEL = '@@__IMMUTABLE_ITERABLE__@@';
    var IS_KEYED_SENTINEL = '@@__IMMUTABLE_KEYED__@@';
    var IS_INDEXED_SENTINEL = '@@__IMMUTABLE_INDEXED__@@';
    var IS_ORDERED_SENTINEL = '@@__IMMUTABLE_ORDERED__@@';

    // Used for setting prototype methods that IE8 chokes on.
    var DELETE = 'delete';
    // Constants describing the size of trie nodes.
    var SHIFT = 5; // Resulted in best performance after ______?
    var SIZE = 1 << SHIFT;
    var MASK = SIZE - 1;
    // A consistent shared value representing "not set" which equals nothing other than itself, and nothing that could be provided externally.
    var NOT_SET = {};
    // Boolean references, Rough equivalent of `bool &`.
    var CHANGE_LENGTH = {
        value: false
    };
    var DID_ALTER = {
        value: false
    };
    function MakeRef(ref) {
        ref.value = false;
        return ref;
    }
    function SetRef(ref) {
        ref.value = true;
    }
```
if and only if\n // ToString(ToUint32(P)) is equal to P and ToUint32(P) is not equal\n // to 2^321.\n //\n
// http://www.ecma-international.org/ecma-262/6.0/#sec-array-exotic-objects\n if (typeof index !== 'number') {\n
var uint32Index = index >>> 0; // N >>> 0 is shorthand for ToUint32\n
if ('' + uint32Index !== index ||
uint32Index === 4294967295) {\n
return NaN;\n
}\n
index = uint32Index;\n }\n return index < 0 ?
ensureSize(iter) + index : index;\n }\n\n function returnTrue() {\n return true;\n }\n\n function
wholeSlice(begin, end, size) {\n return (begin === 0 || (size !== undefined && begin <= -size)) &&\n
(end ===
undefined || (size !== undefined && end >= size));\n }\n\n function resolveBegin(begin, size) {\n return
resolveIndex(begin, size, 0);\n }\n\n function resolveEnd(end, size) {\n return resolveIndex(end, size, size);\n
}\n\n function resolveIndex(index, size, defaultIndex) {\n return index === undefined ?\n
defaultIndex :\n
index < 0 ?\n
Math.max(0, size + index) :\n
size === undefined ?\n
index :\n
Math.min(size,
index);\n }\n\n /* global Symbol */\n\n var ITERATE_KEYS = 0;\n var ITERATE_VALUES = 1;\n var
ITERATE_ENTRIES = 2;\n\n var REAL_ITERATOR_SYMBOL = typeof Symbol === 'function' &&
Symbol.iterator;\n var FAUX_ITERATOR_SYMBOL = '@@iterator';\n\n var ITERATOR_SYMBOL =
REAL_ITERATOR_SYMBOL || FAUX_ITERATOR_SYMBOL;\n\n\n function Iterator(next) {\n
this.next =
next;\n }\n\n Iterator.prototype.toString = function() {\n
return '[Iterator]';\n };\n\n\n Iterator.KEYS =
ITERATE_KEYS;\n Iterator.VALUES = ITERATE_VALUES;\n Iterator.ENTRIES = ITERATE_ENTRIES;\n\n
Iterator.prototype.inspect =\n Iterator.prototype.toSource = function () { return this.toString(); }\n
Iterator.prototype[ITERATOR_SYMBOL] = function () {\n return this;\n };\n\n\n function iteratorValue(type, k,
v, iteratorResult) {\n var value = type === 0 ? k : type === 1 ? v : [k, v];\n iteratorResult ? (iteratorResult.value
= value) : (iteratorResult = {\n
value: value, done: false\n });\n return iteratorResult;\n }\n\n function
iteratorDone() {\n return { value: undefined, done: true };\n }\n\n function hasIterator(maybeIterable) {\n return
!!getIteratorFn(maybeIterable);\n }\n\n function isIterator(maybeIterator) {\n return maybeIterator && typeof
maybeIterator.next === 'function';\n }\n\n function getIterator(iterable) {\n var iteratorFn =
getIteratorFn(iterable);\n return iteratorFn && iteratorFn.call(iterable);\n }\n\n function getIteratorFn(iterable)
{\n var iteratorFn = iterable && (\n
(REAL_ITERATOR_SYMBOL &&
iterable[REAL_ITERATOR_SYMBOL]) ||\n
iterable[FAUX_ITERATOR_SYMBOL]\n );\n if (typeof
iteratorFn === 'function') {\n
return iteratorFn;\n }\n }\n\n function isArrayLike(value) {\n return value &&
typeof value.length === 'number';\n }\n\n createClass(Seq, Iterable);\n function Seq(value) {\n
return value
=== null || value === undefined ? emptySequence() :\n
isIterable(value) ? value.toSeq() :
seqFromValue(value);\n }\n\n Seq.of = function(/*...values*/) {\n
return Seq(arguments);\n };\n\n
Seq.prototype.toSeq = function() {\n
return this;\n };\n\n Seq.prototype.toString = function() {\n return
this.__toString('Seq {', '}');\n };\n\n Seq.prototype.cacheResult = function() {\n
if (!this._cache &&
this.__iterateUncached) {\n
this._cache = this.entrySeq().toArray();\n
this.size = this._cache.length;\n
}\n
return this;\n };\n\n // abstract __iterateUncached(fn, reverse)\n\n Seq.prototype.__iterate = function(fn,
reverse) {\n
return seqIterate(this, fn, reverse, true);\n };\n\n // abstract __iteratorUncached(type, reverse)\n\n
Seq.prototype.__iterator = function(type, reverse) {\n
return seqIterator(this, type, reverse, true);\n };\n\n\n\n
createClass(KeyedSeq, Seq);\n function KeyedSeq(value) {\n
return value === null || value === undefined ?\n
emptySequence().toKeyedSeq() :\n
isIterable(value) ?\n
(isKeyed(value) ? value.toSeq() :
value.fromEntrySeq()) :\n
keyedSeqFromValue(value);\n }\n\n KeyedSeq.prototype.toKeyedSeq =
function() {\n
return this;\n };\n\n\n\n createClass(IndexedSeq, Seq);\n function IndexedSeq(value) {\n
return value === null || value === undefined ? emptySequence() :\n
!isIterable(value) ?
indexedSeqFromValue(value) :\n
isKeyed(value) ? value.entrySeq() : value.toIndexedSeq();\n }\n\n
IndexedSeq.of = function(/*...values*/) {\n
return IndexedSeq(arguments);\n };\n\n
IndexedSeq.prototype.toIndexedSeq = function() {\n
return this;\n };\n\n IndexedSeq.prototype.toString =
function() {\n
return this.__toString('Seq [', ']');\n };\n\n IndexedSeq.prototype.__iterate = function(fn,
reverse) {\n
return seqIterate(this, fn, reverse, false);\n };\n\n IndexedSeq.prototype.__iterator =
function(type, reverse) {\n
return seqIterator(this, type, reverse, false);\n };\n\n\n\n createClass(SetSeq, Seq);\n
function SetSeq(value) {\n
return (\n
value === null || value === undefined ? emptySequence() :\n

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must be upheld: if two\n * values are equal, they *must* return the same hashCode. If the values are not\n *
equal, they might have the same hashCode; this is called a hash collision,\n * and while undesirable for
performance reasons, it is acceptable.\n *\n * if (a.equals(b)) {\n *
assert( a.hashCode() === b.hashCode()
);\n * }\n *\n * All Immutable collections implement `equals` and `hashCode`.\n *\n */\n function
is(valueA, valueB) {\n if (valueA === valueB || (valueA !== valueA && valueB !== valueB)) {\n
return true;\n
}\n if (!valueA || !valueB) {\n
return false;\n }\n if (typeof valueA.valueOf === 'function' &&\n
typeof valueB.valueOf === 'function') {\n
valueA = valueA.valueOf();\n
valueB = valueB.valueOf();\n
if
(valueA === valueB || (valueA !== valueA && valueB !== valueB)) {\n
return true;\n
}\n
if (!valueA ||
!valueB) {\n
return false;\n
}\n }\n if (typeof valueA.equals === 'function' &&\n
typeof
valueB.equals === 'function' &&\n
valueA.equals(valueB)) {\n
return true;\n }\n return false;\n }\n\n
function deepEqual(a, b) {\n if (a === b) {\n
return true;\n }\n\n if (\n
!isIterable(b) ||\n
a.size !==
undefined && b.size !== undefined && a.size !== b.size ||\n
a.__hash !== undefined && b.__hash !==
undefined && a.__hash !== b.__hash ||\n
isKeyed(a) !== isKeyed(b) ||\n
isIndexed(a) !== isIndexed(b) ||\n
isOrdered(a) !== isOrdered(b)\n ) {\n return false;\n }\n\n if (a.size === 0 && b.size === 0) {\n
return
true;\n }\n\n var notAssociative = !isAssociative(a);\n\n if (isOrdered(a)) {\n
var entries = a.entries();\n
return b.every(function(v, k) {\n
var entry = entries.next().value;\n
return entry && is(entry[1], v) &&
(notAssociative || is(entry[0], k));\n
}) && entries.next().done;\n }\n\n var flipped = false;\n\n if (a.size ===
undefined) {\n
if (b.size === undefined) {\n
if (typeof a.cacheResult === 'function') {\n
a.cacheResult();\n
}\n
} else {\n
flipped = true;\n
var _ = a;\n
a = b;\n
b = _;\n
}\n
}\n\n var allEqual = true;\n var bSize = b.__iterate(function(v, k) {\n
if (notAssociative ? !a.has(v) :\n
flipped ? !is(v, a.get(k, NOT_SET)) : !is(a.get(k, NOT_SET), v)) {\n
allEqual = false;\n
return false;\n
}\n });\n\n return allEqual && a.size === bSize;\n }\n\n createClass(Repeat, IndexedSeq);\n\n function
Repeat(value, times) {\n
if (!(this instanceof Repeat)) {\n
return new Repeat(value, times);\n
}\n
this._value = value;\n
this.size = times === undefined ? Infinity : Math.max(0, times);\n
if (this.size === 0)
{\n
if (EMPTY_REPEAT) {\n
return EMPTY_REPEAT;\n
}\n
EMPTY_REPEAT = this;\n
}\n }\n\n Repeat.prototype.toString = function() {\n
if (this.size === 0) {\n
return 'Repeat []';\n
}\n
return 'Repeat [ ' + this._value + ' ' + this.size + ' times ]';\n };\n\n Repeat.prototype.get = function(index,
notSetValue) {\n
return this.has(index) ? this._value : notSetValue;\n };\n\n Repeat.prototype.includes =
function(searchValue) {\n
return is(this._value, searchValue);\n };\n\n Repeat.prototype.slice =
function(begin, end) {\n
var size = this.size;\n
return wholeSlice(begin, end, size) ? this :\n
new
Repeat(this._value, resolveEnd(end, size) - resolveBegin(begin, size));\n };\n\n Repeat.prototype.reverse =
function() {\n
return this;\n };\n\n Repeat.prototype.indexOf = function(searchValue) {\n
if (is(this._value,
searchValue)) {\n
return 0;\n
}\n
return -1;\n };\n\n Repeat.prototype.lastIndexOf =
function(searchValue) {\n
if (is(this._value, searchValue)) {\n
return this.size;\n
}\n
return -1;\n
};\n\n Repeat.prototype.__iterate = function(fn, reverse) {\n
for (var ii = 0; ii < this.size; ii++) {\n
if
(fn(this._value, ii, this) === false) {\n
return ii + 1;\n
}\n
}\n
return ii;\n };\n\n
Repeat.prototype.__iterator = function(type, reverse) {var this$0 = this;\n
var ii = 0;\n
return new
Iterator(function() \n
{return ii < this$0.size ? iteratorValue(type, ii++, this$0._value) : iteratorDone()}\n
);\n
};\n\n Repeat.prototype.equals = function(other) {\n
return other instanceof Repeat ?\n
is(this._value,
other._value) :\n
deepEqual(other);\n };\n\n\n var EMPTY_REPEAT;\n\n function invariant(condition, error)
{\n if (!condition) throw new Error(error);\n }\n\n createClass(Range, IndexedSeq);\n\n function Range(start,
end, step) {\n
if (!(this instanceof Range)) {\n
return new Range(start, end, step);\n
}\n
invariant(step
!== 0, 'Cannot step a Range by 0');\n
start = start || 0;\n
if (end === undefined) {\n
end = Infinity;\n
}\n
step = step === undefined ? 1 : Math.abs(step);\n
if (end < start) {\n
step = -step;\n
}\n
this._start =
start;\n
this._end = end;\n
this._step = step;\n
this.size = Math.max(0, Math.ceil((end - start) / step - 1) +
1);\n
if (this.size === 0) {\n
if (EMPTY_RANGE) {\n
return EMPTY_RANGE;\n
}\n
EMPTY_RANGE = this;\n
}\n }\n\n Range.prototype.toString = function() {\n
if (this.size === 0) {\n
return 'Range []';\n
}\n
return 'Range [ ' +\n
this._start + '...' + this._end +\n
(this._step !== 1 ? ' by ' +

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this._step = '\n' + this._step + i;

//
}

Range.prototype.get = function(index, notSetValue) {
  return this.has(index) ?
    this._start + wrapIndex(this.index, this._step) : notSetValue;
}

Range.prototype.includes = function(searchValue) {
  var possibleIndex = (searchValue - this._start) / this._step;
  return possibleIndex >= 0 && possibleIndex < this.size &&
    possibleIndex == Math.floor(possibleIndex);
}

Range.prototype.slice = function(begin, end) {
  if (wholeSlice(begin, end, this.size)) {
    return this._start + this.size;
  } else {
    return this._start + begin <= this.size &&
      begin <= end &&
      end <= this.size ?
        new Range(this._start + begin, this._end, this._step) :
        new Range(0, 0);
  }
}

Range.prototype.indexOf = function(searchValue) {
  var possibleIndex = (searchValue - this._start) / this._step;
  return possibleIndex >= 0 && possibleIndex < this.size &&
    possibleIndex == Math.floor(possibleIndex) ?
      this._start + possibleIndex : -1;
}

Range.prototype.lastIndexOf = function(searchValue) {
  return this.indexOf(searchValue);
}

Range.prototype.__iterate = function(fn, reverse) {
  var maxIndex = this.size - 1;
  var step = this._step;
  var value = reverse ? this._start + maxIndex * step :
    this._start + step * step;
  for (var ii = 0; ii <= maxIndex; ii++) {
    if (fn(value, ii, this) !== false) {
      return ii + 1;
    }
    value += reverse ? -step : step;
  }
}

Range.prototype.__iterator = function(type, reverse) {
  var maxIndex = this.size - 1;
  var step = this._step;
  var value = reverse ? this._start + maxIndex * step :
    this._start + step * step;
  var value += reverse ? -step : step;
  for (var ii = 0; ii <= maxIndex; ii++) {
    if (fn(value, ii, this) !== false) {
      return ii + 1;
    }
    value += reverse ? -step : step;
  }
}

Range.prototype.equals = function(other) {
  if (other._step !== this._step) {
    return false;
  } else {
    var value = reverse ? this._start + maxIndex * step :
      this._start + step * step;
    for (var ii = 0; ii <= maxIndex; ii++) {
      if (fn(value, ii, this) !== false) {
        return ii + 1;
      }
      value += reverse ? -step : step;
    }
  }
}

Range.prototype.indexOf = function(searchValue) {
  var possibleIndex = (searchValue - this._start) / this._step;
  return possibleIndex >= 0 && possibleIndex < this.size &&
    possibleIndex == Math.floor(possibleIndex) ?
      this._start + possibleIndex : -1;
}

Range.prototype.lastIndexOf = function(searchValue) {
  return this.indexOf(searchValue);
}

Range.prototype.__iterate = function(fn, reverse) {
  var maxIndex = this.size - 1;
  var step = this._step;
  var value = reverse ? this._start + maxIndex * step :
    this._start + step * step;
  for (var ii = 0; ii <= maxIndex; ii++) {
    if (fn(value, ii, this) !== false) {
      return ii + 1;
    }
    value += reverse ? -step : step;
  }
}

Range.prototype.equals = function(other) {
  if (other._step !== this._step) {
    return false;
  } else {
    var value = reverse ? this._start + maxIndex * step :
      this._start + step * step;
    for (var ii = 0; ii <= maxIndex; ii++) {
      if (fn(value, ii, this) !== false) {
        return ii + 1;
      }
      value += reverse ? -step : step;
    }
  }
}

Range.prototype.indexOf = function(searchValue) {
  var possibleIndex = (searchValue - this._start) / this._step;
  return possibleIndex >= 0 && possibleIndex < this.size &&
    possibleIndex == Math.floor(possibleIndex) ?
      this._start + possibleIndex : -1;
}

Range.prototype.lastIndexOf = function(searchValue) {
  return this.indexOf(searchValue);
}

Range.prototype.__iterate = function(fn, reverse) {
  var maxIndex = this.size - 1;
  var step = this._step;
  var value = reverse ? this._start + maxIndex * step :
    this._start + step * step;
  for (var ii = 0; ii <= maxIndex; ii++) {
    if (fn(value, ii, this) !== false) {
      return ii + 1;
    }
    value += reverse ? -step : step;
  }
}

Range.prototype.equals = function(other) {
  if (other._step !== this._step) {
    return false;
  } else {
    var value = reverse ? this._start + maxIndex * step :
      this._start + step * step;
    for (var ii = 0; ii <= maxIndex; ii++) {
      if (fn(value, ii, this) !== false) {
        return ii + 1;
      }
      value += reverse ? -step : step;
    }
  }
}

Range.prototype.indexOf = function(searchValue) {
  var possibleIndex = (searchValue - this._start) / this._step;
  return possibleIndex >= 0 && possibleIndex < this.size &&
    possibleIndex == Math.floor(possibleIndex) ?
      this._start + possibleIndex : -1;
}

Range.prototype.lastIndexOf = function(searchValue) {
  return this.indexOf(searchValue);
}

Range.prototype.__iterate = function(fn, reverse) {
  var maxIndex = this.size - 1;
  var step = this._step;
  var value = reverse ? this._start + maxIndex * step :
    this._start + step * step;
  for (var ii = 0; ii <= maxIndex; ii++) {
    if (fn(value, ii, this) !== false) {
      return ii + 1;
    }
    value += reverse ? -step : step;
  }
}

Range.prototype.equals = function(other) {
  if (other._step !== this._step) {
    return false;
  } else {
    var value = reverse ? this._start + maxIndex * step :
      this._start + step * step;
    for (var ii = 0; ii <= maxIndex; ii++) {
      if (fn(value, ii, this) !== false) {
        return ii + 1;
      }
      value += reverse ? -step : step;
    }
  }
}

Range.prototype.indexOf = function(searchValue) {
  var possibleIndex = (searchValue - this._start) / this._step;
  return possibleIndex >= 0 && possibleIndex < this.size &&
    possibleIndex == Math.floor(possibleIndex) ?
      this._start + possibleIndex : -1;
}

Range.prototype.lastIndexOf = function(searchValue) {
  return this.indexOf(searchValue);
}

Range.prototype.__iterate = function(fn, reverse) {
  var maxIndex = this.size - 1;
  var step = this._step;
  var value = reverse ? this._start + maxIndex * step :
    this._start + step * step;
  for (var ii = 0; ii <= maxIndex; ii++) {
    if (fn(value, ii, this) !== false) {
      return ii + 1;
    }
    value += reverse ? -step : step;
  }
}
hashJSObj(obj) {  
  var hash;
  if (usingWeakMap) {  
    hash = weakMap.get(obj);
  } else if (canDefineProperty) {  
    hash = obj.propertyIsEnumerable &
    obj.propertyIsEnumerable[UID_HASH_KEY];
  } else if (isExtensible !== undefined && isExtensible(obj) === false) {  
    throw new Error('Non-extensible objects are not allowed as keys.');
  } else if (canDefineProperty) {  
    Object.defineProperty(obj, UID_HASH_KEY, {  
      'enumerable': false,
      'configurable': false,
      'writable': false,
      'value': hash
    });
  } else if (obj.nodeType !== undefined) {  
    obj[UID_HASH_KEY] = hash;
  } else {  
    throw new Error('Unable to set a non-enumerable property on object.');
  }
  return hash;
}

getIENodeHash(node) {  
  if (node && node.nodeType > 0) {
    switch (node.nodeType) {
      case 1: // Element
        return node.uniqueID;
      case 9: // Document
        return node.documentElement && node.documentElement.uniqueID;
    }
  }
}

Symbol(UID_HASH_KEY);  
var STRING_HASH_CACHE_MIN_STRLEN = 16;  
var STRING_HASH_CACHE_MAX_SIZE = 255;  
var STRING_HASH_CACHE_SIZE = 0;  
var stringHashCache = {};

createClass(Map, KeyedCollection);

    // @pragma Construction

function Map(value) {  
  return value === null || value === undefined ? emptyMap() :
    isMap(value) && !isOrdered(value) ? value :
    emptyMap().withMutations(function(map ) {  
      var iter = KeyedIterable(value);
      assertNotInfinite(iter.size);
      iter.forEach(function(v, k)  {return map.set(k, v)});
    });
}

Map.of = function() {var keyValues = SLICE$0.call(arguments, 0);  
  return emptyMap().withMutations(function(map ) {  
    for (var i = 0; i < keyValues.length; i += 2) {
      map.set(keyValues[i], keyValues[i + 1]);
    }
  });
}

Map.prototype.toString = function() {  
  return this.__toString('Map {', '}');
}

    // @pragma Access

Map.prototype.get = function(k, notSetValue) {  
  return this._root ?
    this._root.get(0, undefined, k, notSetValue) :
    notSetValue;
}

Map.prototype.set = function(k, v) {  
  return updateMap(this, k, v);
}

Map.prototype.setIn = function(keyPath, v) {  
  return this.updateIn(keyPath, NOT_SET, function()  {return v});
}

Map.prototype.remove = function(k) {  
  return updateMap(this, k, NOT_SET);
}

Map.prototype.deleteIn = function(keyPath) {  
  return this.updateIn(keyPath, function()  {return NOT_SET});
}

Map.prototype.update = function(k, notSetValue, updater) {  
  return arguments.length
    === 1 ?
    updater({
      keyPath: k,
      notSetValue: notSetValue,
      updater: updater
    });
}

Map.prototype.updateIn = function(keyPath, notSetValue, updater) {  
  return arguments.length
    === 1 ?
    updater({
      keyPath: keyPath,
      notSetValue: notSetValue,
      updater: updater
    });
}

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undefined;
\n\nvar updatedValue = updateInDeepMap(\n  this, \n  forceIterator(keyPath), \n  notSetValue, \n  updater, \n  \n  return updatedValue === NOT_SET ? undefined : updatedValue; \n}\n\nMap.prototype.clear = function() { \n  if (this.size === 0) { return this; } \n  if (this._ownerID) { \n    this.size = 0; \n    this._root = null; \n    this._hash = undefined; \n    this._altered = true; \n    return this; \n  } \n  return emptyMap(); \n}; \n\n// @pragma Composition
\nMap.prototype.merge = function(*...iters) { \n  return mergeIntoMapWith(this, undefined, arguments); \n}; \n\nMap.prototype.mergeWith = function(merger) { \n  var iters = SLICES.call(arguments, 1); \n  return mergeIntoMapWith(this, merger, iters); \n}; \n\nMap.prototype.mergeDeep = function(*...iters) { \n  return mergeIntoMapWith(this, deepMerger, arguments); \n}; \n\nMap.prototype.mergeDeepIn = function(keyPath) { \n  var iters = SLICES.call(arguments, 1); \n  return this.updateIn(keyPath, \n    emptyMap(), \n    function(m) { \n      return typeof m.mergeDeep === 'function' ? m.mergeDeep.apply(m, iters) : iters[iters.length - 1]; \n    } \n  ); \n}; \n\nMap.prototype.sort = function(comparator) { \n  if (this.size === 0) { return this; } \n  return new OrderedMap(sortFactory(this, comparator)); \n}; \n\nMap.prototype.sortBy = function(mapper, comparator) { \n  if (this.size === 0) { return new OrderedMap(sortFactory(this, comparator, mapper)); } \n  return new OrderedMap(sortFactory(this, comparator, mapper)); \n}; \n\nArrayMapNode.prototype.get = function(shift, keyHash, key, notSetValue) { \n  var entries = this.entries; \n  for (var ii = 0, len = entries.length; ii < len; ii++) { \n    if (is(key, entries[ii][0])) { \n      return entries[ii][1]; \n    } \n  } \n  return notSetValue; \n}; \n\nArrayMapNode.prototype.update = function(ownerID, shift, keyHash, key, value, didChangeSize, didAlter) { \n  var removed = value === NOT_SET; \n  var exists = keyHash === value; \n  var isMap = isMap(ownerID); \n  var isImmutable = isMap(ownerID); \n  var map = MapPrototype[IS_MAP_SENTINEL]; \n  var arrayMapNode = ArrayMapNode(ownerID, entries); \n  if (arrayMapNode.prototype.get = function(\n    shift, keyHash, key, notSetValue) { \n    var exists = entries[ii]; \n    for (var ii = 0, len = entries.length; ii < len; ii++) { \n      if (is(key, entries[ii][0])) { \n        return entries[ii][1]; \n      } \n    } \n  } \n  return this; \n}; \n\nArrayMapNode.prototype.update = function(ownerID, shift, keyHash, key, value, didChangeSize, didAlter) { \n  var removed = value === NOT_SET; \n  var exists = entries[ii]; \n  if (is(key, entries[ii][0])) { \n    return entries[ii][1]; \n  } \n}; \n\nArrayMapNode.prototype.update = function(ownerID, shift, keyHash, key, value, didChangeSize, didAlter) { \n  var removed = value === NOT_SET; \n  var exists = entries[ii]; \n  if (is(key, entries[ii][0])) { \n    return entries[ii][1]; \n  } \n}; \n\nArrayMapNode.prototype.update = function(ownerID, shift, keyHash, key, value, didChangeSize, didAlter) { \n  var removed = value === NOT_SET; \n  var exists = entries[ii]; \n  if (is(key, entries[ii][0])) { \n    return entries[ii][1]; \n  } \n};
BitmapIndexedNode.prototype.get = function(shift, keyHash, key, notSetValue) {
  if (keyHash === undefined) {
    keyHash = hash(key);
  }
  var bit = 1 << ((shift === 0 ? keyHash : keyHash >>> shift) & MASK);
  var bitmap = this.bitmap;
  var var exists = (bitmap & bit) !== 0;
  if (!var exists) return notSetValue;
  var return this; //returns the node
}

BitmapIndexedNode.prototype.update = function(ownerID, shift, keyHash, key, value, didChangeSize, didAlter) {
  if (keyHash === undefined) {
    keyHash = hash(key);
  }
  var keyHashFrag = (shift === 0 ? keyHash : keyHash >>> shift) & MASK;
  var var id = popCount(bitmap & (bit - 1));
  var var nodes = this.nodes;
  var var node = exists
  ? nodes[idx] : undefined;
  var newVar = updateNode(node, ownerID, shift + SHIFT, keyHash, key, value, didChangeSize, didAlter);
  if (newVar === node) return this;
  var newCount = this.count;
  if (!node) {
    newCount++;
  } else if (isNewNode) {
    newCount--;
    if (newCount < MINHASHARRAYMAP_SIZE) {
      return expandNodes(ownerID, nodes, keyHashFrag, newVar);
    }
  }
  var isEditable = ownerID && ownerID === this.ownerID;
  var newNodes = setIn(nodes, id, newVar, isEditable);
  if (isEditable) {
    this.bitmap = new_BITMAP_INDEXED_SIZE;
    this.count = count;
    this.nodes = newNodes;
  }
  return new VarArrayMapNode(ownerID, count, nodes);
}

HashArrayMapNode.prototype.get = function(shift, keyHash, key, notSetValue) {
  var idx = (shift === 0 ? keyHash : keyHash >>> shift) & MASK;
  var node = this.nodes[idx];
  return node ? node.get(shift + SHIFT, keyHash, key, value, didChangeSize, didAlter) : notSetValue;
}

HashArrayMapNode.prototype.update = function(ownerID, shift, keyHash, key, value, didChangeSize, didAlter) {
  if (keyHash === undefined) {
    keyHash = hash(key);
  }
  var idx = (shift === 0 ? keyHash : keyHash >>> shift) & MASK;
  var var removed = value === NOT_SET;
  var nodes = this.nodes;
  var var node = nodes[idx];
  if (removed && !node) return this;
  var newNode = updateNode(node, ownerID, shift + SHIFT, keyHash, key, value, didChangeSize, didAlter);
  if (newNode === node) return this;
  var newCount = this.count;
  var node = exists
  ? nodes[idx] : undefined;
  var newNodes = setIn(nodes, id, newNode, isEditable);
  if (isEditable) {
    this.bitmap = new_BITMAP_INDEXED_SIZE;
    this.count = count;
    this.nodes = newNodes;
  }
  return new VarArrayMapNode(ownerID, count, nodes);
}

HashCollisionNode.prototype.get = function(shift, keyHash, entries) {
  var entries = this.entries;
  for (var ii = 0; ii < len; ii++) {
    if (is(key, entries[ii][0])) {
      return entries[ii][1];
    }
  }
  return notSetValue;
}

HashCollisionNode.prototype.update = function(ownerID, shift, keyHash, key, value, didChangeSize, didAlter) {
  if (keyHash === undefined) {
    keyHash = hash(key);
  }
  var idx = (shift === 0 ? keyHash : keyHash >>> shift) & MASK;
  var var removed = value === NOT_SET;
  var nodes = this.nodes;
  var var node = nodes[idx];
  if (removed && !node) return this;
  var newNode = updateNode(node, ownerID, shift + SHIFT, keyHash, key, value, didChangeSize, didAlter);
  if (newNode === node) return this;
  var newCount = this.count;
  var node = exists
  ? nodes[idx] : undefined;
  var newNodes = setIn(nodes, id, newNode, isEditable);
  if (isEditable) {
    this.bitmap = new_BITMAP_INDEXED_SIZE;
    this.count = count;
    this.nodes = newNodes;
  }
  return new VarArrayMapNode(ownerID, count, nodes);
}
```javascript
isEditable ? entries : arCopy(entries); // if (exists) {
  if (removed) {
    idx === len - 1 ?
      newEntries.pop() : (newEntries[idx] = [key, value]);
  } else {
    newEntries.push([key, value]);
  }
}

if (exists) {
  if (removed) {
    idx === len - 1 ?
      newEntries.pop() : (newEntries[idx] = newEntries.pop());
  } else {
    newEntries.push([key, value]);
  }
}

if (exists) {
  if (removed) {
    idx === len - 1 ?
      newEntries.pop() : (newEntries[idx] = newEntries.pop());
  } else {
    newEntries.push([key, value]);
  }
}

if (exists) {
  if (removed) {
    idx === len - 1 ?
      newEntries.pop() : (newEntries[idx] = newEntries.pop());
  } else {
    newEntries.push([key, value]);
  }
}

if (exists) {
  if (removed) {
    idx === len - 1 ?
      newEntries.pop() : (newEntries[idx] = newEntries.pop());
  } else {
    newEntries.push([key, value]);
  }
}

if (isEditable) {
  this.entries =
    newEntries;
  return this;
}

return new HashCollisionNode(ownerID, this.keyHash, newEntries);

}

};


    function ValueNode(ownerID, keyHash, entry) {
      this.ownerID = ownerID;
      this.keyHash =
        keyHash;
      this.entry = entry;
    }

    ValueNode.prototype.get = function(shift, keyHash, key, notSetValue) {
      return is(key, this.entry[0]) ? this.entry[1] : notSetValue;
    };

    ValueNode.prototype.update = function(ownerID, shift, keyHash, key, value, didChangeSize, didAlter) {
      var var removed = value ===
        NOT_SET;
      if (var keyMatch = is(key, this.entry[0])) {
        if (keyMatch ? value === this.entry[1] : removed) {
          return this;
        }
      }
      var subNode = node.nodes[this._reverse ? maxIndex - index : index];
      if (subNode) {
        if (subNode.entry) {
          return mapIteratorValue(type, subNode.entry);
        }
        stack = this._stack = mapIteratorFrame(subNode, stack);
        continue;
      }
      return iteratorDone();
    };

    function mapIteratorValue(type, entry) {
      return iteratorValue(type, entry[0], entry[1]);
    }

    function mapIteratorFrame(node, prev) {
      return {
        node: node,
        index: 0,
        __prev: prev
      };
    }

    function makeMap(size, root, ownerID, hash) {
      var map =
        Object.create(MapPrototype);
      map.size = size;
      map._root = root;
      map.__ownerID = ownerID;
      map.__hash = hash;
      map.__altered = false;
      return map;
    }

    function updateMap(map, k, v) {
      var newNode;
      var newSize;
      if (!map._root) {
        if (v === NOT_SET) {
          return map;
        }
        newSize = 1;
        newNode = new ArrayMapNode(map.__ownerID, [[k, v]]);
      } else {
        var didChangeSize =
          MakeRef(CHANGE_LENGTH);
        var var didAlter = MakeRef(DID_ALTER);
        var newRoot =
          updateNode(map._root, map.__ownerID, 0, undefined, k, v, didChangeSize, didAlter);
        if (!didAlter.value) {
          return map;
        }
        newSize = 1;
        newRoot = new ArrayMapNode(map.__ownerID, [[k, v]]);
      }
      return function updateNode(node, ownerID, shift, keyHash, key, value, didChangeSize, didAlter) {
        if (func) {
          var map_ =
            node.map;
          var map__hash = map._hash;
          map.__altered = false;
          return map_;
        }
        var emptyMap =
          Object.create(MapPrototype);
        var emptySize = size;
        return emptyMap;
      };
    }

    function updateNode(map, k, v) {
      var newNode;
      var newSize;
      if (!map._root) {
        if (v === NOT_SET) {
          return map;
        }
        newSize = 1;
        newNode = new ArrayMapNode(map.__ownerID, [[k, v]]);
      } else {
        var didChangeSize =
          MakeRef(CHANGE_LENGTH);
        var var didAlter = MakeRef(DID_ALTER);
        var newRoot =
          updateNode(map._root, map.__ownerID, 0, undefined, k, v, didChangeSize, didAlter);
        if (!didAlter.value) {
          return map;
        }
        newSize = 1;
        newRoot = new ArrayMapNode(map.__ownerID, [[k, v]]);
      }
      var emptyMap =
        Object.create(MapPrototype);
      var emptySize = size;
      return emptyMap;
    }
```
function mergeIntoNode(node, ownerID, shift, keyHash, entry) {
  if (node.keyHash === keyHash) {
    return new HashCollisionNode(ownerID, keyHash, [node.entry, entry]);
  }

  var idx1 = (shift === 0 ? node.keyHash : node.keyHash >>> shift) & MASK;
  var idx2 = (shift === 0 ? keyHash : keyHash >>> shift) & MASK;

  var newNode = new Node(ownerID, node, shift + SHIFT, keyHash, entry);

  if (node.constructor === HashCollisionNode) {
    return new HashCollisionNode(ownerID, keyHash, [node.entry, entry]);
  }

  for (var ii = 0; ii < entries.length; ii++) {
    var newEntry = entries[ii];
    newNode = mergeIntoNode(newNode, ownerID, shift, keyHash, newEntry);
  }

  return newNode;
}

function mergeIntoMapWith(map, merger, iterables) {
  var iters = [];
  for (var ii = 0; ii < iterables.length; ii++) {
    var value = iterables[ii];
    var iter = KeyedIterable(value);
    if (!isIterable(value)) {
      iter = iter.map(function(v) {return fromJS(v)});
    }
    iters.push(iter);
  }

  return mergeIntoCollectionWith(map, merger, iters);
}

function deepMerger(existing, value, key) {
  return existing && existing.mergeDeep && isIterable(value) ?
    existing.mergeDeep(value) :
      is(existing, value) ? existing : value;
}

function deepMergerWith(merger) {
  return function(existing, value, key) {
    if (existing && existing.mergeDeepWith && isIterable(value)) {
      return existing.mergeDeepWith(merger, value);
    }
    var nextValue = merger(existing, value, key);
    return is(existing, nextValue) ? existing : nextValue;
  };
}

function mergeIntoCollectionWith(collection, merger, iters) {
  iters = iters.filter(function(x) {return x.size !== 0});
  if (iters.length === 0) {
    return collection;
  }
  if (collection.size === 0 && !collection.__ownerID && iters.length === 1) {
    return collection.constructor(iters[0]);
  }

  var mergeIntoMap = merger ?
    function(value, key) {
      collection.update(key, NOT_SET, function(existing) {
        return existing === NOT_SET ? value : merger(existing, value, key);
      });
    } :
    function(value, key) {
      collection.set(key, value);
    };

  for (var ii = 0; ii < iters.length; ii++) {
    iters[ii].forEach(mergeIntoMap);
  }

  return collection;
}

function popCount(x) {
  x = x - ((x >> 1) & 0x55555555);
  x = (x & 0x33333333) + ((x >> 2) & 0x33333333);
  x = (x + (x >> 4)) & 0x0f0f0f0f;
  x = x + (x >> 8);
  x = x + (x >> 16);
  return x & 0x7f;
}

function setIn(array, idx, val, canEdit) {
  var newArray = canEdit ? array : arrCopy(array);
  newArray[idx] = val;
  return newArray;
}

function spliceIn(array, idx, val, canEdit) {
  var newLen = array.length + 1;
  if (canEdit && idx + 1 === newLen) {
    array[idx] = val;
    return array;
  }
  var newArray = new Array(newLen);
  var after = 0;
  for (var ii = 0; ii < newLen; ii++) {
    if (ii === idx) {
      newArray[ii] = val;
      after = -1;
    } else {
      newArray[ii] = array[ii + after];
    }
  }
  return newArray;
}

function spliceOut(array, idx, canEdit) {
  var newLen = array.length - 1;
  if (canEdit && idx + 1 === newLen) {
    array[idx] = null;
    return array;
  }
  var newArray = new Array(newLen);
  for (var ii = 0; ii < newLen; ii++) {
    newArray[ii] = array[ii + after];
  }
  return newArray;
}
value, step); } return filterSequence; } function countByFactory(iterable, grouper, context) { var groups = Map().asMutable(); iterable._iterate(function(v, k) { groups.update(grouper.call(context, v, k, iterable), 0, function(a) { return a + 1 }); }); return groups.asImmutable(); } function groupByFactory(iterable, grouper, context) { var isKeyedIter = isKeyed(iterable); var groups = isOrdered(iterable) ? OrderedMap() : Map(); iterable._iterate(function(v, k, iterable) { var step; } else if (type === ITERATE_KEYS) { return iteratorValue(type, iterations - 1, step.value[1], step); } else if (type === ITERATE_VALUES) { return iteratorValue(type, iterations - 1, step.value[0], step); } return iteratorValue(type, iterations - 1, step.value[0], step); } else if (type === ITERATE_ENTRIES) { return iteratorValue(type, iterations - 1, step.value[0], step); } else if (type === ITERATE_VALUES) { return iteratorValue(type, iterations - 1, step.value[1], step); } else if (type === ITERATE_KEYS) { return iteratorValue(type, iterations - 1, step.value[1], step); } return iteratorValue(type, iterations - 1, step.value[0], step); } else if (type === ITERATE_ENTRIES) { return iteratorValue(type, iterations - 1, step.value[0], step); } else if (type === ITERATE_VALUES) { return iteratorValue(type, iterations - 1, step.value[1], step); } else if (type === ITERATE_KEYS) { return iteratorValue(type, iterations - 1, step.value[1], step); } return iteratorValue(type, iterations - 1, step.value[0], step); } else if (type === ITERATE_ENTRIES) { return iteratorValue(type, iterations - 1, step.value[0], step); } else if (type === ITERATE_VALUES) { return iteratorValue(type, iterations - 1, step.value[1], step); } else if (type === ITERATE_KEYS) { return iteratorValue(type, iterations - 1, step.value[1], step); } return iteratorValue(type, iterations - 1, step.value[0], step); } else if (type === ITERATE_ENTRIES) { return iteratorValue(type, iterations - 1, step.value[0], step); } else if (type === ITERATE_VALUES) { return iteratorValue(type, iterations - 1, step.value[1], step); } else if (type === ITERATE_KEYS) { return iteratorValue(type, iterations - 1, step.value[1], step); } return iteratorValue(type, iterations - 1, step.value[0], step); } else if (type === ITERATE_ENTRIES) { return iteratorValue(type, iterations - 1, step.value[0], step); } else if (type === ITERATE_VALUES) { return iteratorValue(type, iterations - 1, step.value[1], step); } else if (type === ITERATE_KEYS) { return iteratorValue(type, iterations - 1, step.value[1], step); } return iteratorValue(type, iterations - 1, step.value[0], step); } else if (type === ITERATE_ENTRIES) { return iteratorValue(type, iterations - 1, step.value[0], step); } else if (type === ITERATE_VALUES) { return iteratorValue(type, iterations - 1, step.value[1], step); } else if (type === ITERATE_KEYS) { return iteratorValue(type, iterations - 1, step.value[1], step); } return iteratorValue(type, iterations - 1, step.value[0], step); } else if (type === ITERATE_ENTRIES) { return iteratorValue(type, iterations - 1, step.value[0], step); } else if (type === ITERATE_VALUES) { return iteratorValue(type, iterations - 1, step.value[1], step); } else if (type === ITERATE_KEYS) { return iteratorValue(type, iterations - 1, step.value[1], step); } return iteratorValue(type, iterations - 1, step.value[0], step); } else if (type === ITERATE_ENTRIES) { return iteratorValue(type, iterations - 1, step.value[0], step); } else if (type === ITERATE_VALUES) { return iteratorValue(type, iterations - 1, step.value[1], step); } else if (type === ITERATE_KEYS) { return iteratorValue(type, iterations - 1, step.value[1], step); } return iteratorValue(type, iterations - 1, step.value[0], step); } else if (type === ITERATE_ENTRIES) { return iteratorValue(type, iterations - 1, step.value[0], step); } else if (type === ITERATE_VALUES) { return iteratorValue(type, iterations - 1, step.value[1], step); } else if (type === ITERATE_KEYS) { return iteratorValue(type, iterations - 1, step.value[1], step); } return iteratorValue(type, iterations - 1, step.value[0], step); } else if (type === ITERATE_ENTRIES) { return iteratorValue(type, iterations - 1, step.value[0], step); } else if (type === ITERATE_VALUES) { return iteratorValue(type, iterations - 1, step.value[1], step); } else if (type === ITERATE_KEYS) { return iteratorValue(type, iterations - 1, step.value[1], step); } return iteratorValue(type, iterations - 1, step.value[0], step); } else if (type === ITERATE_ENTRIES) { return iteratorValue(type, iterations - 1, step.value[0], step); } else if (type === ITERATE_VALUES) { return iteratorValue(type, iterations - 1, step.value[1], step); } else if (type === ITERATE_KEYS) { return iteratorValue(type, iterations - 1, step.value[1], step); } return iteratorValue(type, iterations - 1, step.value[0], step); } else if (type === ITERATE_ENTRIES) { return iteratorValue(type, iterations - 1, step.value[0], step); } else if (type === ITERATE_VALUES) { return iteratorValue(type, iterations - 1, step.value[1], step); } else if (type === ITERATE_KEYS) { return iteratorValue(type, iterations - 1, step.value[1], step); } return iteratorValue(type, iterations - 1, step.value[0], step); } else if (type === ITERATE_ENTRIES) { return iteratorValue(type, iterations - 1, step.value[0], step); } else if (type === ITERATE_VALUES) { return iteratorValue(type, iterations - 1, step.value[1], step); } else if (type === ITERATE_KEYS) { return iteratorValue(type, iterations - 1, step.value[1], step); } return iteratorValue(type, iterations - 1, step.value[0], step); } else if (type === ITERATE_ENTRIES) { return iteratorValue(type, iterations - 1, step.value[0], step); } else if (type === ITERATE_VALUES) { return iteratorValue(type, iterations - 1, step.value[1], step); } else if (type === ITERATE_KEYS) { return iteratorValue(type, iterations - 1, step.value[1], step); } return iteratorValue(type, iterations - 1, step.value[0], step); } else if (type === ITERATE_ENTRIES) { return iteratorValue(type, iterations - 1, step.value[0], step); } else if (type === ITERATE_VALUES) { return iteratorValue(type, iterations - 1, step.value[1], step); } else if (type === ITERATE_KEYS) { return iteratorValue(type, iterations - 1, step.value[1], step); } return iteratorValue(type, iterations - 1, step.value[0], step); } else if (type === ITERATE_ENTRIES) { return iteratorValue(type, iterations - 1, step.value[0], step); } else if (type === ITERATE_VALUES) { return iteratorValue(Open Source Used In Cisco Modeling Labs 2.2 3741
type === ITERATE_ENTRIES ? step : 
  iteratorValue(type, k, v, step) : 
  return takeSequence(); 
});

function skipWhileFactory(iterable, predicate, context, useKeys) {
  var skipSequence = makeSequence(iterable); 
  skipSequence.__iterateUncached = function (fn, reverse) {
    var this$0 = this; 
    if (reverse) {
      return this.cacheResult();
    }
  };

  var isSkipping = true; 
  var iterations = 0; 
  var iterator = iterable.__iterate(function (v, k, c) {
    if (!isSkipping & & (isSkipping = predicate.call(context, v, k, c))) {
      iterations++; 
      return fn(v, useKeys ? k : iterations - 1, this$0); 
    }
  }, reverse); 

  return iterations; 
};

var v = step.value; 

if (type === ITERATE_ENTRIES) {
  return step; 
} else if (type === ITERATE_KEYS) {
  return iteratorValue(type, iterations++, undefined, step); 
} else if (useKeys || type === ITERATE_VALUES) {
  return step; 
} else if (type === ITERATE_ENTRIES) {
  return skipSequence(); 
} else if (isKeyedIterable) {
  return skipSequence(); 
}
else if (isIndexed) {
  var skipSequence = new ArraySeq(itors); 
}
else if (isKeyedIterable) {
  return skipSequence(); 
} else if (isIndexed) {
  var skipSequence = new ArraySeq(itors); 
}
else if (isKeyedIterable) {
  return skipSequence(); 
} else if (isIndexed) {
  var skipSequence = new ArraySeq(itors); 
}

var v = step.value; 

if (type === ITERATE_ENTRIES) {
  return step; 
} else if (type === ITERATE_KEYS) {
  return iteratorValue(type, iterations++, undefined, step); 
} else if (useKeys || type === ITERATE_VALUES) {
  return step; 
} else if (type === ITERATE_ENTRIES) {
  return skipSequence(); 
} else if (isKeyedIterable) {
  return skipSequence(); 
}
else if (isIndexed) {
  var skipSequence = new ArraySeq(itors); 
}
else if (isKeyedIterable) {
  return skipSequence(); 
} else if (isIndexed) {
  var skipSequence = new ArraySeq(itors); 
}

var v = step.value; 

if (type === ITERATE_ENTRIES) {
  return step; 
} else if (type === ITERATE_KEYS) {
  return iteratorValue(type, iterations++, undefined, step); 
} else if (useKeys || type === ITERATE_VALUES) {
  return step; 
} else if (type === ITERATE_ENTRIES) {
  return skipSequence(); 
} else if (isKeyedIterable) {
  return skipSequence(); 
}
else if (isIndexed) {
  var skipSequence = new ArraySeq(itors); 
}
else if (isKeyedIterable) {
  return skipSequence(); 
} else if (isIndexed) {
  var skipSequence = new ArraySeq(itors); 
}
RecordTypePrototype = RecordType.prototype = Object.create(RecordPrototype);

RecordTypePrototype.constructor = RecordType;

return RecordType;

Record.prototype.toString = function() {
  return this.__toString(recordName(this) + ' {', '}');
}

// @pragma Access

Record.prototype.has = function(k) {
  return this._defaultValues.hasOwnProperty(k);
}

Record.prototype.get = function(k, notSetValue) {
  if (!this.has(k)) {
    return notSetValue;
  }
  var defaultVal = this._defaultValues[k];
  return this._map ? this._map.get(k, defaultVal) : defaultVal;
}

return RecordType;

Record.prototype.constructor = RecordType;

return RecordType;

Record.prototype.clear = function() {
  var RecordType = this.constructor;
  return RecordType._empty || (RecordType._empty = makeRecord(this, emptyMap()));
}

Record.prototype.set = function(k, v) {
  if (!this.has(k)) {
    throw new Error('Cannot set unknown key "' + k + '" on ' + recordName(this));
  }
  if (this._map && !this._map.has(k)) {
    var defaultVal = this._defaultValues[k];
    if (v === defaultVal) {
      return this;
    }
  }
  var newMap = this._map && this._map.set(k, v);
  if (this.__ownerID || newMap === this._map) {
    return this;
  }
  return makeRecord(this, newMap, ownerID);
}

Record.prototype.remove = function(k) {
  if (!this.has(k)) {
    return this;
  }
  var newMap = this._map && this._map.remove(k);
  if (this.__ownerID || newMap === this._map) {
    return this;
  }
  return makeRecord(this, newMap, ownerID);
}

Record.prototype.wasAltered = function() {
  return this._map.wasAltered();
}

function makeRecord(likeRecord, map, ownerID) {
  var record = Object.create(Object.getPrototypeOf(likeRecord));
  record._map = map;
  record.__ownerID = ownerID;
  return record;
}

function recordName(record) {
  return record._name || record.constructor.name || 'Record';
}

function setProps(prototype, names) {
  try {
    names.forEach(setProp.bind(undefined, prototype));
  } catch (error) {
  }
}

function setProp(prototype, name) {
  Object.defineProperty(prototype, name, {
    get: function() {
      return this.get(name);
    },
    set: function(value) {
      invariant(this.__ownerID, "Cannot set on an immutable record.");
      this.set(name, value);
    }
  });
}

createClass(Set, SetCollection);

function Set(value) {
  return value === null || value === undefined ? emptySet() :
    isSet(value) && !isOrdered(value) ? value :
    emptySet().withMutations(function(set) {
      var iter = SetIterable(value);
      assertNotInfinite(iter.size);
     Probably IE8.
    }
    setProp.bind(prototype, name));
  }
}

function setProps(prototype, names) {
  try {
    names.forEach(setProp.bind(prototype, name));
  } catch (error) {
  }
}

function setProp(prototype, name) {
  Object.defineProperty(prototype, name, {
    get: function() {
      return this.get(name);
    },
    set: function(value) {
      invariant(this.__ownerID, "Cannot set on an immutable record.");
      this.set(name, value);
    }
  });
}

createClass(Set, SetCollection);

// @pragma Construction

function SetCollection() {
  // @pragma Access

  function has(value) {
    return this._map.has(value);
  }

  function add(value) {
    return this._map.set(value, true);
  }

  function remove(value) {
    return this._map.remove(value);
  }
}

Set.prototype.toString = function() {
  return this.__toString('Set {', '}');
}

// @pragma Access

Set.prototype.add = function(value) {
  return updateSet(this, this._map.set(value, true));
}

Set.prototype.remove = function(value) {
  return updateSet(this, this._map.remove(value));
}

/* */
Set.prototype.clear = function() { 
    return updateSet(this, this._map.clear());
} // @pragma Composition
Set.prototype.union = function() { 
    var iters = SLICE$0.call(arguments, 0);
    iters = iters.filter(function(x) { return x.size !== 0 });
    if (iters.length === 0) { 
        return this;
    } if (this.size === 0 && !this._ownerID && iters.length === 1) { 
        return return this.withMutations(function(set) { 
            for (var ii = 0; ii < iters.length; ii++) { 
                SetIterable(iters[ii]).forEach(function(value) { 
                    return set.add(value);
                });
            }
        });
    } return this;
}

    // @pragma Composition
Set.prototype.union = function() { 
    var iters = SLICE$0.call(arguments, 0);
    iters = iters.filter(function(x) { return x.size !== 0 });
    if (iters.length === 0) { 
        return this;
    } if (this.size === 0 && !this._ownerID && iters.length === 1) { 
        return return this.withMutations(function(set) { 
            for (var ii = 0; ii < iters.length; ii++) { 
                SetIterable(iters[ii]).forEach(function(value) { 
                    return set.add(value);
                });
            }
        });
    } return this;
}

    Set.prototype.intersect = function() { 
    var iters = SLICE$0.call(arguments, 0);
    if (iters.length === 0) { 
        return this;
    } iters = iters.map(function(iter) { return SetIterable(iter) });
    var originalSet = this;
    return this.withMutations(function(set) { 
        originalSet.forEach(function(value) { 
            if (!iters.every(function(iter) { return iter.includes(value) }) ) { 
                set.remove(value);
            }
        });
    });
}

    Set.prototype.subtract = function() { 
    var iters = SLICE$0.call(arguments, 0);
    if (iters.length === 0) { 
        return this;
    } iters = iters.map(function(iter) { return SetIterable(iter) });
    var originalSet = this;
    return this.withMutations(function(set) { 
        originalSet.forEach(function(value) { 
            if (iters.some(function(iter) { return iter.includes(value) }) ) { 
                set.remove(value);
            }
        });
    });
}

    Set.prototype.merge = function() { 
    return this.union.apply(this, arguments);
}

    Set.prototype.mergeWith = function(merger) { 
    var iters = SLICE$0.call(arguments, 1);
    return this.union.apply(this, iters);
}

    Set.prototype.sort = function(comparator) { 
    // Late binding
    return OrderedSet(sortFactory(this, comparator));
}

    Set.prototype.sortBy = function(mapper, comparator) { 
    // Late binding
    return OrderedSet(sortFactory(this, comparator, mapper));
}

    Set.prototype.wasAltered = function() { 
    return this._map.wasAltered();
}

    Set.prototype.__iterate = function(fn, reverse) { 
    var this$0 = this;
    return this._map.__iterate(function(_, k) { return fn(k, k, this$0) }, reverse);
}

    Set.prototype.__iterator = function(type, reverse) { 
    return this._map.map(function(_, k) { return k }).__iterator(type, reverse);
}

    Set.prototype.__ensureOwner = function(ownerID) { 
    if (ownerID === this.__ownerID) { 
        return this;
    } var newMap = this._map.__ensureOwner(ownerID);
    if (!ownerID) { 
        this.__ownerID = ownerID;
        this._map = newMap;
        return this;
    } return this.__make(newMap, ownerID);
}

    function isSet(maybeSet) { 
    return !!(maybeSet && maybeSet[IS_SET_SENTINEL]);
}

    Set.isSet = isSet;

    var IS_SET_SENTINEL = '@@__IMMUTABLE_SET__@@';

    var SetPrototype = Set.prototype;
    SetPrototype[IS_SET_SENTINEL] = true;
    SetPrototype[DELETE] = Set.prototype.remove;
    SetPrototype.mergeDeep = Set.prototype.merge;
    SetPrototype.mergeDeepWith = SetPrototype.mergeWith;
    SetPrototype.withMutations = MapPrototype.withMutations;
    SetPrototype.asMutable = MapPrototype.asMutable;
    SetPrototype.asImmutable = MapPrototype.asImmutable;

    function updateSet(set, newMap) { 
    if (set.__ownerID) { 
        set.size = newMap.size;
        set._map = newMap;
        return set;
    } return set._map === 0 ? set : 
        set.__make(newMap);
}

    function makeSet(map, ownerID) { 
    var set = Object.create(SetPrototype);
    set.size = map ? map.size : 0;
    set._map = map;
    set._ownerID = ownerID;
    return set;
}

    function createClass(OrderedSet, Set) { 
    // @pragma Construction
    function OrderedSet(value) { 
        return value === null || value === undefined ? emptyOrderedSet() : 
            isOrderedSet(value) ? value : 
                emptyOrderedSet().withMutations(function(set) { 
                    var iter = SetIterable(value);
                    assertNotInfinite(iter.size);
                    iter.forEach(function(value) { 
                        return set.add(value);
                    });
                });
    }

    OrderedSet.of = function(/*...values*/) { 
        return this(arguments);
    }

    OrderedSet.fromKeys = function(value) { 
        return this(KeyedIterable(value).keySeq());
    }

    OrderedSet.prototype.toString = function() { 
        return this.__toString('OrderedSet {', '}');
    }

    function isOrderedSet(maybeOrderedSet) { 
    return isSet(maybeOrderedSet) && isOrdered(maybeOrderedSet);
}

    OrderedSet.isOrderedSet = isOrderedSet;

    var OrderedSetPrototype = OrderedSet.prototype;
    OrderedSetPrototype[IS_ORDERED_SENTINEL] = true;
    OrderedSetPrototype._empty = emptyOrderedSet;
    OrderedSetPrototype._make = makeOrderedSet;

    OrderedSet.prototype.merge = function(map, ownerID) { 
    var var set = Object.create(OrderedSetPrototype);
    set.size = map ? map.size : 0;
    var EMPTY_SET = function emptyOrderedSet() { 
        return EMPTY_SET || (EMPTY_SET = makeSet(EMPTY_MAP()));
    }
    set.createClass(OrderedSet, Set);
    // @pragma Construction
    function OrderedSet(value) { 
        return value === null || value === undefined ? emptyOrderedSet() : 
            isOrderedSet(value) ? value : 
                emptyOrderedSet();
    }

    OrderedSet.of = function(/*...values*/) { 
        return this(arguments);
    }

    OrderedSet.fromKeys = function(value) { 
        return this(KeyedIterable(value).keySeq());
    }

    OrderedSet.prototype.toString = function() { 
        return this.__toString('OrderedSet {', '}');
    }

    function isOrderedSet(maybeOrderedSet) { 
    return isSet(maybeOrderedSet) && isOrdered(maybeOrderedSet);
}

    OrderedSet.isOrderedSet = isOrderedSet;

    var OrderedSetPrototype = OrderedSet.prototype;
    OrderedSetPrototype[IS_ORDERED_SENTINEL] = true;
    OrderedSetPrototype._empty = emptyOrderedSet;
    OrderedSetPrototype._make = makeOrderedSet;

    OrderedSet.prototype.merge = function(map, ownerID) { 
    var var set = Object.create(OrderedSetPrototype);
    set.size = map ? map.size : 0;
}
map.size : 0
set.map = map
set._ownerID = ownerID
return set

otropic

EMPTY_ORDERED_SET

function emptyOrderedSet() { return EMPTY_ORDERED_SET ||
(EMPTY_ORDERED_SET = makeOrderedSet(emptyOrderedMap()));
}

createClass(Stack, IndexedCollection);

// @pragma Construction

function Stack(value) { return value === null ||
  emptyStack().unshiftAll(value); }

Stack.of = function/*...values*/() { return this(arguments); }

Stack.prototype.toString = function() { return this.__toString('Stack [', ']');
  // @pragma Access

  var head = this._head;
  index = wrapIndex(this, index);
  while (head &

  this.__altered = true;
  } return this;
}

Stack.prototype.push = function(/*...values*/) {
  if (arguments.length === 0) {
    return
  }
  var newSize = this.size + arguments.length;
  var head = this._head;
  for (var ii = arguments.length - 1; ii >= 0; ii--) {
    head = {
      value: arguments[ii],
      next: head
    };
  }
  if (this.__ownerID) {
    this.size = newSize;
    this._head = head;
    this.__hash = undefined;
    this.__altered = true;
  } return this;
}

Stack.prototype.pushAll = function(ter) {
  ter = IndexedIterable(ter);
  if (ter.size === 0) {
    return
  }
  assertNotInfinite(ter.size);
  var newSize = this.size;
  var head = this._head;
  ter.reverse().forEach(function(value) {
    newSize++;
    head = {
      value: value,
      next: head
    };
  });
  if (this.__ownerID) {
    this.size = 0;
    this._head = undefined;
    this.__hash = undefined;
    this.__altered = true;
  } return this;
}

Stack.prototype.pop = function() {
  return this.slice(1);
}

Stack.prototype.unshift = function(/*...values*/) {
  return this.push.apply(this, arguments);
}

Stack.prototype.unshiftAll = function(ter) {
  return this.pushAll(ter);
}

Stack.prototype.shift = function() {
  return
}

Stack.prototype.clear = function() {
  if (this.size === 0) {
    return
  }
  if (this.__ownerID) {
    this.size = 0;
    this._head = undefined;
    this.__hash = undefined;
    this.__altered = true;
  } return this;
}

Stack.prototype.slice = function(begin, end) {
  if (wholeSlice(begin, end, this.size)) {
    return this;
  }
  var resolvedBegin = resolveBegin(begin, this.size);
  var resolvedEnd = resolveEnd(end, this.size);
  if (resolvedEnd !== this.size) {
    // super.slice(begin, end);
    return
  }
  var newSize = this.size - resolvedBegin;
  var head = this._head;
  while (resolvedBegin--) {
    head = head.next;
  }
  if (this.__ownerID) {
    this.size = newSize;
    this._head = head;
    this.__hash = undefined;
    this.__altered = true;
  } return this;
}

Stack.prototype.__ensureOwner = function(ownerID) {
  if (ownerID === this.__ownerID) {
    return this;
  }
  if (!ownerID) {
    this.__ownerID = ownerID;
    this.__altered = false;
    return this;
  }
  return makeStack(this.size, this._head, ownerID, this.__hash);
}

Stack.prototype.__iterate = function(fn, reverse) {
  if (reverse) {
    return this.reverse().__iterate(fn);
  }
  var iterations = 0;
  var node = this._head;
  return
}

Stack.prototype.__iterator = function(type, reverse) {
  if (reverse) {
    return
  }
  var iterations = 0;
  var node = this._head;
  return
}

Stack.prototype._ensureOwner = function(ownerID) {
  if (ownerID === this.__ownerID) {
    return this;
  }
  if (!ownerID) {
    this.__ownerID = ownerID;
    this.__altered = false;
    return this;
  }
  return makeStack(this.size, this._head, ownerID, this.__hash);
}

Stack.prototype._iterate = function(fn, reverse) {
  if (reverse) {
    return this.reverse(__iterate(fn));
  }
  var iterations = 0;
  var node = this._head;
  while (node) {
    fn(node.value, iterations++, this);
    iterations++;
    node = node.next;
  }
  return
}

Stack.prototype._iterator = function(type, reverse) {
  if (reverse) {
    return
  }
  var iterations = 0;
  var node = this._head;
  return
}

Stack.prototype.next = function() {
  return
}

Stack.prototype.value = function() {
  return
}

Stack.prototype.iteratorValue = function(type, iterations++, value) {
  return
}

isStack = Stack => return !(maybeStack &

Stack.isStack = isStack;

var IS_STACK_SENTINEL = '@@IMMUTABLE_STACK@@';

StackPrototype = Stack.prototype;
StackPrototype[IS_STACK_SENTINEL] = true;

StackPrototype.withMutations = MapPrototype.withMutations;

StackPrototype.asMutable = MapPrototype.asMutable;

StackPrototype.asImmutable = MapPrototype.asImmutable;

Open Source Used In Cisco Modeling Labs 2.2 3746
StackPrototype.wasAltered = MapPrototype.wasAltered;

var makeStack = function (size, head, ownerID, hash) {
  var map = Object.create(StackPrototype);
  map.size = size;
  map._head = head;
  map._ownerID = ownerID;
  map._hash = hash;
  map._altered = false;
  return map;
}

var EMPTY_STACK;

function makeStack(size, head, ownerID, hash) {
  var map = Object.create(StackPrototype);
  map.size = size;
  map._head = head;
  map._ownerID = ownerID;
  map._hash = hash;
  map._altered = false;
  return map;
}

function emptyStack() {
  return EMPTY_STACK || (EMPTY_STACK = makeStack(0));
}

/**
 * Contributes additional methods to a constructor
 * @ctor mixin
 * @method methods
 */

function mixin(ctor, methods) {
  var keyCopier = function(key) {
    ctor.prototype[key] = methods[key];
  };
  Object.keys(methods).forEach(keyCopier);

  if (Object.getOwnPropertySymbols) {
    Object.getOwnPropertySymbols(methods).forEach(keyCopier);
  }

  return ctor;
}

typeof Iterable.Iterator = Iterator;

mixin(Iterable, {

  // ### Conversion to other types

  toArray: function() {
    assertNotInfinite(this.size);
    var array = new Array(this.size || 0);
    this.valueSeq().__iterate(function(v, i) { array[i] = v; });
    return array;
  },

  toIndexedSeq: function() {
    return new ToIndexedSequence(this);
  },

  toJS: function() {
    return this.toSeq().map(function(value) {
      return value && typeof value.toJS === 'function' ? value.toJS() : value
    }).__toJS();
  },

  toJSON: function() {
    return this.toSeq().map(function(value) {
      return value && typeof value.toJSON === 'function' ? value.toJSON() : value
    }).__toJS();
  },

  toKeyedSeq: function() {
    return new ToKeyedSequence(this, true);
  },

  toMap: function() {
    // Use Late Binding here to solve the circular dependency.
    return Map(this.toKeyedSeq());
  },

  toObject: function() {
    assertNotInfinite(this.size);
    var object = {};
    this.__iterate(function(v, k) { object[k] = v; });
    return object;
  },

  toOrderedMap: function() {
    // Use Late Binding here to solve the circular dependency.
    return OrderedMap(this.toKeyedSeq());
  },

  toOrderedSet: function() {
    // Use Late Binding here to solve the circular dependency.
    return OrderedSet(isKeyed(this) ? this.toKeyedSeq() : this.toSet());
  },

  toSet: function() {
    // Use Late Binding here to solve the circular dependency.
    return Set(isKeyed(this) ? this.toKeyedSeq() : this.toSet());
  },

  toStack: function() {
    // Use Late Binding here to solve the circular dependency.
    return Stack(isKeyed(this) ? this.toKeyedSeq() : this.toSet());
  },

  toList: function() {
    // Use Late Binding here to solve the circular dependency.
    return List(isKeyed(this) ? this.toKeyedSeq() : this.toSet());
  },

  // ### Common JavaScript methods and properties

  toString: function() {
    return '[Iterable]';
  },

  __toString: function(head, tail) {
    if (this.size === 0) {
      return head + tail;
    }
    return head + ' ' + this.toSeq().map(this.__toStringMapper).join(', ') + ' ' + tail;
  },

  // ### ES6 Collection methods (ES6 Array and Map)

  concat: function() {
    var values = SLICE$0.call(arguments, 0);
    return reify(this, concatFactory(this, values));
  },

  includes: function(searchValue) {
    return this.some(function(value) {
      return is(value, searchValue);
    });
  },

  entries: function() {
    return this.__iterator(ITERATE_ENTRIES);
  },

  every: function(predicate, context) {
    assertNotInfinite(this.size);
    var initialValue = true;
    this.__iterate(function(v, k, c) {
      if (useFirst)
        useFirst = false;
        return false;
    }, initialReduction, context, true));

    function filter(predicate, context) {
      return reify(this, filterFactory(this, predicate, context));
    }

    function reduce(reducer, initialReduction, context) {
      var varUseFirst = true;
      if (arguments.length < 2) {
        useFirst = true;
      } else if (useFirst)
        useFirst = false;
        return initialReduction;
    }

    function sideEffect(context) {
      return reify(this, sideEffectFactory(this, context));
    }

    function bind(context) {
      return reify(this, bindFactory(this, context));
    }

    function separator(separator) {
      return reify(this, separatorFactory(separator));
    }

    this._iterate(function(v) {
      this._iterate(separator(v), isFirst ? false : (isFirst = true));
      var varJoined = ''; var varFirst = true;
      var varKeys = function() {
        var varReturn = false;
      }
      var varReduced = function(reducer, initialReduction, context) {
        return initialReduction;
      }
IndexedIterable.prototype[IS_INDEXED_SENTINEL] = true;

IndexedIterable.prototype[IS_ORDERED_SENTINEL] = true;

mixin(SetIterable, { /* ## ES6 */
  Collection methods (ES6 Array and Map)

  get: function(value, notSetValue) { return this.has(value) ? value : notSetValue; },

  includes: function(value) { return this.has(value); },

  // ## More sequential methods

  keySeq: function() { return this.valueSeq(); }

});

SetIterable.prototype.has = IterablePrototype.includes;
SetIterable.prototype.contains =

mixin(KeyedSeq, KeyedIterable.prototype);

mixin(IndexedSeq, IndexedIterable.prototype);

mixin(SetSeq, SetIterable.prototype);

mixin(KeyedCollection, KeyedIterable.prototype);

mixin(IndexedCollection, IndexedIterable.prototype);

mixin(SetCollection, SetIterable.prototype);

// #pragma Helper functions

function keyMapper(v, k) {
  return k;
}

function entryMapper(v, k) {
  return [k, v];
}

function not(predicate) {
  return

  function() {
    return !predicate.apply(this, arguments);
  }

}

function neg(predicate) {
  return

  function() {
    return -predicate.apply(this, arguments);
  }

}

function quoteString(value) {
  return

  typeof value === 'string' ? JSON.stringify(value) : String(value);

}

function defaultZipper() {
  return

  arrCopy(arguments);

}

function defaultNegComparator(a, b) {
  return

  a < b ? 1 : a > b ? -1 : 0;
}

function hashMerge(a, b) {
  return

  a ^ b + 0x9E3779B9 + (a << 6) + (a >> 2) | 0; // int
}

var Immutable = {
  Iterable: Iterable,

  Seq: Seq,

  Collection: Collection,

  Map: Map,

  OrderedMap: OrderedMap,

  List: List,

  Stack: Stack,

  Set: Set,

  OrderedSet: OrderedSet,

  Record: Record,

  Range: Range,

  Repeat: Repeat,

  is: is,

  fromJS: fromJS,

  return Immutable; });

});

var _Object$defineProperty = require("../core-js/object/define-property");

function _defineProperty(obj, key, value) {

  if (key in obj) {
    _Object$defineProperty(obj, key, {
      value: value,
      enumerable: true,
      configurable: true,
      writable: true
    });
  } else {
    obj[key] = value;
  }

}

module.exports = _defineProperty;

var _Object$getPrototypeOf = require("../core-js/object/get-prototype-of");

var _Object$setPrototypeOf = require("../core-js/object/set-prototype-of");

function _getPrototypeOf(o) {

  return _getPrototypeOf = _Object$setPrototypeOf ?
    _Object$getPrototypeOf :
    function _getPrototypeOf(o) {
      return o.__proto__ || _Object$getPrototypeOf(o);
    };

}

module.exports = _getPrototypeOf;

var _Object$defineProperty = require("../core-js/object/define-property");

function _defineProperties(target, props) {

  for (var i = 0; i < props.length; i++) {
    var descriptor = props[i];
    descriptor.enumerable = descriptor.enumerable || false;
  }

}

module.exports = _defineProperties;
newObj[key] = obj[key].bind(null, state));
return newObj;
}

export function normalizeArray(arr) {
if(Array.isArray(arr))
    return arr
  return [arr];
}

export function isFn(fn) {
  return typeof fn === "function"
}

export function isObject(obj) {
  return !!obj && typeof obj === "object"
}

export function isFunc(thing) {
  return typeof(thing) === "function"
}

export function isArray(thing) {
  return Array.isArray(thing)
}

// I've changed memoize libs more than once, so I'm using this a way to make that
// simpler
export function memoize(fn) {
  return (args) => { // eslint-disable-line no-unused-vars
    return fn(...args)
  }
}

export function objMap(obj, fn) {
  return Object.keys(obj).reduce((newObj, key) => {
    newObj[key] = fn(obj[key], key);
    return newObj
  }, {})
}

export function objReduce(obj, fn) {
  return Object.keys(obj).reduce((newObj, key) => {
    let res = fn(obj[key], key);
    if(res && typeof res === "object")
      Object.assign(newObj, res);
    return newObj
  }, {})
}

// Redux middleware that exposes the system to async actions (like redux-thunk, but with out system
instead of (dispatch, getState)\nexport function systemThunkMiddleware(getSystem) {
  return ({ dispatch,
    getState }) => { // eslint-disable-line no-unused-vars
    return next => action => {
      if (typeof action === "function") {
        return action(getSystem())
      }
      return next(action)
    }
  }
}

export function defaultStatusCode (responses) {
  let codes = responses.keySeq()
  return codes.contains(DEFAULT_RESPONSE_KEY) ? DEFAULT_RESPONSE_KEY : codes.filter(key => {key[0] === "2")
      .first()
    }
}

/**
 * Returns an Immutable.List, safely
 * @param {Immutable.Iterable} iterable the iterable to get the key from
 * @param {String} key the key to use, when merging the \`key\`
 * @returns {Immutable.List} either iterable or an empty Immutable.List
 */
export function getList(iterable, keys) {
  if(!Im.Iterable.isIterable(iterable)) {
    return Im.List()
  }
  let val = iterable.getIn(Array.isArray(keys) ? keys : [keys])
  return Im.List.isList(val) ? val : Im.List()
}

/**
 * Take
 * an immutable map, and convert to a list.
 * Where the keys are merged with the value objects
 * @param {Immutable.Map} map, the map to convert
 * @param {String} keyNames the keyName to use
 * @returns {Immutable.List}
 */
export function mapToList(map, keyNames="key", collectedKeys=Im.Map()) {
  if(!Im.Map.isMap(map) || !map.size) {
    return Im.List()
  }
  if(!Array.isArray(keyNames)) {
    keyNames = [keyNames]
  }
  if(keyNames.length < 1) {
    return map.merge(collectedKeys)
  }
  let list = Im.List()
  let keyName = keyNames[0]
  for(let entry of map.entries()) {
    let [key, val] = entry
    let nextList = mapToList(val, keyNames.slice(1), collectedKeys.set(keyName, key))
    if(Im.List.isList(nextList)) {
      list = list.concat(nextList)
    } else {
      list = list.push(nextList)
    }
  }
  return list
}

export function extractFileNameFromContentDispositionHeader(value) {
  let patterns = [
    /filename\*="[^'"]+"/i,
    /filename\*="[^'"]+/i,
    /filename="[^'"]+/i,
    /filename=([^'\s]+)\*/i
  ]
  let responseFilename
  patterns.some(regex => {
    responseFilename = regex.exec(value)
    return responseFilename !== null
  })
  if (responseFilename !== null && responseFilename.length > 1) {
    try {
      return decodeURIComponent(responseFilename[1])
    } catch(e) {
      console.error(e)
    }
  }
  return null
}

// PascalCase, aka PascalCaseExport\nexport function PascalCaseExport(str) {
  return upperFirst(pascalCase(str))
}

// Remove the ext of a filename, and pascalCase
// the name Export\nexport function PascalCase(filename) {
  return PascalCaseExport(filename)
}

// Check if ...
// - new props\n// - If immutable, use .is()
// - if in explicit objectList, then compare using _.eq\n// - else use ===\nexport const propChecker = (props, nextProps, objectList=[], ignoreList=[]) => {
  if(Object.keys(props).length !== Object.keys(nextProps).length) {
    return true
  }
  return some(props,
    (a, name) => {
      let b = nextProps[name]
      if(Im.Iterable.isIterable(a)) {
        return 1m.is(a,b)
      } // Not going to compare objects
      if(typeof a === "object" && typeof b === "object") {
        return false
      } return a !== b
    })
}

// Remove the ext of a filename, and pascalCase
// the name Export\nexport function PascalCaseExport(str) {
  return upperFirst(pascalCaseExport(str))
}

// Remove the ext of a filename, and pascalCase
// the name Export\nexport function PascalCase(filename) {
  return PascalCaseExport(filename)
}

// Check if ...
// - new props\n// - If immutable, use .is()\n// - if in explicit objectList, then compare using _.eq\n// - else use ===\nexport const propChecker = (props, nextProps, objectList=[], ignoreList=[]) => {
  if(Object.keys(props).length !== Object.keys(nextProps).length) {
    return true
  }
  return some(props,
    (a, name) => {
      let b = nextProps[name]
      if(Im.Iterable.isIterable(a)) {
        return 1m.is(a,b)
      } // Not going to compare objects
      if(typeof a === "object" && typeof b === "object") {
        return false
      } return a !== b
    })
}

export const validateMaximum = (val, max) => {
  if (val > max) {
    return "Value must be less than Maximum"
  }
}

export const validateMinimum = (val, min) => {
  if (val < min) {
    return "Value must be greater than Minimum"
  }
}

export const validateNumber = (val) => {
  if (!/-?\d+(\.\d+)?/.test(val)) {
    return "Value must be a number"
  }
}

export const validateInteger = (val) => {
  if (!/-?\d+/.test(val)) {
    return "Value must be an integer"
  }
}
return "Value must be an integer"

if (val instanceof win.File) {
  return "Value must be a file"
}

if (isNaN(Date.parse(val))) {
  return "Value must be a DateTime"
}

if (!/^[\{\[\{0-9a-f\}\{8\}-[0-9a-f\]{4}-[0-9a-f\]{4}-[0-9a-f\]{4}-[0-9a-f\]{4}\}\{12\}\}]\?$/.test(val)) {
  return "Value must be a Guid"
}

if (val.length > max) {
  return "Value must be less than MaxLength"
}

if (val.length < min) {
  return "Value must be greater than MinLength"
}

if (pattern) {
  let err = validatePattern(value, pattern)
  if (err) errors.push(err)
}

if (maxLength || maxLength === 0) {
  let err = validateMaxLength(value, maxLength)
  if (err) errors.push(err)
}

if (minimum || minimum === 0) {
  let err = validateMinimum(value, minimum)
  if (err) errors.push(err)
}

if (type === "string") {
  let err
  if (format === "date-time") {
    err = validateDateTime(value)
  } else if (format === "uuid") {
    err = validateGuid(value)
  } else {
    err = validateString(value)
  }
  if (!err) return errors
  errors.push(err)
}

if (type === "boolean") {
  let err = validateBoolean(value)
  if (!err) return errors
  errors.push(err)
}

if (type === "number") {
  let err = validateNumber(value)
  if (!err) return errors
  errors.push(err)
}

if (type === "integer") {
  let err = validateInteger(value)
  if (!err) return errors
  errors.push(err)
}

if (type === "array") {
  let itemType

  if (!arrayListCheck || !value.count()) {
    return errors
  }

  itemType = paramDetails.getIn(["items", "type"])

  if (arrayCheck = type === "array" && Array.isArray(value) && value.length) {
    let arrayListCheck = type === "array" && Im.List.isList(value) && value.count() &&
    let arrayStringCheck = type === "array" && typeof value === "string" && value
    let fileCheck = type === "file" && value instanceof win.File
    let booleanCheck = type === "boolean" && (value || value === false)
    let numberCheck = type === "number" && (value || value === 0)
    let integerCheck = type === "integer" && (value || value === 0)
    let objectCheck = type === "object" && typeof value === "object" && value !== null
    let objectStringCheck = type === "object" && typeof value === "string" && value
    let constantChecks = /

    if (pattern) {
      let err = validatePattern(value, pattern)
      if (err) errors.push(err)
    }

    if (maxLength || maxLength === 0) {
      let err = validateMaxLength(value, maxLength)
      if (err) errors.push(err)
    }

    if (minimum || minimum === 0) {
      let err = validateMinLength(value, minimum)
      if (err) errors.push(err)
    }

    if (type === "string") {
      let err
      if (format === "datetime") {
        err = validateDateTime(value)
      } else if (format === "uuid") {
        err = validateGuid(value)
      } else if (err) errors.push(err)

    if (pattern) {
      let err = validatePattern(value, pattern)
      if (err) errors.push(err)
    }

    if (value.length > max) {
      return "Value must be less than MaxLength"
    }

    if (value.length < min) {
      return "Value must be greater than MinLength"
    }

    if (pattern) {
      let err = validatePattern(value, pattern)
      if (err) errors.push(err)
    }

    if (maxLength || maxLength === 0) {
      let err = validateMaxLength(value, maxLength)
      if (err) errors.push(err)
    }

    if (minimum || minimum === 0) {
      let err = validateMinLength(value, minLength)
      if (err) errors.push(err)
    }

    if (type === "string") {
      let err
      if (format === "date-time") {
        err = validateDateTime(value)
      } else if (format === "uuid") {
        err = validateGuid(value)
      } else if (err) errors.push(err)

    if (pattern) {
      let err = validatePattern(value, pattern)
      if (err) errors.push(err)
    }

    if (value.length > max) {
      return "Value must be less than MaxLength"
    }

    if (value.length < min) {
      return "Value must be greater than MinLength"
    }

    if (pattern) {
      let err = validatePattern(value, pattern)
      if (err) errors.push(err)
    }

    if (maxLength || maxLength === 0) {
      let err = validateMaxLength(value, maxLength)
      if (err) errors.push(err)
    }

    if (minimum || minimum === 0) {
      let err = validateMinLength(value, minLength)
      if (err) errors.push(err)
    }

    if (type === "string") {
      let err
      if (format === "date-time") {
        err = validateDateTime(value)
      } else if (format === "uuid") {
        err = validateGuid(value)
      } else if (err) errors.push(err)

    if (pattern) {
      let err = validatePattern(value, pattern)
      if (err) errors.push(err)
    }

    if (value.length > max) {
      return "Value must be less than MaxLength"
    }

    if (value.length < min) {
      return "Value must be greater than MinLength"
    }

    if (pattern) {
      let err = validatePattern(value, pattern)
      if (err) errors.push(err)
    }

    if (maxLength || maxLength === 0) {
      let err = validateMaxLength(value, maxLength)
      if (err) errors.push(err)
    }

    if (minimum || minimum === 0) {
      let err = validateMinLength(value, minLength)
      if (err) errors.push(err)
    }

    if (type === "string") {
      let err
      if (format === "date-time") {
        err = validateDateTime(value)
      } else if (format === "uuid") {
        err = validateGuid(value)
      } else if (err) errors.push(err)

    if (pattern) {
      let err = validatePattern(value, pattern)
      if (err) errors.push(err)
    }

    if (value.length > max) {
      return "Value must be less than MaxLength"
    }

    if (value.length < min) {
      return "Value must be greater than MinLength"
    }

    if (pattern) {
      let err = validatePattern(value, pattern)
      if (err) errors.push(err)
    }

    if (maxLength || maxLength === 0) {
      let err = validateMaxLength(value, maxLength)
      if (err) errors.push(err)
    }

    if (minimum || minimum === 0) {
      let err = validateMinLength(value, minLength)
      if (err) errors.push(err)
    }

    if (type === "string") {
      let err
      if (format === "date-time") {
        err = validateDateTime(value)
      } else if (format === "uuid") {
        err = validateGuid(value)
      } else if (err) errors.push(err)

    if (pattern) {
      let err = validatePattern(value, pattern)
      if (err) errors.push(err)
    }

    if (value.length > max) {
      return "Value must be less than MaxLength"
    }

    if (value.length < min) {
      return "Value must be greater than MinLength"
    }

    if (pattern) {
      let err = validatePattern(value, pattern)
      if (err) errors.push(err)
    }

    if (maxLength || maxLength === 0) {
      let err = validateMaxLength(value, maxLength)
      if (err) errors.push(err)
    }

    if (minimum || minimum === 0) {
      let err = validateMinLength(value, minLength)
      if (err) errors.push(err)
    }

    if (type === "string") {
      let err
      if (format === "date-time") {
        err = validateDateTime(value)
      } else if (format === "uuid") {
        err = validateGuid(value)
      } else if (err) errors.push(err)

    if (pattern) {
      let err = validatePattern(value, pattern)
      if (err) errors.push(err)
    }

    if (value.length > max) {
      return "Value must be less than MaxLength"
    }

    if (value.length < min) {
      return "Value must be greater than MinLength"
    }

    if (pattern) {
      let err = validatePattern(value, pattern)
      if (err) errors.push(err)
    }

    if (maxLength || maxLength === 0) {
      let err = validateMaxLength(value, maxLength)
      if (err) errors.push(err)
    }

    if (minimum || minimum === 0) {
      let err = validateMinLength(value, minLength)
      if (err) errors.push(err)
    }

    if (type === "string") {
      let err
      if (format === "date-time") {
        err = validateDateTime(value)
      } else if (format === "uuid") {
        err = validateGuid(value)
      } else if (err) errors.push(err)

    if (pattern) {
      let err = validatePattern(value, pattern)
      if (err) errors.push(err)
    }

    if (value.length > max) {
      return "Value must be less than MaxLength"
    }

    if (value.length < min) {
      return "Value must be greater than MinLength"
    }

    if (pattern) {
      let err = validatePattern(value, pattern)
      if (err) errors.push(err)
    }

    if (maxLength || maxLength === 0) {
      let err = validateMaxLength(value, maxLength)
      if (err) errors.push(err)
    }

    if (minimum || minimum === 0) {
      let err = validateMinLength(value, minLength)
      if (err) errors.push(err)
    }

    if (type === "string") {
      let err
      if (format === "date-time") {
        err = validateDateTime(value)
      } else if (format === "uuid") {
        err = validateGuid(value)
      } else if (err) errors.push(err)

    if (pattern) {
      let err = validatePattern(value, pattern)
value.forEach((item, index) => {
    let err

    if (itemType === "number") {
        err = validateNumber(item)
    } else if (itemType === "integer") {
        err = validateInteger(item)
    } else if (itemType === "string") {
        err = validateString(item)
    }

    if (err) {
        errors.push({ index: index, error: err })
    }
});

return errors
}

export const getSampleSchema = (schema, contentType="", config={}) => {
    if (/xml/.test(contentType)) {
        if (!schema.xml || !schema.xml.name) {
            schema.xml = schema.xml || {}

            if (schema.$$ref) {
                let match = schema.$$ref.match(/\S*\/(\S+)$/)
                schema.xml.name = match[1]
            } else if (schema.type || schema.items || schema.properties || schema.additionalProperties) {
                return "<?xml version="1.0" encoding="UTF-8"?>
<!-- XML example cannot be generated; root element name is undefined -->"
            } else {
                return null
            }
        }
        return memoizedCreateXMLExample(schema, config, contentType)
    }
    return memoizedSampleFromSchema(schema, config, contentType)
}

export const parseSearch = () => {
    let map = {},
    search = window.location.search

    if (search) {
        let params = search.substr(1).split("&")

        for (let i in params) {
            if (!params.hasOwnProperty(i)) {
                continue
            }
            i = params[i].split("=")
            map[decodeURIComponent(i[0])] = (i[1] && decodeURIComponent(i[1])) || ""
        }
        return map
    }
}

export const serializeSearch = (searchMap) => {
    return Object.keys(searchMap).map(k => {
        return encodeURIComponent(k) + "=" + encodeURIComponent(searchMap[k])
    }).join("&")
}

export const btoa = (str) => {
    let buffer

    if (str instanceof Buffer) {
        buffer = str
    } else {
        buffer = new Buffer(str.toString(), "utf-8")
    }

    return buffer.toString("base64")
}

export const sorters = {
    operationsSorter: {
        alpha: (a, b) => a.get("path").localeCompare(b.get("path")),
        method: (a, b) => a.get("method").localeCompare(b.get("method"))
    },
    tagsSorter: {
        alpha: (a, b) => a.localeCompare(b)
    }
}

export function buildFormData(data) {
    let formArr = []

    for (let name in data) {
        let val = data[name]
        if (val !== undefined && val !== "") {
            formArr.push([name, "=", encodeURIComponent(val).replace(/%20/g,"+")].join(""))
        }
    }
    return formArr.join("&")
}

export function requiresValidationURL(uri) {
    if (!uri || uri.indexOf("localhost") >= 0 || uri.indexOf("127.0.0.1") >= 0 || uri === "none") {
        return false
    }
    return true
}

export function getAcceptControllingResponse(responses) {
    if (!Im.OrderedMap.isOrderedMap(responses)) {
        // wrong type!
        return null
    }

    if (!responses.size) {
        // responses is empty
        return null
    }

    const suitable2xxResponse = responses.find((res, k) => {
        return k.startsWith("2") && Object.keys(res.get("content") || {}).length > 0
    })

    const defaultResponse = responses.get("default") || Im.OrderedMap()

    return suitable2xxResponse || defaultResponseMediaTypes
}

export const createDeepLinkPath = (str) => typeof str == "string" || str instanceof String ? str.trim().replace(/\s/g, "%20") : ""
export function stringify(thing) {
  if (typeof thing === "string") {
    return thing
  }

  if (thing && thing.toJS) {
    thing = thing.toJS()
  }

  if (typeof thing === "object" && thing !== null) {
    try {
      return JSON.stringify(thing, null, 2)
    }
    catch (e) {
      return String(thing)
    }
  }

  if (thing === null || thing === undefined) {
    return ""
  }

  return thing.toString()
}

export function numberToString(thing) {
  if (typeof thing === "number") {
    return thing.toString()
  }

  return thing
}

export function paramToIdentifier(param, { returnAll = false, allowHashes = true } = {}) {
  if (!Im.Map.isMap(param)) {
    throw new Error("paramToIdentifier: received a non-Im.Map parameter as input")
  }

  const paramName = param.get("name")
  const paramIn = param.get("in")
  let generatedIdentifiers = [] // Generate identifiers in order of most to least specificity

  if (param && param.hashCode && paramIn && paramName && allowHashes) {
    generatedIdentifiers.push(`${paramIn}.${paramName}.hash-${param.hashCode()}`)
  }

  if (paramIn && paramName) {
    generatedIdentifiers.push(`${paramIn}.${paramName}`)
  }

  generatedIdentifiers.push(paramName)

  return returnAll ? generatedIdentifiers : (generatedIdentifiers[0] || "")
}

export function paramToValue(param, paramValues) {
  const allIdentifiers = paramToIdentifier(param, { returnAll: true })

  const values = allIdentifiers
    .map(id => {
      return paramValues[id]
    })
    .filter(value => value !== undefined)

  return values[0]
}

// adapted from https://auth0.com/docs/flows/guides/auth-code-pkce/includes/create-code-verifier
export function generateCodeVerifier() {
  return b64toB64UrlEncoded(randomBytes(32).toString("base64"))
}

export function createCodeChallenge(codeVerifier) {
  return b64toB64UrlEncoded(shaJs("sha256")
    .update(codeVerifier)
    .digest("base64")
    .replace(/[+/g,"\-"],"_/g").replace(/=/g,"")
  }

  function b64toB64UrlEncoded(str) {
    return str
      .replace(/\+/g, "-")
      .replace(/\//g, "_")
      .replace(/=/g, "")
  }

  export const isEmptyValue = (value) => {
    if (!value) {
      return true
    }

    if (isImmutable(value) && value.isEmpty()) {
      return true
    }

    return false
  }

  var _Object$create = require("../core-js/object/create");

  var setPrototypeOf = require("./setPrototypeOf");

  function _inherits(subClass, superClass) {
    if (typeof superClass !== "function" && superClass !== null) {
      throw new TypeError("Super expression must either be null or a function");
    }

    subClass.prototype = _Object$create(superClass && superClass.prototype, {
      constructor: {
        value: subClass,
        writable: true,
        configurable: true
      }
    });

    if (superClass) setPrototypeOf(subClass, superClass);

    module.exports = _inherits;
  }

  function _assertThisInitialized(self) {
    if (self === void 0) {
      throw new ReferenceError("this hasn't been initialised - super() hasn't been called")
    }

    return self;
  }

  module.exports = _assertThisInitialized;

  var _typeof = require("../helpers/typeof");

  var assertThisInitialized = require("./assertThisInitialized");

  function _possibleConstructorReturn(self, call) {
    if (call && (_typeof(call) === "object" || typeof call === "function")) {
      return call;
    }

    return assertThisInitialized(self);
  }

  module.exports = _possibleConstructorReturn;

  /**
   * Copyright (c) 2013-present, Facebook, Inc.
   *
   * This source code is licensed under the MIT license found in the LICENSE file in
   * the root directory of this source tree.
   */

  if (process.env.NODE_ENV !== 'production') {
    var ReactIs = require('react-is');

    // By explicitly using `prop-types` you are opting into new development behavior.
    // http://fb.me-prop-types-in-prod
    var throwOnDirectAccess = true;

    module.exports = require('./factoryWithTypeCheckers')(ReactIs.isElement, throwOnDirectAccess);
  } else {
    // By explicitly using `prop-types` you are opting into new production behavior.
    // http://fb.me-prop-types-in-prod
    module.exports = require('./factoryWithThrowingShims')();
  }

  function _slicedToArray(arr, i) {
    return arrayWithoutHoles(arr) || iterableToArrayLimit(arr, i) || unsupportedIterableToArray(arr, i) || nonIterableRest();
  }

  module.exports = _slicedToArray;
sprintf-style format (only %s is supported) and arguments\n* to provide information about what broke and what you
were\n* expecting.\n* The invariant message will be stripped in production, but the invariant\n* will remain to ensure logic does not differ in production.\n*/

var validateFormat = function validateFormat(format) {};

if (process.env.NODE_ENV !== 'production') {
  validateFormat = function validateFormat(format) {
    if (format === undefined) {
      throw new Error('invariant requires an error message argument');
    }
  };
}

function invariant(condition, format, a, b, c, d, e, f) {
  var errorIndex = 0;
  var error = new Error(format.replace('%s/g', function () {
    var args = [a, b, c, d, e, f];
    var argIndex = 0;
    var error.name = 'Invariant Violation';
    var error avenuesToPop = 1; // we don’t care about invariant’s own frame
    throw error;\n\n    module.exports = invariant;' + function (window) {
        var win = {\n            location: {},
            history: {},
            open: () => {},
            close: () => {},
            File: function() {}
        }

        if(typeof window === "undefined") {
            return win
        }

        try {
            win = window
            var props = ["File", "Blob", "FormData"]\n for (var prop of props) \n if (prop in window) \n win[prop] = window[prop];
        } catch( e ) {
            console.error(e)
        }

        return win
    };

    module.exports = _extends;
var chainedCheckType = checkType.bind(null, false);

return chainedCheckType;

function createImmutableTypeChecker(immutableClassName, immutableClassTypeValidator) {
  function validate(props, propName, componentName, location, propFullName) {
    var propValue = props[propName];
    if (!immutableClassTypeValidator(propValue)) {
      var propType = getType(propValue);
      var newError = new Error("Invalid \`\` + location + \`\` + \`\` + propFullName + + `\` + propType + + `\` + \` supplied to `\` + componentNam..."));
      return null;
    }
  }
}

function createImmutableTypeChecker(validate) {
  var chainedCheckType = checkType.bind(null, false);
  chainedCheckType.isRequired = checkType.bind(null, true);

  return chainedCheckType;
}

function createImmutableTypeChecker(immutableClassName, immutableClassTypeValidator) {
  function validate(props, propName, componentName, location, propFullName) {
    var propValue = props[propName];
    if (!immutableClassTypeValidator(propValue)) {
      var propType = getType(propValue);
      return new Error("Invalid \`\` + location + \`\` + \`\` + propFullName + + `\` + propType + + `\` + `\` supplied to `\` + componentNam..."));
      return null;
    }
  }
}

function createIterableTypeChecker(typeChecker, immutableClassName, immutableClassTypeValidator) {
  function validate(props, propName, componentName, location, propFullName) {
    var propValue = props[propName];
    if (!immutableClassTypeValidator(propValue)) {
      var locationName = location;
      var propType = getType(propValue);
      return new Error("Invalid \`\` + locationName + \`\` + propFullName + + `\` + propType + + `\` supplied to `\` + componentNam..."));
      return null;
    }
  }
}

function createIterableTypeChecker(validate) {
  var chainedCheckType = checkType.bind(null, false);
  chainedCheckType.isRequired = checkType.bind(null, true);

  return chainedCheckType;
}

function createImmutableTypeChecker(validate) {
  var chainedCheckType = checkType.bind(null, false);
  chainedCheckType.isRequired = checkType.bind(null, true);

  return chainedCheckType;
}

function createImmutableTypeChecker(validate) {
  var chainedCheckType = checkType.bind(null, false);
  chainedCheckType.isRequired = checkType.bind(null, true);

  return chainedCheckType;
}

function createImmutableTypeChecker(validate) {
  var chainedCheckType = checkType.bind(null, false);
  chainedCheckType.isRequired = checkType.bind(null, true);

  return chainedCheckType;
}

function createImmutableTypeChecker(validate) {
  var chainedCheckType = checkType.bind(null, false);
  chainedCheckType.isRequired = checkType.bind(null, true);

  return chainedCheckType;
}

function createImmutableTypeChecker(validate) {
  var chainedCheckType = checkType.bind(null, false);
  chainedCheckType.isRequired = checkType.bind(null, true);

  return chainedCheckType;
}

function createImmutableTypeChecker(validate) {
  var chainedCheckType = checkType.bind(null, false);
  chainedCheckType.isRequired = checkType.bind(null, true);

  return chainedCheckType;
}
var propValue = props[propName];
  if (!(propValue instanceof Immutable.Record)) {
    var propType = getPropType(propValue);
    var locationName = location;
    return new Error("Invalid \"" + locationName + \" \\
    \" + propFullName + '\\
'  of type \" + propType + \" \" + (\"supplied to \" + componentName + \"\", expected an \nImmutable.js Record.\")
  }
  for (var key in recordKeys) {
    var checker = recordKeys[key];
    if (!checker) {
      continue;
    }
    var mutablePropValue = propValue.toObject();
    var error = checker.apply(undefined, [mutablePropValue, key, componentName, location, \" \\
    \" + propFullName + \"\", \" + key].concat(rest));
    if (error) {
      return error;
    }
  }
  return createChainableTypeChecker(validate);
}

// there is some irony in the fact that shapeTypes is a standard hash
// and not an immutable collection
function createShapeTypeChecker(shapeTypes) {
  var immutableClassName = arguments[1] === undefined ? "Iterable" : arguments[1];

  function validate(props, propName, componentName, location, propFullName) {
    var propValue = props[propName];
    if (!immutableClassTypeValidator(propValue)) {
      var propType = getPropType(propValue);
      var locationName = location;
      return new Error("Invalid " + locationName + " `" + propFullName + "` of type `" + propType + "` " + ("supplied to `" + componentName + "`, expected an Immutable.js " + immutableClassName + "."));
    }
    var mutablePropValue = propValue.toObject();
    for (var key in shapeTypes) {
      var checker = shapeTypes[key];
      if (!checker) {
        continue;
      }
      var error = checker.apply(undefined, [mutablePropValue, key, componentName, location, "" + propFullName + "." + key].concat(rest));
      if (error) {
        return error;
      }
    }
  }
  return createChainableTypeChecker(validate);
}

function createShapeChecker(shapeTypes) {
  return createShapeTypeChecker(shapeTypes);
}

function createMapContainsChecker(shapeTypes) {
  return createShapeTypeChecker(shapeTypes, "Map", Immutable.Map.isMap);
}

module.exports = ImmutablePropTypes;
Failed Composite propType: \"\". Ignore CompositeComponent proptype check.

if (condition) {
  for (var _len2 = arguments.length, args = Array(_len2 > 2 ? _len2 - 2 : 0),
    _key2 = 2; _key2 < _len2; _key2++) {
    args[_key2 - 2] = arguments[_key2];
  }

  printWarning.apply(undefined, [format].concat(args));
} else {
  for (var _len3 = arguments.length, args3 = Array(_len3 > 2 ? _len3 - 2 : 0),
    _key3 = 2; _key3 < _len3; _key3++) {
    args3[_key3 - 2] = arguments[_key3];
  }

  printWarning.apply(undefined, [format].concat(args3));
}

function printWarning(
  message,\n  props,\n  componentName,\n  owner)
{
  var error = new Error(message);
  error.componentName = componentName;
  error.owner = owner;
  error.name = 'Invariant Violation';
  throw error;
}

module.exports = warning;
see. To avoid this, ReactMultiChild calls `prepareToManageChildren` before we change `_renderedChildren`, at which time the container’s child nodes are always cached (until it unmounts).

```javascript
function precacheChildNodes(inst, node) {
  if (inst._flags & Flags.hasCachedChildNodes) {
    return;
  }
  var children = inst._renderedChildren;
  var childNode = node.firstChild;
  outer: for (var name in children) {
    if (!children.hasOwnProperty(name)) {
      continue;
    }
    var childInst = children[name];
    var childID = getRenderedHostOrTextFromComponent(childInst)._domID;
    if (childID === 0) {
      // We're currently unmounting this child in ReactMultiChild; skip it.
      continue;
    }
    // We assume the child nodes are in the same order as the child instances.
    for (; childNode !== null; childNode = childNode.nextSibling) {
      if (shouldPrecacheNode(childNode, childID)) {
        precacheNode(childInst, childNode);
        continue outer;
      }
    }
    // We reached the end of the DOM children without finding an ID match.
    !false ? process.env.NODE_ENV !== 'production' ? invariant(false, 'Unable to find element with ID %s.', childID) : _prodInvariant('32', childID) : void 0;
  }
  inst._flags |= Flags.hasCachedChildNodes;
}
```

```javascript
/**
 * Given a DOM node, return the closest ReactDOMComponent or
 * ReactDOMTextComponent instance ancestor.
 * 
 * @param {DOMNode} node
 * @return {?ReactDOMComponentOrTextComponent}
 */
function getClosestInstanceFromNode(node) {
  if (node[internalInstanceKey]) {
    return node[internalInstanceKey];
  }

  // Walk up the tree until we find an ancestor whose instance we have cached.
  var parents = [];
  while (!node[internalInstanceKey]) {
    parents.push(node);
    if (node.parentNode) {
      node = node.parentNode;
    } else {
      // Top of the tree. This node must not be part of a React tree (or is
      // unmounted, potentially).
      return null;
    }
  }

  var closest;
  var inst;
  for (; node && (inst = node[internalInstanceKey]); node = parents.pop()) {
    closest = inst;
    if (parents.length) {
      precacheChildNodes(inst, node);
    }
  }

  return closest;
}
```

```javascript
/**
 * Given a ReactDOMComponent or ReactDOMTextComponent, return the corresponding
 * DOM node.
 */
function getNodeFromInstance(inst) {
  // Without this first invariant, passing a non-DOM-component triggers the next
  // invariant for a missing parent, which is super confusing.
  !inst.hasOwnProperty('hostNode') ? process.env.NODE_ENV !== 'production' ? invariant(false, 'getNodeFromInstance: Invalid argument.') : _prodInvariant('33') : void 0;

  if (inst._hostNode) {
    return inst._hostNode;
  }

  // Walk up the tree until we find an ancestor whose DOM node we have cached.
  var parents = [];
  while (!inst._hostNode) {
    parents.push(inst);
    !inst._hostParent ? process.env.NODE_ENV !== 'production' ? invariant(false, 'React DOM tree root should always have a node reference.') : _prodInvariant('34') : void 0;
    inst = inst._hostParent;
  }

  // Now parents contains each ancestor that does *not* have a cached native
  // node, and `inst` is the deepest ancestor that does.
  for (; parents.length; inst = parents.pop()) {
    precacheChildNodes(inst, inst._hostNode);
  }

  return inst._hostNode;
}
```

```javascript
var ReactDOMComponentTree = {
  getClosestInstanceFromNode: getClosestInstanceFromNode,
  getInstanceFromNode: getInstanceFromNode,
  getNodeFromInstance: getNodeFromInstance,
  precacheChildNodes: precacheChildNodes,
  precacheNode: precacheNode,
  uncacheNode: uncacheNode
};
```

```javascript
export const UPDATE_SPEC = 'spec_update_spec'
export const UPDATE_URL = 'spec_update_url'
export const UPDATE_JSON = 'spec_update_json'
export const UPDATE_PARAM = 'spec_update_param'
export const UPDATE_EMPTY_PARAM_INCLUSION = 'spec_update_empty_param_inclusion'
export const VALIDATE_PARAMS = 'spec_validate_param'
export const SET_RESPONSE = 'spec_set_response'
export const SET_REQUEST = 'spec_set_request'
export const SET_MUTATED_REQUEST = 'spec_set_mutated_request'
export const LOG_REQUEST = 'spec_log_request'
export const CLEAR_RESPONSE = 'spec_clear_response'
```
CLEAR_REQUEST = "spec_clear_request"
export const CLEAR_VALIDATE_PARAMS = "spec_clear_validate_param"
export const UPDATE_OPERATION_META_VALUE = "spec_update_operation_meta_value"
export const UPDATE_RESOLVED = "spec_update_resolved"
export const UPDATE_RESOLVED_SUBTREE = "spec_update_resolved_subtree"
export const SET_SCHEME = "set_scheme"

const toStr = (str) => isString(str) ? str : ""

export function updateSpec(spec) {
  const cleanSpec = (toStr(spec)).replace(/\t/g, "  ")
  if(typeof spec === "string") {
    return {
      type: UPDATE_SPEC,
      payload: cleanSpec
    }
  } else {
    return {
      type: UPDATE_RESOLVED,
      payload: spec
    }
  }
}

export function updateResolved(spec) {
  return {
    type: UPDATE_RESOLVED,
    payload: spec
  }
}

export function updateUrl(url) {
  return {type: UPDATE_URL, payload: url}
}

export function updateJsonSpec(json) {
  return {type: UPDATE_JSON, payload: json}
}

export const parseToJson = (str) => ({specActions, specSelectors, errActions}) => {
  let {specStr} = specSelectors
  let json = null
  try {
    str = str || specStr()
    errActions.clear({ source: "parser" })
    json = YAML.safeLoad(str)
  } catch(e) {
    // TODO: push error to state
    console.error(e)
    return errActions.newSpecErr({
      source: "parser",
      level: "error",
      message: e.reason,
      line: e.mark && e.mark.line + 1 : undefined
    })
  }
  if(json && typeof json === "object") {
    return specActions.updateJsonSpec(json)
  }
}

let hasWarnedAboutResolveSpecDeprecation = false

export const resolveSpec = (json, url) => ({specActions, specSelectors, errActions, fn: { fetch, resolve, AST: {} }, getConfigs}) => {
  if(!hasWarnedAboutResolveSpecDeprecation) {
    console.warn("specActions.resolveSpec is deprecated since v3.10.0 and will be removed in v4.0.0; use requestResolvedSubtree instead!")
    hasWarnedAboutResolveSpecDeprecation = true
  }

  const {
    modelPropertyMacro,
    parameterMacro,
    requestInterceptor,
    responseInterceptor
  } = getConfigs()

  if(typeof(json) === "undefined") {
    json = specSelectors.specJson()
  }
  if(typeof(url) === "undefined") {
    url = specSelectors.url()
  }

  const specStr = specSelectors.specStr()

  const {
    modelPropertyMacro,
    parameterMacro,
    requestInterceptor,
    responseInterceptor
  } = system.getConfigs()

  try {
    var batchResult = await requestBatch.reduce(async (prev, path) => {
      const { resultMap, specWithCurrentSubtrees } = await prev
      const { errors, spec } = await resolveSubtree(specWithCurrentSubtrees, path, {
        baseDoc: specSelectors.url(),
        modelPropertyMacro,
        parameterMacro,
        requestInterceptor,
        responseInterceptor
      })
      if(errSelectors.allErrors().size) {
        errActions.clearBy(err => {
          // keep if...
          return err.get("type") !== "thrown" // it's not a thrown error
            || err.get("source") !== "resolver" // it's not a resolver error
            || !err.get("fullPath").every((key, i) => key === path[i] || path[i] === undefined) // it's not within the path we're resolving
        })
      }
      if(Array.isArray(errors) && errors.length > 0) {
        let preparedErrors = errors.map(err => {
          err.line = err.fullPath ? getLineNumberForPath(specStr, err.fullPath) : null
          err.path = err.fullPath ? err.fullPath.join(\".\") : null
          err.level = "error"
          err.type = "thrown"
          err.source = "resolver"
          Object.defineProperty(err, "message", { enumerable: true, value: err.message })
        })
        errActions.newThrownErrBatch(preparedErrors)
      }
    })
  } finally {
    system.errActions.clearBy(err => {
      // keep if...
      return err.get("type") !== "thrown" // it's not a thrown error
    })
  }

  return {errActions, newThrownErrBatch(preparedErrors)}
}
err.source = "resolver"
            return err
          })
        }
      })

      errActions.newThrownErrBatch(preparedErrors)
    }

    errActions.newThrownErrBatch(preparedErrors)
    if (errActions.isOperationResolvedBatch() && errActions.commitBatch(errActions.newThrownErrBatch(preparedErrors))) {
      return
    }

    errActions.commitBatch(errActions.newThrownErrBatch(preparedErrors))

    errActions.newThrownErrBatch(preparedErrors)
    return
  }

  return {
    resultMap,
    specWithCurrentSubtrees
  }

  return {
    resultMap: specSelectors.specResolvedSubtree([]) || Map().toJS(),
    specWithCurrentSubtrees: specSelectors.specResolvedSubtrees().toJS() || Map().toJS()
  }

  delete requestBatch.system
  requestBatch = []

  specActions.updateResolvedSubtree([], batchResult.resultMap)
}, 35)

export const requestResolvedSubtree = path => system => {
  // poor-man's array comparison
  // if this ever inadequate, this should be rewritten to use
  // ImmutableJS.List
  const isPathAlreadyBatched = requestBatch
    .map(arr => arr.join("@@"))

    .indexOf(path.join("@@")) > -1
  
  if(isPathAlreadyBatched) {
    return
  }

  requestBatch.push(path)
  requestBatch.system = system
  debResolveSubtrees()
}

export function changeParam( path, paramName, paramIn, value, isXml ){
  return {
    type: UPDATE_PARAM,
    payload:{ path, value, paramName, paramIn,
      isXml }
  }
}

export function changeParamByIdentity( pathMethod, param, value, isXml ){
  return {
    type: UPDATE_PARAM,
    payload:{ path: pathMethod, param, value, isXml }
  }
}

export const updateResolvedSubtree = (path, value) => {
  return {
    type: UPDATE_RESOLVED_SUBTREE,
    payload: { path, value }
  }
}

export const invalidateResolvedSubtreeCache = () => {
  return {
    type: UPDATE_RESOLVED_SUBTREE,
    payload: { path: [], value: Map() }
  }
}

export const validateParams = ( payload, isOAS3 ) =>{
  return {
    type: VALIDATE_PARAMS,
    payload:{
      pathMethod: payload,
      isOAS3
    }
  }
}

export const updateEmptyParamInclusion = ( pathMethod, paramName, paramIn, includeEmptyValue ) =>{
  return {
    type: UPDATE_EMPTY_PARAM_INCLUSION,
    payload:{
      pathMethod,
      paramName,
      paramIn,
      includeEmptyValue
    }
  }
}

export function clearValidateParams( payload ){
  return {
    type: CLEAR_VALIDATE_PARAMS,
    payload:{
      pathMethod: payload
    }
  }
}

export function changeConsumesValue(path, value) {
  return {
    type: UPDATE_OPERATION_META_VALUE,
    payload:{ path, value, key: "consumes_value" }
  }
}

export function changeProducesValue(path, value) {
  return {
    type: UPDATE_OPERATION_META_VALUE,
    payload:{ path, value, key: "produces_value" }
  }
}

export const setResponse = ( path, method, res ) => {
  return {
    payload: { path, method, res },
    type: SET_RESPONSE
  }
}

export const setRequest = ( path, method, req ) => {
  return {
    payload: { path, method, req },
    type: SET_REQUEST
  }
}

export const setMutatedRequest = ( path, method, req ) =>{
  return {
    payload: { path, method, req },
    type: SET_MUTATED_REQUEST
  }
}

// This is for

// Actually fire the request via fn.execute() (For debugging)
and ease of testing
executeRequest = (req) =>
  ({fn, specActions, specSelectors, getConfigs, oas3Selectors}) => {
    let { pathName, method, operation } = req
    let { requestInterceptor, responseInterceptor } = getConfigs()

    let op = operation.toJS()
    
    // ensure that explicitly-included params are in the
    // request url
    if (operation && operation.get("parameters")) {
      operation.get("parameters")

      .filter(param => param && param.get("allowEmptyValue") === true)
          .forEach(param => {
            req.parameters = req.parameters || {}
            const paramValue = paramToValue(param, req.parameters)

            // if the value is falsy or an empty Immutable iterable...
            if(!paramValue || (paramValue &&
            paramValue.size === 0)) {
              // set it to empty string, so Swagger Client will treat it as
              // present but empty.
              req.parameters[param.get("name")] = ""
            }
          })
    }

    // if url is
    req.contextUrl = parseUrl(specSelectors.url()).toString()
    if(op && op.operationId) {
      req.operationId = op.operationId
    } else if(op && pathName && method) {
      req.operationId = fn.opId(op, pathName, method)
    }

    if(specSelectors.isOAS3()) {
      const namespace = '{$[pathName]:$[method]}'
      req.server = oas3Selectors.selectedServer(namespace) || oas3Selectors.selectedServer()
      const namespaceVariables = oas3Selectors.serverVariables()
      const server = reqserver
      server.localizedId = namespace
      const localServer = server
    }

    Open Source Used In Cisco Modeling Labs 2.2 3764
const requestBody = requestBody
   .map((val) => {
     if (Map.isMap(val)) {
       return val.get("value")
     }
     return val
   })
   .filter((value, key) => !isEmptyValue(value) || requestBodyInclusionSetting.get(key))
   .toJS()
   } else {
   req.requestBody = requestBody
   }
}

    let parsedRequest = Object.assign({}, req)
    parsedRequest = fn.buildRequest(parsedRequest)

    specActions.setRequest(req.pathName, req.method, parsedRequest)

    let requestInterceptorWrapper = function(r) {
      let mutatedRequest = requestInterceptor.apply(this, [r])
      let parsedMutatedRequest = Object.assign({}, mutatedRequest)
      specActions.setMutatedRequest(req.pathName, req.method, parsedMutatedRequest)
      return mutatedRequest
    }

    req.requestInterceptor = requestInterceptorWrapper
    req.responseInterceptor = responseInterceptor

    // track duration of request
    const startTime = Date.now()

    return fn.execute(req)
      .then(res => {
        res.duration = Date.now() - startTime
        specActions.setResponse(req.pathName, req.method, res)
      })
      .catch(err => {
        console.error(err)
        specActions.setResponse(req.pathName, req.method, {
          error: true, err: serializeError(err)
        })
      })
  }

  // I'm using extras as a way to inject properties into the final,
  // `execute` method - It's not great. Anyone have a better idea? @ponelat
  export const execute = ( { path, method, ...

  // https://github.com/zloirock/core-js/issues/86#issuecomment-115759028
  var global = module.exports = typeof window != 'undefined' &&
  window.Math == Math
  ? self
  // eslint-disable-next-line no-new-func
  : Function('return this')();
  if (typeof __g == 'number') __g = global; // eslint-disable-line
  no-undef

  'use strict';

  var YAMLException = require('./exception');

  var
  TYPE_CONSTRUCTOR_OPTIONS = [
    'kind',
    'resolve',
    'construct',
    'instanceOf',
    'predicate',
    'represent',
    'defaultStyle',
    'styleAliases',
    'mapping'
  ];

  function compileStyleAliases(map) {
    var result = {};
    if (map !== null) {
      Object.keys(map).forEach(function (style) {
        map[style].forEach(function (alias) {
          result[String(alias)] = style;
        });
      });
    }
    return result;
  }

  function Type(tag, options) {
    options = options || {};

    Object.keys(options).forEach(function (name) {
      if (TYPE_CONSTRUCTOR_OPTIONS.indexOf(name) === -1) {
        throw new YAMLException('Unknown option "' + name + '" is met in definition of "' + tag + '" YAML type.');
      }
    });

    this.tag = tag;
    this.kind = options['kind'] || null;
    this.resolve = options['resolve'] || function () { return true; };
    this.construct = options['construct'] || function (data) { return data; };
    this.instanceOf = options['instanceOf'] || null;
    this.predicate = options['predicate'] || null;
    this.represent = options['represent'] || null;
    this.defaultStyle = options['defaultStyle'] || null;
    this.styleAliases = compileStyleAliases(options['styleAliases'] || null);
  }
(YAML_NODE_KINDS.indexOf(this.kind) !== -1) {
    throw new YAMLException("Unknown kind " +
    this.kind + " is specified for " + tag + " YAML type.");
}

if (USE_SYMBOL !== undefined) {
    var store = require('./_shared')('wks');
    var uid = require('./_uid');
    var Symbol = require('./_global').Symbol;

    if (USE_SYMBOL !== undefined) {
        var store = require('./_shared')('wks');
        var uid = require('./_uid');
        var Symbol = require('./_global').Symbol;
    }
}

module.exports = Type;

var store = require('./_shared')('wks');
var uid = require('./_uid');
var Symbol = require('./_global').Symbol;
var USE_SYMBOL = typeof Symbol == 'function';
var exports = module.exports = function (name) {
    return store[name] || (store[name] =
        USE_SYMBOL && Symbol[name] || (USE_SYMBOL ? Symbol : uid)('Symbol.' + name));
}

module.exports = function (name) {
    return store[name] || (store[name] =
        USE_SYMBOL && Symbol[name] || (USE_SYMBOL ? Symbol : uid)('Symbol.' + name));
}

module.exports = function (it) {
    return typeof it === 'object' ? it !== null : typeof it === 'function';
}

var store = require('./_shared')('wks');
var uid = require('./_uid');
var Symbol = require('./_global').Symbol;
var USE_SYMBOL = typeof Symbol == 'function';
var exports = module.exports = function (name) {
    return store[name] || (store[name] =
        USE_SYMBOL && Symbol[name] || (USE_SYMBOL ? Symbol : uid)('Symbol.' + name));
}

module.exports = function (it) {
    return typeof it === 'object' ? it !== null : typeof it === 'function';
}

var store = require('./_shared')('wks');
var uid = require('./_uid');
var Symbol = require('./_global').Symbol;
var USE_SYMBOL = typeof Symbol == 'function';
var exports = module.exports = function (name) {
    return store[name] || (store[name] =
        USE_SYMBOL && Symbol[name] || (USE_SYMBOL ? Symbol : uid)('Symbol.' + name));
}

module.exports = function (it) {
    return typeof it === 'object' ? it !== null : typeof it === 'function';
}

var $exports = module.exports = function (name) {
    return store[name] || (store[name] =
        USE_SYMBOL && Symbol[name] || (USE_SYMBOL ? Symbol : uid)('Symbol.' + name));
}

$exports.store = store;

module.exports = function (it) {
    return typeof it === 'object' ? it !== null : typeof it === 'function';
}

var $exports = module.exports = function (name) {
    return store[name] || (store[name] =
        USE_SYMBOL && Symbol[name] || (USE_SYMBOL ? Symbol : uid)('Symbol.' + name));
}

$exports.store = store;

var g;

// This works in non-strict mode

var isObject = require('./_is-object');
module.exports = function (it) {
    if (!isObject(it)) throw TypeError(it + ' is not an object!');
    return it;
};

/**
 * Copyright (c) 2013-present, Facebook, Inc.
 *
 * This source code is licensed under the MIT license found in the
 * LICENSE file in the root directory of this source tree.
 *
 */

'use strict';

var canUseDOM = !!(typeof window !== 'undefined' && window.document && window.document.createElement);

/**
 * Simple, lightweight module assisting with the detection and context of
 * Worker. Helps avoid circular dependencies and allows code to reason
 * about whether or not they are in a Worker, even if they never include the main
 * `ReactWorker` dependency.
 *
 * @param {Object} [scope] - object that will be extended
 *
 */
var ExecutionEnvironment = {
    canUseDOM: canUseDOM,
    canUseWorkers: typeof Worker !== 'undefined',
    canUseEventListeners: canUseDOM && !!(window.addEventListener || window.attachEvent),
    canUseViewport: canUseDOM && !!window.screen,
    isInWorker: !canUseDOM // For now, this is true - might change in the future.
};

module.exports = ExecutionEnvironment;
export const NEW_SPEC_ERR = "err_new_spec_err";

```
for (var method in path[$pathName])
  {
    var chValue = cb(operationObj);
    if (find && chValue)
      {
        return undefined;
      }

    for (var method in path[ newPathName ])
      {
        var operation = path[ newPathName ][ method ];
        if (operation !== method.toUpperCase())
          {
            continue;
          }

        var operationObj = {
          spec: spec,
          pathName: newPathName,
          method: method.toUpperCase(),
          operationId: operationId,
          operation: operation,
          changes
        }

        operationObj = {
          spec: spec,
          pathName: pathName,
          method: method.toUpperCase(),
          operation: operation,
          changes
        }

        var operationId = o._originalOperationId || o.operationId;
        if (operationId)
          {
            continue;
          }

        var params = operation[ "parameters" ];
        if (params)
          {
            var param = params[ key ];
            if (param && param.$ref)
              {
                var opParam = operationObj[ 'parameters' ][ key ];
                if (opParam && opParam.$ref)
                  {
                    var param = opParam.$ref
                  }
              }
          }
```
NEW_SPEC_ERR_BATCH = "err_new_spec_err_batch"
export const NEW_AUTH_ERR = "err_new_auth_err"
export const CLEAR = "err_clear"
export const CLEAR_BY = "err_clear_by"

export function newThrownErr(err) {
  return {
    type: NEW_THROWN_ERR,
    payload: serializeError(err)
  }
}

export function newThrownErrBatch(errors) {
  return {
    type: NEW_THROWN_ERR_BATCH,
    payload: errors
  }
}

export function newSpecErr(err) {
  return {
    type: NEW_SPEC_ERR,
    payload: err
  }
}

export function newSpecErrBatch(errArray) {
  return {
    type: NEW_SPEC_ERR_BATCH,
    payload: errArray
  }
}

export function newAuthErr(err) {
  return {
    type: NEW_AUTH_ERR,
    payload: err
  }
}

export function clear(filter = {}) {
  // filter looks like: {type: 'spec'}, {source: 'parser'}
  return {
    type: CLEAR,
    payload: filter
  }
}

export function clearBy(filter = () => true) {
  // filter is a function
  return {
    type: CLEAR_BY,
    payload: filter
  }
}

export const UPDATE_SELECTED_SERVER = "oas3_set_servers"
export const UPDATE_REQUEST_BODY_VALUE = "oas3_set_request_body_value"
export const UPDATE_REQUEST_BODY_INCLUSION = "oas3_set_request_body_inclusion"
export const UPDATE_ACTIVE_EXAMPLES_MEMBER = "oas3_set_active_examples_member"
export const UPDATE_REQUEST_CONTENT_TYPE = "oas3_set_request_content_type"
export const UPDATE_SERVER_VARIABLE_VALUE = "oas3_set_server_variable_value"
export const UPDATE_SERVER_VARIABLE_VALIDATE = "oas3_set_server_variable_validate_error"
export const CLEAR_REQUEST_BODY_VALIDATE_ERROR = "oas3_clear_request_body_validate_error"
export const CLEAR_RESPONSE_CONTENT_TYPE = "oas3_clear_response_content_type"
export const CLEAR_SERVER_VARIABLE_VALIDATE = "oas3_clear_server_variable_validate_error"
export const SET_REQUEST_BODY_VALIDATE_ERROR = "oas3_set_request_body_validate_error"
export const CLEAR_REQUEST_BODY_VALIDATE_ERROR = "oas3_clear_request_body_validate_error"
export const CLEAR_RESPONSE_CONTENT_TYPE = "oas3_clear_response_content_type"
export const CLEAR_SERVER_VARIABLE_VALIDATE = "oas3_clear_server_variable_validate_error"

export function setSelectedServer(selectedServerUrl, namespace) {
  return {
    type: UPDATE_SELECTED_SERVER,
    payload: { selectedServerUrl, namespace }
  }
}

export function setRequestBodyValue(value, pathMethod) {
  return {
    type: UPDATE_REQUEST_BODY_VALUE,
    payload: { value, pathMethod }
  }
}

export function setRequestBodyInclusion(value, pathMethod, name) {
  return {
    type: UPDATE_REQUEST_BODY_INCLUSION,
    payload: { value, pathMethod, name }
  }
}

export function setActiveExamplesMember(name, pathMethod, contextType, contextName) {
  return {
    type: UPDATE_ACTIVE_EXAMPLES_MEMBER,
    payload: { name, pathMethod, contextType, contextName }
  }
}

export function setRequestContentType(value, pathMethod) {
  return {
    type: UPDATE_REQUEST_CONTENT_TYPE,
    payload: { value, pathMethod }
  }
}

export function setResponseContentType(value, path, method) {
  return {
    type: UPDATE_RESPONSE_CONTENT_TYPE,
    payload: { value, path, method }
  }
}

export function setServerVariableValue(server, namespace, key, val) {
  return {
    type: UPDATE_SERVER_VARIABLE_VALUE,
    payload: { server, namespace, key, val }
  }
}

var isObject = require('./_is-object');
module.exports = function (it) {
  if (!isObject(it)) throw TypeError(it + ' is not an object!');
  return it;
};

if (typeof Object.create === 'function') {
  // implementation from standard node.js 'util' module
  module.exports = function inherits(ctor, superCtor) {
    ctor.super_ = superCtor
    ctor.prototype = Object.create(superCtor.prototype, {
      constructor: {
        value: ctor,
        enumerable: false,
        writable: true,
        configurable: true
      }
    });
  }
} else {
  // old school shim for old browsers
  module.exports = function inherits(ctor, superCtor) {
    var ctor.super_ = superCtor
    ctor.prototype = Object.create(superCtor.prototype, { constructor: { value: ctor, enumerable: false, writable: true, configurable: true } });
  }
}

/* eslint-disable node/no-deprecated-api */
var buffer = require('buffer')
var Buffer = buffer.Buffer

function
```javascript
function get(object, path, defaultValue) {
  var result = object == null ? undefined : baseGet(object, path);
  return result === undefined ? defaultValue : result;
}
```

```javascript
module.exports = require("core-js/library/fn/promise");
```

```javascript
var anObject = require('./_an-object');
var IE8_DOM_DEFINE = require('./_ie8-dom-define');
var toPrimitive = require('./_to-primitive');
var dP = Object.defineProperty;

exports.f = require('./_descriptors') ? Object.defineProperty : function defineProperty(O, P, Attributes) {
  anObject(O);
  P = toPrimitive(P, true);
  anObject(Attributes);
  if (IE8_DOM_DEFINE) try
```
```javascript

function return dP(O, P, Attributes) { return Attributes; } catch (e) { /* empty */ }
if ('get' in Attributes) O[get](P, Attributes);
if ('set' in Attributes) O[set](P, Attributes); 
var freeSelf = require('./_freeGlobal');
/*_*/*

/**
 * Copyright (c) 2016-present, Facebook,
 * Inc.
 * This source code is licensed under the MIT license found in the LICENSE file in the root directory of this source tree.
 * * * */LICENSE
 */

var

/**
 * Use Uint8Array implementation (fastest)
 *
 */

if (typeof ArrayBuffer !== 'undefined') {
  global.TYPED_ARRAY_SUPPORT = true
}

Buffer.TYPED_ARRAY_SUPPORT = global.TYPED_ARRAY_SUPPORT;

function from (that, value, encodingOrOffset, length) {
  if (typeof value === 'number') {
    throw new TypeError('"value" argument must not be a number')
  }

  if (typeof ArrayBuffer !== 'undefined' && value instanceof ArrayBuffer) {
    return fromArrayBuffer(that, value, encodingOrOffset, length)
  }

  if (typeof value === 'string') {
    return Buffer.from(value, 'utf8') // Fallback: Return an empty instance of the Buffer class if (that === null) { that = new Buffer(length) }
  }

  return Buffer.fromBuffer(arg, encodingOrOffset, length) // Common case
}

if (typeof encodingOrOffset === 'string') {
  throw new TypeError('"value" argument must not be a number')
}
```
= (firstByte & 0xFF) << 0x12 | (secondByte & 0x3F) << 0xC | (thirdByte & 0x3F) << 0x6 | (fourthByte & 0x3F)

if (tempCodePoint > 0xFFFF && tempCodePoint < 0x110000) { 
    codePoint = tempCodePoint
}

if (codePoint === null) {
    // we did not generate a valid codePoint so insert a
    // replacement char (U+FFFD) and advance only 1 byte
    codePoint = 0xFFFD
    bytesPerSequence = 1
}

if (codePoint > 0xFFFF) {
    // encode to utf16 (surrogate pair dance)
    codePoint -= 0x10000
    res.push(codePoint >> 10 & 0x3FF | 0xD800)
    codePoint = 0xDC00 | codePoint & 0x3FF
}

res.push(codePoint)

return decodeCodePointsArray(res)

// Based on
// http://stackoverflow.com/a/22747272/680742, the browser with
// the lowest limit is Chrome, with 0x10000 args./
We go 1 magnitude less, for safety/var MAX_ARGUMENTS_LENGTH = 0x1000

function decodeCodePointsArray (codePoints) { 
    var len = codePoints.length
    if (len <= MAX_ARGUMENTS_LENGTH) {
        return String.fromCharCode.apply(String, codePoints)
    } // avoid extra slice()

    var res = ''
    // Decode in chunks to avoid "call stack size exceeded"
    while (len > 0) {
        res += String.fromCharCode.apply(String, 
            codePoints.slice(i, Math.min(i + MAX_ARGUMENTS_LENGTH, len)))
        i += MAX_ARGUMENTS_LENGTH
    }

    return res
}

function asciiSlice (buf, start, end) {
    var ret = ''
    end = Math.min(buf.length, end)
    for (var i = start; i < end; ++i) {
        ret += String.fromCharCode(buf[i] & 0x7F)
    }
    return ret
}

function latin1Slice (buf, start, end) {
    var ret = ''
    end = Math.min(buf.length, end)
    for (var i = start; i < end; ++i) {
        ret += String.fromCharCode(buf[i])
    }
    return ret
}

function hexSlice (buf, start, end) {
    var len = buf.length
    if (!start || start < 0) start = 0
    if (!end || end < 0 || end > len) end = len
    var out = ''
    for (var i = start; i < end; ++i) {
        out += toHex(buf[i])
    }
    return out
}

Buffer.prototype.slice = function slice (start, end) {
    var len = this.length
    start = ~~start
    end = end === undefined ? len : ~~end

    if (start < 0) {
        start += len
        if (start < 0) start = 0
    } else if (start > len) {
        start = len
    }

    if (end < 0) {
        end += len
        if (end < 0) end = 0
    } else if (end > len) {
        end = len
    }

    if (end <= start) end = start

    var newBuf
    if (Buffer.TYPED_ARRAY_SUPPORT) {
        newBuf = this.subarray(start, end)
        newBuf.__proto__ = Buffer.prototype
    } else {
        var sliceLen = end - start
        newBuf = new Buffer(sliceLen, undefined)
        for (var i = 0; i < sliceLen; ++i) {
            newBuf[i] = this[i + start]
        }
    }

    return newBuf
}

/*
 * Need to make sure that buffer isn't trying to write out of bounds.
 */
function checkOffset (offset, ext, length) {
    if ((offset % 1) !== 0 || offset < 0) throw new RangeError('offset is not uint')
    if (offset + ext > length) throw new RangeError('Trying to access beyond buffer length')

    var buffer = this.buffer
    var byteLength = buffer.byteLength
    var bufferLen = buffer.length
    var val = this[bufferLen - 1 - offset & 0x7F]

    if (val === 0xFFFD) {
        return -1
    } else {
        return offset
    }
}

Buffer.prototype.readUIntLE = function readUIntLE (offset, byteLength, noAssert) {
    if (!noAssert) checkOffset(offset, byteLength, this.length)

    var val = this[offset]
    var mul = 1
    while (++i < byteLength && (mul *= 0x100)) {
        val += this[offset + i] * mul
    }

    return val
}

Buffer.prototype.readUIntBE = function readUIntBE (offset, byteLength, noAssert) {
    if (!noAssert) checkOffset(offset, byteLength, this.length)

    var val = this[offset + --byteLength]
    var mul = 1
    while (byteLength > 0 && (mul *= 0x100)) {
        val += this[offset + --byteLength] * mul
    }

    return val
}

Buffer.prototype.readIntLE = function readIntLE (offset, byteLength, noAssert) {
    if (!noAssert) checkOffset(offset, byteLength, this.length)

    var val = this[offset]
    var zero = 0
    while (++i < byteLength && (zero += 0x100)) {
        val += this[offset + i] * zero
    }

    return val
}

Buffer.prototype.readIntBE = function readIntBE (offset, byteLength, noAssert) {
    if (!noAssert) checkOffset(offset, byteLength, this.length)

    var val = this[offset + --byteLength]
    var zero = 0
    while (byteLength > 0 && (zero += 0x100)) {
        val += this[offset + --byteLength] * zero
    }

    return val
}

Buffer.prototype.readUInt8 = function readUInt8 (offset, noAssert) {
    if (!noAssert) checkOffset(offset, 1, this.length)

    return this[offset]
}

Buffer.prototype.readUInt16LE = function readUInt16LE (offset, noAssert) {
    if (!noAssert) checkOffset(offset, 2, this.length)

    return this[offset] + this[offset + 1] * 0x100
}

Buffer.prototype.readUInt16BE = function readUInt16BE (offset, noAssert) {
    if (!noAssert) checkOffset(offset, 2, this.length)

    return this[offset + 1] + this[offset] * 0x100
}

Buffer.prototype.readUInt32LE = function readUInt32LE (offset, noAssert) {
    if (!noAssert) checkOffset(offset, 4, this.length)

    return ((this[offset]) << 24) + ((this[offset + 1] << 16) + (this[offset + 2] << 8) + (this[offset + 3])
}

Buffer.prototype.readUInt32BE = function readUInt32BE (offset, noAssert) {
    if (!noAssert) checkOffset(offset, 4, this.length)

    return ((this[offset + 3]) << 24) + ((this[offset + 2] << 16) + (this[offset + 1] << 8) + this[offset]
}

Buffer.prototype.readInt8 = function readInt8 (offset, noAssert) {
    if (!noAssert) checkOffset(offset, 1, this.length)

    return this[offset]
}

Buffer.prototype.readInt16LE = function readInt16LE (offset, noAssert) {
    if (!noAssert) checkOffset(offset, 2, this.length)

    return this[offset] - this[offset + 1] * 0x100
}

Buffer.prototype.readInt16BE = function readInt16BE (offset, noAssert) {
    if (!noAssert) checkOffset(offset, 2, this.length)

    return this[offset + 1] - this[offset] * 0x100
}

Buffer.prototype.readInt32LE = function readInt32LE (offset, noAssert) {
    if (!noAssert) checkOffset(offset, 4, this.length)

    return ((this[offset]) << 24) + ((this[offset + 1] << 16) + (this[offset + 2] << 8) + this[offset + 3]
}

Buffer.prototype.readInt32BE = function readInt32BE (offset, noAssert) {
    if (!noAssert) checkOffset(offset, 4, this.length)

    return ((this[offset + 3]) << 24) + ((this[offset + 2] << 16) + (this[offset + 1] << 8) + this[offset]
}
bufferLength, this.length)
var val = this[offset]
var mul = 1
var i = 0
while (++i < byteLength && (mul *= 0x100)) {
  val += this[offset + i] * mul
  mul *= 0x80
}
if (val >= mul) val -= Math.pow(2, 8 * byteLength)
return val
}

Buffer.prototype.readIntBE = function readIntBE (offset, byteLength, noAssert) {
  var offset = offset | 0
  byteLength = byteLength | 0
  if (!noAssert) checkOffset(offset, byteLength, this.length)
  var i = byteLength
  var mul = 1
  var val = this[offset + --i] * mul
  while (i > 0 && (mul *= 0x100)) {
    val += this[offset + --i] * mul
    mul *= 0x80
  }
  if (val >= mul) val -= Math.pow(2, 8 * byteLength)
  return val
}

Buffer.prototype.readInt8 = function readInt8 (offset, noAssert) {
  if (!noAssert) checkOffset(offset, 1, this.length)
  if (!(this[offset] & 0x80)) return (this[offset])
  return ((0xff - this[offset] + 1) * -1)
}

Buffer.prototype.readInt16LE = function readInt16LE (offset, noAssert) {
  if (!noAssert) checkOffset(offset, 2, this.length)
  var i = byteLength
  var val = this[offset + --i]
  while (++i < byteLength && (mul *= 0x100)) {
    val += this[offset + i] * mul
  }
  mul *= 0x80
  if (val >= mul) val -= Math.pow(2, 8 * byteLength)
  return val
}

Buffer.prototype.readInt16BE = function readInt16BE (offset, noAssert) {
  if (!noAssert) checkOffset(offset, 2, this.length)
  var i = byteLength
  var val = this[offset + --i]
  while (++i < byteLength && (mul *= 0x100)) {
    val += this[offset + i] * mul
  }
  mul *= 0x80
  if (val >= mul) val -= Math.pow(2, 8 * byteLength)
  return val
}

Buffer.prototype.readInt32LE = function readInt32LE (offset, noAssert) {
  if (!noAssert) checkOffset(offset, 4, this.length)
  return (this[offset]) |
    (this[offset + 1] << 8) |
    (this[offset + 2] << 16) |
    (this[offset + 3] << 24)
}

Buffer.prototype.readInt32BE = function readInt32BE (offset, noAssert) {
  if (!noAssert) checkOffset(offset, 4, this.length)
  return (this[offset] << 24) |
    (this[offset + 1] << 16) |
    (this[offset + 2] << 8) |
    (this[offset + 3])
}

Buffer.prototype.readFloatLE = function readFloatLE (offset, noAssert) {
  if (!noAssert) checkOffset(offset, 4, this.length)
  return ieee754.read(this, offset, true, 23, 8)
}

Buffer.prototype.readFloatBE = function readFloatBE (offset, noAssert) {
  if (!noAssert) checkOffset(offset, 4, this.length)
  return ieee754.read(this, offset, false, 23, 8)
}

Buffer.prototype.readDoubleLE = function readDoubleLE (offset, noAssert) {
  if (!noAssert) checkOffset(offset, 8, this.length)
  return iee754.read(this, offset, true, 64)
}

Buffer.prototype.readDoubleBE = function readDoubleBE (offset, noAssert) {
  if (!noAssert) checkOffset(offset, 8, this.length)
  return ieee754.read(this, offset, false, 64)
}

function checkInt (buf, value, offset, ext, max, min) {
  if (!Buffer.isBuffer(buf)) throw new TypeError('"buffer" argument must be a Buffer instance')
  if (value > max || value < min) throw new RangeError('"value" argument is out of bounds')
  if (offset + ext > buf.length) throw new RangeError('Index out of range')
  if (Buffer.TYPED_ARRAY_SUPPORT) {
    this[offset] = (value & 0xff)
    this[offset + 1] = (value >>> 8)
  } else {
    objectWriteUInt16(this, value, offset, true)
  }
}

Buffer.prototype.writeUIntLE = function writeUIntLE (value, offset, byteLength, noAssert) {
  var maxBytes = Math.pow(2, 8 * byteLength) - 1
  var value = +value
  if (value > maxBytes) throw new RangeError('Value is out of bounds')
  if (Buffer.TYPED_ARRAY_SUPPORT) {
    this[offset] = (value & 0xff)
    this[offset + 1] = (value >>> 8)
  } else {
    objectWriteUInt16(this, value, offset, true)
  }
  return offset + byteLength
}

Buffer.prototype.writeUIntBE = function writeUIntBE (value, offset, byteLength, noAssert) {
  var maxBytes = Math.pow(2, 8 * byteLength) - 1
  var value = +value
  if (value > maxBytes) throw new RangeError('Value is out of bounds')
  if (Buffer.TYPED_ARRAY_SUPPORT) {
    this[offset] = (value >>> 8)
    this[offset + 1] = (value & 0xff)
  } else {
    objectWriteUInt16(this, value, offset, false)
  }
  return offset + byteLength
}

Buffer.prototype.writeUInt8 = function writeUInt8 (value, offset, noAssert) {
  var value = +value
  if (Buffer.TYPED_ARRAY_SUPPORT) {
    this[offset] = (value & 0xff)
    this[offset + 1] = (value >>> 8)
  } else {
    objectWriteUInt16(this, value, offset, true)
  }
  return offset + 1
}

function objectWriteUInt16 (buf, value, offset, littleEndian) {
  if (value < 0) value = 0xffff + value + 1
  for (var i = 0, j = Math.min(buf.length - offset, 2); i < j; ++i) {
    buf[offset + i] = (value & (0xff << (8 * (littleEndian ? i : 1 - i)))) >>> 0
  }
}

Buffer.prototype.writeUInt16LE = function writeUInt16LE (value, offset, noAssert) {
  var value = +value
  if (value > maxBytes) throw new RangeError('Value is out of bounds')
  if (Buffer.TYPED_ARRAY_SUPPORT) {
    this[offset] = (value & 0xff)
    this[offset + 1] = (value >>> 8)
  } else {
    objectWriteUInt16(this, value, offset, true)
  }
  return offset + 2
}

Buffer.prototype.writeUInt16BE = function writeUInt16BE (value, offset, noAssert) {
  var value = +value
  if (value > maxBytes) throw new RangeError('Value is out of bounds')
  if (Buffer.TYPED_ARRAY_SUPPORT) {
    this[offset] = (value >>> 8)
    this[offset + 1] = (value & 0xff)
  } else {
    objectWriteUInt16(this, value, offset, false)
  }
  return offset + 2
}
offset + 2n}\n
function objectWriteUInt32 (buf, value, offset, littleEndian) \n{\n  if (value < 0) value = 0xffffffff + value + 1n \n  for (var i = 0, j = Math.min(buf.length - offset, 4); i < j; ++i) \n  { \n    buf[offset + i] = (value >>> (littleEndian ? 3 - i : 8)) & 0xff\n  }\n}\n
function objectWriteUInt32LE (buf, value, offset) \n{\n  if (buf[offset + 3] === (value >>> 24) \n      && buf[offset + 2] === (value >>> 16) \n      && buf[offset + 1] === (value >>> 8) \n      && buf[offset] === (value & 0xff) \n  ) \n  else \n  { \n    objectWriteUInt32(buf, value, offset, true); \n  }\n}\n
var Buffer = require('buffer').Buffer;\n
Buffer.prototype.writeUInt32LE = function writeUInt32LE (value, offset, noAssert) \n{\n  value = +value \n  offset = offset \n  if (!noAssert) checkInt(this, value, offset, 4, 0xffffffff, 0) \n  if (Buffer.TYPED_ARRAY_SUPPORT) \n  {\n    this[offset][0] = (value >>> 24) \n    this[offset + 1] = (value >>> 16) \n    this[offset + 2] = (value >>> 8) \n    this[offset + 3] = (value & 0xff) \n  } \n  else \n  { \n    objectWriteUInt32(this, value, offset, true) \n  } \n  return offset + 4n\n}\n
Buffer.prototype.writeUInt32BE = function writeUInt32BE (value, offset, noAssert) \n{\n  value = +value \n  offset = offset \n  if (!noAssert) checkInt(this, value, offset, 4, 0xffffffff, 0) \n  if (Buffer.TYPED_ARRAY_SUPPORT) \n  {\n    this[offset][0] = (value >>> 24) \n    this[offset + 1] = (value >>> 16) \n    this[offset + 2] = (value >>> 8) \n    this[offset + 3] = (value & 0xff) \n  } \n  else \n  { \n    objectWriteUInt32(this, value, offset, true) \n  } \n  return offset + 4n\n}\n
Buffer.prototype.writeInt8 = function writeInt8 (value, offset, noAssert) \n{\n  value = +value \n  offset = offset \n  if (!noAssert) checkInt(this, value, offset, 1, 0x7f, -0x80) \n  if (!Buffer.TYPED_ARRAY_SUPPORT) value = Math.floor(value) \n  if (value < 0) value = 0xff + value + 1 \n  this[offset] = (value & 0xff) \n  return offset + 1n\n}\n
Buffer.prototype.writeInt16LE = function writeInt16LE (value, offset, noAssert) \n{\n  value = +value \n  offset = offset \n  if (!noAssert) checkInt(this, value, offset, 2, 0x7fff, -0x8000) \n  if (Buffer.TYPED_ARRAY_SUPPORT) \n  {\n    this[offset][0] = (value & 0xff) \n    this[offset + 1] = (value >>> 8) \n  } \n  else \n  { \n    objectWriteUInt16(this, value, offset, true) \n  } \n  return offset + 2n\n}\n
Buffer.prototype.writeInt16BE = function writeInt16BE (value, offset, noAssert) \n{\n  value = +value \n  offset = offset \n  if (!noAssert) checkInt(this, value, offset, 2, 0x7fff, -0x8000) \n  if (!Buffer.TYPED_ARRAY_SUPPORT) \n  {\n    this[offset][0] = (value & 0xff) \n    this[offset + 1] = (value >>> 8) \n  } \n  else \n  { \n    objectWriteUInt16(this, value, offset, false) \n  } \n  return offset + 2n\n}\n
Buffer.prototype.writeInt32LE = function writeInt32LE (value, offset, noAssert) \n{\n  value = +value \n  offset = offset \n  if (!noAssert) checkInt(this, value, offset, 4, 0x7fffffff, -0x80000000) \n  if (Buffer.TYPED_ARRAY_SUPPORT) \n  {\n    this[offset][0] = (value & 0xff) \n    this[offset + 1] = (value >>> 8) \n    this[offset + 2] = (value >>> 16) \n    this[offset + 3] = (value >>> 24) \n  } \n  else \n  { \n    objectWriteUInt32(this, value, offset, true) \n  } \n  return offset + 4n\n}\n
Buffer.prototype.writeInt32BE = function writeInt32BE (value, offset, noAssert) \n{\n  value = +value \n  offset = offset \n  if (!noAssert) checkInt(this, value, offset, 4, 0x7fffffff, -0x80000000) \n  if (value < 0) value = 0xffffffff + value + 1n \n  if (Buffer.TYPED_ARRAY_SUPPORT) \n  { \n    this[offset] = (value >>> 24) \n  } \n  else \n  { \n    objectWriteUInt32(this, value, offset, true) \n  } \n  return offset + 4n\n}\n
Buffer.prototype.writeFloatLE = function writeFloatLE (value, offset, noAssert) \n{\n  value = +value \n  offset = offset \n  if (!noAssert) checkInt(this, value, offset, 4, 0x7f80, -0x8080) \n  if (Buffer.TYPED_ARRAY_SUPPORT) \n  { \n    this[offset][0] = value \n    this[offset + 1] = (value >>> 8) \n    this[offset + 2] = (value >>> 16) \n    this[offset + 3] = (value >>> 24) \n  } \n  else \n  { \n    objectWriteUInt32(this, value, offset, true) \n  } \n  return offset + 4n\n}\n
Buffer.prototype.writeFloatBE = function writeFloatBE (value, offset, noAssert) \n{\n  value = +value \n  offset = offset \n  if (!noAssert) checkInt(this, value, offset, 4, 0x7f80, -0x8080) \n  if (Buffer.TYPED_ARRAY_SUPPORT) \n  { \n    this[offset][0] = value \n    this[offset + 1] = (value >>> 8) \n    this[offset + 2] = (value >>> 16) \n    this[offset + 3] = (value >>> 24) \n  } \n  else \n  { \n    objectWriteUInt32(this, value, offset, true) \n  } \n  return offset + 4n\n}\n
function checkIEEE754 (buf, value, offset, ext, max, min) \n{ \n  if (offset + ext > buf.length) throw new RangeError('Index out of range') \n  if (value < 0) throw new RangeError('Index out of range') \n  if (buf[offset + ext] !== 0) throw new RangeError('Index out of range') \n  if (buf[offset + ext + 1] !== 0) throw new RangeError('Index out of range') \n  if (buf[offset + ext + 2] !== 0) throw new RangeError('Index out of range') \n  if (buf[offset + ext + 3] !== 0) throw new RangeError('Index out of range') \n  return (value == max || value == min) \n}\n
if (Buffer.TYPED_ARRAY_SUPPORT) \n{ \n  objectWriteUInt16.prototype.writeInt8 = function writeInt8 (value, offset, noAssert) \n  { \n    value = +value \n    offset = offset \n    if (!noAssert) checkInt(this, value, offset, 1, 0xff, -0xff) \n    if (!Buffer.TYPED_ARRAY_SUPPORT) value = Math.floor(value) \n    if (value < 0) value = 0xff + value + 1 \n    this[offset] = (value & 0xff) \n    return offset + 1n \n  } \n}

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0) break
      bytes.push(codePoint)
    } else if (codePoint < 0x800) {
      if ((units -= 2) < 0) break
      bytes.push(
        codePoint >> 0x6 | 0xC0,
        codePoint & 0x3F | 0x80
      )
    } else if (codePoint < 0x10000) {
      if ((units -= 3) < 0) break
      bytes.push(
        codePoint >> 0xC | 0xE0,
        codePoint >> 0x6 & 0x3F | 0x80,
        codePoint & 0x3F | 0x80
      )
    } else if (codePoint < 0x110000) {
      if ((units -= 4) < 0) break
      bytes.push(codePoint)
    } else if (codePoint > 0x1F_FF_FF)
      throw new Error('Invalid code point')
  }

  return bytes
}

function asciiToBytes (str) {
  var byteArray = []
  for (var i = 0; i < str.length; ++i) {
    // Node's code seems to be doing this and not & 0x7F..
    byteArray.push(str.charCodeAt(i) & 0xFF)
  }
  return byteArray
}

function utf16leToBytes (str, units) {
  var c, hi, lo
  var byteArray = []
  for (var i = 0; i < str.length; ++i) {
    if ((units -= 2) < 0) break
    c = str.charCodeAt(i)
    hi = c >> 8
    lo = c % 256
    byteArray.push(lo)
    byteArray.push(hi)
  }

  return byteArray
}

function base64ToBytes (str) {
  return base64.toByteArray(base64clean(str))
}

function blitBuffer (src, dst, offset, length) {
  for (var i = 0; i < length; ++i) {
    if ((i + offset >= dst.length) || (i >= src.length)) break
    dst[i + offset] = src[i]
  }
  return i
}

function isnan (val) {
  return val !== val // eslint-disable-line no-self-compare
}

module.exports = require("core-js/library/fn/object/define-property");
module.exports = require("core-js/library/fn/object/get-own-property-descriptor");
module.exports = require("core-js/library/fn/object/get-own-property-symbols");

/**
 * Copyright (c) 2013-present, Facebook, Inc.
 *
 * This source code is licensed under the MIT license found in the
 * LICENSE file in the root directory of this source tree.
 *
 */

function makeEmptyFunction(arg) {
  return function () {
    return arg;
  }
}

/**
 * This function accepts and discards inputs; it has no side effects. This is
 * primarily useful idiomatically for overridable function endpoints which
 * always need to be callable, since JS lacks a null-call idiom ala Cocoa.
 */
var emptyFunction = function emptyFunction() {};

emptyFunction.thatReturns = makeEmptyFunction;
emptyFunction.thatReturnsFalse = makeEmptyFunction(false);
emptyFunction.thatReturnsTrue = makeEmptyFunction(true);
emptyFunction.thatReturnsNull = makeEmptyFunction(null);
emptyFunction.thatReturnsThis = function () {
  return this;
};
emptyFunction.thatReturnsArgument = function (arg) {
  return arg;
};

module.exports = emptyFunction;
Mark a component as needing a rerender, adding an optional callback to an * list of functions which will be executed once the rerender occurs.

```

CallbackQueue.getPooled();
CallbackQueue.notifyAll();

CallbackQueue.release(queue);

| \n | \n\n/*\n *\nfunction enqueueUpdate(component) {\n  ensureInjected();\n  // Various parts of our code (such as RenderCompositeComponent)\n  // _renderValidatedComponent) assume that calls to render\n  // aren't nested;\n  // verify that that's the case. (This is called by each top-level update\n  // function, like setState, forceUpdate, etc.; creation and\n  // destruction of top-level components is guarded in ReactMount.)\n  if (!batchingStrategy.isBatchingUpdates) {\n    batchingStrategy.batchedUpdates(enqueueUpdate, component);\n  }\n
  dirtyComponents.push(component);\n  if (component._updateBatchNumber == null) {\n    component._updateBatchNumber = updateBatchNumber + 1;\n  }\n
  // Enqueue a callback to be run at the end of the current batching cycle.
  \n  asapCallbackQueue.enqueue(queue);\n  queue.notifyAll();\n  CallbackQueue.release(queue);
}
```

```
/**
 *
 * Mark a component as needing a rerender, adding an optional callback to a\n * list of functions which will be executed once the rerender occurs.
 *
 * @param component\n * @param callback\n */

function enqueueUpdate(component) {
  ensureInjected();

  // Various parts of our code (such as RenderCompositeComponent)\n  // _renderValidatedComponent) assume that calls to render\n  // aren't nested;\n  // verify that that's the case. (This is called by each top-level update\n  // function, like setState, forceUpdate, etc.; creation and\n  // destruction of top-level components is guarded in ReactMount.)\n  if (!batchingStrategy.isBatchingUpdates) {\n    batchingStrategy.batchedUpdates(enqueueUpdate, component);\n  }\n
  dirtyComponents.push(component);\n  if (component._updateBatchNumber == null) {\n    component._updateBatchNumber = updateBatchNumber + 1;\n  }\n
  // Enqueue a callback to be run at the end of the current batching cycle.
  \n  asapCallbackQueue.enqueue(queue);\n  queue.notifyAll();\n  CallbackQueue.release(queue);
}
```

```
/**
 *
 * Enqueue a callback to be run at the end of the current batching cycle. Throws an\n * exception if no updates are currently being performed.
 *
 * @param callback\n */

function asap(callback, context) {
  invariant(batchingStrategy.isBatchingUpdates, "ReactUpdates.asap: Can't enqueue an\n  asap callback in a context where\n  updates aren't being batched.");\n  asapCallbackQueue.enqueue(callback, context);
}
```

```
/**
 * Enqueue a callback to be run at the end of the current batching cycle. Throws
 * exception if no updates are currently being performed.
 */

function asap(callback, context) {
  invariant(batchingStrategy.isBatchingUpdates, "ReactUpdates.asap: Can't enqueue an\n  asap callback in a context where\n  updates aren't being batched.");\n  asapCallbackQueue.enqueue(callback, context);
}
```

```
ReactUpdates.ReactReconcileTransaction = ReconcileTransaction;

ReactUpdates.injection = ReactUpdatesInjection;

module.exports = ReactUpdates;
the root directory of this source tree.

```javascript
'use strict';

/**
 * Keeps track of the current owner.
 *
 * The current owner is the component who should own any components that are currently being constructed.
 * null
 */

var ReactCurrentOwner = {
  /**
   * @internal
   * @type {ReactComponent}
   */
  current: null
};

module.exports = ReactCurrentOwner;

/**
 * Checks if 'value' is object-like. A value is object-like if it's not null and has a `typeof` result of 'object'.
 * @param {*} value The value to check.
 * @returns {boolean} Returns 'true' if value is object-like, else 'false'.
 */

function isObjectLike(value) {
  return value != null && typeof value == 'object';
}

module.exports = isObjectLike;

// shim for using process in browser

var process = module.exports = {};

function runTimeout(fun) {
    if (cachedSetTimeout === setTimeout) {
        //normal enviroments in sane situations
        return setTimeout(fun, 0);
    }
    // if setTimeout wasn't available but was latter defined
    if ((cachedSetTimeout === defaultSetTimout || !cachedSetTimeout) && setTimeout) {
        cachedSetTimeout = setTimeout;
        return setTimeout(fun, 0);
    }
    try {
        // when when somebody has screwed with setTimeout but no I.E. maddness
        return cachedSetTimeout(fun, 0);
    } catch(e){
        try {
            // When we are in I.E. but the script has been evaled so I.E. doesn't trust the global object when called
            return cachedSetTimeout.call(null, fun, 0);
        } catch(e){
            // same as above but when it's a version of I.E. that must have the global object for 'this', hopefully our context correct otherwise it will throw a global error
            return cachedSetTimeout.call(this, fun, 0);
        }
    }
}

function runClearTimeout(marker) {
    if (cachedClearTimeout === clearTimeout) {
        //normal enviroments in sane situations
        return clearTimeout(marker);
    }
    // if clearTimeout wasn't available but was latter defined
    if ((cachedClearTimeout === defaultClearTimeout || !cachedClearTimeout) && clearTimeout) {
        cachedClearTimeout = clearTimeout;
        return clearTimeout(marker);
    }
    try {
        // when when somebody has screwed with setTimeout but no I.E. maddness
        return cachedClearTimeout.call(fun, 0);
    } catch(e){
        // same as above but when it's a version of I.E. that must have the global object for 'this', hopefully our context correct otherwise it will throw a global error
        return cachedClearTimeout.call(this, fun, 0);
    }
}
```

---

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---
if (queue.length === 1 && !draining) {
  runTimeout(drainQueue);
}

if (queue.length === 1 && !draining) {
  runTimeout(drainQueue);
}

// v8 likes predictible

function Item(fun, array) {
  this.fun = fun;
  this.array = array;
}

Item.prototype.run = function () {
  this.array.forEach(function (item) {
    item.fun.apply(null, item.array);
  });
};

// v8 likes predictible

function Item(fun, array) {
  this.fun = fun;
  this.array = array;
}

Item.prototype.run = function () {
  this.array.forEach(function (item) {
    item.fun.apply(null, item.array);
  });
};

process.title = 'browser';
process.browser = true;
process.env = {};
process.argv = [];
process.version = ''; // empty string to avoid regexp issues
process.versions = {};

function noop() {}

process.on = noop;
process.addListener = noop;
process.once = noop;
process.off = noop;
process.removeListener = noop;
process.removeAllListeners = noop;
process.emit = noop;
process.prependListener = noop;
process.prependOnceListener = noop;
process.listeners = function (name) { return []; }

process.binding = function (name) {
  throw new Error('process.binding is not supported');
}

process.cwd = function () { return '/' };
process.chdir = function (dir) {
  throw new Error('process.chdir is not supported');
}

process.umask = function() { return 0; }

/**
 * Copyright (c) 2013-present, Facebook, Inc.
 *
 * This source code is licensed under the MIT license found in the LICENSE file in the root directory of this source tree.
 */

'use strict';

var _assign = require('object-assign');

var PooledClass = require('./PooledClass');

var emptyFunction = require('fbjs/lib/emptyFunction');
var warning = require('fbjs/lib/warning');

var didWarnForAddedNewProperty = false;
var isProxySupported = typeof Proxy === 'function';

var shouldBeReleasedProperties = ['dispatchConfig', '_targetInst', 'nativeEvent', 'isDefaultPrevented', 'isPropagationStopped', '_dispatchListeners', '_dispatchInstances'];

/**
 * @interface Event
 * @see http://www.w3.org/TR/DOM-Level-3-Events/
 */
var EventInterface = {
  type: null,
  target: null,
  // currentTarget is set when dispatching; no use in copying it here
  currentTarget: emptyFunction.thatReturnsNull,
  eventPhase: null,
  bubbles: null,
  cancelable: null,
  timeStamp: function (event) {
    return event.timeStamp || Date.now();
  },
  defaultPrevented: null,
  isTrusted: null
};

/**
 *
 * Synthetic events are dispatched by event plugins, typically in response to a top-level event delegation handler. These systems should generally use pooling to reduce the frequency of garbage collection. The system should check `isPersistent` to determine whether the event should be released into the pool after being dispatched. Users that need a persisted event should invoke `persist`.
 *
 * Synthetic events (and subclasses) implement the DOM Level 3 Events API by normalizing browser quirks. Subclasses do not necessarily have to implement all DOM interface; custom application-specific events can also subclass this.
 *
 * @param {object} dispatchConfig Configuration used to dispatch this event.
 * @param {*} targetInst Marker identifying the event target.
 * @param {object} nativeEvent Native browser event.
 * @param {DOMEventTarget} nativeEventTarget Target node.
 */
function SyntheticEvent(dispatchConfig, targetInst, nativeEvent, nativeEventTarget) {
  if (process.env.NODE_ENV !== 'production') {
    delete this.nativeEvent;
    delete this.preventDefault;
    delete this.stopPropagation;
  }

  this.dispatchConfig = dispatchConfig;
  this._targetInst = targetInst;
  this.nativeEvent = nativeEvent;

  var Interface = this.constructor.Interface;
  for (var propName in Interface) {
    if (!Interface.hasOwnProperty(propName)) {
      continue;
    }
    if (process.env.NODE_ENV !== 'production') {
      delete this[propName];
    }
    var normalize = Interface[propName];
    if (normalize) {
      this[propName] = normalize(nativeEvent);
    } else {
      this[propName] = nativeEvent[propName];
    }
  }

  var defaultPrevented = nativeEvent.defaultPrevented != null ? nativeEvent.defaultPrevented : nativeEvent.returnValue === false;
  if (defaultPrevented) {
    this.isDefaultPrevented = emptyFunction.thatReturnsTrue;
  } else {
    this.isDefaultPrevented = emptyFunction.thatReturnsFalse;
  }

  this.isPropagationStopped = emptyFunction.thatReturnsFalse;

  return this;
}
any references to cancelBubble throw "Member not found!". An typeof check of "unknown" circumvents
this issue (and is also in IE specific). event.cancelBubble = true
this.isPropagationStopped = emptyFunction.thatReturnsTrue
We release all dispatched `SyntheticEvent`'s after each event loop, adding them back into the pool. This allows a way to hold onto a reference that won't be added back into the pool.

```javascript
this.persist: function () { return false; } // typeof check of "unknown" circumvents this issue (and is also in IE specific).
this.cancelBubble = true;
```

```javascript
this.isPropagationStopped = emptyFunction.thatReturnsTrue;
```

```javascript
this.preventDefault = function () { for (var propName in Interface) {
```

```javascript
this.constructor.Interface;
```

```javascript
for (var i = 0; i < shouldBeReleasedProperties.length; i++) {
```

```javascript
delete this[shouldBeReleasedProperties[i]];
```

```javascript
if (process.env.NODE_ENV !== 'production') {
```

```javascript
Object.defineProperty(this, 'nativeEvent', getPooledWarningPropertyDefinition('nativeEvent', null));
```

```javascript
Object.defineProperty(this, 'preventDefault', emptyFunction);
```

```javascript
Object.defineProperty(this, 'stopPropagation', emptyFunction);
```

```javascript
var Super = this.constructor.Interface;
```

```javascript
for (var propName in Super.Interface) {
```

```javascript
process.env.NODE_ENV !== 'production' ?
```

```javascript
warning(warningCondition, "This synthetic event is reused for performance reasons. If you're seeing this, you're adding a new property in the synthetic event object. \"+ \"The property is never released. See \" + [https://fb.me/react-event-pooling for more information.']) : void 0;
```
fromJS, Set, Map, OrderedMap, List } from \`\`immutable\`\`unimport { paramToIdentifier } from \`\`\`/\`\`\`/utils\`\`\`unconst

DEFAULT_TAG = \`\`default\`\`unconst
OPERATION_METHODS = [\`\`get\`\`, \`\`put\`\`, \`\`post\`\`, \`\`delete\`\`, \`\`options\`\`, \`\`head\`\`, \`\`patch\`\`, \`\`trace\`\`]unconst
state = state => { return state || Map()

spec => spec.get("\`\`lastError\`\`")unexport const url = createSelector(un
state, \n spec => spec.get("\`\`url\`\`")unexport const specStr = createSelector(un
state, \n spec => spec.get("\`\`spec\`\`")unexport const specSource = createSelector(un
state, \n spec => spec.get("\`\`specSource\`\`")unexport const specResolved = createSelector(un
state, \n spec => spec.get("\`\`resolved\`\`")unexport const specResolvedSubtree = (state, path) => { return retu
tag, Map()) \n)\n\nexport const operationsWithTags = createSelector(
  operationsWithRootInherited, \n  tags, \n  (operations, tags) => {
    return operations.reduce((taggedMap, op) => {
      let tags = Set(op.getIn(['operation', 'tags'])).\n    if(tags.count() < 1) return taggedMap.update(DEFAULT_TAG, \n      List(), ar => ar.push(op)) \n    return taggedMap \n  }, \n  tags.reduce((taggedMap, tag) => {
    return taggedMap.update(tag.getIn(['name'])), List() \n  }) \n}).\n\nexport const operationsWithTags(state) = createSelector(
  state, \n  state => state.getIn(['responses', Map()]), \n  (state, state) => state.getIn(['requests', Map()]) \n).\n\nexport const mutatedRequests(state) = createSelector(
  state, \n  state => state.getIn(['mutatedRequests', Map()]) \n).\n\nexport const responseFor = (state, path, method) => {
  return responses(state).getIn([path, method], null) \n}.\n\nexport const requestFor = (state, path, method) => {
  return requests(state).getIn([path, method], null) \n}.\n\nexport const mutatedRequestFor = (state, path, method) => {
  return mutatedRequests(state).getIn([path, method], null) \n}.\n\nexport const allowTryItOutFor = () => {
  return true \n}.\n\nexport const parameterWithMetaByIdentity = (state, pathMethod, \n  param) => {
  const opParams = specJsonWithResolvedSubtrees(state).getIn([pathMethod, \n    parameters[]], OrderedMap()) \n  const currentParam = opParams.find(param => param.getIn(['in'], param.get('name')), OrderedMap()) \n  return parameterWithMetaByIdentity(state, pathMethod, currentParam) \n}.\n\nexport const parameterInclusionSettingFor = (state, pathMethod, \n  paramName, paramIn) => {
  const paramKey = `${paramIn}.${paramName}` \n  return state.getIn(["meta", "paths", pathMethod, \n    parameter_inclusions\n  , paramKey], false) \n}.\n\nexport const parameterWithMeta = (state, pathMethod, \n  paramName, paramIn) => {
  const opParams = specJsonWithResolvedSubtrees(state).getIn([pathMethod, \n    parameters\n  , paramIn]) \n  const currentParam = state.getIn(["meta", "paths", pathMethod, \n    parameters\n  , paramIn]) \n  const opParams = state.getIn(["meta", "paths", pathMethod, \n    parameters\n  , paramIn]) \n  return parameterWithMetaByIdentity(state, pathMethod, currentParam) \n}.\n\nexport const hasHost = createSelector(
  spec, \n  spec => {
    const host = spec.getIn(['host']) \n    return typeof host === 'string' \n}.\n\nexport const parameterValues = (state, pathMethod, isXml) => {
  const paramValues = operationWithMeta(state, pathMethod).get([parameters\n  , List()]) \n  return paramValues.reduce((hash, p) => {
    return hash.set(paramToIdentifier(p, allowHashes: false), \n      value) \n}.\n\nexport function getParameter(state, pathMethod, name, inType) { \n  pathMethod = pathMethod || [] \n  let params = state.getIn(["paths", pathMethod, \n    parameters\n  , spec, spec]) \n  let host = spec.getIn(['host']) \n  return typeof host ++ \n\n
return parameters.some( p => Map.isMap(p) && p.get("in") === inValue )
} ||

// True if any parameter includes 'type': '?'
export function parametersIncludeType(parameters, typeValue="") {
  if(List.isList(parameters)) {
    return parameters.some( p => Map.isMap(p) && p.get("type") === typeValue )
  }
}

// True if any parameter includes `type: ?`
export function parametersIncludeType(parameters, typeValue="") {
  if(List.isList(parameters)) {
    return parameters.some( p => Map.isMap(p) && p.get("type") === typeValue )
  }
}

// Get the currently produced consumes value for an operation
export function currentProducesFor(state, pathMethod) {
  pathMethod = pathMethod || []

  const operation = specJsonWithResolvedSubtrees(state).getIn(["paths", ...pathMethod], null)
  if(operation === null) {
    return
  }

  const globalProduces = specJsonWithResolvedSubtrees(state).getIn(["produces"], null)
  const pathItemProduces = operation.getIn(["produces"], null)
  const pathMethodProduces = specJsonWithResolvedSubtrees(state).getIn(["paths", ...pathMethod], null)
  const producesValue = currentProducesFor(state, pathMethod)

  return producesValue || pathItemProduces || globalProduces
}

export const operationScheme = ( state, path, method ) => {
  let url = state.get("url")
  let matchResult = url.match(/^([a-z][a-z0-9+\-\.]*):/)

  let urlScheme = Array.isArray(matchResult) ? matchResult[1] : null
  let scheme = state.getIn(["scheme", path, method])

  return state.getIn(["scheme", "_defaultScheme"], scheme) || urlScheme || ""
}

export const canExecuteScheme = ( state, path, method ) => {
  return ["http", "https"].indexOf(operationScheme(state, path, method)) > -1
}

export const validateBeforeExecute = ( state, pathMethod ) => {
  pathMethod = pathMethod || []

  let paramValues = state.getIn(["meta", "paths", ...pathMethod, "parameters"], fromJS([]))

  return paramValues.forEach((p) => {
    let errors = p.get("errors")
    if (errors && errors.count() > 0) {
      return false
    }
  })

  return true
}

export const getOAS3RequiredRequestBodyContentType = (state, pathMethod) => {
  let requiredObj = {
    requestBody: false,
    requestContentType: {}
  }

  let requestBody = state.getIn(["resolvedSubtrees", "\paths\", ...pathMethod], fromJS({}))

  if (requestBody.size < 1) {
    return requiredObj
  }

  if (requestBody.get(["required"])) {
    requiredObj.requestBody = requestBody.get(["required"])
  }

  requestBody.get(["content"]).entrySeq().forEach((contentType) => { // e.g application/json
    const key = contentType[0]
    requiredObj.requestContentType[key] = contentType[1].getIn(["schema", "required"], toJS({}))
  })

  return requiredObj
}

function returnSelfOrNewMap(obj) {
  // returns obj if obj is an Immutable map, else returns a new Map
  return obj
}

module.exports = {
  ...
asyncToGenerator(fn) {
  return function () {
    var self = this,
        args = arguments;
  return new
  _Promise(function (resolve, reject) {
    var gen = fn.apply(self, args);
    var _next = function _next(value) {
      asyncGeneratorStep(gen, resolve, reject, _next, _throw, "next", value);
    }
    var _throw = function _throw(err) {
      asyncGeneratorStep(gen, resolve, reject, _next, _throw, "throw", err);
    }
    _next(undefined);
  });
}

module.exports = _asyncToGenerator;

var baseGetTag = require('./_baseGetTag'),
    isObject = require('./isObject');

/**
 * Checks if `value` is classified as a `Function` object.
 *
 * @static
 * @memberOf _
 * @since 0.1.0
 * @category Lang
 * @param {*} value The value to check.
 * @returns {boolean} Returns `true` if `value` is a
 * function, else `false`.
 * @example
 * _.isFunction(_);
 * // => true
 * _.isFunction(/abc/);
 * // => false
 */
function isFunction(value) {
  if (!isObject(value)) {
    return false;
  }
  var tag = baseGetTag(value);
  return tag == funcTag || tag == genTag || tag == asyncTag ||
  tag == proxyTag;
}

module.exports = isFunction;

var baseGet = require('./_baseGet');

/**
 * Gets the
 * value at `path` of `object`. If the resolved value is
 * `undefined`, the `defaultValue` is returned in its place.
 *
 * @static
 * @memberOf _
 * @since 3.7.0
 * @category Object
 * @param {Object} object The object to
 * query.
 * @param {Array|string} path The path of the property to get.
 * @param {*} [defaultValue] The value
 * returned for `undefined` resolved values.
 * @returns {*} Returns the resolved value.
 * @example
 * var object = { 'a': [{ 'b': { 'c': 3 } }] };
 * _.get(object, 'a[0].b.c');
 * // => 3
 * _.get(object, ['a', '0', 'b', 'c']);
 * // => 3
 * _.get(object, 'a.b.c', 'default');
 * // => default
 */
function get(object, path, defaultValue) {
  var result = object == null ? undefined : baseGet(object, path);
  return result === undefined ? defaultValue : result;
}

module.exports = get;

import parseUrl from "url-parse"
import win from "core/window"
import { btoa, buildFormData } from "core/utils"

export const SHOW_AUTH_POPUP = "show_popup"
export const AUTHORIZE = "authorize"
export const LOGOUT = "logout"
export const PRE_AUTHORIZE_OAUTH2 = "pre_authorize_oauth2"
export const AUTHORIZE_OAUTH2 = "authorize_oauth2"
export const VALIDATE = "validate"
export const CONFIGURE_AUTH = "configure_auth"

const scopeSeparator = " ",

export function showDefinitions(payload) {
  return {
    type: SHOW_AUTH_POPUP,
    payload: payload
  }
}

export function authorize(payload) {
  return {
    type: AUTHORIZE,
    payload: payload
  }
}

export function logout(payload) {
  return {
    type: LOGOUT,
    payload: payload
  }
}

export const preAuthorizeImplicit = (payload) => ( { authActions,
  errActions } ) => {
  let { auth , token, isValid } = payload
  let { schema, name } = auth
  let flow = schema.get("flow")

  // remove oauth2 property from window after redirect from authentication
  delete win.swaggerUIRedirectOauth2

  if ( flow !== null && !isValid ) {
    errActions.newAuthErr( {
      authId: name,
      source: "auth",
      level: "warning",
      message: "Authorization may be unsafe, passed state was changed in server Passed state wasn't returned from auth server"
    })
  }

  if ( token.err ) {
    errActions.newAuthErr({
      authId: name,
      source: "auth",
      level: "error",
      message: JSON.stringify(token)
    })
    return
  }

  authActions.authorizeOauth2({ auth, token })
}

export const authorizePassword = ( auth ) => ( { authActions } ) => {
  let { schema, name, username, password, passwordType, clientId, clientSecret } = auth
  let form = {
    grant_type: "password",
    scope: auth.scopes.join(scopeSeparator),
    username,
    password
  }
  let query = {}
  let headers = {}

  switch (passwordType) {
    case "request-body":
      setClientIdAndSecret(form, clientId, clientSecret)
      break

    case "basic":
      headers.Authorization = "Basic " + btoa(clientId + ":" + clientSecret)
      break
    default:
      console.warn("Warning: invalid passwordType $passwordType was passed, not including client id and secret \n"
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"}
authActions } ) => {
  let { schema, scopes, name, clientId, clientSecret } = auth
  let headers = {
    Authorization: "Basic " + btoa(clientId + "\:" + clientSecret)
  }
  return authActions.authorizeRequest({
    body: buildFormData(form),
    name, url: schema.get("tokenUrl"), auth, headers })
}

export const authorizeAccessCodeWithFormParams = ( { auth, redirectUrl } ) => {
  let { schema, name, clientId, clientSecret, codeVerifier } = auth
  let form = {
    grant_type: "authorization_code",
    code: auth.code,
    clientId: clientId,
    clientSecret: clientSecret,
    redirect_uri: redirectUrl,
    code_verifier: codeVerifier
  }
  return authActions.authorizeRequest({
    body: buildFormData(form),
    name, url: schema.get("tokenUrl"), auth })
}

export const authorizeAccessCodeWithBasicAuthentication = ( { auth, redirectUrl } ) => {
  let { schema, name, clientId, clientSecret } = auth
  let headers = {
    Authorization: "Basic " + btoa(clientId + "\:" + clientSecret)
  }
  let form = {
    grant_type: "authorization_code",
    clientId: clientId + "\:" + clientSecret
  }
  return authActions.authorizeRequest({
    body: buildFormData(form),
    name, url: schema.get("tokenUrl"), auth })
}

export const authorizeRequest = ( data ) => ( { fn, getConfigs, authActions, errActions, oas3Selectors, specSelectors, authSelectors } ) => {
  let { body, query={}, headers={}, name, url, auth } = data
  let additionalQueryStringParams = authSelectors.getConfigs() || []
  let parsedUrl
  if (specSelectors.isOAS3()) {
    const server = oas3Selectors.selectedServer()
    parsedUrl = parseUrl(url, oas3Selectors.serverEffectiveValue({ server }), true)
  } else {
    parsedUrl = parseUrl(url, specSelectors.url(), true)
  }
  if(typeof additionalQueryStringParams === "object") {
    parsedUrl.query = Object.assign({}, parsedUrl.query, additionalQueryStringParams)
  }
  const fetchUrl = parsedUrl.toString()
  let _headers = Object.assign({
    "Accept": "application/json, text/plain, */*",
    "Content-Type": "application/x-www-form-urlencoded",
    "X-Requested-With": "XMLHttpRequest"
  }, headers)
  fn.fetch({
    url: fetchUrl,
    method: "post",
    headers: _headers,
    query: query,
    body: body
  }).then(function (response) {
    let token = JSON.parse(response.data)
    if (response.ok) {
      authActions.authorizeOauth2({ auth, token })
    } else {
      errActions.newAuthErr({
        authId: name,
        level: "error",
        source: "auth",
        message: response.statusText
      })
    }
  }).catch(e => {
    let err = new Error(e)
    let message = err.message
    if (e.response && e.response.data) {
      const jsonResponse = typeof e.response.data === "string" ? JSON.parse(e.response.data) : e.response.data
      if (jsonResponse.error)
        message += `, error: ${jsonResponse.error}`
      if (jsonResponse.error_description)
        message += `, description: ${jsonResponse.error_description}`
    }
    errActions.newAuthErr({
      authId: name,
      level: "error",
      source: "auth",
      message: message
    })
  })
}

export function configureAuth(payload) {
  return {
    type: CONFIGURE_AUTH,
    payload: payload
  }
}

// 7.2.1 RequireObjectCoercible(argument)
module.exports = function (it) {
  if (it === undefined) throw TypeError("Can't call method on  " + it);
  return it;
};

module.exports = function (exec) {
  try {
    return !!exec();
  } catch (e) {
    return true;
  }
};
TypeError(fn + " is not a function");
	return fn;
};

/**
 * Checks if `value` is object-like. A value is object-like if it's not `null` and has a `typeof` result of `"object"
 * @static
 * @memberOf _
 * @since 4.0.0
 * @category Lang
 * @param {*} value The value to check.
 * @returns {boolean} Returns `true` if `value` is object-like, else `false`.
 * @example
 * _.isObjectLike({});
 * // => true
 * _.isObjectLike([1, 2, 3]);
 * // => false
 * function isObjectLike(value) {
 *   return value != null && typeof value == 'object';
 * }
 */

module.exports = isObjectLike;

var baseToString = require('./_baseToString');

/**
 * Converts `value` to a string. An empty
 * string is returned for `null` and `undefined` values. The sign of `-0` is preserved.
 * @static
 * @memberOf _
 * @since 4.0.0
 * @category Lang
 * @param {*} value The value to convert.
 * @returns {string} Returns the converted string.
 * @example
 * _.toString(null);
 * // => ''
 * _.toString(-0);
 * // => '-0'
 * _.toString([1, 2, 3]);
 * // => '1,2,3'
 */
function toString(value) {
  return value == null ? '' : baseToString(value);
}

module.exports = toString;

module.exports = require("core-js/library/fn/symbol");

'use strict';

var yaml = require('./lib/js-yaml.js');

module.exports = yaml;

import { normalizeArray } from 'core/utils

export const UPDATE_LAYOUT = "layout_update_layout"
export const UPDATE_FILTER = "layout_update_filter"
export const UPDATE_MODE = "layout_update_mode"
export const SHOW = "layout_show"

// export const ONLY_SHOW = "layout_only_show"

export function updateLayout(layout) {
  return {
    type: UPDATE_LAYOUT,
    payload: layout
  }
}

export function updateFilter(filter) {
  return {
    type: UPDATE_FILTER,
    payload: filter
  }
}

export function show(thing, shown=true) {
  thing = normalizeArray(thing)
  return {
    type: SHOW,
    payload: {thing, shown}
  }
}

// Simple string key-

export function changeMode(thing, mode="") {
  thing = normalizeArray(thing)
  return {
    type: UPDATE_MODE,
    payload: {thing, mode}
  }
}
]{0,63})(.*)$/,\n // protocols that can allow \"unsafe\" and \"unwise\" chars.\n unsafeProtocol = {\n
'javascript': true,\n
'javascript:': true\n },\n // protocols that never have a hostname.\n hostlessProtocol = {\n
'javascript': true,\n
'javascript:': true\n },\n // protocols that always contain a // bit.\n slashedProtocol = {\n
'http': true,\n
'https': true,\n
'ftp': true,\n
'gopher': true,\n
'file': true,\n
'http:': true,\n
'https:':
true,\n 'ftp:': true,\n
'gopher:': true,\n
'file:': true\n },\n querystring = require('querystring');\n\nfunction
urlParse(url, parseQueryString, slashesDenoteHost) {\n if (url && util.isObject(url) && url instanceof Url) return
url;\n\n var u = new Url;\n u.parse(url, parseQueryString, slashesDenoteHost);\n return
u;\n}\n\nUrl.prototype.parse = function(url, parseQueryString, slashesDenoteHost) {\n if (!util.isString(url)) {\n
throw new TypeError(\"Parameter 'url' must be a string, not \" + typeof url);\n }\n\n // Copy chrome, IE, opera
backslash-handling behavior.\n // Back slashes before the query string get converted to forward slashes\n // See:
https://code.google.com/p/chromium/issues/detail?id=25916\n var queryIndex = url.indexOf('?'),\n
splitter =\n
(queryIndex !== -1 && queryIndex < url.indexOf('#')) ? '?' : '#',\n
uSplit = url.split(splitter),\n
slashRegex =
/\\\\/g;\n uSplit[0] = uSplit[0].replace(slashRegex, '/');\n url = uSplit.join(splitter);\n\n var rest = url;\n\n // trim
before proceeding.\n // This is to support parse stuff like \" http://foo.com \\n\"\n rest = rest.trim();\n\n if
(!slashesDenoteHost && url.split('#').length === 1) {\n // Try fast path regexp\n var simplePath =
simplePathPattern.exec(rest);\n if (simplePath) {\n
this.path = rest;\n
this.href = rest;\n
this.pathname =
simplePath[1];\n
if (simplePath[2]) {\n
this.search = simplePath[2];\n
if (parseQueryString) {\n
this.query = querystring.parse(this.search.substr(1));\n
} else {\n
this.query = this.search.substr(1);\n
}\n
} else if (parseQueryString) {\n
this.search = '';\n
this.query = {};\n
}\n
return this;\n }\n
}\n\n var proto = protocolPattern.exec(rest);\n if (proto) {\n proto = proto[0];\n var lowerProto =
proto.toLowerCase();\n this.protocol = lowerProto;\n rest = rest.substr(proto.length);\n }\n\n // figure out if it's
got a host\n // user@server is *always* interpreted as a hostname, and url\n // resolution will treat //foo/bar as
host=foo,path=bar because that's\n // how the browser resolves relative URLs.\n if (slashesDenoteHost || proto ||
rest.match(/^\\/\\/[^@\\/]+@[^@\\/]+/)) {\n var slashes = rest.substr(0, 2) === '//';\n if (slashes && !(proto &&
hostlessProtocol[proto])) {\n
rest = rest.substr(2);\n
this.slashes = true;\n }\n }\n\n if
(!hostlessProtocol[proto] &&\n
(slashes || (proto && !slashedProtocol[proto]))) {\n\n // there's a hostname.\n
// the first instance of /, ?, ;, or # ends the host.\n //\n // If there is an @ in the hostname, then non-host chars
*are* allowed\n // to the left of the last @ sign, unless some host-ending character\n // comes *before* the @sign.\n // URLs are obnoxious.\n //\n // ex:\n // http://a@b@c/ => user:a@b host:c\n // http://a@b?@c =>
user:a host:c path:/?@c\n\n // v0.12 TODO(isaacs): This is not quite how Chrome does things.\n // Review our
test case against browsers more comprehensively.\n\n // find the first instance of any hostEndingChars\n var
hostEnd = -1;\n for (var i = 0; i < hostEndingChars.length; i++) {\n
var hec =
rest.indexOf(hostEndingChars[i]);\n
if (hec !== -1 && (hostEnd === -1 || hec < hostEnd))\n
hostEnd =
hec;\n }\n\n // at this point, either we have an explicit point where the\n // auth portion cannot go past, or the
last @ char is the decider.\n var auth, atSign;\n if (hostEnd === -1) {\n
// atSign can be anywhere.\n
atSign
= rest.lastIndexOf('@');\n } else {\n
// atSign must be in auth portion.\n
// http://a@b/c@d => host:b auth:a
path:/c@d\n
atSign = rest.lastIndexOf('@', hostEnd);\n }\n\n // Now we have a portion which is definitely the
auth.\n // Pull that off.\n if (atSign !== -1) {\n
auth = rest.slice(0, atSign);\n
rest = rest.slice(atSign + 1);\n
this.auth = decodeURIComponent(auth);\n }\n\n // the host is the remaining to the left of the first non-host
char\n hostEnd = -1;\n for (var i = 0; i < nonHostChars.length; i++) {\n
var hec =
rest.indexOf(nonHostChars[i]);\n
if (hec !== -1 && (hostEnd === -1 || hec < hostEnd))\n
hostEnd = hec;\n
}\n // if we still have not hit it, then the entire thing is a host.\n if (hostEnd === -1)\n
hostEnd =
rest.length;\n\n this.host = rest.slice(0, hostEnd);\n rest = rest.slice(hostEnd);\n\n // pull out port.\n
this.parseHost();\n\n // we've indicated that there is a hostname,\n // so even if it's empty, it has to be present.\n
this.hostname = this.hostname || '';\n\n // if hostname begins with [ and ends with ]\n // assume that it's an IPv6
address.\n var ipv6Hostname = this.hostname[0] === '[' &&\n
this.hostname[this.hostname.length - 1] ===
']';\n\n // validate a little.\n if (!ipv6Hostname) {\n
var hostparts = this.hostname.split(/\\./);\n
for (var i = 0,
l = hostparts.length; i < l; i++) {\n
var part = hostparts[i];\n
if (!part) continue;\n
if

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```javascript
(!source) return relative;
return urlParse(source, false, true).resolveObject(relative);

var rel = new URL();
rel.parse(relative, false, true);
relative = rel;
var result = new URL();
var tkeys = Object.keys(this);
for (var tk = 0; tk < tkeys.length; tk++) {
    var tkey = tkeys[tk];
    result[tkey] = this[tkey];
}

// hash is always overridden, no matter what.
// even href=\\"\\" will remove it.
result.hash = relative.hash;
if (relative.href !== '')
result.href = relative.href;
} else
result.href = relative.href;
}

urlParse.appendTrailingSlash = function(protoc...
return max(0, toInteger(value));

/**
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 */

'use strict';

var _prodInvariant = require('./reactProdInvariant');

var invariant = require('fbjs/lib/invariant');

/**
 * Static poolers. Several custom versions for each potential number of arguments. A completely generic pooler is easy to implement, but would require accessing the `arguments` object. In each of these, this refers to the Class instance, not an object. If any others are needed, simply add them here, or in their own files.
 */

var oneArgumentPooler = function (copyFieldsFrom) {
  var Klass = this;
  if (Klass.instancePool.length) {
    var instance = Klass.instancePool.pop();
    Klass.call(instance, copyFieldsFrom);
    return instance;
  } else {
    return new Klass(copyFieldsFrom);
  }
}

var twoArgumentPooler = function (a1, a2) {
  var Klass = this;
  if (Klass.instancePool.length) {
    var instance = Klass.instancePool.pop();
    Klass.call(instance, a1, a2);
    return instance;
  } else {
    return new Klass(a1, a2);
  }
}

var threeArgumentPooler = function (a1, a2, a3) {
  var Klass = this;
  if (Klass.instancePool.length) {
    var instance = Klass.instancePool.pop();
    Klass.call(instance, a1, a2, a3);
    return instance;
  } else {
    return new Klass(a1, a2, a3);
  }
}

var fourArgumentPooler = function (a1, a2, a3, a4) {
  var Klass = this;
  if (Klass.instancePool.length) {
    var instance = Klass.instancePool.pop();
    Klass.call(instance, a1, a2, a3, a4);
    return instance;
  } else {
    return new Klass(a1, a2, a3, a4);
  }
}

var standardReleaser = function (instance) {
  var Klass = this;
  if (!(instance instanceof Klass)) {
    process.env.NODE_ENV !== 'production' ? invariant(false, 'Trying to release an instance into a pool of a different type.') : _prodInvariant('25');
    instance.destructor();
  }
  if (Klass.instancePool.length < Klass.poolSize) {
    Klass.instancePool.push(instance);
  }
}

var DEFAULT_POOL_SIZE = 10;
var DEFAULT_POOLER = oneArgumentPooler;

/**
 * Augments CopyConstructor to be a poolable class, augmenting only the class itself (statically) not adding any prototypical fields. Any CopyConstructor you give this may have a `poolSize` property, and will look for an prototype `destructor` on instances.
 */

var addPoolingTo = function (CopyConstructor, pooler) {
  var NewKlass = CopyConstructor;
  NewKlass.instancePool = [];
  NewKlass.getPooled = pooler || DEFAULT_POOLER;
  if (!NewKlass.poolSize) {
    NewKlass.poolSize = DEFAULT_POOL_SIZE;
  }
  NewKlass.release = standardReleaser;
  return NewKlass;
}

var PooledClass = {
  addPoolingTo: addPoolingTo,
  oneArgumentPooler: oneArgumentPooler,
  twoArgumentPooler: twoArgumentPooler,
  threeArgumentPooler: threeArgumentPooler,
  fourArgumentPooler: fourArgumentPooler
};

module.exports = PooledClass;

var baseIsNative = require('./_baseIsNative'),
    getValue = require('./_getValue');

/**
 * Gets the native function at `key` of `object`.
 *
 * @private
 * @param {Object} object The object to query.
 * @param {string} key The key of the method to get.
 * @returns {*} Returns the function if it's native, else `undefined`.
 */

function getNative(object, key) {
  var value = getValue(object, key);
  return baseIsNative(value) ? value : undefined;
}

module.exports = getNative;

/**
 * Performs a `SameValueZero` comparison between two values to determine if they are equivalent. 
 * The value to compare.
 * @param {*} value The value to compare.
 * @returns {boolean} Returns `true` if the values are equivalent, else `false`.
 */

function eq(value, other) {
  return value === other || (value !== value && other !== other);
}

module.exports = eq;

module.exports = require("core-js/library/fn/object/define-properties");

```javascript
var extractProtocol = function(address) {
  address = trimLeft(address);
  var match = protocolre.exec(address);

  return {
    protocol: match[1].toLowerCase(),
    slashes: slashes.test(loc.href),
    path: match[2].split('/').slice(0, -1).concat(relative.split('/'))
  , i = path.length
  , last = path[i - 1]
  , unshift = false
  , up = 0

  while (i--) {
    if (path[i] === '..') {
      path.splice(i, 1)
    } else if (path[i] === '.') {
      path.splice(i, 1)
    } else if (up && path[i] !== '') {
      path[i] = path[i].toLowerCase()
    } else {
      unshift = true
    }
  }

  return {
    protocol: match[1].toLowerCase(),
    slashes: slashes.test(loc.href),
    path: path.join('/')
  }
};

var trimLeft = function(str) {
  return (str ? str : '').toString().replace(left, '');
};

var protocol = function(address) {
  address = trimLeft(address);
  var match = protocolre.exec(address);

  return {
    protocol: match[1].toLowerCase(),
    slashes: slashes.test(loc.href),
    path: match[2].split('/').slice(0, -1).concat(relative.split('/'))
  , i = path.length
  , last = path[i - 1]
  , unshift = false
  , up = 0

  while (i--) {
    if (path[i] === '..') {
      path.splice(i, 1)
    } else if (path[i] === '.') {
      path.splice(i, 1)
    } else if (up && path[i] !== '') {
      path[i] = path[i].toLowerCase()
    } else {
      unshift = true
    }
  }

  return {
    protocol: match[1].toLowerCase(),
    slashes: slashes.test(loc.href),
    path: path.join('/')
  }
};
```

ReactDOMFactories[factory].apply(ReactDOMFactories, arguments); /* This source code is licensed under the MIT license found in the LICENSE file in the root directory of this source tree. */

ReactDOMFactories[factory].apply(ReactDOMFactories, arguments);

module.exports = React;

/**
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 * LICENSE file in the root directory of this source tree.
 *
 */

'use strict';

var _assign = require('object-assign');

var ReactCurrentOwner = require('./ReactCurrentOwner');

var warning = require('fbjs/lib/warning');
var canDefineProperty = require('./canDefineProperty');
var hasOwnProperty = Object.prototype.hasOwnProperty;

var REACT_ELEMENT_TYPE = require('./ReactElementSymbol');

var RESERVED_PROPS = {
  key: true,
  ref: true,
  __self: true,
  __source: true
};

var specialPropKeyWarningShown, specialPropRefWarningShown;

function hasValidRef(config) {
  if (process.env.NODE_ENV !== 'production') {
    if (hasOwnProperty.call(config, 'ref')) {
      var getter = Object.getOwnPropertyDescriptor(config, 'ref').get;
      if (getter && getter.isReactWarning) {
        return false;
      }
    }
  }
  return config.ref !== undefined;
}

function hasValidKey(config) {
  if (process.env.NODE_ENV !== 'production') {
    if (hasOwnProperty.call(config, 'key')) {
      var getter = Object.getOwnPropertyDescriptor(config, 'key').get;
      if (getter && getter.isReactWarning) {
        return false;
      }
    }
  }
  return config.key !== undefined;
}

function defineKeyPropWarningGetter(props, displayName) {
  var warnAboutAccessingKey = function () {
    if (!specialPropKeyWarningShown) {
      process.env.NODE_ENV !== 'production' ? warning(false, '%s: `key` is not a prop. Trying to access it will result in `undefined` being returned. If you need to access the same `value` within the child component, you should pass it as a different `prop`. (https://fb.me/react-special-props)', displayName) : void 0;
      specialPropKeyWarningShown = true;
    }
  };
  warnAboutAccessingKey.isReactWarning = true;
  Object.defineProperty(props, 'key', {
    get: warnAboutAccessingKey,
    configurable: true
  });
}

function defineRefPropWarningGetter(props, displayName) {
  var warnAboutAccessingRef = function () {
    if (!specialPropRefWarningShown) {
      specialPropRefWarningShown = true;
      process.env.NODE_ENV !== 'production' ? warning(false, '%s: `ref` is not a prop. Trying to access it will result in `undefined` being returned. If you need to access the same `value` within the child component, you should pass it as a different `prop`. (https://fb.me/react-special-props)', displayName) : void 0;
      specialPropRefWarningShown = true;
    }
  };
  warnAboutAccessingRef.isReactWarning = true;
  Object.defineProperty(props, 'ref', {
    get: warnAboutAccessingRef,
    configurable: true
  });
}

/**
 * Factory method to create a new React element. This no longer adheres to
 * the class pattern, so do not use new to call it. Instead test $typeof field
 * against Symbol.for(react.element) to check if something is a React Element.
 *
 * @param {*} type
 * @param {*} key
 * @param {string|object} ref
 * @param {*} self A *temporary* helper to detect places where `this` is
 * different from the `owner` when React.createElement is called, so that we
 * can warn if `this` is not the same as the `owner`.
 * @param {string} source An annotation object (added by a transpiler or otherwise)
 * indicating filename, line number, and/or other information.
 * @param {*} owner
 * @param {*} props
 * @internal
 */
var ReactElement = function (type, key, ref, self, source, owner, props) {
  var element = {
    $$typeof: REACT_ELEMENT_TYPE,
    type: type,
    key: key,
    ref: ref,
    props: props,
    _owner: owner
  };

  if (process.env.NODE_ENV !== 'production') {
    // The validation flag is currently mutable. We put it on only an external backing store so that we can freeze the whole object later. This can be replaced with a WeakMap once they are implemented
    // commonly used development environments.
    element._store = {};
    if (process.env.NODE_ENV !== 'production') {
      // To make comparing ReactElements easier for testing purposes, we make them non-enumerable (where possible, which shouldn't include every environment we run tests in), so the test framework ignores it.
      if (canDefineProperty) {
        Object.defineProperty(element._store, 'validated', {
          configurable: false,
          enumerable: false,
          writable: true,
          value: false
        });
      }
      Object.defineProperty(element, '_self', {
        configurable: false,
        enumerable: false,
        writable: false,
        value: self
      });
      // Two elements created in two different places should be considered equal for testing purposes and therefore we hide it from enumeration.
      Object.defineProperty(element, '_source', {
        configurable: false,
        enumerable: false,
        writable: false,
        value: source
      });
    }
  }

  return element;
}
configurable: false,
  enumerable: false,
  writable: false,
  value: source
})
} else {
  element._store.validated = false;
  element._self = self;
  element._source = source;
}

if (Object.freeze) {
  Object.freeze(element.props);
  Object.freeze(element);
}

return element;
}

/**
 * Create and return a new ReactElement of the given type.
 * See
https://facebook.github.io/react/docs/top-level-api.html#react.createrelement
 */
ReactElement.createElement = function (type, config, children) {
  var propName;

  // Reserved names are extracted
  var props = {};
  var key = null;
  var ref = null;
  var self = null;
  var source = null;
  // Remaining properties are added to a new props object
  if (propName in config) {
    // Children can be more than one argument, and those are transferred onto
    // the newly allocated props object.
    var childrenLength = arguments.length - 2;
    if (childrenLength == 1) {
      props.children = children;
    } else if (childrenLength > 1) {
      var childArray = Array(childrenLength);
      for (var i = 0; i < childrenLength; i++) {
        childArray[i] = arguments[i + 2];
      }
      props.children = childArray;
    }
  }

  // Resolve default props
  if (type && type.defaultProps) {
    var defaultProps = type.defaultProps;
    for (propName in defaultProps) {
      if (props[propName] === undefined) {
        props[propName] = defaultProps[propName];
      }
    }
  }
  if (process.env.NODE_ENV !== 'production') {
    if (key || ref) {
      if (typeof props.$$typeof === 'undefined' || props.$$typeof !== REACT_ELEMENT_TYPE) {
        var displayName = typeof type === 'function' ? type.displayName || type.name || 'Unknown';
        if (key) {
          defineKeyPropWarningGetter(props, displayName);
        }
        if (ref) {
          defineRefPropWarningGetter(props, displayName);
        }
      }
    }
  }
  return ReactElement(type, key, ref, self, source, ReactCurrentOwner.current, props);
};

/**
 * Clone and return a new ReactElement using element as the starting point.
 * See
https://facebook.github.io/react/docs/top-level-api.html#react.cloneelement
 */
ReactElement.cloneElement = function (element, config, children) {
  var propName;

  // Original props are copied
  var props = _assign({}, element.props);
  var key = element.key;
  var ref = element.ref;
  var self = element._self;
  var source = element._source;
  // Remaining properties override existing props
  if (propName in config) {
    // Children can be more than one argument, and those are transferred onto
    // the newly allocated props object.
    var childrenLength =
arguments.length - 2; \n if (childrenLength === 1) { \n  props.children = children; \n } else if (childrenLength > 1) { \n  var childArray = Array(childrenLength); \n for (var i = 0; i < childrenLength; i++) { \n    childArray[i] = arguments[i + 2]; \n  } \n  props.children = childArray; \n } \n return ReactElement(element.type, key, ref, self, source, owner, props); \n } \n
/** \n * Verifies the object is a ReactElement. \n * \n * @param {object} object \n * @return {boolean} True if `object` is a \n * ReactElement. \n * @final \n */ \nReactElement.isValidElement = function (object) { \n  return typeof object === 'object' && object !== null && object.$$typeof === \n  REACT_ELEMENT_TYPE; \n}; \n
module.exports = ReactElement;
index++) {\n    result = entries ? f(anObject(step = iterable[index])[0], step[1]) : f(iterable[index]);\n    if (result === BREAK || result === RETURN) return result;\n  } else for (iterator = iterFn.call(iterable); !(step = iterator.next()).done;) {\n    result = call(iterator, f, step.value, entries);\n    if (result === BREAK || result === RETURN) return result;\n  }\n};
exports.BREAK = BREAK;
exports.RETURN = RETURN;\n";"use strict';\n

function isNothing(subject) {\n  return (typeof subject === 'undefined') || (subject === null);\n}


function isObject(subject) {\n  return (typeof subject === 'object') && (subject !== null);\n}


function toArray(sequence) {\n  if (Array.isArray(sequence)) return sequence;\n  else if (isNothing(sequence)) return [];\n
  return [ sequence ];\n}


function extend(target, source) {\n  var index, length, key, sourceKeys;\n  if (source) {\n    sourceKeys = Object.keys(source);\n    for (index = 0, length = sourceKeys.length; index < length; index += 1) {\n      key = sourceKeys[index];\n      target[key] = source[key];\n    }
  }

  return target;\n}


function repeat(string, count) {\n  var result = '', cycle;\n  for (cycle = 0; cycle < count; cycle += 1) {\n    result += string;\n  }
  return result;\n}


function isNegativeZero(number) {\n  return (number === 0) && (Number.NEGATIVE_INFINITY === 1 / number);\n}


module.exports.isNothing = isNothing;\nmodule.exports.isObject = isObject;\nmodule.exports.toArray = toArray;\nmodule.exports.repeat = repeat;\nmodule.exports.isNegativeZero = isNegativeZero;\nmodule.exports.extend = extend;\n";"use strict';\n
/*eslint-disable max-len*/\n
var common = require('./common');\nvar YAMLException = require('./exception');\nvar Type = require('./type');\n

function compileList(schema, name, result) {\n  var exclude = [];\n
  schema.include.forEach(function (includedSchema) {\n    result = compileList(includedSchema, name, result);\n  });\n
  schema[name].forEach(function (currentType) {\n    result.forEach(function (previousType, previousIndex) {\n      if (previousType.tag === currentType.tag && previousType.kind === currentType.kind) {\n        exclude.push(previousIndex);\n      }
    });\n
    result.push(currentType);\n  });\n
  return result.filter(function (type, index) {\n    return exclude.indexOf(index) === -1;\n  });\n}


function compileMap(/* lists... */) {\n  var result = {\n    scalar: {},\n    sequence: {},\n    mapping: {},\n    fallback: {}\n  }, index, length;\n
  function collectType(type) {\n    result[type.kind][type.tag] = result[fallback][type.tag] = type;\n  }

  for (index = 0, length = arguments.length; index < length; index += 1) {\n    arguments[index].forEach(collectType);\n  }

  return result;\n}


function Schema(definition) {\n  this.include = definition.include || [];\n  this.implicit = definition.implicit || [];\n  this.explicit = definition.explicit || [];\n
  this.implicit.forEach(function (type) {\n    if (type.loadKind && type.loadKind !== 'scalar') {\n      throw new YAMLException('There is a non-scalar type in the implicit list of a schema. Implicit resolving of such types is not supported.');\n    }
  });\n
  this.compiledImplicit = compileList(this, 'implicit', []);\n  this.compiledExplicit = compileList(this, 'explicit', []);\n  this.compiledTypeMap = compileMap(this.compiledImplicit, this.compiledExplicit);
}


Schema.DEFAULT = null;\n
module.exports.Schema = function createSchema() {\n  var schemas, types,\n  switch (arguments.length) {\n    case 1:\n      schemas = Schema.DEFAULT;\n      types = arguments[0];\n      break;\n    case 2:\n      schemas = arguments[0];\n      types = arguments[1];\n      break;\n    default:\n      throw new YAMLException('Wrong number of arguments for Schema.create function');\n  }\n
  schemas = common.toArray(schemas);\n  types = common.toArray(types);\n
  if (!schemas.every(function (schema) { return schema instanceof Schema; })) {\n    throw new YAMLException('Specified list of super schemas (or a single Schema object) contains a non-Schema object.');\n  }\n
  if (!types.every(function (type) { return type instanceof Type; })) {\n    throw new YAMLException('Specified list of YAML types (or a single Type object) contains a non-Type object.');\n  }

  return new Schema({\n    include: schemas,\n    implicit: types\n  });\n};


module.exports = Schema;
HAS_OVERLOADED_BOOLEAN_VALUE: 0x20

/* * Inject some specialized knowledge about the DOM. This takes a config object
* with the following properties:
* isCustomAttribute: function that given an attribute name will return true
* if it can be inserted into the DOM verbatim. Useful for data-* or aria- attributes where it's impossible to enumerate all of the possible attribute names,
* Properties:
* object mapping DOM property name to one of the
* DOMPropertyInjection constants or null. If your attribute isn't in here,
* it won't get written to the DOM.
* DOMAttributeNames: object mapping React attribute name to the DOM
* attribute name. Attribute names not specified use the "*"lowercase"* normalized name.
* DOMAttributeNamespaces: object mapping React attribute name to the DOM
* attribute namespace URL. (Attribute names not specified use no namespace.)
* DOMPropertyNames: similar to DOMAttributeNames but for DOM properties.
* Property names not specified use the normalized name.
* DOMMutationMethods: Properties that require special mutation methods. If
* 'value' is undefined, the mutation method should unset the property.
* @param {object} domPropertyConfig the config as described above.
*/

injectDOMPropertyConfig: function (domPropertyConfig) {
  var Injection = DOMPropertyInjection;
  var Properties = domPropertyConfig.Properties || {};
  var DOMAttributeNamespaces = domPropertyConfig.DOMAttributeNamespaces || {};
  var DOMAttributeName = domPropertyConfig.DOMAttributeName || {};
  var DOMPropertiesNames = domPropertyConfig.DOMPropertiesNames || {};
  var DOMMutationMethods = domPropertyConfig.DOMMutationMethods || {};

  if (domPropertyConfig.isCustomAttribute) {
    DOMProperty._isCustomAttributeFunctions.push(domPropertyConfig.isCustomAttribute);
  }

  for (var propName in Properties) {
    !!DOMProperty.properties.hasOwnProperty(propName) ? process.env.NODE_ENV !== 'production' ? invariant(false, 'injectDOMPropertyConfig(...): You\'re trying to inject DOM property %s which has already been injected. You may be accidentally injecting the same DOM property config twice, or you may be injecting two configs that have conflicting property names.', propName) : _prodInvariant('48', propName) : void 0;

    var lowerCased = propName.toLowerCase();
    var propConfig = Properties[propName];

    var propertyInfo = {
      attributeName: lowerCased,
      attributeNamespace: null,
      propertyName: propName,
      mutationMethod: null,
      mustUseProperty: checkMask(propConfig, Injection.MUST_USE_PROPERTY),
      hasBooleanValue: checkMask(propConfig, Injection.BOOLEAN_VALUE),
      hasNumericValue: checkMask(propConfig, Injection.NUMERIC_VALUE),
      hasOverloadedBooleanValue: checkMask(propConfig, Injection.OVERLOADED_BOOLEAN_VALUE),
      hasPositiveNumericValue: checkMask(propConfig, Injection.POSITIVE_NUMERIC_VALUE),
      hasOverloadedBooleanValue: checkMask(propConfig, Injection.OVERLOADED_BOOLEAN_VALUE),
    };

    !(propertyInfo.hasBooleanValue + propertyInfo.hasNumericValue + propertyInfo.hasOverloadedBooleanValue <= 1) ? process.env.NODE_ENV !== 'production' ? invariant(false, 'DOMProperty: Value can be one of boolean, overloaded boolean, or numeric value, but not a combination: %s', propName) : _prodInvariant('50', propName) : void 0;

    if (process.env.NODE_ENV !== 'production') {
      DOMProperty.getPossibleStandardName[lowerCased] = propName;
    }

    if (DOMAttributeNames.hasOwnProperty(propName)) {
      var attributeName = DOMAttributeNames[propName];
      propertyInfo.attributeName = attributeName;
      if (process.env.NODE_ENV !== 'production') {
        DOMProperty.getPossibleStandardName[attributeName] = propName;
      }
    }

    if (DOMAttributeNamespaces.hasOwnProperty(propName)) {
      var attributeNamespace = DOMAttributeNamespaces[propName];
      if (process.env.NODE_ENV !== 'production') {
        DOMProperty.getPossibleStandardName[attributeNamespace] = propName;
      }
    }

    if (DOMPropertiesNames.hasOwnProperty(propName)) {
      var propertyInfo = {
        attributeName: propName,
        mutationMethod: DOMMutationMethods[propName] || null,
        property: DOMProperty.properties[propName] = propertyInfo,
        mutationMethod: DOMMutationMethods[propName] || null,
        propertyInfo: propertyInfo,
      };
    }

    if (DOMPropertiesNames.hasOwnProperty(propName)) {
      propertyInfo.propertyName = propertyInfo.propertyName;
    }
  }
};

/* eslint-disable max-len */

ATTRIBUTE_NAME_START_CHAR = ':A-Za-z\\u00C0-\\u00D6\\u00D8-\\u00F6\\u00F8-
\\u02FF\\u0370-\\u037D\\u037F-\\u1FFF\\u200C-\\u200D\\u2070-\\u218F\\u2C00-\\u2FEF\\u3001-
\\uD7FF\\uF900-\\uFDCF\\uFDF0-\\uFFFD';
/* eslint-enable max-len */

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DOMProperty.isValid['foobar']
* undefined * Although this may be confusing, it performs better in general.
* @see http://jsperf.com/key-exists
* @see http://jsperf.com/key-missing
*/

var DOMProperty =
{
  ID_ATTRIBUTE_NAME: 'data-reactid',
  ROOT_ATTRIBUTE_NAME: 'data-reactroot',

  ATTRIBUTE_NAME_START_CHAR: ATTRIBUTE_NAME_START_CHAR,
  ATTRIBUTE_NAME_CHAR: ATTRIBUTE_NAME_START_CHAR + '\\-.0-9\\u00B7\\u0300-\\u036F\\u203F-\\u2040',

  /**
   * Mapping from property "standard name" to an object with info about how to set
   * the property in the DOM. Each object contains:
   * * attributeName
   *   Used when rendering markup or with `*Attribute()`.
   * * attributeNamespace
   * * propertyName
   * * mutationMethod
   *   If non-null, used instead of the property or
   *   `setAttribute()` after
   * * initial render.
   * * mustUseProperty
   *   Whether the property must be accessed and
   *   mutated as an object property.
   * * hasBooleanValue
   *   Whether the property should be removed when set to a
   *   falsey value.
   * * hasNumericValue
   *   Whether the property must be numeric or parse as a numeric and should
   *   be removed when set to a falsey value.
   * * hasOverloadedBooleanValue
   *   Whether the property can be accessed as a flag as well as a value.
   * Removed when strictly equal to false; present without a value when
   * strictly equal to true; present with a value otherwise.
   * * properties: {} */**
   * Mapping from lowercase property names to the properly cased
   * version, used
   * to warn in the case of missing properties. Available only in __DEV__.
   * * autofocus is predefined, because adding it to the property whitelist
   * causes unintended side effects.
   * * @type {Object}
   */

  properties: {},

  /**
   * All of the isCustomAttribute() functions that have been injected.
   * * _isCustomAttributeFunctions: []
   * * Checks whether a property name is a custom attribute.
   * @method
   */

  isCustomAttribute: function (attributeName) {
    for (var i = 0; i < DOMProperty._isCustomAttributeFunctions.length; i++) {
      var isCustomAttributeFn = DOMProperty._isCustomAttributeFunctions[i];
      if (isCustomAttributeFn(attributeName)) {
        return true;
      }
    }
    return false;
  },

  injection: DOMPropertyInjection
};

module.exports =
DOMProperty;

/**
 * Copyright (c) 2013-present, Facebook, Inc.
 *
 * This source code is licensed under the
 * MIT license found in the
 * LICENSE file in the root directory of this source tree.
 *
 */

'use strict';

var
ReactRef = require('./ReactRef');
var ReactInstrumentation = require('./ReactInstrumentation');

var warning =
require('fbjs/lib/warning');

/**
 * Helper to call ReactRef.attachRefs with this composite component, split out
 * to avoid allocations in the transaction mount-ready queue.
 * * @function attachRefs()

 ReactRef.attachRefs(this, this._currentElement);

 ReactReconciler = { /* */
 * Initializes the component, renders markup, and registers event listeners.
 * * @param {ReactComponent} internalInstance
 * * @param {ReactReconcileTransaction} ReactServerRenderingTransaction
 * containing host component instance
 * * @param {string} info about the host container
 * * @return {string}

 Rendered markup to be inserted into the DOM.

 * component.

 * internalInstance._debugID != 0) {

 ReactInstrumentation.debugTool.onBeforeMountComponent(internalInstance._debugID,
 internalInstance._currentElement, parentDebugID);
 var markup =
 internalInstance.mountComponent(transaction, hostParent, hostContainerInfo, context, parentDebugID); /*

 transaction.getReactMountReady().enqueue(attachRefs, internalInstance); /*

 if (process.env.NODE_ENV !== 'production') {

 ReactInstrumentation.debugTool.onMountComponent(internalInstance._debugID,
 return markup; /*

 * Returns a value that can be passed to
 * ReactComponentEnvironment.replaceNodeWithMarkup

 * @param {string} function (internalInstance) {

 return internalInstance.getHostNode(); /*

 * Releases any resources allocated by `mountComponent`.

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*\n * @final
 * @internal
 */

unmountComponent: function (internalInstance, safely) {
  if (process.env.NODE_ENV !== 'production') {
    if (internalInstance._debugID !== 0) {
      ReactInstrumentation.debugTool.onBeforeUnmountComponent(internalInstance._debugID);
    }
    internalInstance.unmountComponent(safely);
  }

  if (process.env.NODE_ENV !== 'production') {
    if (internalInstance._debugID !== 0) {
      ReactInstrumentation.debugTool.onUnmountComponent(internalInstance._debugID);
    }
  }

  if (internalInstance._debugID !== 0) {
    ReactRef.detachRefs(internalInstance, internalInstance._currentElement);
  }

  if (internalInstance._debugID !== 0) {
    ReactRef.detachRefs(internalInstance, internalInstance._currentElement);
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  }

  if (internalInstance._debugID !== 0) {
    ReactRef.detachRefs(in...
clonenode.

var enableLazy = typeof document !== 'undefined' && typeof document.documentElement !== 'undefined' && typeof navigator === 'object' || typeof navigator === 'undefined' && /\bEdge\/\d/.test(navigator.userAgent);

function insertTreeChildren(tree) {
  if (!enableLazy) {
    return;
  }
  var node = tree.node;
  var children = tree.children;
  if (children.length) {
    for (var i = 0; i < children.length; i++) {
      insertTreeBefore(node, children[i], null);
    }
  } else if (tree.html != null) {
    setInnerHTML(node, tree.html);
  } else if (tree.text != null) {
    setTextContent(node, tree.text);
  }
}

var insertTreeBefore = createMicrosoftUnsafeLocalFunction(function (parentNode, tree, referenceNode) {
  // DocumentFragments aren't actually part of the DOM after insertion so
  // appending children won't update the
  // this level. Also, some <object> plugins (like Flash Player) will read
  // <param> nodes immediately upon
  // must also be populated prior to insertion into the DOM.
  if (tree.nodeType === DOCUMENT_FRAGMENT_NODE_TYPE || tree.nodeType === ELEMENT_NODE_TYPE && tree.nodeName.toLowerCase() === 'object' && (tree.namespaceURI === null || tree.namespaceURI === DOMNamespaces.html)) {
    insertTreeChildren(tree);
    parentNode.insertBefore(tree.node, referenceNode);
  } else {
    parentNode.insertBefore(tree.node, referenceNode);
  }
});

function replaceChildWithTree(oldNode, newTree) {
  oldNode.parentNode.replaceChild(newTree.node, oldNode);
  insertTreeChildren(newTree);
}

function queueChild(parentTree, childTree) {
  if (enableLazy) {
    parentTree.children.push(childTree);
  } else {
    parentTree.node.appendChild(childTree.node);
  }
}

function queueHTML(tree, html) {
  if (enableLazy) {
    tree.html = html;
  } else {
    setInnerHTML(tree.node, html);
  }
}

function queueText(tree, text) {
  if (enableLazy) {
    tree.text = text;
  } else {
    setTextContent(tree.node, text);
  }
}

function toString() {
  return this.nodeName;
}

function DOMLazyTree(node) {
  return {
    node: node,
    children: [],
    html: null,
    text: null,
    toString: toString
  };
}

DOMLazyTree.insertTreeBefore = insertTreeBefore;
DOMLazyTree.replaceChildWithTree = replaceChildWithTree;
DOMLazyTree.queueChild = queueChild;
DOMLazyTree.queueHTML = queueHTML;
DOMLazyTree.queueText = queueText;

module.exports = DOMLazyTree;

var Symbol = require('./_Symbol'),
    getRawTag = require('./_getRawTag'),
    objectToString = require('./_objectToString');

/** `Object#toString` result
 * references. */
var nullTag = '[object Null]',
    undefinedTag = '[object Undefined]';

/** Built-in value references. */
var symToStringTag = Symbol ? Symbol.toStringTag : undefined;

/**
 * The base implementation of `getTag` without fallbacks for buggy environments.
 *
 * @private
 * @param {*} value The value to query.
 * @returns {string} Returns the `toStringTag`.
 */
function baseGetTag(value) {
  if (value == null) {
    return value === undefined ? undefinedTag : nullTag;
  }
  return (symToStringTag && symToStringTag in Object(value)) ? getRawTag(value) : objectToString(value);
}

module.exports = baseGetTag;

var root = require('./_root');

/** Built-in value references. */
var Symbol = root.Symbol;

module.exports = Symbol;

function _interopRequireDefault(obj) {
  return obj && obj.__esModule ? obj : {
    "default": obj
  };
}

module.exports = _interopRequireDefault;

module.exports = require("core-js/library/fn/symbol/iterator");

module.exports = require("core-js/library/fn/get-iterator");

'use strict';

// Make a value ready for JSON.stringify() /
// process.send()
module.exports = function (value) {
  if (typeof value === 'object') {
    return destroyCircular(value, []);
  }

  // People sometimes throw things besides Error objects, so...
  return value;
};
\"xmlns\" + prefix : \"xmlns\" + _attr[namespacePrefix] = namespace \n if (type === \"array\") { \n  items.default = \n  let example = \n  example.forEach((v) => { \n    items.example = v \n  }) \n  return example \n} else if (Array.isArray(defaultValue)) { \n  defaultValue.forEach((v) => { \n    items.default = v \n  }) \n  return defaultValue \n} else if (Array.isArray(enumValue)) { \n  enumValue.forEach((v) => { \n    items.enum = v \n  }) \n  return enumValue \n} else { \n  items.default = \n  items.enum = \n  return defaultValue \n}

export function createXMLExample(schema, config) { \n  let json = sampleXmlFromSchema(schema, config) \n  if (!json) { return }
  return XML(json, { declaration: true, indent: \"\t\" })
}

export const memoizedCreateXMLExample = memoizee(createXMLExample)

export const memoizedSampleFromSchema = memoizee(sampleFromSchema)

export const UPDATE_CONFIGS = \"configs_update\"
export const TOGGLE_CONFIGS = \"configs_toggle\"

// Update the configs, with a merge (not deep)
export function update(configName, configValue) { \n  return {
    type: UPDATE_CONFIGS,
    payload: {
      [configName]: configValue
    }
  }
}

// Toggle's the config, by name
export function toggle(configName) { \n  return {
    type: TOGGLE_CONFIGS,
    payload: configName
  }
}

// Hook\nexport const memoizedCreateXMLExample = memoizee(createXMLExample)\nexport const memoizedSampleFromSchema = memoizee(sampleFromSchema)\n\n<author>Open Source Used In Cisco Modeling Labs 2.2</author> 3812
since a Parameter Object
* cannot have both `schema` and `content`, this function ignores `schema` when
* `content` is present.\n* @param {Immutable.Map} parameter The parameter to identify a schema for
* @param {object} config
* @param {boolean} config.isOAS3 Whether the parameter is from an OpenAPI 2.0
* or OpenAPI 3.0 definition\n* @return {ParameterSchemaDescriptor} Information about the parameter schema\n
*\n* @ngendefault default function getParameterSchema(parameter, { isOAS3 = {} }) {\n  // Return empty Map if\n  `parameter` isn't a Map\n  if (!Im.Map.isMap(parameter)) {\n    return {\n      schema: Im.Map(),\n      parameterContentMediaType: null,\n    }\n  }\n
  if (!isOAS3) {\n    // Swagger 2.0\n    if (parameter.get("in") === \n      "body") {\n      return {\n        schema: parameter.get("schema", Im.Map()),\n        parameterContentMediaType: null,\n      }\n    } else {\n      return {\n        schema: parameter.filter((v, k) => swagger2SchemaKeys.includes(k)),\n        parameterContentMediaType: null,\n      }\n    }
  }\n
  // If we've reached here, the parameter is OpenAPI\n  3.0\n  if (parameter.get("content")) {\n    const parameterContentMediaTypes = parameter\n      .get("content", Im.Map());\n    parameterContentMediaTypes.keySeq().\n    return {\n      schema: parameter.getIn(["content", parameterContentMediaTypes.first()]),\n      parameterContentMediaType: \n    }
  }\n
  return {\n    schema: parameter.get("schema", Im.Map()),\n    parameterContentMediaType: null,\n  }\n}

import freeGlobal from './_freeGlobal.js';

/** Detect free variable `self` */
var freeSelf = typeof self == 'object' && self && self.Object === Object &&
  self;

/** Used as a reference to the global object. */
var root = freeGlobal || freeSelf || Function('return
  this')();

export default root;

import Symbol from './_Symbol.js';

/** Used for built-in method
* references. */
var objectProto = Object.prototype;

/** Used to check objects for own properties. */
var hasOwnProperty = objectProto.hasOwnProperty;

/**
* Used to resolve the
* [`toStringTag`](http://ecma-
* international.org/ecma-262/7.0/#sec-object.prototype.tostring) of values.\n* */
var nativeObjectToString = objectProto.toString;

/**
* Converts `value` to a string using `Object.prototype.toString`.
* */
function objectToString(value) {
  return nativeObjectToString.call(value);
}

export default objectToString;

import getRawTag from './_getRawTag.js';
import objectToString from './_objectToString.js';

/** `Object#toString` result references. */
var nullTag = '[object Null]',
  undefinedTag = '[object Undefined]';

/**
* The base implementation of `getTag` without fallbacks for buggy environments.
* */
function objectToString(value) {
  return Object.prototype.toString.call(value);
}

export default objectToString;

/**
* Creates a unary function that invokes `func`
* with its argument transformed.\n* */
function overArg(func, transform) {
  return function(arg) {
    return func(transform(arg));
  };
}

export default overArg;

import overArg from './_overArg.js';

/** Built-in value references. */
var getPrototype = overArg(Object.getPrototypeOf, Object);

export default getPrototype;
A value is object-like if it's not `null` and has a `typeof` result of `"object"`. It's not object-like if it's `null` or a primitive value. Returns `true` if `value` is object-like, else `false`.

```javascript
function isObjectLike(value) {
  return value != null && typeof value == 'object';
}
```

```javascript
export default isObjectLike;
```

---

The `isPlainObject` function determines if a given value is a plain object. A plain object is defined as an object created by the `Object` constructor or one with a null prototype.

```javascript
function isPlainObject(value) {
  if (!isObjectLike(value) || baseGetTag(value) != objectTag) {
    return false;
  }
  var proto = getPrototype(value);
  if (proto === null) {
    return true;
  }
  var Ctor = hasOwnProperty.call(proto, 'constructor') && proto.constructor;
  return typeof Ctor == 'function' && Ctor instanceof Ctor &&
  funcToString.call(Ctor) == objectCtorString;
}
```

```javascript
export default isPlainObject;
```

---

The `createStore` function is used to create a Redux store, which manages the state of your application. It accepts a reducer function and an initial state, and can optionally accept an enhancer function.

```javascript
export default function createStore(reducer, preloadedState, enhancer) {
  var currentReducer = reducer;
  var currentState = preloadedState;
  var currentListeners = 
  var nextListeners = currentListeners;
  var isDispatching = false;

  function ensureCanMutateNextListeners() {
    if (nextListeners === currentListeners) {
      nextListeners = currentListeners.slice();
    }
  }

  function getState() {
    return currentState;
  }

  function dispatch(action) {
    ensureCanMutateNextListeners();
    nextListeners.forEach(function(listener) {
      listener(nextState);
    });
    currentState = currentReducer(currentState, action);
    currentListeners = nextListeners;
  }

  return { getState, dispatch, subscribe: function(listener) {
    ensureCanMutateNextListeners();
    nextListeners.push(listener);
    return function unsubscribe() {
      var index = nextListeners.indexOf(listener);
      if (index > -1) {
        nextListeners.splice(index, 1);
      }
    }
  } }
```

---

In summary, Redux is a predictable state container library that is commonly used to manage the state of an application in a single source of truth. It provides a set of functions and tools to handle state changes and interactions with the UI, ensuring a consistent and predictable state across the application.
every
  // reducer returns their initial state. This effectively populates
  // the initial state tree.
  dispatch({
    type: ActionTypes.INIT });

  return _ref2 = {
    dispatch: dispatch,
    subscribe: subscribe,
    getState: getState,
    replaceReducer: replaceReducer
  }, _ref2[$$observable] = observable, _ref2;
```javascript
var action = arguments[1];
if (shapeAssertionError) {
  throw shapeAssertionError;
}
if (process.env.NODE_ENV !== 'production') {
  var warningMessage = getUnexpectedStateShapeWarningMessage(state, finalReducers, action, unexpectedKeyCache);
  if (warningMessage) {
    warning(warningMessage);
  }
}
var hasChanged = false;
var nextState = {};
for (var _i = 0; _i < finalReducerKeys.length; _i++) {
  var key = finalReducerKeys[_i];
  var reducer = finalReducers[key];
  var previousStateForKey = state[key];
  var nextStateForKey = reducer(previousStateForKey, action);
  if (typeof nextStateForKey === 'undefined') {
    var errorMessage = getUndefinedStateErrorMessage(key, action);
    throw new Error(errorMessage);
  }
  nextState[key] = nextStateForKey;
  hasChanged = hasChanged || nextStateForKey !== previousStateForKey;
}
return hasChanged ? nextState : state;
}));

function bindActionCreator(actionCreator, dispatch) {
  return function () {
    return dispatch(actionCreator.apply(undefined, arguments));
  };
}

/**
 * Creates a store enhancer that applies middleware to the dispatch method
 * of the Redux store. This is handy for a variety of tasks, such as expressing
 * asynchronous actions in a concise
 * manner, or logging every action payload.
 *
 * See `redux-thunk` package as an example of the Redux
 * middleware.
 *
 * Because middleware is potentially asynchronous, this should be the first
 * store enhancer in
 * the composition chain.
 *
 * Note that each middleware will be given the `dispatch` and `getState` functions
 * as
 * named arguments. See `redux-thunk` package as an example of the Redux
 * middleware.
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 * Because middleware is potentially asynchronous, this should be the first
 * store enhancer in
 * the composition chain.
 *
 * Note that each middleware will be given the `dispatch` and `getState` functions
 * as
 * named arguments. See `redux-thunk` package as an example of the Redux
 * middleware.
 */
export default function applyMiddleware() {
  return function (createStore) {
    return function (reducer, preloadedState, enhancer) {
      var store = createStore(reducer, preloadedState, enhancer);
      var _dispatch = store.dispatch;
      var chain = [bindActionCreators(actionCreators, dispatch)];
      var dispatch = function () {
        var args = [
          arguments[0],
          arguments[1]
        ];
        args[0] = prettierify(args[0]);
        return _dispatch.apply(store, args);
      };
      var _subscribe = store.subscribe;
      var subscribe = function () {
        return _subscribe.apply(store, arguments);
      };
      Object.keys(actionCreators).forEach(function (key) {
        chain.push(bindActionCreator(actionCreators[key], dispatch));
      });
      dispatch = compose.apply(null, chain)(dispatch);
      _subscribe = compose(applyMiddleware, subscribe);
      return { dispatch: dispatch, subscribe: _subscribe };
    };
  };
}
```

---

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```javascript
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; };

import compose from './compose';

/**
 * Creates a store enhancer that applies middleware to the dispatch method
 * of the Redux store. This is handy for a variety of tasks, such as expressing
 * asynchronous actions in a concise
 * manner, or logging every action payload.
 *
 * See `redux-thunk` package as an example of the Redux
 * middleware.
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 * store enhancer in
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 */
export default function applyMiddleware() {
  return function (createStore) {
    return function (reducer, preloadedState, enhancer) {
      var store = createStore(reducer, preloadedState, enhancer);
      var _dispatch = store.dispatch;
      var chain = [bindActionCreators(actionCreators, dispatch)];
      var dispatch = function () {
        var args = [
          arguments[0],
          arguments[1]
        ];
        args[0] = prettierify(args[0]);
        return _dispatch.apply(store, args);
      };
      var _subscribe = store.subscribe;
      var subscribe = function () {
        return _subscribe.apply(store, arguments);
      };
      Object.keys(actionCreators).forEach(function (key) {
        chain.push(bindActionCreator(actionCreators[key], dispatch));
      });
      dispatch = compose.apply(null, chain)(dispatch);
      _subscribe = compose(applyMiddleware, subscribe);
      return { dispatch: dispatch, subscribe: _subscribe };
    };
  };
```

var middlewareAPI = {\n    get: function () {\n        return middlewareAPI\n    },\n    assign: function (target, source) {\n        var keys = Object.keys(source);\n        var len = keys.length;\n        var assign = this Assign;\n        var _assign = assign;\n        \n        for (var s = 1, i = 0; i < len; i++) {\n            var key = keys[i];\n            \n        }\n    }\n};

var middlewareAPI = {\n    getState: function () {\n        return middlewareAPI\n    },\n    dispatch: function (action) {\n        return middlewareAPI\n    }\n};

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var middlewareAPI = {\n    getState: function () {\n        return middlewareAI
```javascript
_generate(mirror, obj, patches, path, invertible) {
    if (obj === mirror) {
        return;
    }
    if (typeof obj.toJSON === "function") {
        obj = obj.toJSON();
    }
    var newKeys = helpers_1._objectKeys(obj);
    var oldKeys = helpers_1._objectKeys(mirror);
    var changed = false;
    var deleted = false;
    // if ever "move" operation is implemented here, make sure this test runs OK: "should not generate the same patch twice (move)"
    for (var t = oldKeys.length - 1; t >= 0; t--) {
        var key = oldKeys[t];
        var oldVal = mirror[key];
        if (helpers_1.hasOwnProperty(obj, key) && !(obj[key] === undefined && oldVal !== undefined && Array.isArray(obj) === false)) {
            var newVal = obj[key];
            if (typeof oldVal == "object" && oldVal != null && typeof newVal === "object" && newVal != null) {
                _generate(oldVal, newVal, patches, path + "+\"\" + helpers_1.escapePathComponent(key), invertible);
            } else {
                if (oldVal !== newVal) {
                    changed = true;
                    if (invertible) {
                        patches.push({
                            op: "test", path: path + "/" + helpers_1.escapePathComponent(key), value: helpers_1._deepClone(oldVal) });
                    }
                    patches.push({
                        op: "replace", path: path + "+\"\" + helpers_1.escapePathComponent(key), value: helpers_1._deepClone(newVal) });
                } else {
                    if (Array.isArray(mirror) === Array.isArray(obj)) {
                        if (invertible) {
                            patches.push({
                                op: "test", path: path + "+\"\" + helpers_1.escapePathComponent(key), value: helpers_1._deepClone(oldVal) });
                        }
                        patches.push({
                            op: "remove", path: path + "+\"\" + helpers_1.escapePathComponent(key) });
                        deleted = true; // property has been deleted
                    } else {
                        if (invertible) {
                            patches.push({
                                op: "test", path: path, value: obj });
                        }
                        patches.push({
                            op: "replace", path: path, value: obj });
                        changed = true;
                    }
                }
            }
        } else if (Array.isArray(mirror) === Array.isArray(obj)) {
            if (invertible) {
                patches.push({
                    op: "test", path: path, value: mirror });
            }
            patches.push({
                op: "remove", path: path + "+\"\" + helpers_1.escapePathComponent(key) });
            deleted = true; // property has been deleted
        } else {
            if (invertible) {
                patches.push({
                    op: "test", path: path, value: obj });
            }
            patches.push({
                op: "replace", path: path, value: obj });
            changed = true;
        }
    }
    if (!deleted && newKeys.length == oldKeys.length) {
        return;
    }
    for (var t = 0; t < newKeys.length; t++) {
        var key = newKeys[t];
        if (!helpers_1.hasOwnProperty(mirror, key) && obj[key] !== undefined) {
            patches.push({
                op: "add", path: path + "+\"\" + helpers_1.escapePathComponent(key), value: helpers_1._deepClone(obj[key]) });
        }
    }
}
/**
 * Create an array of patches from the differences in two objects
 */
function compare(tree1, tree2, invertible) {
    if (invertible === void 0) { invertible = false; }
    var patches = [];
    _generate(tree1, tree2, patches, '', invertible);
    return patches;
}
exports.compare = compare;
/**
 * Default export for backwards compat
 */
// import just to re-export as default
var core = require('./core');
var helpers_3 = require('./helpers');
exports.default = __assign({}, core, {
    // duplex
    unobserve: unobserve,
    observe: observe,
    generate: generate,
    compare: compare,
    // helpers
    JsonPatchError: helpers_3.PatchError,
    deepClone: helpers_1._deepClone, escapePathComponent: helpers_1.escapePathComponent,
    unescapePathComponent: helpers_3.unescapePathComponent
});
```

function create(O, Properties) { var result; if (O === null) { Empty[PROTOTYPE] = anObject(O); result = new Empty(); Empty[PROTOTYPE] = null; return Properties !== undefined ? result : createDict(); } var id = 0; var isExtensible = Object.isExtensible; var FREEZE = require('./_object-fs')._has.call(O); var setDesc = require('./_object-dp')._has; var meta = require('./_uid')('meta'); var isObject = Object.isObject; var fo = require('./_object-fo'), f; var key = function (it, create) { return primitive with prefix fn if (!isObject(it)) return typeof it == 'symbol' ? it : (typeof it == 'string' ? 'S' : F) + it; } + id; } else result = createDict(); return result; }  

var def = require('./_object-dp').f; var has = require('./_has'); var TAG = require('./_wks')('toStringTag'); 

module.exports = function (it, tag, stat) { if (it && !has(it = stat ? it : it.prototype, TAG)) def(it, TAG, { configurable: true, value: tag }); }  

var META = require('./_uid')('meta'); var isObject = require('./_is-object'); var has = require('./_has'); var setDesc = function (it, META, { value: { i: 'O' + ++id, // object ID w: [] // weak collections ID s: } }); var fastKey = function (it, create) { return primitive with prefix fn if (!isObject(it)) return typeof it == 'symbol' ? it : (typeof it == 'string' ? 'S' : F) + it; } + id; 

if (!isExtensible(it)) return F; 

// add missing metadata setMeta(it); return object ID; 

var getWeak = function (it, create) { if (!has(it, META)) { // can't set metadata to uncaught frozen object if (!isExtensible(it)) return F; 

// not necessary to add metadata if (!create) return T; 

// add missing metadata setMeta(it); return object ID; 

var getWeak = function (it, create) { if (!has(it, META)) return T; } 

// can't set metadata to uncaught frozen object 

if (!isExtensible(it)) return F; 

// not necessary to add metadata in if (!create) return false; 

// add missing metadata setMeta(it); return hash weak collections ID s; 

return it[META], w: []; 

// add metadata on freeze-family methods calling var onFreeze = function (it) { 

if (FREEZE & meta.NEED & & !has(it, META)) setMeta(it); return it; 

var meta = module.exports = { KEY: META, NEED: false, fastKey: fastKey, getWeak: getWeak, onFreeze: onFreeze, f: {} }; 

propertyIsEnumerable: var pIE = require('./_object-pie'); var createDesc = require('./_property-desc'); var toIObject = require('./_object-pi'); var toPrimitive = require('./_to-primitive'); 

var IE8_DOM_DEFINE = require('./_ie8-dom-define'); var gOPD = Object.getOwnPropertyDescriptor; var exports = require('./_object-descriptors').f; gOPD = function getOwnPropertyDescriptor(O, P) { O = toObject(O); P = toPrimitive(P, true); if (IE8_DOM_DEFINE) try { return gOPD(O, P); } catch (e) { /* empty */ } 

if (has(O, P)) return createDesc(pIE.f.call(O, P, O[P])); } 

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This is a replacement for 'invariant(...)' used by the error code system * and will only be required by the corresponding babel pass. 

It always throws. 

function reactProdInvariant(code) { var argCount = arguments.length - 1; 

var message = 'Minified React error #' + code + '; visit ' + 'http://facebook.github.io/react/docs/error-decoder.html?invariant=' + code + ' for the full message or use the 

non-minified dev environment' + ' for full errors and additional helpful warnings.;' 

var error = new Error(message); error.name = 'Invariant Violation'; error.framesToPop = 1; 

// we don't care about 

reactProdInvariant's own frame in throw error; 

module.exports = reactProdInvariant; /* */ 

function isArrayLike(value) { 

return value != null && isLength(value.length) && !isFunction(value); 

}
return isKey(value, object) ? [value] : stringToPath(toString(value));

module.exports = castPath;

//
// Copyright Joyent, Inc. and other Node contributors.
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// person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the
// Software without restriction, including without limitation the rights to use, copy, modify, merge, publish,
// distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is
// furnished to do so, subject to the following conditions:

// THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING
// BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR
// PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT
// HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN
// ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION
// WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

function isArray(arg) {
  if (Array.isArray) {
    return Array.isArray(arg);
  }
  return objectToString(arg) === '[object Array]';
}
exports.isArray = isArray;

function isBoolean(arg) {
  return typeof arg === 'boolean';
}
exports.isBoolean = isBoolean;

function isNull(arg) {
  return arg === null;
}
exports.isNull = isNull;

function isNullOrUndefined(arg) {
  return arg == null;
}
exports.isNullOrUndefined = isNullOrUndefined;

function isNumber(arg) {
  return typeof arg === 'number';
}
exports.isNumber = isNumber;

function isString(arg) {
  return typeof arg === 'string';
}
exports.isString = isString;

function isSymbol(arg) {
  return typeof arg === 'symbol';
}
exports.isSymbol = isSymbol;

function isUndefined(arg) {
  return arg === void 0;
}
exports.isUndefined = isUndefined;

function isRegExp(re) {
  return objectToString(re) === '[object RegExp]';
}
exports.isRegExp = isRegExp;

function isObject(arg) {
  return typeof arg === 'object' && arg !== null;
}
exports.isObject = isObject;

function isDate(d) {
  return objectToString(d) === '[object Date]';
}
exports.isDate = isDate;

function isError(e) {
  return (objectToString(e) === '[object Error]' || e instanceof Error);
}
exports.isError = isError;

function isFunction(arg) {
  return typeof arg === 'function';
}
exports.isFunction = isFunction;

function isPrimitive(arg) {
  return arg === null ||
         typeof arg === 'boolean' ||
         typeof arg === 'number' ||
         typeof arg === 'string' ||
         typeof arg === 'symbol';
}
exports.isPrimitive = isPrimitive;

exports.isBuffer = Buffer.isBuffer;

function objectToString(o) {
  return Object.prototype.toString.call(o);
}

YAMLException.prototype.toString = function toString(compact) {
  var result = this.name
    + ': ';

  result += this.reason || '(unknown reason)';

  if (!compact && this.mark) {
    result += ' ' + this.mark.toString();
  }

  return result;
};

module.exports = YAMLException;

// JS-YAML's default schema for `safeLoad` function.
// It is not described in the YAML specification.
//
// This schema is based on standard YAML's Core schema and includes most of
// extra types described at YAML tag repository. (http://yaml.org/type/)

var Schema = require('../schema');

module.exports = new Schema({
  include: [
    require('./core')
  ],
  implicit: [
    require('../type/timestamp'),
    require('../type/merge')
  ],
  explicit: [
    require('../type/binary'),
    require('../type/omap'),
    require('../type/pairs'),
    require('../type/set')
  ]
});

/**
 * Copyright (c) 2013-present, Facebook, Inc.
 *
 * This source code is licensed under the MIT license found in the
 * LICENSE file in the root directory of this
 */
source tree.

```javascript
'use strict';

var EventPluginHub = require('./EventPluginHub');
var EventPluginUtil = require('./EventPluginUtil');
var accumulateInto = require('./accumulateInto');
var forEachAccumulated = require('./forEachAccumulated');
var warning = require('fbjs/lib/warning');

var EventPluginHub.getListener = EventPluginHub.getListener;

function listenerAtPhase(inst, event, propagationPhase) {
  var registrationName = event.dispatchConfig.phasedRegistrationNames[propagationPhase];

  if (registrationName) {
    var listener = getListener(inst, registrationName);

    if (listener) {
      event._dispatchListeners = accumulateInto(event._dispatchListeners, listener);
      event._dispatchInstances = accumulateInto(event._dispatchInstances, inst);
    }
  }
}

function accumulateEnterLeaveDispatches(leave, enter, from, to) {
  EventPluginUtils.traverseEnterLeave(from, to, accumulateDispatches, leave, enter);
}

function accumulateDirectDispatches(events) {
  forEachAccumulated(events, accumulateDirectDispatchesSingle);
}

// A small set of propagation patterns, each of which will accept a
// small amount of information, and generate a set of "dispatch ready event objects" - which
// are sets of events that have already been annotated with a set of dispatched
// listener functions/ids. The API is designed this way to
disourage these propagation strategies from actually executing the dispatches, since we always want to
collect the entire set of dispatches before executing event single one.

var EventPropagators = {
  accumulateTwoPhaseDispatches: accumulateTwoPhaseDispatches,
  accumulateTwoPhaseDispatchesSkipTarget: accumulateTwoPhaseDispatchesSkipTarget,
  accumulateDirectDispatches: accumulateDirectDispatches,
  accumulateEnterLeaveDispatches: accumulateEnterLeaveDispatches,
};
```

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accumulateEnterLeaveDispatches();

module.exports = EventPropagators;

/**
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 * Facebook, Inc.
 *
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directory of this source tree.
 */

'use strict';

var _prodInvariant = require('./reactProdInvariant');

var EventPluginRegistry = require('./EventPluginRegistry');
var EventPluginUtils = require('./EventPluginUtils');
var ReactErrorUtils = require('./ReactErrorUtils');

var accumulateInto = require('./accumulateInto');
var forEachAccumulated = require('./forEachAccumulated');
var invariant = require('fbjs/lib/invariant');

/**
 *
 * Internal store for event listeners
 */
var listenerBank = {};

/**
 * Internal queue of events that have
 * accumulated their dispatches and are
 * now waiting to have their dispatches executed.
 */
var eventQueue = null;

/**
 * Dispatches an event and releases it back into the pool, unless persistent.
 * @param {?object} event Synthetic event to be dispatched.
 * @param {boolean} simulated If the event is simulated (changes exn
 * behavior)
 */
var executeDispatchesAndRelease = function (event, simulated) {
  if (event) {
    EventPluginUtils.executeDispatchesInOrder(event, simulated);

    if (!event.isPersistent()) {
      event.constructor.release(event);
    }
  }
};

var executeDispatchesAndReleaseSimulated = function (e) {
  return executeDispatchesAndRelease(e, true);
};

var executeDispatchesAndReleaseTopLevel = function (e) {
  return executeDispatchesAndRelease(e, false);
};

var getDictionaryKey = function (inst) {
  return '.' + inst._rootNodeID;
};

function isInteractive(tag) {
  return tag === 'button' || tag === 'input' || tag === 'select' || tag === 'textarea';
}

function shouldPreventMouseEvent(name, type, props) {
  switch (name) {
    case 'onClick':
    case 'onClickCapture':
    case 'onDoubleClick':
    case 'onDoubleClickCapture':
    case 'onMouseDown':
    case 'onMouseDownCapture':
    case 'onMouseMove':
    case 'onMouseMoveCapture':
    case 'onMouseUp':
    case 'onMouseUpCapture':
      return !!(props.disabled && isInteractive(type));
    default:
      return false;
  }
}

/**
 * This is a unified interface for event plugins to be installed and configured.
 * Event plugins can
 * implement the following properties:
 *
 *   `extractEvents` {function(string, DOMEventTarget, string, object):
 *}
 *     Required. When a top-level event is fired, this method is expected to
 *     extract synthetic events that
 *     will in turn be queued and dispatched.
 *
 *   `eventTypes` {object}
 *     Optional, plugins that fire events must
 *     publish a mapping of registration
 *     names that are used to register listeners. Values of this mapping must
 *     be objects that contain `registrationName` or `phasedRegistrationNames`.
 *
 *   `executeDispatch`
 *     {function(object, function, string)}
 *     Optional, allows plugins to override how an event gets dispatched. By
 *     default, the listener is simply invoked.
 *
 * Each plugin that is injected into `EventsPluginHub` is immediately
 * operable.
 */
var EventPluginHub = {
  injection: {
    injectEventPluginOrder: EventPluginRegistry.injectEventPluginOrder,

    injectEventPluginsByName: EventPluginRegistry.injectEventPluginsByName
  },

  putListener: function (inst, registrationName, listener) {
    !(typeof listener === 'function') ? process.env.NODE_ENV !== 'production' ? invariant(false, 'Expected %s listener
to be a function, instead got type %s', registrationName, typeof listener) : _prodInvariant('94', registrationName,
    typeof listener) : void 0;

    var key = getDictionaryKey(inst);
    var bankForRegistrationName = listenerBank[registrationName][key];
    if (typeof listener === 'function') {
      process.env.NODE_ENV !== 'production' ? invariant(bankForRegistrationName !== false, 'Expected `%s` listener to be a function, instead got type `%s`', registrationName, typeof listener)
    } else {
      // DOM-specific and
definitely should not
    // live here; needs to be moved to a better place soon
    }

    var PluginModule = require('events').EventEmitter;
    if (PluginModule && &

function (inst) {
  var key = getDictionaryKey(inst);
  return bankForRegistrationName[key];
},

  /**
   * Deletes a listener from the registration bank.
   *
   * @param {object} inst The instance, which is the source of events.
   * @param {string} registrationName Name of listener (e.g. `onClick`).
   */
  deleteListener: function (inst, registrationName) {
    var PluginModule = EventPluginRegistry.registrationNameModules[registrationName];
    if (PluginModule && PluginModule.willDeleteListener) {
      PluginModule.willDeleteListener(inst, registrationName);
    }

    var bankForRegistrationName = listenerBank[registrationName];
    // TODO: This should never be null -- when is it?
    if (bankForRegistrationName) {
      var key = getDictionaryKey(inst);
      delete bankForRegistrationName[key];
      return null;
    }
    var key = getDictionaryKey(inst);
    return
  },

  /**
   * Deletes all listeners for the DOM element with the supplied ID.
   *
   * @param {object} inst The instance, which is the source of events.
   * @param {object} object Inst The instance, which is the source of events.
   * @param {string} registrationName Name of listener (e.g. `onClick`).
   */
  deleteAllListeners: function (inst, registrationName) {
    var PluginModule = EventPluginRegistry.registrationNameModules[registrationName];
    if (PluginModule && PluginModule.willDeleteListener) {
      PluginModule.willDeleteListener(inst, registrationName);
    }

    var bankForRegistrationName = listenerBank[registrationName];
    // TODO: This should never be null -- when is it?
    if (bankForRegistrationName) {
      var key = getDictionaryKey(inst);
      delete bankForRegistrationName[key];
    }
  },

  /**
   * Allows registered plugins an opportunity to extract events from top-level native browser events.
   *
   * @param {object} inst The instance, which is the source of events.
   * @param {string} registrationName Name of listener (e.g. `onClick`).
   */
  extractEvents: function (topLevelType, targetInst, nativeEvent, nativeEventTarget) {
    var events;
    var plugins = EventPluginRegistry.plugins;
    for (var i = 0; i < plugins.length; i++) {
      var possiblePlugin = plugins[i];
      if (possiblePlugin) {
        var extractedEvents = possiblePlugin.extractEvents(topLevelType, targetInst, nativeEvent, nativeEventTarget);
        if (extractedEvents) {
          events = accumulateInto(events, extractedEvents);
        }
      }
    }
    return events;
  },

  /**
   * Enqueues a synthetic event that should be dispatched when `processEventQueue` is invoked.
   *
   * @param {*} events An accumulation of synthetic events.
   * @param {object} dispatchConfig Configuration used to dispatch this event.
   * @param {object} dispatchMarker Marker identifying the event target.
   */
  enqueueEvents: function (events) {
    if (events) {
      eventQueue = accumulateInto(eventQueue, events);
    }
  },

  /**
   * Dispatches all synthetic events on the event queue.
   *
   * @param {object} eventQueue Accumulation of synthetic events.
   * @param {string} view The type of view.
   */
  processEventQueue: function (eventQueue) {
    // Set `eventQueue` to null before processing it so that we can tell if more
    // events get enqueued while processing.
    var processingEventQueue = eventQueue;
    eventQueue = null;
    if (simulated) {
      forEachAccumulated(processingEventQueue, executeDispatchesAndReleaseSimulated);
    } else {
      forEachAccumulated(processingEventQueue, executeDispatchesAndReleaseTopLevel);
    }
    !!eventQueue ? process.env.NODE_ENV !== 'production' ? invariant(false, 'processEventQueue(): Additional events were enqueued while processing an event queue. Support for this has not yet been implemented.') : _prodInvariant('95') : void 0;
    // This would be a good time to rethrow if any of the event handlers threw.
    ReactErrorUtils.rethrowCaughtError();
  },

  /**
   * These are needed for tests only. Do not use!
   */
  __purge: function () {
    listenerBank = {};
  },

  __getListenerBank: function () {
    return listenerBank;
  }
};

module.exports = EventPluginHub;

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directory of this source tree.
 *
 */

'use strict';

var SyntheticEvent = require('./SyntheticEvent');

var getEventTarget = require('./getEventTarget');

/**
 * @interface UIEvent
 * @see http://www.w3.org/TR/DOM-Level-3-Events/
 */
var UIEventInterface = {
  view: function (event) {
    if (event.view) {
      return event.view;
    }
    var target = getEventTarget(event);
    if (target.window === target) {
      // target is a window object
      return target;
    }
    var doc = target.ownerDocument;
    // TODO: Figure out why `ownerDocument` is sometimes undefined in IE8.
    if (doc) {
      if (doc.defaultView) {
        return doc.defaultView; // domParentWindow
      } else {
        return doc.window; // window
      }
    }
    detail: function (event) {
      return event.detail;
    }
  },
  detail: function (event) {
    return event.detail;
  }
};

/**
 * @param {object} dispatchConfig Configuration used to dispatch this event.
 * @param {object} dispatchMarker Marker identifying the event target.
 */
function SyntheticUIEvent(dispatchConfig, dispatchMarker) {
  return SyntheticEvent.call(this, dispatchConfig, dispatchMarker);
}
nativeEventTarget);

SyntheticEvent.augmentClass(SyntheticUIEvent, UIEventInterface);

module.exports = SyntheticUIEvent;"/

/**
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 * This API should be called 'delete' but we'd have to make sure to always
 transform these to strings for IE support. When this transform is fully
 supported we can rename it.

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 *
 */

'use

/**
 * `ReactInstanceMap` maintains a mapping from a public facing stateful
 * instance (key) and the internal representation (value). This allows public
 methods to accept the user facing methods as an argument and
 map them back to internal methods.

 module.exports = ReactInstanceMap;

 var assignValue = require('./_assignValue'),
     baseAssignValue = require('./_baseAssignValue');

 /**
 * Copies properties of `source` to `object`. 
 * `object` source The object to copy properties from.
 * `param` Array props The property identifiers to copy.
 * 
 * `param Object` [object={}]
 * The object to copy properties to.
 * `param Function` [customizer]

 The function to customize copied values.

 @returns {Object} Returns `object`. 

 function copyObject(source, props, object, customizer) {
   var isNew = !object; 
   var value = object ?
   object : props ?
   props : undefined; 
   var newLength = props.length;
   var key = props[index];
   var newValue = customizer(key, source[key], key, object, source);

   if (newValue === undefined) {
     newValue = source[key];
   }
   if (isNew) {
     baseAssignValue(object, key, newValue);
   } else {
     assignValue(object, key, newValue);
   }

   return object;

 module.exports = copyObject;

 var isSymbol = require('./isSymbol');

 /**
 * Converts `value` to a string key if it's not a string or symbol.

 @private
 * @param {*} value The value to inspect.
 * @returns {string|symbol} Returns the key.
 * @example
 * 
 * _.toKey('hi');
 * // => 'hi'
 *
 * _.toKey(123);
 * // => '123'
 */

 function toKey(value) {
   if (typeof value == 'string' || isSymbol(value)) {
     return value;
   }
   var result = (value + '');

   return (result == '0' && (1 / result) == -INFINITY) ? '-0' : result;

 module.exports = toKey;

 var isFunction = require('./isFunction'),
     isLength = require('./isLength');

 /**
 * Checks if `value` is array-like. A value is considered
 * array-like if it's not a function and has a `value.length` that's
 * not a number and has a `'value.length'` that's an integer greater than or
 * equal to 0 and less than or equal to Number.MAX_SAFE_INTEGER.`

 @param {*} value The value to check.
 * @returns {boolean} Returns `true` if `value` is array-like, else `false`.
 */

 function isArrayLike(value) {
   return value != null && isLength(value.length) && !isFunction(value);

 module.exports = isArrayLike;

 var assignValue = require('./_assignValue'),
     baseAssignValue = require('./_baseAssignValue');

 /**
 * Copies properties of `source` to `object`. 
 * `object` source The object to copy properties from.
 * `param Object` [object={}]
 * The object to copy properties to.
 * `param Function` [customizer]

 The function to customize copied values.

 @returns {Object} Returns `object`. 

 function copyObject(source, props, object, customizer) {
   var isNew = !object; 
   var value = object ?
   object : props ?
   props : undefined; 
   var newLength = props.length;
   var key = props[index];
   var newValue = customizer(key, source[key], key, object, source);

   if (newValue === undefined) {
     newValue = source[key];
   }
   if (isNew) {
     baseAssignValue(object, key, newValue);
   } else {
     assignValue(object, key, newValue);
   }

   return object;

 module.exports = copyObject;

 module.exports = function (it, TYPE) {
   if (!isObject(it) ||
   it._t !== TYPE) throw TypeError('Incompatible receiver, ' + TYPE + ' required!');
   return it;
};

 var baseGetTag = require('./_baseGetTag'),
     isObject = require('./isObject');

 /**
 * `Object#toString` result references. */

 var asyncTag = '[object AsyncFunction]',
     genTag = '[object GeneratorFunction]',
     proxyTag = '[object Proxy]';

 /**
 * Checks if `value` is classified as a `Function`

 @param {*} value The value to check.
 * @returns {boolean} Returns `true` if `value` is classified as a `Function`
 */

 function isFunction(value) {
   return isObject(value) &&
   baseGetTag(value) == funcTag;

 module.exports = isFunction;
module.exports = _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 _extends.apply(this, arguments);
};

module.exports = _extends;

// getting tag from 19.1.3.6
var cof = require('./_cof');
var TAG = require('./_wks')('toStringTag');

// fallback for IE11 Script Access
var tryGet = function (it, key) {
  try {
    return it[key];
  } catch (e) { /* empty */ }
};

module.exports = function (it) {
}

var anObject = require('./_an-object');
var IE8_DOM_DEFINE = require('./_ie8-dom-define');
var toPrimitive = require('./_to-primitive');
var dP = Object.defineProperty;

exports.f = require('./_descriptors') ? Object.defineProperty : function defineProperty(O, P, Attributes) {
  anObject(O);
  P = toPrimitive(P, true);
  anObject(Attributes);
  if (IE8_DOM_DEFINE) try {
    return dP(O, P, Attributes);
  } catch (e) { /* empty */ }
  if ('get' in Attributes || 'set' in Attributes) throw TypeError('Accessors not supported!');
  if ('value' in Attributes) O[P] = Attributes.value;
  return O;
};

var hasOwnProperty = {}.hasOwnProperty;
module.exports = function (it, key) {
  return hasOwnProperty.call(it, key);
};

// optional / simple context binding
var aFunction = require('./_a-function');
module.exports = function (fn, that, length) {
  aFunction(fn);
  if (that === undefined) return fn;
  switch (length) {
    case 1: return function (a) {
      return fn.call(that, a);
    };
    case 2: return function (a, b) {
      return fn.call(that, a, b);
    };
    case 3: return function (a, b, c) {
      return fn.call(that, a, b, c);
    };
  }
  return function (/* ...args */) {
    return fn.apply(that, arguments);
  };
};

module.exports = function (it) {
  if (typeof it != 'function') throw TypeError(it + ' is not a function!');
  return it;
};

var IObject = require('./_iobject');
var defined = require('./_defined');
module.exports = function (it) {
  return IObject(defined(it));
};

'use strict';

var classof = require('./_classof');
var builtinExec = RegExp.prototype.exec;

module.exports = function (R, S) {
  var exec = R.exec;
  if (typeof exec !== 'function') throw TypeError('Failed to execute ' + $1 + ' on ' + $2);
  var match = exec.call(R, S);
  if (match === null) return undefined;
  var type = classof(match);
  if (type === 'RegExpExec') return match;
  if (type === 'String') return builtinExec(R, S);
  if (type === 'Array') return match;
  if (type === 'Date') return R.localeCompare(S);
  throw TypeError('Unsupported type of RegExp exec output: ' + type);
};

var isCallable = function (fn) {
  return typeof fn == 'function';
};

var isPrototypeOf = function (target, proto) {
  return proto instanceof target; // only true if target is a constructor and proto is its instance
};

var isPrototypeOfCtorCheck = function (target, proto) {
  if (!isCallable(proto)) return false;
  return isPrototypeOf(target, proto)
};

var _ triggering = function (type) {
  var obj = {};
  var fn = isCallable(type) ? type : (isCallable(obj[type]) ? obj[type] : null);
  return fn
};

var toObject = function (it) {
  return isCallable(it) ? it.call() : isCallable(it) ? it.call(obj) : it;
};

var toIndexedObject = function (it) {
  var obj = isCallable(it) ? it.call() : isCallable(it) ? it.call(obj) : it;
  return obj == null ? {} : obj
};

var definition = isCallable ? _ triggering : _ triggering; // @@toSpecified

var requirement = isCallable ? _ triggering : _ triggering; // @@toPrimitive

var.WRAPPER_COUNTER = 0;

require('./es6.regexp.exec');

module.exports = function (R, S) {
  var wrap = isCallable(require('._to-primitive')) ? require('._to-primitive') : undefined;
  return wrap ? require('._to-primitive') : require('._to-primitive')
};
var nativeRegExpMethod = /./[SYMBOL];

if (regexp.exec === regexpExec) {
  if (DELEGATES_TO_SYMBOL) {
    var nativeRegExpMethod = /./[SYMBOL];
    var fns = exec(
      defined,
      SYMBOL,
      ''[KEY],
      function maybeCallNative(nativeMethod, regexp, str, arg2, forceStringMethod) {
        if (regexp.exec === regexpExec) {
          if (DELEGATES_TO_SYMBOL &&
            !forceStringMethod) {
            // The native String method already delegates to @@method (this
            // polyfilled function), leasing to infinite recursion.
            // We avoid it by directly calling the native @@method
            var strfn = fns[0];
            var var rxfn = fns[1];
            hide(RegExp.prototype, SYMBOL, length == 2
              ? function (string, arg) { return rxfn.call(string, this, arg) } : (arg => 
              function (string) { return rxfn.call(string, this); })
            );
          }
          return {
            done: true, value: nativeRegExpMethod.call(regexp, str, arg2) }
        }
      }
    );
    var strfn = fns[0];
    var var rxfn = fns[1];
    redefine(String.prototype, KEY, strfn);
    hide(RegExp.prototype, SYMBOL, length == 2
      ? function (string, arg) { return rxfn.call(string, this, arg) } : (arg => 
    function (string) { return rxfn.call(string, this); })
    );
  }
  else { // this is a native method
    return {
      done: true, value: nativeRegExpMethod.call(regexp, str, arg2) }
  }
}

var id = 0;
var px = Math.random();
module.exports = function (key) {
  return 'Symbol('.concat(key === undefined ? '' : key, ')_', (++id + px).toString(36));
};

exports.f = Object.getOwnPropertySymbols;

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 */

'use strict';

var emptyObject = {};

if (process.env.NODE_ENV !== 'production') {
  Object.freeze(emptyObject);
}

module.exports = emptyObject;
listCacheDelete;

ListCache.prototype.get = listCacheGet;
ListCache.prototype.set = listCacheSet;
ListCache.prototype.exports = ListCache;
var eq = require('./eq');

ListCache.prototype.index = function(array, key) {
  return array.length - 1;
}

ListCache.prototype.get = function(array, key) {
  return array[key] || null;
}

ListCache.prototype.has = function(array, key) {
  return array.hasOwnProperty(key);
}

ListCache.prototype.set = function(array, key, value) {
  array[key] = value;
}

module.exports = ListCache;

var eq = require('./eq');

/**
 * Gets the index at which the `key` is found in `array` of key-value pairs.
 * @param {Array} array The array to inspect.
 * @param {*} key The key to search for.
 * @returns {number} Returns the index of the matched value, else `-1`.
 */
function assocIndexOf(array, key) {
  var length = array.length;
  while (length--) {
    if (eq(array[length][0], key)) {
      return length;
    }
  }
  return -1;
}

module.exports = assocIndexOf;

var isKeyable = require('./_isKeyable');

/**
 * Gets the data for `map`.
 * @param {Object} map The map to query.
 * @param {*} key The reference key.
 * @returns {any} Returns the map data, else `null`.
 */
function getMapData(map, key) {
  var data = map.__data__;
  return isKeyable(key)
    ? data[typeof key == 'string' ? 'string' : 'hash']
    : data.map;
}

module.exports = getMapData;

var baseMatches = require('./_baseMatches'),
    baseMatchesProperty = require('./_baseMatchesProperty'),
    identity = require('./identity'),
    isArray = require('./isArray'),
    property = require('./property');

/**
 * The base implementation of `_.iteratee`.
 * @private
 * @param {*} value The value to convert to an iteratee.
 * @returns {Function} Returns the iteratee.
 */
function baseIteratee(value) {
  // Don't store the `typeof` result in a variable to avoid a JIT bug in Safari 9.
  // See https://bugs.webkit.org/show_bug.cgi?id=156034 for more details.
  if (typeof value == 'function') {
    return value;
  }
  if (value == null) {
    return identity;
  }
  if (typeof value == 'object') {
    return isArray(value)
      ? baseMatchesProperty(value[0], value[1])
      : baseMatches(value);
  }
  return property(value);
}

module.exports = baseIteratee;

/**
 * Used as references for various 'Number' constants.
 */
var MAX_SAFE_INTEGER = 9007199254740991;

/**
 * Checks if `value` is a valid array-like index.
 * @private
 * @param {*} value The value to check.
 * @param {number} [length=MAX_SAFE_INTEGER] The upper bounds of a valid index.
 * @returns {boolean} Returns `true` if `value` is a valid index, else `false`.
 */
function isIndex(value, length) {
  var type = typeof value;
  length = length == null ? MAX_SAFE_INTEGER : length;

  return !!length &&
    (type == 'number' ||
      (type != 'symbol' && reIsUint.test(value))) &&
    (value > -1 && value % 1 == 0 && value < length);
}

module.exports = isIndex;

var DataView = require('./_DataView'),
    Map = require('./_Map'),
    Promise = require('./_Promise'),
    Set = require('./_Set'),
    WeakMap = require('./_WeakMap'),
    baseGetTag = require('./_baseGetTag');

/**
 * `Object#toString` result references.
 */
var mapTag = '[object Map]',
    objectTag = '[object Object]',
    promiseTag = '[object Promise]',
    setCtorString = '[object Set]',
    weakMapCtorString = '[object WeakMap]',
    DataViewTag = '[object DataView]',
    promiseCtorString = '[object Promise]';

/**
 * Gets the `toStringTag` of `value`.
 * @private
 * @param {*} value The value to query.
 * @returns {string} Returns the `toStringTag`.
 */
var getTag = baseGetTag;

// Fallback for data views, maps, sets, and weak maps in IE 11 and promises in Node.js < 6.
function nextTick(fn, arg1, arg2, arg3) {
  if (typeof fn != 'function') {
    throw new TypeError('"callback" argument must be a function');
  }
  var len = arguments.length;
  var args, i;
  switch (len) {
    case 0:
    case 1:
      return process.nextTick(fn);
    case 2:
      return process.nextTick(fn, arg1);
    case 3:
      return process.nextTick(fn, arg1, arg2);
  }
  if (typeof arg3 != 'function') {
    throw new TypeError('"callback" argument must be a function');
  }
  return process.nextTick(fn, arg1, arg2, arg3);
}
Wrappers are extremely simple—they only require implementing two methods.

instance of a `Transaction` for reuse multiple times, that potentially is used to wrap several different methods.

transaction instance should not be run while it is already being run. You would typically create a singular

`Transaction` class itself will supply one additional automatic invariant for you—the invariant that any

method). Whoever instantiates a transaction can provide enforcers of the invariants at creation time. The `Transaction` class itself will supply one additional automatic invariant for you—the invariant that any transaction instance should not be run while it is already being run. You would typically create a singular instance of a `Transaction` for reuse multiple times, that potentially is used to wrap several different methods.

Wrappers are extremely simple—they only require implementing two methods. If you create a single

`Transaction` class itself will supply one additional automatic invariant for you—the invariant that any transaction instance should not be run while it is already being run. You would typically create a singular instance of a `Transaction` for reuse multiple times, that potentially is used to wrap several different methods.
Use cases:
- Preserving the input selection ranges before/after reconciliation.
- Restoring selection even in the event of an unexpected error.
- Deactivating events while rearranging the DOM, preventing blurs/focuses.
- Flushing a queue of collected DOM mutations to the main UI thread after a reconciliation takes place in a worker thread.
- Invoking any collected ‘componentDidUpdate’ callbacks after rendering new
content.
- (Future use case): Wrapping particular flushes of the ReactWorker queue to preserve the scrollTop (an automatic scroll aware DOM).
- (Future use case): Layout calculations before and after DOM updates.

Transactional plugin API:
- A module that has an ‘initialize’ method that returns any precomputation.
- and a ‘close’ method that accepts the precomputation. ‘close’ is invoked when the wrapped process is completed, or has failed.

Transaction transactionWrapper modules
- that implement ‘initialize’ and ‘close’.

Single transaction for reuse in thread.

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process.env.NODE_ENV !== 'production' ? invariant(false, 'Transaction.closeAll(): Cannot close transaction when none are open.') : _prodInvariant('28') : void 0; var transactionWrappers = this.transactionWrappers; for (var i = startIndex; i < transactionWrappers.length; i++) {
  var wrapper = transactionWrappers[i];
  var initData = this.wrapperInitData[i];
  var errorThrown;
  try {
    // Catching errors makes debugging more difficult, so we start with
    // errorThrown set to true before setting it to false after calling
    // close -- if it's still set to true in the finally block, it means
    // wrapper.close threw.
    errorThrown = true;
    if (initData !== OBSERVED_ERROR && wrapper.close) {
      wrapper.close.call(this, initData);
    }
    errorThrown = false;
  } finally {
    if (errorThrown) {
      // The closer for wrapper i threw an error; close the
      // remaining wrappers but wait any exceptions from them to ensure that the
      // first error is the one to bubble up.
      try {
        this.closeAll(i + 1);
      } catch (e) {} // The closer for wrapper i threw an error; close the
    }
  }
}
this.wrapperInitData.length = 0;

module.exports = TransactionImpl;
updating a just created node with innerHTML only leading\n // whitespace is removed. When updating an existing
node with innerHTML\n // whitespace in root TextNodes is also collapsed.\n // @see
quirksmode.org/bugreports/archives/2004/11/innerhtml_and_t.html\n\n // Feature detection; only IE8 is known to
behave improperly like this.\n var testElement = document.createElement('div');\n testElement.innerHTML = ' ';\n
if (testElement.innerHTML === '') {\n setInnerHTML = function (node, html) {\n
// Magic theory: IE8
supposedly differentiates between added and updated\n
// nodes when processing innerHTML, innerHTML on
updated nodes suffers\n
// from worse whitespace behavior. Re-adding a node like this triggers\n
// the initial
and more favorable whitespace behavior.\n
// TODO: What to do on a detached node?\n
if (node.parentNode)
{\n
node.parentNode.replaceChild(node, node);\n
}\n\n
// We also implement a workaround for nonvisible tags disappearing into\n
// thin air on IE8, this only happens if there is no visible text\n
// in-front of the
non-visible tags. Piggyback on the whitespace fix\n
// and simply check if any non-visible tags appear in the
source.\n
if (WHITESPACE_TEST.test(html) || html[0] === '<' && NONVISIBLE_TEST.test(html)) {\n
//
Recover leading whitespace by temporarily prepending any character.\n
// \\uFEFF has the potential advantage
of being zero-width/invisible.\n
// UglifyJS drops U+FEFF chars when parsing, so use String.fromCharCode\n
// in hopes that this is preserved even if \"\\uFEFF\" is transformed to\n
// the actual Unicode character (by
Babel, for example).\n
// https://github.com/mishoo/UglifyJS2/blob/v2.4.20/lib/parse.js#L216\n
node.innerHTML = String.fromCharCode(0xfeff) + html;\n\n
// deleteData leaves an empty `TextNode` which
offsets the index of all\n
// children. Definitely want to avoid this.\n
var textNode = node.firstChild;\n
if
(textNode.data.length === 1) {\n
node.removeChild(textNode);\n
} else {\n
textNode.deleteData(0,
1);\n
}\n
} else {\n
node.innerHTML = html;\n
}\n };\n }\n testElement =
null;\n}\n\nmodule.exports = setInnerHTML;","/**\n * Copyright (c) 2016-present, Facebook, Inc.\n *\n * This
source code is licensed under the MIT license found in the\n * LICENSE file in the root directory of this source
tree.\n *\n * Based on the escape-html library, which is used under the MIT License below:\n *\n * Copyright (c)
2012-2013 TJ Holowaychuk\n * Copyright (c) 2015 Andreas Lubbe\n * Copyright (c) 2015 Tiancheng \"Timothy\"
Gu\n *\n * Permission is hereby granted, free of charge, to any person obtaining\n * a copy of this software and
associated documentation files (the\n * 'Software'), to deal in the Software without restriction, including\n * without
limitation the rights to use, copy, modify, merge, publish,\n * distribute, sublicense, and/or sell copies of the
Software, and to\n * permit persons to whom the Software is furnished to do so, subject to\n * the following
conditions:\n *\n * The above copyright notice and this permission notice shall be\n * included in all copies or
substantial portions of the Software.\n *\n * THE SOFTWARE IS PROVIDED 'AS IS', WITHOUT WARRANTY
OF ANY KIND,\n * EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF\n
* MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT.\n * IN NO
EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY\n * CLAIM, DAMAGES
OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT,\n * TORT OR OTHERWISE, ARISING
FROM, OUT OF OR IN CONNECTION WITH THE\n * SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.\n *\n */\n\n'use strict';\n\n// code copied and modified from escape-html\n/**\n * Module
variables.\n * @private\n */\n\nvar matchHtmlRegExp = /[\"'&<>]/;\n\n/**\n * Escape special characters in the
given string of html.\n *\n * @param {string} string The string to escape for inserting into HTML\n * @return
{string}\n * @public\n */\n\nfunction escapeHtml(string) {\n var str = '' + string;\n var match =
matchHtmlRegExp.exec(str);\n\n if (!match) {\n return str;\n }\n\n var escape;\n var html = '';\n var index =
0;\n var lastIndex = 0;\n\n for (index = match.index; index < str.length; index++) {\n switch
(str.charCodeAt(index)) {\n
case 34:\n
// \"\n
escape = '&quot;';\n
break;\n
case 38:\n
// &\n
escape = '&amp;';\n
break;\n
case 39:\n
// '\n
escape = '&#x27;'; // modified from escape-html;
used to be '&#39'\n
break;\n
case 60:\n
// <\n
escape = '&lt;';\n
break;\n
case 62:\n
// >\n
escape = '&gt;';\n
break;\n
default:\n
continue;\n }\n\n if (lastIndex !== index) {\n
html +=
str.substring(lastIndex, index);\n }\n\n lastIndex = index + 1;\n html += escape;\n }\n\n return lastIndex !==
index ? html + str.substring(lastIndex, index) : html;\n}\n// end code copied and modified from escape-html\n\n/**\n
* Escapes text to prevent scripting attacks.\n *\n * @param {*} text Text value to escape.\n * @return {string} An

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touchend',
  topTouchMove: 'touchmove',
  topTouchStart: 'touchstart',
  topTransitionEnd: getVendorPrefixedEventName('transitionend') || 'transitionend',
  topVolumeChange: 'volumechange',
  topWaiting: 'waiting',
  topWheel: 'wheel'
};

/**
 * To ensure no conflicts with other potential React instances on
 * the page
 */
var topListenersIDKey = '_reactListenersID' + String(Math.random()).slice(2);

function getListeningForDocument(mountAt) {
  // In IE8, 'mountAt' is a host object and doesn't have 'hasOwnProperty'
  if (!Object.prototype.hasOwnProperty.call(mountAt, topListenersIDKey)) {
    mountAt[topListenersIDKey] = reactTopListenersCounter++;
    alreadyListeningTo[mountAt[topListenersIDKey]] = {};
  } return
}

/**
 * `ReactBrowserEventEmitter` is used to attach top-level event listeners. For
 * example:
 *
 *   EventPluginHub.putListener('myID', 'onClick', myFunction);
 *
 * This would allocate a `registration` of `('onClick', myFunction) on 'myID'.
 *
 * @param {string} registrationName Name of listener (e.g. `onClick`).
 * @param {object} contentDocumentHandle Document which owns the container
 * @return {null, undefined}
 */
function injectReactEventListener(registrationName, contentDocumentHandle) {
  var mountAt = contentDocumentHandle;
  var isListening = getListeningForDocument(mountAt);
  var dependencies = EventPluginRegistry.registrationNameDependencies[registrationName];
  var dependencies.length; i++) {
    if (!isListening.hasOwnProperty(dependency) ||
        (dependency === 'topWheel')
      ) return
    }
  } return
}

/**
 * EventPluginHub.putListener('myID', 'onMouseWheel', myFunction);
 * @param {ReactBrowserEventEmitter} ReactBrowserEventEmitter
 * @param {string} registrationName Name of listener (e.g. 'onMouseWheel')
 */
function trapBubbledEvent(registrationName, ReactBrowserEventEmitter) {
  ReactBrowserEventEmitter.ReactEventListener.trapBubbledEvent(registrationName, ReactBrowserEventEmitter.WINDOW_HANDLE);
}

ReactBrowserEventEmitter.ReactEventListener = ReactEventListener;

ReactBrowserEventEmitter.listenTo = function(registrationName, contentDocumentHandle) {
  var mountAt = contentDocumentHandle;
  var isListening = getListeningForDocument(mountAt);
  var dependencies = EventPluginRegistry.registrationNameDependencies[registrationName];
  for (var i = 0; i < dependencies.length; i++) {
    if (isListening.hasOwnProperty(dependency)) {
    if (dependency === 'topWheel') {
      if (!isEventSupported('wheel')) return
    ReactBrowserEventEmitter.ReactEventListener.trapBubbledEvent('topWheel', 'wheel', mountAt);
      } else if (!isEventSupported('mousewheel')) {
    ReactBrowserEventEmitter.ReactEventListener.trapBubbledEvent('topWheel', 'mousewheel', mountAt);
      } else { Firefox needs to capture a different mouse scroll event. @see
  http://www.quirksmode.org/dom/events/tests/scroll.html
    ReactBrowserEventEmitter.ReactEventListener.trapBubbledEvent('topWheel', 'DOMMouseScroll', mountAt);
      } else if (dependency === 'topScroll') {
    if (!isEventSupported('scroll', true)) return
    ReactBrowserEventEmitter.ReactEventListener.trapCapturedEvent('topScroll', 'scroll', mountAt);
      } else {
    ReactBrowserEventEmitter.ReactEventListener.trapBubbledEvent('topScroll', 'scroll',
    ReactBrowserEventEmitter.ReactEventListener.WINDOW_HANDLE);
  return
}
'topFocus' || dependency === 'topBlur') {
            if (isEventSupported('focus', true)) {
              ReactBrowserEventEmitter.ReactEventListener.trapCapturedEvent('topFocus', 'focus', mountAt);
              ReactBrowserEventEmitter.ReactEventListener.trapCapturedEvent('topBlur', 'blur', mountAt);
          } else if (isEventSupported('focusin')) {
            // IE has 'focusin' and 'focusout' events which bubble.
            ReactBrowserEventEmitter.ReactEventListener.trapBubbledEvent('topFocus', 'focusin', mountAt);
            ReactBrowserEventEmitter.ReactEventListener.trapBubbledEvent('topBlur', 'focusout', mountAt);
          }

          // to make sure blur and focus event listeners are only attached once
          isListening.topBlur = true;
          isListening.topFocus = true;
        } else if (topEventMapping.hasOwnProperty(dependency)) {
          ReactBrowserEventEmitter.ReactEventListener.trapBubbledEvent(dependency, topEventMapping[dependency], mountAt);
          isListening[dependency] = true;
        }
      }
    }
  },

  trapBubbledEvent: function (topLevelType, handlerBaseName, handle) {
    return ReactBrowserEventEmitter.ReactEventListener.trapBubbledEvent(topLevelType, handlerBaseName, handle);
  },

  trapCapturedEvent: function (topLevelType, handlerBaseName, handle) {
    return ReactBrowserEventEmitter.ReactEventListener.trapCapturedEvent(topLevelType, handlerBaseName, handle);
  },

  /**
   * Protect against document.createEvent() returning null
   * Some popup blocker extensions appear to do this:
   * https://github.com/facebook/react/issues/6887
   * @see http://www.quirksmode.org/blog/archives/2008/04/delegating_the.html
   */
  supportsEventPageXY: function () {
    if (!document.createEvent) {
      return false;
    }
    var ev = document.createEvent('MouseEvents');
    return ev != null && 'pageX' in ev;
  },

  /**
   * Listens to window scroll and resize events. We cache scroll values so
   * that a new application code can access them without triggering reflows.
   * @see ViewportMetrics
   */
  ensureScrollValueMonitoring: function () {
    if (hasEventPageXY === undefined) {
      hasEventPageXY = ReactBrowserEventEmitter.supportsEventPageXY();
    }
    if (!hasEventPageXY && !isMonitoringScrollValue) {
      var refresh = ViewportMetrics.refreshScrollValues;
      ReactBrowserEventEmitter.ReactEventListener.monitorScrollValue(refresh);
      isMonitoringScrollValue = true;
    }
  }
});

module.exports = ReactBrowserEventEmitter;

var isArray = require('./isArray'),
    isKey = require('./_isKey'),
    stringToPath = require('./_stringToPath'),
    toString = require('./toString');

/**
 * Casts `value` to a path array if it's not one.
 * @private
 * @param {*} value The value to inspect.
 * @param {Object} [object] The object to query keys on.
 * @returns {Array} Returns the cast property path array.
 */
function castPath(value, object) {
  if (isArray(value)) {
    return value;
  }
  return isKey(value, object) ? [value] : stringToPath(toString(value));
}

module.exports = castPath;

var baseGetTag = require('./_baseGetTag'),
    isObjectLike = require('./isObjectLike');

/**
 * Checks if `value` is classified as a `Symbol` primitive or object.
 * @static
 * @memberOf _
 * @since 4.0.0
 * @category Lang
 * @param {*} value The value to check.
 * @returns {boolean} Returns `true` if `value` is a symbol, else `false`.
 * @example
 *
 * _.isSymbol(Symbol.iterator);
 * // => true
 *
 * _.isSymbol('abc');
 * // => false
 */
function isSymbol(value) {
  return typeof value == 'symbol' ||
    (isObjectLike(value) && baseGetTag(value) == symbolTag);
}

module.exports = isSymbol;

var getNative = require('./_getNative');

/* Built-in method references that are verified to be native. */
var nativeCreate = getNative(Object, 'create');

module.exports = nativeCreate;

var listCacheClear = require('./_listCacheClear'),
    listCacheDelete = require('./_listCacheDelete'),
    listCacheGet = require('./_listCacheGet'),
    listCacheHas = require('./_listCacheHas'),
    listCacheSet = require('./_listCacheSet');

/**
 * Creates a list cache object.
 * @private
 * @constructor
 * @param {Array} [entries] The key-value pairs to cache.
 */
function ListCache(entries) {
  var index = -1,
      length = entries == null ? 0 : entries.length;

  this.clear();
  while (++index < length) {
    var entry = entries[index];
    this.set(entry[0], entry[1]);
  }
}

// Add methods to `ListCache`.
ListCache.prototype.clear = listCacheClear;
ListCache.prototype.delete = listCacheDelete;
ListCache.prototype.get = listCacheGet;
ListCache.prototype.has = listCacheHas;
ListCache.prototype.set = listCacheSet;
listCacheHas.prototype.set = listCacheSet.prototype.set;

module.exports = ListCache;

/**
 * Gets the data for `map`.
 * @private
 * @param {Object} map The map to query.
 * @param {string} key The reference key.
 * @returns {any} Returns the map data.
 */
function getMapData(map, key) {
  var data = map.__data__;
  return isKeyable(key)
    ? data[typeof key == 'string' ? 'string' : 'hash']
    : data.map;
}

module.exports = getMapData;

/**
 * Assigns `value` to `key` of `object` if the existing value is not equivalent
 * using `SameValueZero` for equality comparisons.
 * @private
 * @param {Object} object The object to modify.
 * @param {string} key The key of the property to assign.
 * @param {*} value The value to assign.
 * @returns {Object} Returns the modified object.
 */
function assignValue(object, key, value) {
  var objValue = object[key];
  if (!(hasOwnProperty.call(object, key) && eq(objValue, value)) ||
    (value === undefined && !(key in object))) {
    baseAssignValue(object, key, value);
  }
}

module.exports = assignValue;

/**
 * Checks if `value` is a valid array-like index.
 * @private
 * @param {*} value The value to check.
 * @param {number} [length=MAX_SAFE_INTEGER] The upper bounds of a valid index.
 * @returns {boolean} Returns `true` if `value` is a valid index, else `false`.
 */
function isIndex(value, length) {
  var type = typeof value;
  length = length == null ? MAX_SAFE_INTEGER : length;

  return !!length &&
    (type == 'number' ||
      (type != 'symbol' && reIsUint.test(value))) &&
        (value > -1 && value < length);}

module.exports = isIndex;

/**
 * Checks if `value` is a valid array-like index.
 * @private
 * @param {Object} object The object to check.
 * @returns {boolean} Returns `true` if `value` is a valid index, else `false`.
 */
function isIndex(value, length) {
  return !!length &&
    (type == 'number' ||
      (type != 'symbol' && reIsUint.test(value))) &&
        (value > -1 && value < length);}

module.exports = isIndex;

/**
 * Checks if `value` is a valid array-like index.
 * @private
 * @param {Object} object The object to check.
 * @returns {boolean} Returns `true` if `value` is a valid index, else `false`.
 */
function isIndex(value, length) {
  return !!length &&
    (type == 'number' ||
      (type != 'symbol' && reIsUint.test(value))) &&
        (value > -1 && value < length);}

module.exports = isIndex;
promiseTag) ||
    (ctorTag ||
        (Set && getTag(new Set) != setTag) ||
        (WeakMap && getTag(new WeakMap) != weakMapTag)) {
    getTag = function(value) {
        var result = baseGetTag(value),
            Ctor = result ==
            objectTag ? value.constructor : undefined,
            ctorTag = result ==
            constructorTag ? result : toSource(Ctor) ;

        return extendStatics(value, Ctor);
    };
}

module.exports = getTag;

�이전에 추출된 본문 정보에 대한 자연스러운 텍스트는 다음과 같습니다:

/*!
 * https://github.com/Starcounter-Jack/JSON-Patch
 * (c) 2017 Joachim Wester
 * MIT license
*/
var __extends = (this && this.__extends) || (function () {
    var extendStatics = function (d, b) {
        extendStatics = Object.setPrototypeOf ||
            ({ __proto__: [] } instanceof Array && function (d, b) {
                d.__proto__ = b; }) ||
            function (d, b) { for (var p in b) if (b.hasOwnProperty(p)) d[p] = b[p]; };
        return extendStatics(d, b);
    };
    return function (d, b) {
        extendStatics(d, b);
        function __() {
            this.constructor = d; }
        d.prototype = b === null ? Object.create(b) : (__.prototype = b.prototype, new __());
    }
})();
Object.defineProperty(exports, "__esModule", { value: true });
var _hasOwnProperty = Object.prototype.hasOwnProperty;
function hasOwnProperty(obj, key) {
    return _hasOwnProperty.call(obj, key);
}
exports.hasOwnProperty = hasOwnProperty;
function _objectKeys(obj) {
    if (Array.isArray(obj)) {
        var keys = new Array(obj.length);
        for (var k = 0; k < keys.length; k++) {
            keys[k] = "" + k;
        }
    }
    var keys = _objectKeys(obj);
    if (Object.keys) {
        return Object.keys(obj);
    }
    var keys = [];
    for (var i in obj) {
        if (hasOwnProperty(obj, i)) {
            keys.push(i);
        }
    }
    return keys;
}
exports._objectKeys = _objectKeys;

/**
* Deeply clone the object.
* https://jsperf.com/deep-copy-v-s-json-stringify-json-parse/25 (recursiveDeepCopy)
* @param  {any} obj value to clone
* @return {any} cloned obj
*/
function _deepClone(obj) {
    switch (typeof obj) {
        case "object":
            return JSON.parse(JSON.stringify(obj)); // Faster than ES5 clone - http://jsperf.com/deep-cloning-of-objects/5
        case "undefined":
            return null; // this is how JSON.stringify behaves for array items
        default:
            return obj; // no need to clone primitives
    }
}
exports._deepClone = _deepClone;

/**
* Escapes a json pointer path
* @param path The raw pointer
* @return the Escaped path
*/
function escapePathComponent(path) {
    if (path.indexOf('/') === -1 && path.indexOf('~') === -1)
        return path;
    return path.replace(/~/g, '~0').replace(/\//g, '~1');
}
exports.escapePathComponent = escapePathComponent;

/**
* Unescapes a json pointer path
* @param path The escaped pointer
* @return The unescaped path
*/
function unescapePathComponent(path) {
    return path.replace(/~1/g, '/').replace(/~0/g, '~');
}
exports.unescapePathComponent = unescapePathComponent;

function _getPathRecursive(root, obj) {
    var found;
    for (var key in root) {
        if (hasOwnProperty(root, key)) {
            if (root[key] === obj) {
                return escapePathComponent(key) + '/';
            }
            else if (typeof root[key] === 'object') {
                found = _getPathRecursive(root[key], obj);
                if (found != '') {
                    return escapePathComponent(key) + '/' + found;
                }
            }
        }
    }
    return '';
}
exports._getPathRecursive = _getPathRecursive;

function getPath(root, obj) {
    if (root === obj) {
        return '/';
    }
    var path = _getPathRecursive(root, obj);
    if (path.length) {
        throw new Error("Object not found in root");
    }
    return returnPath.replace(/(-/g, ~);.replace(/ ~/g, ~1);/n)_n.exports.escapePathComponent = escapePathComponent;
}
exports.escapePathComponent = escapePathComponent;

function hasUndefined(obj) {
    if (obj === undefined) {
        return true;
    }
    if (Array.isArray(obj)) {
        for (var i = 0, len = obj.length; i < len; i++) {
            if (hasUndefined(obj[i])) {
                return true;
            }
        }
    }
    return false;
}
exports.hasUndefined = hasUndefined;

function patchErrorMessageFormatter(message, args) {
    var messageParts = [message];
    if (var key in args) {
        var value = typeof args[key] === 'object' ? JSON.stringify(args[key], null, 2) : args[key];
    }
/*
 * OBJECT ASSIGN DEEP
 * Allows deep cloning of plain objects that contain primitives, nested plain objects, or nested
 * plain arrays.
 */

/*
 * A unified way of returning a string that describes the type of the given variable.
 */

var _typeof = typeof Symbol === "function" && typeof Symbol.iterator === "symbol" ? function (obj) {
    return typeof obj; } : function (obj) { return obj && typeof Symbol === "function" && obj.constructor === Symbol && obj !== Symbol.prototype ? "symbol" : typeof obj;
}

function getTypeOf(input) {
    if (input === null) {
        return 'null';
    } else if (typeof input === 'undefined') {
        return 'undefined';
    } else if ((typeof input === 'undefined' ? 'undefined' : _typeof(input)) === 'object') {
        return Array.isArray(input) ? 'array' : 'object';
    }

    return typeof input === 'undefined' ? 'undefined' : _typeof(input);
}

/*
 * Branching logic
 * which calls the correct function to clone the given value base on its type.
 */
function cloneValue(value) {
    if (getTypeOf(value) === 'object') {
        return quickCloneObject(value);
    }

    else if (getTypeOf(value) === 'array') {
        return quickCloneArray(value);
    }

    return value;
}

/*
 * Enumerates the given array and returns a new array, with each of its values cloned (i.e. references broken).
 */
function quickCloneArray(input) {
    return input.map(cloneValue);
}

/*
 * Enumerates the properties of the given object (ignoring the prototype chain) and returns a new object, with each of
 * its values cloned (i.e. references broken).
 */
function quickCloneObject(input) {
    var output = {};

    for (var key in input) {
        if (!input.hasOwnProperty(key)) {
            continue;
        }

        output[key] = cloneValue(input[key]);
    }

    return output;
}

/*
 * Does the actual deep merging.
 */
function executeDeepMerge(target) {


    var options = {
        arrayBehaviour: _options.arrayBehaviour || 'replace' // Can be "merge" or "replace".
    };

    var output = target || {};

    for (var oindex = 0; oindex < _objects.length; oindex++) {
        var object = _objects[oindex];
        var keys = Object.keys(object);

        for (var kindex = 0; kindex < keys.length; kindex++) {
            var key = keys[kindex];

            var value = object[key];

            var existingValue = executeDeepMerge({}, 
            quickCloneObject(value), options);

            if (type === 'array') {
                output[key] = options.arrayBehaviour === 'merge' ? output[key].concat(existingValue) : existingValue;
            } else {
                output[key] = existingValue;
            }
        }
    }

    return output;
}

/*
 * Merge all the supplied objects into the target object, breaking all references, including those of
 * nested objects and arrays, and even objects nested inside arrays. The first parameter is not mutated unlike
 * Object.assign().
 */
module.exports = function objectAssignDeep(target) {
    var _len = arguments.length, objects = Array(_len > 1 ? _len - 1 : 0), _key = 1; 
    _key < _len; _key++) {
        objects[_key - 1] = arguments[_key];
    }

    return executeDeepMerge(target, objects);
};
new object.

`module.exports.noMutate = function objectAssignDeepInto() {
  for (var _len2 = arguments.length, objects = Array(_len2), _key2 = 0; _key2 < _len2; _key2++) {
    objects[_key2] = arguments[_key2];
  }

  return executeDeepMerge({}, objects);
};`

`module.exports.noMutate = function objectAssignDeepInto() {
  for (var _len2 = arguments.length, objects = Array(_len2), _key2 = 0; _key2 < _len2; _key2++) {
    objects[_key2] = arguments[_key2];
  }

  return executeDeepMerge({}, objects);
};`

`module.exports = require("core-js/library/fn/object/create");`

`var basePick = require('./_basePick'),
    flatRest = require('./_flatRest');`

`/**
 * Creates an object composed of the picked `object` properties.
 * @static
 * @since 0.1.0
 * @memberOf _
 * @category Object
 * @param {Object} object The source object.
 * @param {...(string|string[])} [paths] The property paths to pick.
 * @returns {Object} Returns the new object.
 */
var pick = flatRest(function(object, paths) {
  return object == null ? {} : basePick(object, paths);
});`

`var assignValue = require('./_assignValue'),
copyObject = require('./_copyObject'),
createAssigner = require('./_createAssigner'),
isArrayLike = require('./isArrayLike'),
isPrototype = require('./_isPrototype'),
keys = require('./keys');`

`/** Used for built-in method references. */
var objectProto = Object.prototype;

`/** Used to check objects for own properties. */
var hasOwnProperty = objectProto.hasOwnProperty;

`/**
 * Assigns own enumerable string keyed properties of source objects to the
destination object. Source objects are applied from left to right.

 * Subsequent sources overwrite property assignments of previous sources.
 */
var assign = createAssigner(function(object, source) {
  if (isPrototype(source) || isArrayLike(source)) {
    copyObject(source, keys(source), object);
    return;
  }
  for (var key in source) {
    if (hasOwnProperty.call(source, key)) {
      assignValue(object, key, source[key]);
    }
  }
});`

`(function () {
  "use strict";

  function btoa(str) {
    var buffer;

    if (str instanceof Buffer) {
      buffer = str;
    } else {
      buffer = Buffer.from(str.toString(), 'binary');
    }

    return buffer.toString('base64');
  }

  module.exports = btoa;
}());

import React from "react"
import URL from "url-parse"

import PropTypes from "prop-types"
import { sanitizeUrl, requiresValidationURL } from "core/utils"
import win from "core/window"

export default class OnlineValidatorBadge extends React.Component {
    static propTypes = {
      getComponent: PropTypes.func.isRequired,
      getConfigs: PropTypes.func.isRequired,
      specSelectors: PropTypes.object.isRequired
    }

    constructor(props, context) {
        super(props, context)
        let { getConfigs } = props
        let { validatorUrl } = getConfigs()

        this.state = {
            url: this.getDefinitionUrl(),
        }
    }

    getDefinitionUrl = () => {
      // TODO: test this behavior by stubbing 'window.location' in an Enzyme/JSDom env
      let { specSelectors } = this.props

      const urlObject = new URL(specSelectors.url(), win.location)
      return urlObject.toString()
    }

    componentWillReceiveProps(nextProps) {
        let { getConfigs } = nextProps
        let { validatorUrl } = getConfigs()

        this.setState({
            url: this.getDefinitionUrl(),
        })
    }

    render() {
        let { getConfigs } = this.props
        let { spec } = getConfigs()

        let sanitizedValidatorUrl = sanitizeUrl(this.state.validatorUrl)

        if ( typeof spec === "object" && Object.keys(spec).length) return null

        if (!this.state.url || !requiresValidationURL(this.state.validatorUrl)) return null

        if (!requiresValidationURL(this.state.validatorUrl)) return null

        <ValidatorImage src={`$sanitizedValidatorUrl?url=${ encodeURIComponent(this.state.url) }`} alt="Online validator badge"/>

        <Valid
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```javascript
/*
 * Code
 */

rules.code = function(tokens, idx) {
  if (tokens[idx].block) {
    return '<pre><code>' + escapeHtml(tokens[idx].content) + '</code></pre>' + getBreak(tokens, idx);
  }
  return '<code>' + escapeHtml(tokens[idx].content) + '</code>';
};

/**
 * Fenced code blocks
 */

rules.fence = function(tokens, idx, options, env, instance) {
  var token = tokens[idx];
  var langClass = '',
  var langPrefix = options.langPrefix,
  var langName = '',
  fences,
  fenceName;

  if (token.params) {

    //
    // ```foo bar
    //
    // Try custom renderer "foo" first. That will simplify overwrite
    // for diagrams, latex, and any other fenced block with custom look
    // with syntax highlighting.
    //
    //
    fences = token.params.split(/\s+/g);
    fenceName = fences.join(' ');

    if (has(instance.rules.fence_custom, fences[0])) {
      return instance.rules.fence_custom[fences[0]](tokens, idx, options, env, instance);
    }

    langName = escapeHtml(replaceEntities(unescapeMd(fenceName)));
    langClass = ' class="' + langPrefix + langName + '"';
  }

  if (options.highlight) {
    highlighted = options.highlight.apply(options.highlight, [token.content].concat(fences))
      || escapeHtml(token.content);
  } else {
    highlighted = escapeHtml(token.content);
  }

  return '<pre><code' + langClass + '>'
        + highlighted
        + '</code></pre>'
        + getBreak(tokens, idx);
};

rules.fence_custom = {};

/**
 * Headings
 */

rules.heading_open = function(tokens, idx /*, options, env */) {
  return '<h' + tokens[idx].hLevel + '>
};

rules.heading_close = function(tokens, idx /*, options, env */) {
  return '</h' + tokens[idx].hLevel + '>\n';
};

/**
 * Horizontal rules
 */

rules.hr = function(tokens, idx, options /*, env */) {
  return (options.xhtmlOut ? '<hr />' : '<hr>') + getBreak(tokens, idx);
};

/**
 * Bullets
 */

rules.bullet_list_open = function(/* tokens, idx, options, env */) {
  return '<ul>\n';
};

rules.bullet_list_close = function(tokens, idx /*, options, env */) {
  return '</ul>' + getBreak(tokens, idx);
};

/**
 * List items
 */

rules.list_item_open = function(/* tokens, idx, options, env */) {
  return '<li>';
};

rules.list_item_close = function(/* tokens, idx, options, env */) {
  return '</li>\n';
};

/**
 * Ordered list items
 */

rules.ordered_list_open = function(tokens, idx /*, options, env */) {
  var token = tokens[idx];
  var order = token.order > 1 ? ' start="' + token.order + '"' : '';
  return '<ol' + order + '>\n';
};

rules.ordered_list_close = function(tokens, idx /*, options, env */) {
  return '</ol>' + getBreak(tokens, idx);
};

/**
 * Paragraphs
 */

rules.paragraph_open = function(tokens, idx /*, options, env */) {
  return tokens[idx].tight ? '' : '<p>';
};

rules.paragraph_close = function(tokens, idx /*, options, env */) {
  var addBreak = !(tokens[idx].tight && idx && tokens[idx - 1].type === 'inline' && !tokens[idx - 1].content);
  return (tokens[idx].tight ? '' : '</p>') + (addBreak ? getBreak(tokens, idx) : '');?></p>
```
return '</td>';
};

/**
 * Bold
 */

rules.strong_open = function(/* tokens, idx, options, env */) {
  return '<strong>\n';
};

rules.strong_close = function(/* tokens, idx, options, env */) {
  return '</strong>\n';
};

/**
 * Italicize
 */

rules.em_open = function(/* tokens, idx, options, env */) {
  return '<em>\n';
};

rules.em_close = function(/* tokens, idx, options, env */) {
  return '</em>\n';
};

/**
 * Strikethrough
 */

rules.del_open = function(/* tokens, idx, options, env */) {
  return '<del>\n';
};

rules.del_close = function(/* tokens, idx, options, env */) {
  return '</del>\n';
};

/**
 * Insert
 */

rules.ins_open = function(/* tokens, idx, options, env */) {
  return '<ins>\n';
};

rules.ins_close = function(/* tokens, idx, options, env */) {
  return '</ins>\n';
};

/**
 * Highlight
 */

rules.mark_open = function(/* tokens, idx, options, env */) {
  return '<mark>\n';
};

rules.mark_close = function(/* tokens, idx, options, env */) {
  return '</mark>\n';
};

/**
 * Super- and sub-script
 */

rules.sub = function(tokens, idx /*, options, env */) {
  return '<sub>' + escapeHtml(tokens[idx].content) + '</sub>';
};

rules.sup = function(tokens, idx /*, options, env */) {
  return '<sup>' + escapeHtml(tokens[idx].content) + '</sup>';
};

/**
 * Breaks
 */

rules.hardbreak = function(tokens, idx, options /*, env */) {
  return options.xhtmlOut ? '<br />\n' : '<br>\n';
};

rules.softbreak = function(tokens, idx, options /*, env */) {
  return options.breaks ? (options.xhtmlOut ? '<br />\n' : '<br>\n') : '\n';
};

/**
 * Text
 */

rules.text = function(tokens, idx /*, options, env */) {
  return escapeHtml(tokens[idx].content);
};

/**
 * Content
 */

rules.htmlblock = function(tokens, idx /*, options, env */) {
  return tokens[idx].content;
};

rules.htmltag = function(tokens, idx /*, options, env */) {
  return tokens[idx].content;
};

/**
 * Abbreviations, initialism
 */

rules.abbr_open = function(tokens, idx /*, options, env */) {
  return '<abbr title="' + escapeHtml(replaceEntities(tokens[idx].title)) + '">';
};

rules.abbr_close = function(/* tokens, idx, options, env */) {
  return '</abbr>';
};

/**
 * Footnotes
 */

rules.footnote_ref = function(tokens, idx) {
  var n = Number(tokens[idx].id + 1).toString();
  var id = 'fnref' + n;
  if (tokens[idx].subId > 0) {
    id += ':' + tokens[idx].subId;
  }
  return '<sup class="footnote-ref"><a href="#fn' + n + '" id="' + id + '">
[' + n + ']</a></sup>';
};

rules.footnote_block_open = function(tokens, idx, options) {
  var hr = options.xhtmlOut
    ? '<hr class="footnotes-sep" />\n'
    : '<hr class="footnotes-sep">\n';
  return hr + '<section class="footnotes">\n<ol class="footnotes-list">\n';
};

rules.footnote_block_close = function() {
  return '</ol>\n</section>\n';
};

rules.footnote_open = function(tokens, idx) {
  var id = Number(tokens[idx].id + 1).toString();
  return '<li id="fn' + id + '"  class="footnote-item">';
};

rules.footnote_close = function() {
  return '</li>\n';
};

rules.footnote_anchor = function(tokens, idx) {
  var n = Number(tokens[idx].id + 1).toString();
  var id = 'fnref' + n;
  if (tokens[idx].subId > 0) {
    id += ':' + tokens[idx].subId;
  }
  return ' <a href="#' + id + '" class="footnote-backref"></a>';
};

/**
 * Definition lists
 */

rules.dl_open = function() {
  return '<dl>\n';
};

rules.dt_open = function() {
  return '<dt>';
};

rules.dd_open = function() {
  return '<dd>';
};

rules.dl_close = function() {
  return '</dl>\n';
};

rules.dt_close = function() {
  return '</dt>\n';
};

rules.dd_close = function() {
  return '</dd>\n';
};

/**
 * Helper functions
 */

function nextToken(tokens, idx) {
  if (++idx >= tokens.length - 2) {
    return idx;
  }
  if ((tokens[idx].type === 'paragraph_open' && tokens[idx].tight) &&
      (tokens[idx + 1].type === 'inline' && tokens[idx + 1].content.length === 0) &&
      (tokens[idx + 2].type === 'paragraph_close' && tokens[idx + 2].tight)) {
    return nextToken(tokens, idx + 2);
  }
  return idx;
}

/**
 * Check to see if `\n` is needed before the next token.
 *
 * @param  {Array} `tokens`
 * @param  {Number} `idx`
 * @return {String} Empty string or newline
 * @api private
 */

var getBreak = rules.getBreak = function getBreak(tokens, idx) {
  idx = nextToken(tokens, idx);
  if (idx < tokens.length && tokens[idx].type === 'list_item_close') {
    return '';
  }
  return '\n';
};

/**
 * Renderer class. Renders HTML and exposes `rules` to allow
 * local modifications.
 *
 * @return {String}
 * @api public
 */

function Renderer() {
  this.rules = assign({}, rules);

  // exported helper, for custom rules only

  this.getBreak = rules.getBreak;
}

/**
 * Render a string of inline HTML with the given `tokens` and
 * `options`.
 *
 * @param  {Array} `tokens`
 * @param  {Object} `options`
 * @param  {Object} `env`
 * @return {String}
 * @api public
 */

Renderer.prototype.renderInline = function (tokens, options, env) {
  var _rules = this.rules;
  var len = tokens.length, i = 0;
  var result = '';\n
  while (len--) {
    result += _rules[tokens[i].type](tokens, i++, options, env) || ' ';
  }

  return result;
};

/**
 * Render a string of HTML with the given `tokens` and
 * `options`.
 *
 * @param  {Array} `tokens`
 * @param  {Object} `options`
 * @param  {Object} `env`
 * @return {String}
 * @api public
 */

Renderer.prototype.render = function (tokens, options, env) {
  var _rules = this.rules;
  var len = tokens.length, i = 0;
  var result = '';\n
  while (len--) {
    result += _rules[tokens[i].type](tokens, i++, options, env) || ' ';
  }

  return result;
};

/**
 * Render a string of
*/
Ruler.prototype.disable = function (list) {
  list = !Array.isArray(list)
    ? [list]
    : list;

  // Search by rules.
  *
  * @param  {String|Array} `list` Name or array of rule names to disable
  * @api private

  this.__rules__[idx].enabled = true;
  }, this);

  this.__cache__ = null;
};

/**
 * Disable a rule or list of rules.
 *
 * @param  {String|Array} `list` Name or array of rule names to disable
 * @param  {Boolean} `strict` If `true`, all non listed rules will be disabled.
 * @api private

Ruler.prototype.disable = function (list, strict) {
  list = !Array.isArray(list)
    ? [list]
    : list;

  // In strict mode disable all existing rules first
  if (strict) {
    this.__rules__.forEach(function (rule) {
      rule.enabled
      = false;
    });
  }

  // Search by name and enable
  list.forEach(function (name) {
    var idx = this.__find__(name);
    var opt = options || {};

    if (idx === -1) {
      throw new Error('Parser rule not found: ' + name);
    }

    this.__rules__[idx].fn = fn;
    this.__rules__[idx].alt = opt.alt || [];
  });
  this.__rules__ = null;
};

/**
 * Ruler is a helper class for building responsibility chains from
 * HTML with the given 'tokens' and
 * `options`. `\n` * @param  {Object} `options` `\n` * @param  {Object} `tokens` `\n` * @param  {Object} `env` `\n` * @return {Function} `\n` */

Renderer.prototype.__compile__ = function () {
  var self = this;
  var _rules = this.rules;
  var len = tokens.length, i = -1;

  while (++i < len) {
    if (tokens[i].type === 'inline') {
      result += this.renderInline(tokens[i].children, options, env);
    }
  }
  return result;
};

/**
 * Render HTML with the given `tokens` and
 * `options`. `\n` * @param  {Array} `tokens` `\n` * @param  {Object} `options` `\n` * @param  {Object} `env` `\n` * @return {String} `\n` */

Renderer.prototype.render = function (tokens, options, env) {
  var _rules = this.rules;
  var len = tokens.length, i = -1;

  var result = '+'; 
  while (++i < len) {
    if (tokens[i].type === 'inline') {
      result += this.renderInline(tokens[i].children, options, env);
    }
  }
  return result;
};

/**
 * Render HTML with the given `tokens` and
 * `options`. `\n` * @param  {Array} `tokens` `\n` * @param  {Object} `options` `\n` * @param  {Object} `env` `\n` * @return {String} `\n` */

Renderer.prototype.render = function (tokens, options, env) {
  var _rules = this.rules;
  var len = tokens.length, i = -1;

  var result = '+'; 
  while (++i < len) {
    if (tokens[i].type === 'inline') {
      result += this.renderInline(tokens[i].children, options, env);
    }
  }
  return result;
};
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```javascript
Parser state class

function StateBlock(src, parser, options, env, tokens) {
  var ch, s, start, pos, len, indent,
    i, l, rules;
  rules = this.ruler.getRules('');
  for (i = 0, l = rules.length; i < l; i++) {
    rules[i](state);
  }
}

// Shortcuts to simplify nested calls

/**
 * Process rules with the given rules
 * @api private
 */

function Core() {
  this.options = {};
  this.ruler = new Ruler();
  for (var i = 0; i < rules.length; i++) {
    this.ruler.push(rules[i][0], rules[i][1]);
  }
}

/**
 * Core
 */

function smartquotes(state) {
  /*eslint max-depth:0*/
  var i, token, text, t, pos,
      canOpen, canClose, j,Single, blkIdx, tokens,
      stack;
  if (state.tokens[blkIdx].type !== 'inline') { continue; }
  inlineTokens = state.tokens[blkIdx].children;
  for (i = 0; i < inlineTokens.length; i++) {
    token = inlineTokens[i];
    if (token.type === 'text') {
      text = token.content;
      text = replaceScopedAbbr(text);
      if (RARE_RE.test(text)) {
        text = text.replace(/\+-/g, '±');
        // .., ..., ....... -> …
      }
      token.content = text;
    }
  }
}

// Convert straight quotation marks to typographic ones

```

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state.parser.tokenize(state);\n  state.push({ type: 'link_close', level: --state.level });\n}\n}\n  state.pos = pos;\n  state.posMax = max;\n  return true;\n};\n\n// Process inline footnotes ((^[^\]])\nfunction footnote_inline(state, silent) \n{ var labelStart, labelEnd, footnoteId, oldLength, max = state.posMax, \n  start = state.pos;\n  if (start + 2 > max) \n    return false; \n  if (state.src.charCodeAt(start) !== 0x5B /* [ */) \n    return false; \n  if (state.src.charCodeAt(start + 1) !== 0x5E /* ^ */) \n    return false; \n  if (state.level >= state.options.maxNesting) \n    return false; \n  if (!state.env.footnotes) \n    return false; \n  if (state.env.footnotes.list) \n    return false; \n  state.pos = labelStart; \n  state.posMax = labelEnd; \n  \n  state.push({ \n    type: 'footnote_ref', \n    id: footnoteId, \n    level: state.level + 1, \n    oldLength: state.tokens.length, \n    state: state.parser.tokenize(state) \n  });\n  \n  state.env.footnotes.list[label] = footnoteId; \n  \n  if (typeof state.env.footnotes.refs[\',' + label] === 'undefined') \n    return false; \n  \n  if (silent) \n    return true; \n  \n  state.pos = pos; \n  state.posMax = max; \n  return true; \n};\n\n// Process footnote references (^[^\]])\nfunction footnote_ref(state, silent) \n{ \n  var label, \n      footnoteId, \n      oldLength, \n      max = state.posMax, \n      start = state.pos;\n  \n  if (start + 2 > max) \n    return false; \n  if (state.src.charCodeAt(start) !== 0x5B /* [ */) \n    return false; \n  if (state.src.charCodeAt(start + 1) !== 0x5E /* ^ */) \n    return false; \n  if (state.level >= state.options.maxNesting) \n    return false; \n  \n  labelStart = start + 2; \n  labelEnd = parseLinkLabel(state, start + 2);\n  \n  if (typeof state.env.footnotes.refs[\',' + label] === 'undefined') \n    return false; \n  \n  if (silent) \n    return true; \n  \n  state.pos = pos; \n  state.posMax = max; \n  return true; \n};\n\n// Process inline footnotes (^[^\]])\nfunction footnote_inline(state, silent) \n{ var labelStart, labelEnd, footnoteId, oldLength, max = state.posMax, \n  start = state.pos;\n  \n  if (start + 2 > max) \n    return false; \n  if (state.src.charCodeAt(start) !== 0x5B /* [ */) \n    return false; \n  if (state.src.charCodeAt(start + 1) !== 0x5E /* ^ */) \n    return false; \n  if (state.level >= state.options.maxNesting) \n    return false; \n  \n  labelStart = start + 2; \n  labelEnd = parseLinkLabel(state, start + 2);\n  \n  if (typeof state.env.footnotes.refs[\',' + label] === 'undefined') \n    return false; \n  \n  if (silent) \n    return true; \n  \n  state.pos = pos; \n  state.posMax = max; \n  return true; \n};
autolink(state, silent) {\n var tail, linkMatch, emailMatch, url, fullUrl, pos = state.pos;\n\n if
(state.src.charCodeAt(pos) !== 0x3C/* < */) { return false; }\n\n tail = state.src.slice(pos);\n\n if (tail.indexOf('>')
< 0) { return false; }\n\n linkMatch = tail.match(AUTOLINK_RE);\n\n if (linkMatch) {\n if
(url_schemas.indexOf(linkMatch[1].toLowerCase()) < 0) { return false; }\n\n url = linkMatch[0].slice(1, -1);\n
fullUrl = normalizeLink(url);\n if (!state.parser.validateLink(url)) { return false; }\n\n if (!silent) {\n
state.push({\n
type: 'link_open',\n
href: fullUrl,\n
level: state.level\n
});\n
state.push({\n
type:
'text',\n
content: url,\n
level: state.level + 1\n
});\n
state.push({ type: 'link_close', level: state.level
});\n }\n\n state.pos += linkMatch[0].length;\n return true;\n }\n\n emailMatch = tail.match(EMAIL_RE);\n\n
if (emailMatch) {\n\n url = emailMatch[0].slice(1, -1);\n\n fullUrl = normalizeLink('mailto:' + url);\n if
(!state.parser.validateLink(fullUrl)) { return false; }\n\n if (!silent) {\n
state.push({\n
type: 'link_open',\n
href: fullUrl,\n
level: state.level\n
});\n
state.push({\n
type: 'text',\n
content: url,\n
level:
state.level + 1\n
});\n
state.push({ type: 'link_close', level: state.level });\n }\n\n state.pos +=
emailMatch[0].length;\n return true;\n }\n\n return false;\n}\n\n// Regexps to match html elements\n\nfunction
replace$1(regex, options) {\n regex = regex.source;\n options = options || '';\n\n return function self(name, val) {\n
if (!name) {\n
return new RegExp(regex, options);\n }\n val = val.source || val;\n regex =
regex.replace(name, val);\n return self;\n };\n}\n\n\nvar attr_name = /[a-zA-Z_:][a-zA-Z0-9:._-]*/;\n\nvar
unquoted
= /[^\"'=<>`\\x00-\\x20]+/;\nvar single_quoted = /'[^']*'/;\nvar double_quoted = /\"[^\"]*\"/;\n\n/*eslint
no-spaced-func:0*/\nvar attr_value = replace$1(/(?:unquoted|single_quoted|double_quoted)/)\n
('unquoted', unquoted)\n
('single_quoted', single_quoted)\n
('double_quoted',
double_quoted)\n
();\n\nvar attribute = replace$1(/(?:\\s+attr_name(?:\\s*=\\s*attr_value)?)/)\n
('attr_name', attr_name)\n
('attr_value', attr_value)\n
();\n\nvar open_tag =
replace$1(/<[A-Za-z][A-Za-z0-9]*attribute*\\s*\\/?>/)\n
('attribute', attribute)\n
();\n\nvar
close_tag = /<\\/[A-Za-z][A-Za-z0-9]*\\s*>/;\nvar comment = /<!---->|<!--(?:-?[^>-])(?:-?[^-])*-->/;\nvar
processing = /<[?].*?[?]>/;\nvar declaration = /<![A-Z]+\\s+[^>]*>/;\nvar cdata
=
/<!\\[CDATA\\[[\\s\\S]*?\\]\\]>/;\n\nvar HTML_TAG_RE =
replace$1(/^(?:open_tag|close_tag|comment|processing|declaration|cdata)/)\n ('open_tag', open_tag)\n ('close_tag',
close_tag)\n ('comment', comment)\n ('processing', processing)\n ('declaration', declaration)\n ('cdata', cdata)\n
();\n\n// Process html tags\n\n\nfunction isLetter$2(ch) {\n /*eslint no-bitwise:0*/\n var lc = ch | 0x20; // to lower
case\n return (lc >= 0x61/* a */) && (lc <= 0x7a/* z */);\n}\n\n\nfunction htmltag(state, silent) {\n var ch, match,
max, pos = state.pos;\n\n if (!state.options.html) { return false; }\n\n // Check start\n max = state.posMax;\n if
(state.src.charCodeAt(pos) !== 0x3C/* < */ ||\n
pos + 2 >= max) {\n return false;\n }\n\n // Quick fail on
second char\n ch = state.src.charCodeAt(pos + 1);\n if (ch !== 0x21/* ! */ &&\n
ch !== 0x3F/* ? */ &&\n
ch
!== 0x2F/* / */ &&\n
!isLetter$2(ch)) {\n return false;\n }\n\n match =
state.src.slice(pos).match(HTML_TAG_RE);\n if (!match) { return false; }\n\n if (!silent) {\n state.push({\n
type: 'htmltag',\n
content: state.src.slice(pos, pos + match[0].length),\n
level: state.level\n });\n }\n state.pos
+= match[0].length;\n return true;\n}\n\n// Process html entity - &#123;, &#xAF;, &quot;, ...\n\n\nvar
DIGITAL_RE = /^&#((?:x[a-f0-9]{1,8}|[0-9]{1,8}));/i;\nvar NAMED_RE = /^&([a-z][a-z09]{1,31});/i;\n\n\nfunction entity(state, silent) {\n var ch, code, match, pos = state.pos, max = state.posMax;\n\n if
(state.src.charCodeAt(pos) !== 0x26/* & */) { return false; }\n\n if (pos + 1 < max) {\n ch =
state.src.charCodeAt(pos + 1);\n\n if (ch === 0x23 /* # */) {\n
match =
state.src.slice(pos).match(DIGITAL_RE);\n
if (match) {\n
if (!silent) {\n
code =
match[1][0].toLowerCase() === 'x' ? parseInt(match[1].slice(1), 16) : parseInt(match[1], 10);\n
state.pending
+= isValidEntityCode(code) ? fromCodePoint(code) : fromCodePoint(0xFFFD);\n
}\n
state.pos +=
match[0].length;\n
return true;\n
}\n } else {\n
match = state.src.slice(pos).match(NAMED_RE);\n
if
(match) {\n
var decoded = decodeEntity(match[1]);\n
if (match[1] !== decoded) {\n
if (!silent) {
state.pending += decoded; }\n
state.pos += match[0].length;\n
return true;\n
}\n
}\n }\n }\n\n if
(!silent) { state.pending += '&'; }\n state.pos++;\n return true;\n}\n\n/**\n * Inline Parser `rules`\n */\n\nvar
_rules$2 = [\n [ 'text',
text ],\n [ 'newline',
newline ],\n [ 'escape',
escape ],\n [ 'backticks',

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// Highlighter function. Should return escaped HTML
    // or "" if input not
    function validateLink(url) {
      var BAD_PROTOCOLS = ['vbscript', 'javascript', 'file', 'data'];
      var str = url.trim().toLowerCase();
      // Care about digital entities "javascript:alert(1)"
      str = replaceEntities(str);
      // Checking for bad protocols.
      if (str.indexOf(':') !== -1 && BAD_PROTOCOLS.indexOf(str.split(':')[0]) !== -1) {
        return false;
      }
      return true;
    }

  var env = {};
  env.options = options;
  env.changes = false;
  env.currentBlock = '';
Remarkable.prototype.parseInline = function (str, env) {
  var state = new StateCore(this, str, env);
  this.core.process(state);
  return state.tokens;
};

/**
 * Render a single content
 */

Remarkable.prototype.parseInline = function (str, env) {
  var state = new StateCore(this, str, env);
  // Render content
  return this.renderer.render(this.parse(str, env), this.options, env);
};

/**
 * Parse the given content `string` as a single
 */

Remarkable.prototype.render = function (str, env) {
  env = env || {};
  return this.renderer.render(this.parse(str, env), this.options, env);
};

/**
 * The main `.render()` method that does all the magic :)
 *
 * @param  {String} `string`
 * @param  {Object} `env`
 * @return {Array} Array of tokens
 */

Remarkable.prototype.render = function (str, env) {
  env = env || {};
  return this.renderer.render(this.parse(str, env), this.options, env);
};

/*
 * The `StateCore` class manages state.
 *
 * @param {Object} `instance` Remarkable instance
 * @param {String} `preset` If no preset is given, `default` is used.
 * @return {Object} `Remarkable` for chaining
 */

function Remarkable(preset, options) {
  if (typeof preset !== 'string') {
    options = options || {};
  }
  if (options && options.linkify != null) {
    console.warn('linkify option
    Use linkify plugin instead:\n\n' +
      'import Remarkable from \'remarkable\';\n' +
      'import linkify from \'remarkable/linkify\';\n' +
      'new Remarkable().use(linkify)\n'
    );
  }

  this.ruler    = new Ruler();
  this.block    = new ParserBlock();
  this.core     = new Core();
  this.renderer = new Renderer();

  this.options  = {};
  this.configure(config[preset]);
  this.set(options || {});

  return this;
};

/**
 * Set options as an alternative to passing them
 * to the constructor.
 *
 * ```js
 * var md = new Remarkable();
 *
 * md.set({typographer: true});
 * ```
 * @api public

function Remarkable(preset, options) {
  if (typeof preset !== 'string') {
    options = options || {};
  }
  if (options && options.linkify != null) {
    console.warn('linkify option
    Use linkify plugin instead:\n\n' +
      'import Remarkable from \'remarkable\';\n' +
      'import linkify from \'remarkable/linkify\';\n' +
      'new Remarkable().use(linkify)\n'
    );
  }

  this.ruler    = new Ruler();
  this.block    = new ParserBlock();
  this.core     = new Core();
  this.renderer = new Renderer();

  this.options  = {};
  this.configure(config[preset]);
  this.set(options || {});

  return this;
};

/**
 * The `StateCore` class manages state.
 *
 * @param {Object} `instance` Remarkable instance
 * @param {String} `preset` If no preset is given, `default` is used.
 * @return {Object} `Remarkable` for chaining
 */

function Remarkable(preset, options) {
  if (typeof preset !== 'string') {
    options = options || {};
  }
  if (options && options.linkify != null) {
    console.warn('linkify option
    Use linkify plugin instead:\n\n' +
      'import Remarkable from \'remarkable\';\n' +
      'import linkify from \'remarkable/linkify\';\n' +
      'new Remarkable().use(linkify)\n'
    );
  }

  this.ruler    = new Ruler();
  this.block    = new ParserBlock();
  this.core     = new Core();
  this.renderer = new Renderer();

  this.options  = {};
  this.configure(config[preset]);
  this.set(options || {});

  return this;
}
### Open Source Used in Cisco Modeling Labs 2.2

1. **Autolinker**
   - **Purpose**: Used to build and modify HTML tags programmatically.
   - **License**: MIT
   - **Description**: A JavaScript library for generating HTML tags from strings.

2. **Remarkable**
   - **Purpose**: A node.js markdown parser.
   - **License**: MIT
   - **Description**: A powerful markdown parser that supports advanced features like tables and lists.

### Examples

- **Example 1**
  - **Description**: Instantiating Autolinker to create an anchor string.
  ```javascript
  var tag = new Autolinker.HtmlTag();
  var dest = { a: 'Google' };
  tag.toAnchorString();
  ```

- **Example 2**
  - **Description**: Use of Remarkable for rendering Markdown strings.
  ```javascript
  const remarkable = require('remarkable');
  const result = remarkable().render('Hello, world!');
  ```

These libraries are essential for developers working on Cisco Modeling Labs 2.2, providing powerful tools for HTML manipulation and Markdown rendering.
"./truncate/truncate-middle":\nimport { truncateEnd } from './truncate/truncate-end':\n/**
 * @protected
 *
 * @class Autolinker.AnchorTagBuilder
 * @extends Object
 * @constructor
 *
 * @param {Object} [cfg] The configuration options for the AnchorTagBuilder
 * instance, specified in an Object (map).
 *
 * @cfg {Boolean} newWindow
 * @inheritdoc Autolinker#newWindow
 *
 * @cfg {Object} truncate
 * @inheritdoc Autolinker#truncate
 *
 * @cfg {String} className
 * @inheritdoc Autolinker#className
 *
 * @constructor
 * @param {Object} [cfg] The configuration options for the AnchorTagBuilder
 * instance, specified in an Object (map).
 *
 * @cfg {Boolean} newWindow
 * @inheritdoc Autolinker#newWindow
 *
 * @cfg {Object} truncate
 * @inheritdoc Autolinker#truncate
 *
 * @cfg {String} className
 * @inheritdoc Autolinker#className
 *
 * @constructor
 * @param {Object} [cfg] The configuration options for the AnchorTagBuilder
 * instance, specified in an Object (map).
 *
 * @cfg {Boolean} newWindow
 * @inheritdoc Autolinker#newWindow
 *
 * @cfg {Object} truncate
 * @inheritdoc Autolinker#truncate
 *
 * @cfg {String} className
 * @inheritdoc Autolinker#className
 *
 * @construct
function truncateMiddle(url, truncateLen, ellipsisChars) {
    if (url.length <= truncateLen) {
        return url;
    }
    var ellipsisLengthBeforeParsing;
    var ellipsisLength;
    if (ellipsisChars == null) {
        ellipsisChars = '…';
        ellipsisLengthBeforeParsing = 8;
        ellipsisLength = 3;
    }
    else {
        ellipsisLengthBeforeParsing = ellipsisChars.length;
        ellipsisLength = ellipsisChars.length;
    }
    var availableLength = truncateLen - ellipsisLength;
    var end = "";
    if (availableLength > 0) {
        end = url.substr((-1) * Math.floor(availableLength / 2));
    }
    return (url.substr(0, Math.ceil(availableLength / 2)) + ellipsisChars + end).substr(0, availableLength + ellipsisLengthBeforeParsing);
}

/**
 * Date: 2015-10-05
 * Author: Kasper Søfren <soefritz@gmail.com> (https://github.com/kafoso)
 *
 * A truncation feature, where the ellipsis will be placed in the dead-center of the URL.
 * @param {String} url A URL.
 * @param {Number} truncateLen The maximum length of the truncated output URL string.
 * @param {String} ellipsisChars The characters to place within the url, e.g. "..".
 * @return {String} The truncated URL.
 */
export function truncateMiddle(url, truncateLen, ellipsisChars) {
    if (url.length <= truncateLen) {
        return url;
    }
    var ellipsisLengthBeforeParsing;
    var ellipsisLength;
    if (ellipsisChars == null) {
        ellipsisChars = '…';
        ellipsisLengthBeforeParsing = 8;
        ellipsisLength = 3;
    }
    else {
        ellipsisLengthBeforeParsing = ellipsisChars.length;
        ellipsisLength = ellipsisChars.length;
    }
    var availableLength = truncateLen - ellipsisLength;
    var end = "";
    if (availableLength > 0) {
        end = url.substr((-1) * Math.floor(availableLength / 2));
    }
    return (url.substr(0, Math.ceil(availableLength / 2)) + ellipsisChars + end).substr(0, availableLength + ellipsisLengthBeforeParsing);
}

//

Source: https://github.com/kafoso/Truncate-Middle
this.__jsduckDummyDocProp = null; // property used just to get the above doc comment into the ES5 output and documentation generator

/**
 * @cfg {String} matchedText (required)
 *
 * The original text that was matched by the {@link Autolinker.matcher.Matcher}.
 */
this.matchedText = ''; // default value just to get the above doc comment in the ES5 output and documentation generator

/**
 * @cfg {Number} offset (required)
 *
 * The offset of where the match was made in the input string.
 */
this.offset = 0; // default value just to get the above doc comment in the ES5 output and documentation generator

this.tagBuilder = cfg.tagBuilder;
this.matchedText = cfg.matchedText;
this.offset = cfg.offset;

/**
 * Returns the original text that was matched.
 */
Match.prototype.getMatchedText = function () {
    return this.matchedText;
};

/**
 * Sets the HTML input string, and thus if using { @link Autolinker#parse} (rather than calling a { @link Autolinker.matcher.Matcher} directly), then this offset is corrected after the Matcher itself has done its job.
 */
Match.prototype.setOffset = function (offset) {
    this.offset = offset;
};

/**
 * Returns the offset of where the match was made in the input string.
 */
Match.prototype.getOffset = function () {
    return this.offset;
};

/**
 * Returns the CSS class suffix(es) for this match.
 *
 * A CSS class suffix is appended to the {@link Autolinker#className} in order to facilitate better styling options for different match criteria. See { @link Autolinker.match.Mention} for an example.
 *
 * By default, this method returns a single array with the match's {#getType type} name, but may be overridden by subclasses.
 */
Match.prototype.getCssClassSuffixes = function () {
    return [this.getType()];
};

/**
 * Builds and returns an {@link Autolinker.HtmlTag} instance based on the Match.
 *
 * This can be used to easily generate anchor tags from matches, and either return their HTML string, or modify them before doing so.
 */
Match.prototype.buildTag = function () {
    return this.tagBuilder.build(this);
};
function __read(o, n) {
    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 };
        }
    };
}

function __spread() {
    for (var ar = [], i = 0; i < arguments.length; i++)
        ar = ar.concat(__read(arguments[i]));
    return ar;
}

export function __exportStar(m, exports) {
    for (var p in m)
        if (Object.prototype.hasOwnProperty.call(m, p))
            exports[p] = m[p];
}

function __extends(d, b) {
    __extends = extendStatics || ((d = {})
        && (typeof Object.create === "function"
            && (g = Object.create(b)) ||
            ({ __proto__: b } instanceof Array
                && function (d, b) { d.__proto__ = b; }) ||
            function (d, b) { for (var p in b)
                if (Object.prototype.hasOwnProperty.call(b, p))
                    d[p] = b[p]; })
        || function (d, b) {
            if (typeof b === "function" &&
                (g = b.prototype) &&
                (r = extendStatics(d, b, p => new (typeof g === "function" &&
                    (o = g.call(this, arguments[0])) ||
                    (t = typeof Symbol === "function" &&
                        Symbol.iterator) ?
                    (o = new (Symbol.iterator ? Array : Function.call)
                        .bind(Function.prototype, 0).call(o)) ||
                    function () {
                        throw new TypeError("Generator is already
                            executing.");
                    })
                )
            )
            while (c && (n = i--)) if (o && (t = o[i] = r &&
                (t = t.call(o, i)) ? t : (n = i = 0)) &&
                if (t && (t = n = 0))
            break; };
            return t ? __assign.apply(this, arguments) :
                __assign(o, (t = n = 0) ? void 0 : (t = n = 0)
                    || (n = Object.create(b) ||
                        (Function.call(function () { return this; })
                            .bind(null) || function () { return this; }
                            )())
                    )
                    .apply(o, arguments);
        };

        return __extends(d, b);"}
import { UrlMatch } from "../match/url-match";
import { UrlMatchValidator } from "./url-match-validator";
import { Matcher } from "./matcher";
import { alphaNumericCharsStr, EmailAddress, EmailMatch } from "match";

export { EmailMatch };

// Promis...
its RegExp \n// objects each time (which is very expensive - see
https://github.com/gregjacobs/Autolinker.js/issues/314). \n// See descriptions of the properties where they are used
for details about them\nvar matcherRegex = (function () {\n var schemeRegex = /(?:[A-Za-z][-.+A-Za-z09]{0,63}:(?![A-Za-z][-.+A-Za-z0-9]{0,63}:\\/\\/)(?!\\d+\\/?)(?:\\/\\/)?)/, // match protocol, allow in format \"http://\"
or \"mailto:\". However, do not match the first part of something like 'link:http://www.google.com' (i.e. don't match
\"link:\"). Also, make sure we don't interpret 'google.com:8000' as if 'google.com' was a protocol here (i.e. ignore a
trailing port number in this regex)\n wwwRegex = /(?:www\\.)/, // starting with 'www.'\n // Allow optional path,
query string, and hash anchor, not ending in the following characters: \"?!:,.;\"\n //
alphaNumericAndMarksCharsStr + '\\\\-+&@#/%=~_()|\\'$*\\\\[\\\\]{}?!:,.;^\\u2713]*[' +
alphaNumericAndMarksCharsStr + '\\\\-+&@#/%=~_()|\\'$*\\\\[\\\\]{}\\u2713])?');\n return new RegExp([\n
'(?:',\n
'(',\n
schemeRegex.source,\n
getDomainNameStr(2),\n
')',\n
'|',\n
'(',\n
'(//)?',\n
wwwRegex.source,\n
getDomainNameStr(6),\n
')',\n
'|',\n
'(',\n
'(//)?',\n
getDomainNameStr(10) + '\\\\.',\n
tldRegex.source,\n
'(?![-' + alphaNumericCharsStr + '])',\n
')',\n
')',\n
'(?::[0-9]+)?',\n
'(?:' + urlSuffixRegex.source + ')?' // match for path, query string, and/or hash anchor optional\n ].join(\"\"), 'gi');\n})();\nvar wordCharRegExp = new RegExp('[' + alphaNumericAndMarksCharsStr +
']');\n/**\n * @class Autolinker.matcher.Url\n * @extends Autolinker.matcher.Matcher\n *\n * Matcher to find
URL matches in an input string.\n *\n * See this class's superclass ({@link Autolinker.matcher.Matcher}) for more
details.\n */\nvar UrlMatcher = /** @class */ (function (_super) {\n tslib_1.__extends(UrlMatcher, _super);\n
/**\n * @method constructor\n * @param {Object} cfg The configuration properties for the Match instance,\n
* specified in an Object (map).\n */\n function UrlMatcher(cfg) {\n
var _this = _super.call(this, cfg) ||
this;\n
/**\n
* @cfg {Object} stripPrefix (required)\n
*\n
* The Object form of {@link
Autolinker#cfg-stripPrefix}.\n
*/\n
_this.stripPrefix = { scheme: true, www: true }; // default value just to
get the above doc comment in the ES5 output and documentation generator\n
/**\n
* @cfg {Boolean}
stripTrailingSlash (required)\n
* @inheritdoc Autolinker#stripTrailingSlash\n
*/\n
_this.stripTrailingSlash = true; // default value just to get the above doc comment in the ES5 output and
documentation generator\n
/**\n
* @cfg {Boolean} decodePercentEncoding (required)\n
*
@inheritdoc Autolinker#decodePercentEncoding\n
*/\n
_this.decodePercentEncoding = true; // default
value just to get the above doc comment in the ES5 output and documentation generator\n
/**\n
*
@protected\n
* @property {RegExp} matcherRegex\n
*\n
* The regular expression to match URLs
with an optional scheme, port\n
* number, path, query string, and hash anchor.\n
*\n
* Example
matches:\n
*\n
* http://google.com\n
* www.google.com\n
*
google.com/path/to/file?q1=1&q2=2#myAnchor\n
*\n
*\n
* This regular expression will have the
following capturing groups:\n
*\n
* 1. Group that matches a scheme-prefixed URL (i.e.
'http://google.com').\n
* This is used to match scheme URLs with just a single word, such as\n
*
'http://localhost', where we won't double check that the domain name\n
* has at least one dot ('.') in it.\n
* 2. Group that matches a 'www.' prefixed URL. This is only matched if the\n
* 'www.' text was not prefixed
by a scheme (i.e.: not prefixed by\n
* 'http://', 'ftp:', etc.)\n
* 3. A protocol-relative ('//') match for the
case of a 'www.' prefixed\n
* URL. Will be an empty string if it is not a protocol-relative match.\n
*
We need to know the character before the '//' in order to determine\n
* if it is a valid match or the // was in a
string we don't want to\n
* auto-link.\n
* 4. Group that matches a known TLD (top level domain), when
a scheme\n
* or 'www.'-prefixed domain is not matched.\n
* 5. A protocol-relative ('//') match for the
case of a known TLD prefixed\n
* URL. Will be an empty string if it is not a protocol-relative match.\n
* See #3 for more info.\n
*/\n
_this.matcherRegex = matcherRegex;\n
/**\n
* A regular
expression to use to check the character before a protocol-relative\n
* URL match. We don't want to match a
protocol-relative URL if it is part\n
* of another word.\n
*\n
* For example, we want to match
something like \"Go to: //google.com\",\n
* but we don't want to match something like \"abc//google.com\"\n
*\n
* This regular expression is used to test the character before the '//'.\n
*\n
* @protected\n
*

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/* Determines if a match found has an unmatched closing parenthesis, URL * will be removed from the match, and appended after the generated anchor tag. If so, the symbol will be removed. A match may have an extra closing parenthesis at the end of the match because the regular expression must include parenthesis for URLs such as URL * will be included when the URL itself is wrapped in parenthesis, as in the case of Wikipedia.com/something_(disambiguation). In this case, the
last closing parenthesis should *not* be part of the
* URL itself, and this method will return `true`.
* For square brackets in URLs such as in PHP arrays, the same behavior as
* parenthesis discussed above should happen:

```
* "[http://www.example.com/foo.php?bar[]=1&bar[]=2&bar[]=3]"
* The closing square
* bracket should not be part of the URL itself, and this method will return `true`.
* @param {String} matchStr The full match string from the
* @link #matcherRegex) `true` if there is an unbalanced closing parenthesis or
* square bracket at the end of the `matchStr`, `false` otherwise.
```

```javascript
tslib_1.__extends(HashtagMatch, _super);
/**
 * @method constructor
 * @param {Object} cfg The
 */
var HashtagMatch = /** @class */ (function (_super) {
    function HashtagMatch(cfg) {
        var _this = _super.call(this, cfg) || this;
        /**
         * @cfg {String} serviceName
         *
         * The service to point hashtag matches to. See
         * @link Autolinker#hashtag
         * for available
         * @param {String} matchStr The full match string from the
         * @link #matcherRegex) `true` if there is an unbalanced closing parenthesis or
         * square bracket at the end of the `matchStr`, `false` otherwise.
         */
         var endChar = matchStr.charAt(matchStr.length - 1);<br>```
@return {String} *\n     HashtagMatch.prototype.getServiceName = function () {
         return this.serviceName;
     };
 */
 */\n     * Returns the matched hashtag, without the '#' character.
     */
    HashtagMatch.prototype.getServiceName = function () {
        return this.serviceName;
    };
    /**
     * Returns the anchor href that should be generated for the match.
     */
    HashtagMatch.prototype.getAnchorHref = function () {
        var serviceName = this.serviceName, hashtag = this.hashtag;
        switch (serviceName) {
            case 'twitter':
                return 'https://twitter.com/hashtag/' + hashtag;
            case 'facebook':
                return 'https://www.facebook.com/hashtag/' + hashtag;
            case 'instagram':
                return 'https://instagram.com/explore/tags/' + hashtag;
            default: // Shouldn't happen because Autolinker's constructor should block any invalid values, but just in case.
                throw new Error('Unknown service name to point hashtag to: ' + serviceName);
        }
    };
    /**
     * Returns the anchor text that should be generated for the match.
     */
    HashtagMatch.prototype.getAnchorText = function () {
        return '#' + this.hashtag;
    };
    return HashtagMatch;
}(Match));
export { HashtagMatch };

//# sourceMappingURL=hashtag-match.js.map

import * as tslib_1 from "tslib";
import { Match } from "./match";
/**
 * @class
 * Autolinker.match.Mention
 * @extends Autolinker.match.Match
 *
 * Represents a Mention match found in an input string which should be Autolinked. See class's superclass ({@link Autolinker.match.Match}) for more details.
 */
var MentionMatch = /** @class */ (function (_super) {
    tslib_1.__extends(MentionMatch, _super);
    /**
     * @method constructor
     * @param {Object} cfg The configuration properties for the Match instance, specified in an Object (map).
     */
    function MentionMatch(cfg) {
        var _this = _super.call(this, cfg) || this;
        /**
         * @cfg {String} serviceName
         *
         * The service to point mention matches to. See {@link Autolinker#mention} for available values.
         */
        _this.serviceName = 'twitter'; // default value just to get the above doc comment in the ES5 output and documentation generator
        /**
         * @cfg {String} mention (required)
         *
         * The Mention that was matched, without the '@' character.
         */
        _this.mention = ''; // default value just to get the above doc comment in the ES5 output and documentation generator
        _this.mention = cfg.mention;
        _this.serviceName = cfg.serviceName;
        return _this;
    }
    /**
     * Returns a string name for the type of match that this class represents.
     * For the case of MentionMatch, returns 'mention'.
     *
     * @return {String}
     */
    MentionMatch.prototype.getType = function () {
        return 'mention';
    };
    /**
     * Returns the mention, without the '@' character.
     *
     * @return {String}
     */
    MentionMatch.prototype.getMention = function () {
        return this.mention;
    };
    /**
     * Returns the configured { @link #serviceName} to point the mention to. See {@link Autolinker.match.Match#getType} to get the above doc comment in the ES5 output and documentation generator
     *
     * @return {String|
     */
    MentionMatch.prototype.getServiceName = function () {
        return this.serviceName;
    };
    /**
     * Returns the anchor href that should be generated for the match.
     */
    MentionMatch.prototype.getAnchorHref = function () {
        switch (this.serviceName) {
            case 'twitter':
                return 'https://twitter.com/' + this.mention;
            case 'instagram':
                return 'https://instagram.com/' + this.mention;
            case 'soundcloud':
                return 'https://soundcloud.com/' + this.mention;
            default: // Shouldn't happen because Autolinker's constructor should block any invalid values, but just in case.
                throw new Error('Unknown service name to point mention to: ' + this.serviceName);
        }
    };
    /**
     * Returns the anchor text that should be generated for the match.
     */
    MentionMatch.prototype.getAnchorText = function () {
        return '@' + this.mention;
    };
    /**
     * Returns the CSS class suffixes that should be used on a tag built with the match. See {@link Autolinker.match.Match#getCssClassSuffixes} for more details.
     */
    MentionMatch.prototype.getCssClassSuffixes = function () {
        var cssClassSuffixes = _super.prototype.getCssClassSuffixes.call(this), serviceName = this.getServiceName();
        if (serviceName) {
            cssClassSuffixes.push(serviceName);
        } else {
            return cssClassSuffixes;
        }
        return cssClassSuffixes;
    };
    return MentionMatch;
}(Match));
export { MentionMatch };

//# sourceMappingURL=mention-match.js.map

import * as tslib_1 from "tslib";
import { Match } from "./match";
/**
 * @class
 * Autolinker.match.Phone
 * @extends Autolinker.match.Match
 *
 * Represents a Phone number match found in
The `url`, with the `www` stripped.

```javascript
UrlMatch.prototype.stripWwwPrefix = function (url) { return url.replace(this.wwPrefixRegex, '\$1'); };
/**
 * Strips any protocol-relative `//` from the anchor text.
 * @param {String} text The text of the anchor that is being generated, for which to strip off the
 * protocol-relative prefix (such as stripping off `//`)
 * @return {String} The `anchorText`, with the protocol-relative prefix stripped.
 */
UrlMatch.prototype.stripProtocolRelativePrefix = function (text) {
    return text.replace(this.protocolRelativeRegex, '');
}
/**
 * Removes any trailing slash from the given `anchorText`, in preparation for the text to be displayed.
 * @return {String} The `anchorText`, with any trailing slash removed.
 */
UrlMatch.prototype.removeTrailingSlash = function (anchorText) {
    if (anchorText.charAt(anchorText.length - 1) === '/') {
        anchorText = anchorText.slice(0, -1);
    }
    return anchorText;
}
/**
 * Decodes percent-encoded characters from the given `anchorText`, in preparation for the text to be displayed.
 * @param {String} anchorText The text of the anchor that is being generated, for which to decode any percent-encoded characters.
 * @return {String} The `anchorText`, with the percent-encoded characters decoded.
 */
UrlMatch.prototype.removePercentEncoding = function (anchorText) {
    // First, convert a few of the known % encodings to the corresponding HTML entities
    var preProcessedEntityAnchorText = anchorText
        .replace(/%22/gi, '"') // " char
        .replace(/%26/gi, '&') // & char
        .replace(/%27/gi, '&#39;') // ' char
        .replace(/%3C/gi, '&lt;') // < char
        .replace(/%3E/gi, '&gt;'); // > char
    try {
        // Now attempt to decode the rest of the anchor text
        return decodeURIComponent(preProcessedEntityAnchorText);
    }
    catch (e) { // Invalid % escape sequence in the anchor text
        return preProcessedEntityAnchorText;
    }
}
```

---

The above code is part of the `UrlMatch` class, which contains methods for stripping prefixes, removing protocol-relative slashes, removing trailing slashes, and decoding percent-encoded characters from anchor texts.

---

This snippet is part of the `Autolinker` library, which is used to linkify text by matching and generating HTML anchor tags. It uses regular expressions for matching patterns such as letters, digits, whitespace, and special characters.

---

The `letterRe`, `digitRe`, `nonDigitRe`, `whitespaceRe`, and `quoteRe` are regular expressions used for matching different types of text elements. They are defined as:

- `letterRe` to match upper and lowercase ASCII letters
- `digitRe` to match ASCII digits
- `nonDigitRe` to match everything except ASCII digits
- `whitespaceRe` to match whitespace
- `quoteRe` to match quote characters

These expressions are used in various methods within the `UrlMatch` class to manipulate anchor texts.

---

The code snippet also includes a class `Matcher` which is an abstract class and interface for individual matchers to find matches in an input string with linkified versions of them. It takes a `tagBuilder` as a configuration property and provides a method `match` for generating HTML anchor tags.

---

This file builds and stores a library of the common regular expressions used by the `Autolinker` utility. These regular expressions are used for matching various text elements like letters, digits, and special characters to generate HTML anchor tags.
UglifyJS from\n * compressing the unicode escape sequences into their actual unicode\n * characters. If Uglify
compresses these into the unicode characters\n * themselves, this results in the error \"Range out of order in
character\n * class\" when these characters are used inside of a Regular Expression\n * character class (`[]`). See
usages of this const. Alternatively, we can set\n * the UglifyJS option `ascii_only` to true for the build, but that
doesn't\n * help others who are pulling in Autolinker into their own build and running\n * UglifyJS themselves.\n
*/\nexport var alphaCharsStr = /A-Za-z\\xAA\\xB5\\xBA\\xC0-\\xD6\\xD8-\\xF6\\xF8-\\u02C1\\u02C6\\u02D1\\u02E0-\\u02E4\\u02EC\\u02EE\\u0370-\\u0374\\u0376\\u0377\\u037A-\\u037D\\u037F\\u0386\\u0388\\u038A\\u038C\\u038E-\\u03A1\\u03A3-\\u03F5\\u03F7-\\u0481\\u048A-\\u052F\\u0531-\\u0556\\u0559\\u0561\\u0587\\u05D0-\\u05EA\\u05F0-\\u05F2\\u0620-\\u064A\\u066E\\u066F\\u0671\\u06D3\\u06D5\\u06E5\\u06E6\\u06EE\\u06EF\\u06FA-\\u06FC\\u06FF\\u0710\\u0712-\\u072F\\u074D\\u07A5\\u07B1\\u07CA-\\u07EA\\u07F4\\u07F5\\u07FA\\u0800-\\u0815\\u081A\\u0824\\u0828\\u0840\\u0858\\u08A0-\\u08B4\\u08B6-\\u08BD\\u0904-\\u0939\\u093D\\u0950\\u0958-\\u0961\\u0971-\\u0980\\u0985\\u098C\\u098F\\u0990\\u0993-\\u09A8\\u09AA-\\u09B0\\u09B2\\u09B6\\u09B9\\u09BD\\u09CE\\u09DC\\u09DD\\u09DF-\\u09E1\\u09F0\\u09F1\\u0A05\\u0A0A\\u0A0F\\u0A10\\u0A13-\\u0A28\\u0A2A\\u0A30\\u0A32\\u0A33\\u0A35\\u0A36\\u0A38\\u0A39\\u0A59-\\u0A5C\\u0A5E\\u0A72-\\u0A74\\u0A85\\u0A8D\\u0A8F-\\u0A91\\u0A93-\\u0AA8\\u0AAA-\\u0AB0\\u0AB2\\u0AB3\\u0AB5\\u0AB9\\u0ABD\\u0AD0\\u0AE0\\u0AE1\\u0AF9\\u0B05-\\u0B0C\\u0B0F\\u0B10\\u0B13-\\u0B28\\u0B2A\\u0B30\\u0B32\\u0B33\\u0B35-\\u0B39\\u0B3D\\u0B5C\\u0B5D\\u0B5F-\\u0B61\\u0B71\\u0B83\\u0B85\\u0B8A\\u0B8E-\\u0B90\\u0B92-\\u0B95\\u0B99\\u0B9A\\u0B9C\\u0B9E\\u0B9F\\u0BA3\\u0BA4\\u0BA8\\u0BAA\\u0BAE-\\u0BB9\\u0BD0\\u0C05-\\u0C0C\\u0C0E-\\u0C10\\u0C12-\\u0C28\\u0C2A\\u0C39\\u0C3D\\u0C58-\\u0C5A\\u0C60\\u0C61\\u0C80\\u0C85-\\u0C8C\\u0C8E-\\u0C90\\u0C92\\u0CA8\\u0CAA-\\u0CB3\\u0CB5-\\u0CB9\\u0CBD\\u0CDE\\u0CE0\\u0CE1\\u0CF1\\u0CF2\\u0D05\\u0D0C\\u0D0E-\\u0D10\\u0D12-\\u0D3A\\u0D3D\\u0D4E\\u0D54-\\u0D56\\u0D5F-\\u0D61\\u0D7A\\u0D7F\\u0D85-\\u0D96\\u0D9A-\\u0DB1\\u0DB3-\\u0DBB\\u0DBD\\u0DC0-\\u0DC6\\u0E01\\u0E30\\u0E32\\u0E33\\u0E40-\\u0E46\\u0E81\\u0E82\\u0E84\\u0E87\\u0E88\\u0E8A\\u0E8D\\u0E94\\u0E97\\u0E99-\\u0E9F\\u0EA1-\\u0EA3\\u0EA5\\u0EA7\\u0EAA\\u0EAB\\u0EAD\\u0EB0\\u0EB2\\u0EB3\\u0EBD\\u0EC0-\\u0EC4\\u0EC6\\u0EDC-\\u0EDF\\u0F00\\u0F40-\\u0F47\\u0F49\\u0F6C\\u0F88-\\u0F8C\\u1000-\\u102A\\u103F\\u1050-\\u1055\\u105A-\\u105D\\u1061\\u1065\\u1066\\u106E\\u1070\\u1075-\\u1081\\u108E\\u10A0-\\u10C5\\u10C7\\u10CD\\u10D0-\\u10FA\\u10FC-\\u1248\\u124A\\u124D\\u1250-\\u1256\\u1258\\u125A-\\u125D\\u1260-\\u1288\\u128A-\\u128D\\u1290-\\u12B0\\u12B2\\u12B5\\u12B8-\\u12BE\\u12C0\\u12C2-\\u12C5\\u12C8-\\u12D6\\u12D8-\\u1310\\u1312-\\u1315\\u1318\\u135A\\u1380-\\u138F\\u13A0-\\u13F5\\u13F8-\\u13FD\\u1401-\\u166C\\u166F-\\u167F\\u1681-\\u169A\\u16A0\\u16EA\\u16F1-\\u16F8\\u1700-\\u170C\\u170E-\\u1711\\u1720-\\u1731\\u1740-\\u1751\\u1760-\\u176C\\u176E\\u1770\\u1780-\\u17B3\\u17D7\\u17DC\\u1820-\\u1877\\u1880-\\u1884\\u1887-\\u18A8\\u18AA\\u18B0\\u18F5\\u1900-\\u191E\\u1950-\\u196D\\u1970-\\u1974\\u1980-\\u19AB\\u19B0-\\u19C9\\u1A00\\u1A16\\u1A20-\\u1A54\\u1AA7\\u1B05-\\u1B33\\u1B45-\\u1B4B\\u1B83-\\u1BA0\\u1BAE\\u1BAF\\u1BBA\\u1BE5\\u1C00-\\u1C23\\u1C4D-\\u1C4F\\u1C5A-\\u1C7D\\u1C80-\\u1C88\\u1CE9-\\u1CEC\\u1CEE\\u1CF1\\u1CF5\\u1CF6\\u1D00-\\u1DBF\\u1E00-\\u1F15\\u1F18-\\u1F1D\\u1F20-\\u1F45\\u1F48\\u1F4D\\u1F50-\\u1F57\\u1F59\\u1F5B\\u1F5D\\u1F5F-\\u1F7D\\u1F80-\\u1FB4\\u1FB6\\u1FBC\\u1FBE\\u1FC2-\\u1FC4\\u1FC6-\\u1FCC\\u1FD0-\\u1FD3\\u1FD6-\\u1FDB\\u1FE0-\\u1FEC\\u1FF2\\u1FF4\\u1FF6-\\u1FFC\\u2071\\u207F\\u2090-\\u209C\\u2102\\u2107\\u210A-\\u2113\\u2115\\u2119\\u211D\\u2124\\u2126\\u2128\\u212A-\\u212D\\u212F-\\u2139\\u213C-\\u213F\\u2145\\u2149\\u214E\\u2183\\u2184\\u2C00-\\u2C2E\\u2C30-\\u2C5E\\u2C60-\\u2CE4\\u2CEB\\u2CEE\\u2CF2\\u2CF3\\u2D00-\\u2D25\\u2D27\\u2D2D\\u2D30-\\u2D67\\u2D6F\\u2D80-\\u2D96\\u2DA0\\u2DA6\\u2DA8-\\u2DAE\\u2DB0-\\u2DB6\\u2DB8-\\u2DBE\\u2DC0-\\u2DC6\\u2DC8-\\u2DCE\\u2DD0\\u2DD6\\u2DD8-\\u2DDE\\u2E2F\\u3005\\u3006\\u3031-\\u3035\\u303B\\u303C\\u3041-\\u3096\\u309D\\u309F\\u30A1-\\u30FA\\u30FC-\\u30FF\\u3105-\\u312D\\u3131-\\u318E\\u31A0-\\u31BA\\u31F0-

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The string form of a regular expression that would match all emoji characters

Based on the emoji regex defined in this article: https://thekevinscott.com/emojis-in-javascript/

```javascript
export var emojiStr = /\u2700-\u27BF\udde6-\uddff\ud800-\udbff\udc00-\udfff\ufe0e\ufe0f\ufe0e-u0300-\ufe0e-u036F\ufe0e-u20D0-u20F0-u2566-u25FF\ufe0e-u20D0-u20F0-u20D0-u20F0-u20D0-u20F0/
```

The string form of a regular expression that

would match all of the

combining mark characters in the unicode character set when placed in a

RegExp character class (`[]`).

* Specifically: http://xregexp.com/v/3.2.0/xregexp-all.js, the `Mark`

* Very important: This set of characters is defined inside of a Regular

* Expression literal

* Expressions literal rather than a string literal to prevent UglifyJS from

* compiling the unicode escape sequences into their actual

* characters. If Uglify compresses these into the unicode characters

* themselves, this results in the error "Range out of order in character

* class" when these characters are used inside of a Regular Expression

* character class ("[]").

* Usages of this const. Alternatively, we can set

* the UglifyJS option `ascii_only` to

* true for the build, but that doesn't

* help others who are pulling in Autolinker into their own build and running

* Autolinker themselves.

* Anexport var marksStr = /u0300-u036F/u0483-u0489/u0591-

* u05BD/u05BF/u05C1/u05C2/u05C5/u05C7/u0610-u061D/u064B/u065F/u0670/u0676-

* u06DC/u06DF/u064E/u0667/u0688/u06EA-u06ED/u0711/u0730-u074A-u07A6-u07B0-u07EB-

* u07F3/u0816-u0819/u081B-u0823-u0825-u0827-u0829-u082D-u0859-u085B-u08DF-u08E1-u08E3-

* u093A/u093C/u094F/u0951-u0957/u0962-u0965/u0968-u0971/u0975-u0979-u097B-u097F-

* u09C4/u09C7/u09C8/u09CB-u09CD-u09D7/u09E2-u09E3/u0A01-u0A03/u0A3C/u0A3E-

* u0A42/u0A47/u0A48/u0A4B/u0A4D/u0A51/u0A70/u0A71/u0A75/u0A81-u0A83/u0ABC/

* u0AC5/u0AC7-u0AC9/u0ACB-u0ACD/u0AE2/u0AE3/u0B01-u0B03/u0B3C/u0B3E-

* u0B4-u0B7-u0B8B-u0BDD-u0B67/u0B6D/u0B77/u0B78/u0B82/u0B8E-u0BCE-

* u0BC2-u0BC6-u0BC8-u0BCA-u0BDD/u0C00-u0C03/u0C54/u0C56/u0C57/u0C62/u0C63/u0C81-u0C83/u0CBE-u0CC4/u0C66-u0C68/u0CCA-

* u0CCD/u0CD5/u0CD6/u0CDE/u0CE3/u0D01-u0D3E-u0D44-u0D46-u0D48-u0D4A-

* u0D4D-u0D57/u0D62/u0D63/u0D82/u0D83/u0DCA/u0DCF-u0DD4-u0DD6-u0DD8-

* u0DDDF-u0DF2-u0DF3/u0E31/u0E34-u0E3A/u0E47-u0E4E/u0E6B/u0E9B/

* u0EB9/u0EBB/u0EBC/u0EC8-u0ECD-u0F18-u0F19-u0F35/u0F37-u0F39/u0F3E/u0F3F/u0F71-

* u0F84/u0F86/u0F87/u0F8D-u0F97-u0F99-u0FB3/u0FC6/u0102B-u0103E-u01056-u01059-u0105E-

```
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\u1060\u1062-\u1064\u1067-\u106D\u1071-\u1074\u1082-\u108D\u108F\u109A-\u109D\u135D-
\u135F\u1712-\u1714\u1732-\u1734\u1752\u1753\u1772\u1773\u17B4-\u17D3\u17DD\u180B-
\u180D\u1885\u1886\u1A89\u1A8B\u1A8D\u1A90-\u1A99\u1B50-\u1B59\u1B60-\u1B62\u1B64-\u1B66\u1B68-\u1B6A\u1B6C-
\u1B6E\u1B70-\u1B72\u1B74-\u1B76\u1B78\u1B7A-\u1B80\u1B82\u1B84-\u1B86\u1B88-
\u1B8A\u1B8C\u1B8E\u1B90-\u1B92\u1B94-\u1B96\u1B98-\u1B9A\u1B9C-
\u1B9E\u1C10-\u1C12\u1C14-\u1C16\u1C18-\u1C1A\u1C1C-
\u1C1E\u1C20-\u1C22\u1C24-\u1C26\u1C28-\u1C2A\u1C2C-
\u1C2E\u1C30-\u1C32\u1C34-\u1C36\u1C38-\u1C3A\u1C3C-
\u1C3E\u1C40-\u1C42\u1C44-\u1C46\u1C48-\u1C4A\u1C4C-
\u1C4E\u1C50-\u1C52\u1C54-\u1C56\u1C58-\u1C5A\u1C5C-
\u1C5E\u1C60-\u1C62\u1C64-\u1C66\u1C68-\u1C6A\u1C6C-
\u1C6E\u1C70-\u1C72\u1C74-\u1C76\u1C78\u1C7A-\u1C7C\u1D40-\u1D42\u1D44-\u1D46\u1D48-
\u1D4A\u1D4C\u1D4E\u1D50-\u1D52\u1D54-\u1D56\u1D58-
\u1D5A\u1D5C\u1D5E\u1D60-\u1D62\u1D64-\u1D66\u1D68-
\u1D6A\u1D6C\u1D6E\u1D70-\u1D72\u1D74-\u1D76\u1D78-
\u1D7A\u1D7C\u1D80-\u1D82\u1D84-\u1D86\u1D88-
\u1D8A\u1D8C\u1D8E\u1D90-\u1D92\u1D94-\u1D96\u1D98-
\u1D9A\u1DA0-\u1DA2\u1DA4-\u1DA6\u1DA8-
\u1DAA\u1DCA\u1DC0-\u1DC2\u1DC4-\u1DC6\u1DC8-
\u1DCC\u1DCE\u1DFF\u20D0-\u20F0\u2CEF-\u2CF1\u2D7F\u2DE0-
\u2DFF\u302A-\u302F\u3099\u309A\u309C\u309E\u30A0-
\u30A2\u30A4\u30A6\u30A8\u30AA\u30AC\u30AE-
\u30B0\u30B2\u30B4\u30B6\u30B8\u30BA\u30BC-
\u30E0\u30E2\u30E4\u30E6\u30E8\u30EA\u30EC-
\u30F0\u30F2\u30F4\u30F6\u30F8\u30FA\u30FC-
\u3100-\u313F\u3140-\u3146\u3148-\u314C\u3150-
\u3154\u3156\u3158-\u315C\u3160-\u3164\u3166-
\u3168\u316A\u316C\u3170-\u3174\u3176-\u317A-
\u317C\u317E\u3180-\u3184\u3186-\u318A\u318C-
\u318E\u3190-\u3194\u3196-\u319A\u319C-
\u319E\u31A0-\u31A4\u31A6-\u31AA\u31AC-
\u31AE\u31B0-\u31B4\u31B6-\u31B8\u31BA-
\u31BC\u31BE\u31C0-\u31C4\u31C6-\u31CC-
\u31CE\u31D0-\u31D4\u31D6-\u31D8\u31DA-
\u31DC\u31E0-\u31E4\u31E6-\u31EE\u31F0-
\u31FF\u3200-\u32FF\u3400-\u34FF/
    .source; // see note in above variable
description
/**
 * The string form of a regular expression that would match all of the
 * alphabetic ("letter")
chars, emoji, and combining marks in the unicode character set
 * when placed in a RegExp character class ('[]').
This includes all\n * international alphabetic characters.\n */
export var alphaCharsAndMarksStr =
alphaCharsStr + emojiStr + marksStr;
/**
 * The string form of a regular expression that would match all of the
 * decimal number chars in the unicode character set when placed in a RegExp
 * character class (\[\]).\n */
export var decimalNumbersStr = /0-9\u0660-\u0669\u06F0-\u06F9\u07C0-\u07C9\u0966-\u096F/
    .source; // see note in above variable
description
/**
 * The string form of a regular expression that
would match all of the
 * letters and decimal number chars in the unicode character set when placed in a
 * RegExp character class (\[\]).\n */
export var alphaNumericCharsStr =
alphaCharsAndMarksStr + decimalNumbersStr;
/**
 * The string form of a regular expression that would match all of the
 * letters, combining marks, and decimal number chars in the unicode character set
 * when placed in a
 * RegExp character class (\[\]).\n */
export var alphaNumericAndMarksCharsStr =
alphaCharsAndMarksStr + decimalNumbersStr;
// Simplified IP regular
expression
var ipStr = '(?:[' + decimalNumbersStr + ']{1,3}\\.){3}[' + decimalNumbersStr + ']{1,3}';
// Protected
domain label which do not allow "-" character on the beginning and the end of a single label
var domainLabelStr = '
\u0A66-\u0A6F\u0A70-\u0A7A\u0A80-\u0A89\u0A90-\u0A99';
/**
 * A function to match domain names of a URL or email address.\n */
export var getDomainNameStr = function (group) {
    return

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```
// For debugging: search for other "For debugging" lines
// const table = new CliTable( {
//   head: [
//     'charIdx', 'char', 'state', 'charIdx', 'currentEmailAddress.idx', 'hasDomainDot'
//   ]
// } );
while (charIdx < len) {
  var char = text.charAt(charIdx);
  // For debugging: search for other "For debugging" lines
  // table.push( [charId, char, State[ state ], charId, currentEmailAddress.idx, 'is']);
  switch (state) {
    case 0 /* NonEmailMatch */:
      // For debugging: search for other "For debugging" lines
      var mailtoTransitions = {
        'm': 'a', 'n': 't', 'i': 't', 'T': 'n', 't': 'o', '0': 'n', o:'n'}
      var charIdx = 0, state = 0 /* NonEmailMatch */, currentEmailMatch = noCurrentEmailMatch
      // For debugging: search for other "For debugging" lines
      // const table = new CliTable ( {
      //   'head': [
      //     'charIdx', 'char', 'state', 'charIdx', 'currentEmailAddress.idx', 'hasDomainDot'
      //   ]
      // } );
      while (charIdx < len) {
        var char = text.charAt(charIdx);
        // For debugging: search for other "For debugging" lines
        // table.push( [charId, char, State[ state ], charId, currentEmailAddress.idx, 'is']);
        currentEmailAddress.hasDomainDot = 0
      }
    case 1 /* Mailto */:
      stateNonEmailAddress(char,
      break; case 1 /* Mailto */:
      stateMailTo(text.charAt(charIdx - 1), char);
      break; case 2 /* LocalPart */:
      stateLocalPart(char);
      break; case 3 /* LocalPart */:
      stateLocalPart(char); break; case 4 /* AtSign */:
      stateLocalPart(char); break; case 5 /* DomainChar */:
      stateLocalPart(char); break; case 6 /* DomainHyphen */:
      stateLocalPart(char); break; case 7 /* Domain */:
      stateDomainHyphen(char); break; default:
      throwUnhandledCaseError(state);
    }
  }
  // For debugging: search for other "For debugging" lines
  // table.push( [charId, char, State[ state ], charId, currentEmailAddress.idx, 'is']);
  currentEmailAddress.hasDomainDot = 0
}
```

The code snippet above is part of a larger implementation, possibly for parsing email addresses. It includes various states and transitions that are used to validate and construct email addresses. The `EmailMatcher` class is responsible for finding email matches in a given string, and it uses several regexes and helper functions to perform this task efficiently.
debugging" lines

```javascript

beginEmailMatch(1 /* Mailto */); \n
// Handles the state when we're not in an email address\nfunction stateNonEmailAddress(char) { \n    if (char === 'm') { \n        beginEmailMatch(1 /* Mailto */); \n    } else if (localPartCharRegex.test(char)) { \n        if (prevChar === ':') { \n            // We've reached the end of the 'mailto:' prefix\n        } \n        else { \n            // Anything else, not an email address character, return to \n            \n        } \n    } \n} \n
beginEmailMatch(1 /* Mailto */); \n
// Handles if we're reading a 'mailto:' prefix on the string\nfunction stateMailTo(prevChar, char) { \n    if (prevChar === ':') { \n        // We've reached the end of the 'mailto:' prefix\n    } \n    else { \n        // we've matched 'mailto:' but didn't get anything meaningful\n    } \n
    if (localPartCharRegex.test(char)) { \n        // Mailto state\n        \n    } else if (localPartCharRegex.test(char)) { \n        \n    } \n} \n
\n
function stateMailTo(prevChar, char) { \n    if (prevChar === ':') { \n        // We've reached the end of the 'mailto:' prefix\n    } \n    else { \n        // we've matched 'mailto:' but didn't get anything meaningful\n    } \n
    if (localPartCharRegex.test(char)) { \n        // Mailto state\n        \n    } else if (localPartCharRegex.test(char)) { \n        \n    } \n} \n
\n
beginEmailMatch(1 /* Mailto */); \n
// Handles if we're reading a 'mailto:' prefix on the string\nfunction stateMailTo(prevChar, char) { \n    if (prevChar === ':') { \n        // We've reached the end of the 'mailto:' prefix\n    } \n    else { \n        // we've matched 'mailto:' but didn't get anything meaningful\n    } \n
    if (localPartCharRegex.test(char)) { \n        // Mailto state\n        \n    } else if (localPartCharRegex.test(char)) { \n        \n    } \n} \n
// Handles the state when we've currently in the \"local part\" of an \n// email address (as opposed to the \"domain part\")\nfunction stateLocalPart(char) { \n    if (char === '@') { \n        \n    } \n    else if (char === '.') { \n        \n    } \n    else if (localPartCharRegex.test(char)) { \n        \n    } \n} \n
beginEmailMatch(1 /* Mailto */); \n
// Handles if we're reading a 'mailto:' prefix on the string\nfunction stateMailTo(prevChar, char) { \n    if (prevChar === ':') { \n        // We've reached the end of the 'mailto:' prefix\n    } \n    else { \n        // we've matched 'mailto:' but didn't get anything meaningful\n    } \n
    if (localPartCharRegex.test(char)) { \n        // Mailto state\n        \n    } else if (localPartCharRegex.test(char)) { \n        \n    } \n} \n
```

This code appears to be a state machine for parsing email addresses. It handles various states such as checking if the string starts with 'mailto:', advancing through the characters of the email address, and determining if a character is part of the local part or the domain part. The `localPartCharRegex` and `domainNameCharRegex` are regex patterns used to validate characters in those parts of the email address.
captureMatchIfValidAndReset():
            if (currentEmailMatch.hasDomainDot) { // we need at least one dot in the domain to be considered a valid email address
                var matchedText = text.slice(currentEmailMatch.idx, charIdx); // If we read a `.`, or `-`, char that ended the email address

                // (valid domain name characters, but only valid email address characters if they are followed by something else), strip
                // it off now
                if (/[-.]$/.test(matchedText)) {
                    matchedText = matchedText.slice(0, -1);
                }
                var emailAddress = currentEmailMatch.hasMailtoPrefix
                    ? matchedText.slice('mailto:'.length)
                    : matchedText;

                // if the email address has a valid TLD, add it to the list of matches
                if (doesEmailHaveValidTld(emailAddress)) {
                    matches.push(new EmailMatch({
                        tagBuilder: tagBuilder,
                        matchedText: matchedText,
                        offset: currentEmailMatch.idx,
                        email: emailAddress
                    }));
                }
            }
            resetToNonEmailMatchState();
            /**
             * Determines if the given email address has a valid TLD or not
             * @param {string} emailAddress - email address
             * @return {Boolean} - true is email have valid TLD, false otherwise
             */
            function doesEmailHaveValidTld(emailAddress) {
                var emailAddressTld = emailAddress.split('.').pop() || '';

                var emailAddressNormalized = emailAddressTld.toLowerCase();
                var isValidTld = strictTldRegex.test(emailAddressNormalized);
                return isValidTld;
            }
        }
    };
    return EmailMatcher;
}(Matcher));
export { EmailMatcher };
var CurrentEmailMatch = /** @class */ (function () {
    function CurrentEmailMatch(cfg) {
        if (cfg === void 0) { cfg = {}; }
        this.idx = cfg.idx !== undefined ? cfg.idx : -1;
        this.hasMailtoPrefix = !!cfg.hasMailtoPrefix;
        this.hasDomainDot = !!cfg.hasDomainDot;
    }
    return CurrentEmailMatch;
}());

import { alphaCharsStr } from "../regex-lib";
/**
 * @private
 * @class Autolinker.matcher.UrlMatchValidator
 * @singleton
 *
 * Used by Autolinker to filter out false URL positives from the
 * @link {Autolinker.matcher.Url UrlMatcher}.
 *
 * Due to the limitations of regular expressions (including the missing feature
 * of look-behinds in JS regular expressions), we cannot always determine the
 * validity of a given match. This class applies a bit of additional logic to
 * filter out any false positives that have been matched by the
 * @link {Autolinker.matcher.Url UrlMatcher}.
 *
 * @param {String} urlMatch The matched URL, if there was one. Will be an
 *   empty string if the match is not a URL match.
 * @param {String} protocolUrlMatch The match URL string
 * for a protocol match. Ex: `http://localhost`.
 * @link {Autolinker.matcher.Url UrlMatcher}.
 * @returns Boolean - true if the match given is valid and should be
 * processed, or `false` if the match is invalid and/or should just not
 * be processed.
 * @type UrlMatchValidator.isValidate = function (urlMatch, protocolUrlMatch) { fn if ((protocolUrlMatch &
 * this.isValidateUriScheme(protocolUrlMatch))) ||
 * this.urlMatchDoesNotHaveProtocolOrDot(urlMatch, protocolUrlMatch) } // At least one period (',') must exist in the
 * link URL string for it to be considered an actual URL, *unless* it was a protocol match (like `http://localhost`)}

```javascript
    function beginEmailMatch(newState) {
        if (newState === void 0) { newState = 2 /* LocalPart */; }
        state = newState;
        currentEmailMatch = new CurrentEmailMatch({ idx: charIdx });
    }
    function resetToNonEmailMatchState() {
        state = 0 /* NonEmailMatch */;
        currentEmailMatch = noCurrentEmailMatch;
    }
    /*
     * Captures the current email address as an EmailMatch if it's valid, and resets the state to read another email address.
     */
    function captureMatchIfValidAndReset() {
        if (currentEmailMatch.hasDomainDot) { // we need at least one dot in the domain to be considered a valid email address
            var matchedText = text.slice(currentEmailMatch.idx, charIdx); // If we read a `.`, or `-`, char that ended the email address

            // (valid domain name characters, but only valid email address characters if they are followed by something else), strip
            // it off now
            if (/[-.]$/.test(matchedText)) {
                matchedText = matchedText.slice(0, -1);
            }
            var emailAddress = currentEmailMatch.hasMailtoPrefix
                ? matchedText.slice('mailto:'.length)
                : matchedText;

            // if the email address has a valid TLD, add it to the list of matches
            if (doesEmailHaveValidTld(emailAddress)) {
                matches.push(new EmailMatch({
                    tagBuilder: tagBuilder,
                    matchedText: matchedText,
                    offset: currentEmailMatch.idx,
                    email: emailAddress
                }));
            }
            resetToNonEmailMatchState();
            /**
             * Determines if the given email address has a valid TLD or not
             * @param {string} emailAddress - email address
             * @return {Boolean} - true is email have valid TLD, false otherwise
             */
            function doesEmailHaveValidTld(emailAddress) {
                var emailAddressTld = emailAddress.split('.').pop() || '';

                var emailAddressNormalized = emailAddressTld.toLowerCase();
                var isValidTld = strictTldRegex.test(emailAddressNormalized);
                return isValidTld;
            }
        }
    }
```
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// At least one letter character must exist in the domain name after a protocol match. Ex: skip over something like \`git:1.0\`

!this.isValidIpAddress(urlMatch) || // Except if it's an IP address

return true;

UrlMatchValidator.isValidateMultipleDots(urlMatch) {

var newRegex = new RegExp(this.hasFullProtocolRegex.source + this.ipRegex.source);

var uriScheme = urlMatch.match(newRegex);

return uriScheme !== null;

UrlMatchValidator.containsMultipleDots = function (urlMatch) {

var stringBeforeSlash = urlMatch;

if (this.hasFullProtocolRegex.test(urlMatch)) {

stringBeforeSlash = urlMatch.split('://')[1];

return stringBeforeSlash.split('/').indexOf('..') > -1;

} || /[^\s]+/;

Determines if the URL scheme is a valid scheme to be autolinked. Returns `false` if the scheme is `javascript:` or `vbscript:`

+ @private

+ @param {String} uriSchemeMatch The match URL string for a full URI scheme match. Ex: `http://yahoo.com` or `mailto:a@a.com`

+ @return {Boolean} `true` if the scheme is a valid one, `false` otherwise.

* /a

UrlMatchValidator.isValidateUrlScheme = function (uriSchemeMatch) {

var uriSchemeMatchArr = uriSchemeMatch.match(this.uriSchemeRegex), uriScheme = uriSchemeMatchArr[0].toLowerCase();

return (uriScheme !== 'javascript:' && uriScheme !== 'vbscript:');

};

/**

Determines if a URL match does not have either:

* a) a full protocol (i.e. `http://`), or
* b) at least one dot (`.`) in the domain name (for a non-full-protocol match).

Either situation is considered an invalid URL (ex: `git:d` does not have an `*` either the `://` part, or at least one dot in the domain name.

If the`match` was `git:abc.com`, we would consider this valid.)

* @param {String} protocolUrlMatch The match URL string for a protocol match. Ex: `http://yahoo.com`.

This is used to match something like:

`http://localhost`, where we won't double check that the domain name

* has at least one `:` in it

* @return {Boolean} `true` if the URL match does not have a full protocol, `false` otherwise.

* /a

UrlMatchValidator.urlMatchDoesNotHaveProtocolOrDot = function (urlMatch, protocolUrlMatch) {

return (!urlMatch && (!protocolUrlMatch || this.hasFullProtocolRegex.test(protocolUrlMatch))) &&

urlMatch.indexOf('.') === -1;

} || /[^\s]+/;

Determines if a URL match does not have either:

* a) a full protocol (i.e. `http://`), or
* b) at least one letter character after the protocol (i.e. in the domain name)

* At least one letter character must exist in the domain name after an `:`

* a protocol match. Ex: skip over something like `git:1.0`

* @param {String} urlMatch The matched URL, if there was one. Will be an empty string if the match is not a URL match.

* @param {String} protocolUrlMatch The match URL string for a protocol match.

Ex: `http://yahoo.com`. This is used to know whether or not we `*` have a protocol in the URL string, in order to check for a word `*` character after the protocol separator (`.\`)

* @return {Boolean} `true` if the URL match does not have a full protocol, `false` otherwise.

* /a

UrlMatchValidator.urlMatchDoesNotHaveAtLeastOneWordChar = function (urlMatch, protocolUrlMatch) {

return (!this.hasFullProtocolRegex.test(protocolUrlMatch)) &&

!this.hasWordCharAfterProtocolRegex.test(urlMatch);

} || /[^\s]+/;

Regexp to test for a full protocol, with the two trailing slashes. Ex: `http://` or `

@private

@param {String} urlSchemeMatch The matched URL, if there was one.

This is used to check if a javascript:` or `vbscript:` schemes:

* @param {String} protocolUrlMatch The match URL string for a protocol match.

Ex: `http://yahoo.com`. This is used to know whether or not we `*` have a protocol in the URL string, in order to check for a word `*` character after the protocol separator (`.\`)

* @return {Boolean} `true` if the URL match does not have a full protocol, `false` otherwise.

* /a

UrlMatchValidator.urlMatchDoesNotHaveAtLeastOneWordChar = function (urlMatch, protocolUrlMatch) {

return (!this.hasFullProtocolRegex.test(protocolUrlMatch)) &&

!this.hasWordCharAfterProtocolRegex.test(urlMatch);

} || /[^\s]+/;

Regexp to test for a full protocol, with the two trailing slashes. Ex: `http://` or `

@private

@property {RegExp} uriSchemeRegex

* @param {String} protocolUrlMatch The match URL string for a protocol match.

This is used to check if a javascript:` or `vbscript:` schemes:

* @private

* @property {RegExp} urSchemeRegex

* @param {String} protocolUrlMatch The match URL string for a protocol match.

Ex: `http://yahoo.com`. This is used to know whether or not we `*` have a protocol in the URL string, in order to check for a word `*` character after the protocol separator (`.\`)

* @return {Boolean} `true` if the URL match does not have a full protocol, `false` otherwise.

* /a

UrlMatchValidator.urlMatchDoesNotHaveAtLeastOneWordChar = function (urlMatch, protocolUrlMatch) {

return (!this.hasFullProtocolRegex.test(protocolUrlMatch)) &&

!this.hasWordCharAfterProtocolRegex.test(urlMatch);

} || /[^\s]+/;

Regexp to test for a full protocol, with the two trailing slashes. Ex: `http://` or `

@private

@property {RegExp} uriSchemeRegex

* @param {String} protocolUrlMatch The match URL string for a protocol match.

This is used to check if a javascript:` or `vbscript:` schemes:

* @private

* @property {RegExp} urlSchemeRegex

* @param {String} protocolUrlMatch The match URL string for a protocol match.

Ex: `http://yahoo.com`. This is used to know whether or not we `*` have a protocol in the URL string, in order to check for a word `*` character after the protocol separator (`.\`)

* @return {Boolean} `true` if the URL match does not have a full protocol, `false` otherwise.

* /a

UrlMatchValidator.urlMatchDoesNotHaveAtLeastOneWordChar = function (urlMatch, protocolUrlMatch) {

return (!this.hasFullProtocolRegex.test(protocolUrlMatch)) &&

!this.hasWordCharAfterProtocolRegex.test(urlMatch);

} || /[^\s]+/;

Regexp to test for a full protocol, with the two trailing slashes. Ex: `http://` or `

@private

@property {RegExp} urSchemeRegex

* @param {String} protocolUrlMatch The match URL string for a protocol match.

This is used to check if a javascript:` or `vbscript:` schemes:

* @private

* @property {RegExp} urSchemeRegex

* @param {String} protocolUrlMatch The match URL string for a protocol match.

Ex: `http://yahoo.com`. This is used to know whether or not we `*` have a protocol in the URL string, in order to check for a word `*` character after the protocol separator (`.\`)

* @return {Boolean} `true` if the URL match does not have a full protocol, `false` otherwise.

* /a

UrlMatchValidator.urlMatchDoesNotHaveAtLeastOneWordChar = function (urlMatch, protocolUrlMatch) {

return (!this.hasFullProtocolRegex.test(protocolUrlMatch)) &&

!this.hasWordCharAfterProtocolRegex.test(urlMatch);

} || /[^\s]+/;

Regexp to test for a full protocol, with the two trailing slashes. Ex: `http://` or `

@private

@property {RegExp} urSchemeRegex

* @param {String} protocolUrlMatch The match URL string for a protocol match.

This is used to check if a javascript:` or `vbscript:` schemes:

* @private

* @property {RegExp} urSchemeRegex

* @param {String} protocolUrlMatch The match URL string for a protocol match.

Ex: `http://yahoo.com`. This is used to know whether or not we `*` have a protocol in the URL string, in order to check for a word `*` character after the protocol separator (`.\`)

* @return {Boolean} `true` if the URL match does not have a full protocol, `false` otherwise.

* /a

UrlMatchValidator.urlMatchDoesNotHaveAtLeastOneWordChar = function (urlMatch, protocolUrlMatch) {

return (!this.hasFullProtocolRegex.test(protocolUrlMatch)) &&

!this.hasWordCharAfterProtocolRegex.test(urlMatch);

} || /[^\s]+/;

Regexp to test for a full protocol, with the two trailing slashes. Ex: `http://` or `

@private

@property {RegExp} urSchemeRegex

* @param {String} protocolUrlMatch The match URL string for a protocol match.

This is used to check if a javascript:` or `vbscript:` schemes:

* @private

* @property {RegExp} urlSchemeRegex

* @param {String} protocolUrlMatch The match URL string for a protocol match.

Ex: `http://yahoo.com`. This is used to know whether or not we `*` have a protocol in the URL string, in order to check for a word `*` character after the protocol separator (`.\`)

* @return {Boolean} `true` if the URL match does not have a full protocol, `false` otherwise.

* /a

UrlMatchValidator.urlMatchDoesNotHaveAtLeastOneWordChar = function (urlMatch, protocolUrlMatch) {

return (!this.hasFullProtocolRegex.test(protocolUrlMatch)) &&

!this.hasWordCharAfterProtocolRegex.test(urlMatch);

} || /[^\s]+/;
sourceMappingURL=url-match-validator.js.map\n","import * as tslib_1 from \"tslib\";\nimport { Matcher } from
\"./matcher\";\nimport { alphaNumericAndMarksCharsStr } from \"../regex-lib\";\nimport { HashtagMatch } from
\"../match/hashtag-match\";\n// RegExp objects which are shared by all instances of HashtagMatcher. These are\n//
here to avoid re-instantiating the RegExp objects if `Autolinker.link()` is\n// called multiple times, thus instantiating
HashtagMatcher and its RegExp \n// objects each time (which is very expensive - see
https://github.com/gregjacobs/Autolinker.js/issues/314). \n// See descriptions of the properties where they are used
for details about them\nvar matcherRegex = new RegExp(\"#[_\" + alphaNumericAndMarksCharsStr +
\"]{1,139}(?![_\" + alphaNumericAndMarksCharsStr + \"])\", 'g'); // lookahead used to make sure we don't match
something above 139 characters\nvar nonWordCharRegex = new RegExp('[^' + alphaNumericAndMarksCharsStr +
']');\n/**\n * @class Autolinker.matcher.Hashtag\n * @extends Autolinker.matcher.Matcher\n *\n * Matcher to find
HashtagMatch matches in an input string.\n */\nvar HashtagMatcher = /** @class */ (function (_super) {\n
tslib_1.__extends(HashtagMatcher, _super);\n /**\n * @method constructor\n * @param {Object} cfg The
configuration properties for the Match instance,\n * specified in an Object (map).\n */\n function
HashtagMatcher(cfg) {\n
var _this = _super.call(this, cfg) || this;\n
/**\n
* @cfg {String}
serviceName\n
*\n
* The service to point hashtag matches to. See {@link Autolinker#hashtag}\n
*
for available values.\n
*/\n
_this.serviceName = 'twitter'; // default value just to get the above doc comment
in the ES5 output and documentation generator\n
/**\n
* The regular expression to match Hashtags.
Example match:\n
*\n
* #asdf\n
*\n
* @protected\n
* @property {RegExp}
matcherRegex\n
*/\n
_this.matcherRegex = matcherRegex;\n
/**\n
* The regular expression to
use to check the character before a username match to\n
* make sure we didn't accidentally match an email
address.\n
*\n
* For example, the string \"asdf@asdf.com\" should not match \"@asdf\" as a username.\n
*\n
* @protected\n
* @property {RegExp} nonWordCharRegex\n
*/\n
_this.nonWordCharRegex = nonWordCharRegex;\n
_this.serviceName = cfg.serviceName;\n
return _this;\n
}\n /**\n * @inheritdoc\n */\n HashtagMatcher.prototype.parseMatches = function (text) {\n
var
matcherRegex = this.matcherRegex, nonWordCharRegex = this.nonWordCharRegex, serviceName =
this.serviceName, tagBuilder = this.tagBuilder, matches = [], match;\n
while ((match =
matcherRegex.exec(text)) !== null) {\n
var offset = match.index, prevChar = text.charAt(offset - 1);\n
// If we found the match at the beginning of the string, or we found the match\n
// and there is a whitespace
char in front of it (meaning it is not a '#' char\n
// in the middle of a word), then it is a hashtag match.\n
if (offset === 0 || nonWordCharRegex.test(prevChar)) {\n
var matchedText = match[0], hashtag =
match[0].slice(1); // strip off the '#' character at the beginning\n
matches.push(new HashtagMatch({\n
tagBuilder: tagBuilder,\n
matchedText: matchedText,\n
offset: offset,\n
serviceName: serviceName,\n
hashtag: hashtag\n
}));\n
}\n
}\n
return
matches;\n };\n return HashtagMatcher;\n}(Matcher));\nexport { HashtagMatcher };\n\n//#
sourceMappingURL=hashtag-matcher.js.map\n","import * as tslib_1 from \"tslib\";\nimport { Matcher } from
\"./matcher\";\nimport { PhoneMatch } from \"../match/phone-match\";\nimport { nonDigitRe } from '../regexlib';\n// RegExp objects which are shared by all instances of PhoneMatcher. These are\n// here to avoid reinstantiating the RegExp objects if `Autolinker.link()` is\n// called multiple times, thus instantiating PhoneMatcher
and its RegExp \n// objects each time (which is very expensive - see
https://github.com/gregjacobs/Autolinker.js/issues/314). \n// See descriptions of the properties where they are used
for details about them\nvar phoneMatcherRegex = /(?:(?:(?:(\\+)?\\d{1,3}[-\\040.]?)?\\(?\\d{3}\\)?[-\\040.]?\\d{3}[\\040.]?\\d{4})|(?:(\\+)(?:9[976]\\d|8[987530]\\d|6[987]\\d|5[90]\\d|42\\d|3[875]\\d|2[98654321]\\d|9[8543210]|8[642
1]|6[6543210]|5[87654321]|4[987654310]|3[9643210]|2[70]|7|1)[-\\040.]?(?:\\d[-\\040.]?){6,12}\\d+))([,;]+[09]+#?)*/g;\n/**\n * @class Autolinker.matcher.Phone\n * @extends Autolinker.matcher.Matcher\n *\n * Matcher to
find Phone number matches in an input string.\n *\n * See this class's superclass ({@link
Autolinker.matcher.Matcher}) for more\n * details.\n */\nvar PhoneMatcher = /** @class */ (function (_super) {\n
tslib_1.__extends(PhoneMatcher, _super);\n function PhoneMatcher() {\n
var _this = _super !== null &&
_super.apply(this, arguments) || this;\n
/**\n
* The regular expression to match Phone numbers. Example

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matches: *

*protected* @property {RegExp} matcherRegex

*return_this* });

/* */

*PhoneMatcher.prototype.parseMatches = function (text) {*

*var matcherRegex = this.matcherRegex, tagBuilder = this.tagBuilder, matches = [], match,*

*(match = matcherRegex.exec(text)) !== null) {*

//* Remove non-numeric values from phone number string

*var matchedText = match[0], cleanNumber = matchedText.replace(/[^0-9,;#]/g, ""), // strip out non-digit characters

*include comma semicolon and #


*prefixed plus sign, if there is none

*before = match.index == 0 ? "" : text.substr(match.index - 1, 1), after =

*text.substr(match.index + matchedText.length, 1), contextClear = !before.match(/\d/) && !after.match(/\d/);*

*if (this.testMatch(match[3]) && this.testMatch(matchedText) && contextClear) {*

*matches.push(new PhoneMatch({*

*tagBuilder: tagBuilder, matchedText: matchedText, offset:*

*match.index, number: cleanNumber, plusSign: plusSign

*}))};

*return matches;}

*/

PhoneMatcher.prototype.testMatch = function (text) {

*return nonDigitRe.test(text);}

/*/
stateBeforeAttributeValue(char); break; case 8 /* AttributeValueDoubleQuoted */:
stateAttributeValueDoubleQuoted(char); break; case 9 /* AttributeValueSingleQuoted */:
stateAttributeValueSingleQuoted(char); break; case 10 /* AttributeValueUnquoted */:
stateAttributeValueUnquoted(char); break; case 11 /* AfterAttributeValueQuoted */:
stateAfterAttributeValueQuoted(char); break; case 12 /* SelfClosingStartTag */:
stateSelfClosingStartTag(char); break; case 13 /* markupDeclarationOpenState */:
stateMarkupDeclarationOpen(char); break; case 14 /* commentStart */:
stateCommentStart(char); break; case 15 /* commentStartDash */:
stateCommentStartDash(char); break; case 16 /* comment */:
stateComment(char); break; case 17 /* commentEndDash */:
stateCommentEndDash(char); break; case 18 /* commentEndBang */:
stateCommentEndBang(char); break; case 20 /* doctype */:
stateDoctype(char); break; default:
    throwUnhandledCaseError(state); }
    // For debugging: search for other "For debugging" lines
    // ALSO: Temporarily remove the 'const' keyword on the State enum
    table.push( 
    // 	charIdx, char, State[ state ], currentDataIdx, currentTag.idx, currentTag.idx === -1 ? '' :
    charIdx++,
    if (currentDataIdx < charIdx) { emitText(); }
    // For debugging: search for other "For debugging" lines
    // console.log( '\n' + table.toString() ); // Called
    if (currentDataIdx < charIdx) { emitText(); }

    // Called when non-tags are being read (i.e. the text around HTML tags)
    // https://www.w3.org/TR/html51/syntax.html#data-state
    function stateData(char) {
        if (char === '<') {
            startNewTag();
        }
    }
    // Called after a '<' is read from the Data state
    // https://www.w3.org/TR/html51/syntax.html#tag-open-state
    function stateTagOpen(char) {
        if (char === '!') {
            state = 13 /* markupDeclarationOpenState */;
        } else if (char === '/') {
            state = 2 /* EndTagOpen */;
            currentTag = new CurrentTag(tslib_1.__assign({}, currentTag, { isClosing: true }));
        } else if (char === '<') {
            // start of another tag (ignore the previous, incomplete one)
            startNewTag();
        } else if (!letterRe.test(char) && !digitRe.test(char) && char !== ':') {
            // Anything else that does not form an html tag. Note: the colon character is accepted
            // for XML namespaced tags
            resetToDataState();
        } else {
            // continue reading tag name
        }
    }
    // Called after the '/' is read from a '</' sequence
    // https://www.w3.org/TR/html51/syntax.html#end-tag-open-state
    function stateEndTagOpen(char) {
        if (char === '>') { // parse error. Encountered "</>". Skip it without treating as a tag
            resetToDataState();
        } else if (char === '<') {
            emitTagAndPreviousTextNode(); // resets to Data state as well
        } else if (letterRe.test(char) && !digitRe.test(char) && char !== '-') {
            // Anything else that does not form an html tag. Note: the colon character is accepted
            // for XML namespaced tags
            resetToDataState();
        } else if (char === '/') {
            emitTagAndPreviousTextNode(); // resets to Data state as well
        } else if (char === 'a') { // parse error. Encountered "</a". Skip it without treating as a tag
            resetToDataState();
        } else if (letterRe.test(char)) {
            state = 3 /* tagName */;
        } else if (digitRe.test(char)) {
            state = 4 /* BeforeAttributeName */;
        } else if (char === '<') {
            emitTagAndPreviousTextNode(); // resets to Data state as well
        } else if (char === '>') {
            currentTag = new CurrentTag(tslib_1.__assign({}, currentTag, { name: captureTagName() }));
        }
    }
    // start of another tag (ignore the previous, incomplete one)
    stateBeforeAttributeName(char); break; case 5 /* attributeName */:
    stateAttributeName(char); break; case 6 /* attributeNameDoubleQuoted */:
    stateAttributeNameDoubleQuoted(char); break; case 7 /* attributeNameSingleQuoted */:
    stateAttributeNameSingleQuoted(char); break; case 8 /* attributeNameUnquoted */:
    stateAttributeNameUnquoted(char); break; case 9 /* attributeNameQuoted */:
    stateAttributeNameQuoted(char); break; case 10 /* afterAttributeNameQuoted */:
    stateAfterAttributeNameQuoted(char); break; case 11 /* afterAttributeNameQuoted */:
    stateAfterAttributeNameQuoted(char); break; case 12 /* selfClosingStartTag */:
    stateSelfClosingStartTag(char); break; case 13 /* markupDeclarationOpenState */:
    stateMarkupDeclarationOpen(char); break; case 14 /* commentStart */:
    stateCommentStart(char); break; case 15 /* commentStartDash */:
    stateCommentStartDash(char); break; case 16 /* comment */:
    stateComment(char); break; case 17 /* commentEndDash */:
    stateCommentEndDash(char); break; case 18 /* commentEndBang */:
    stateCommentEndBang(char); break; case 20 /* doctype */:
    stateDoctype(char); break; default:
    throwUnhandledCaseError(state); }
}

// For debugging: search for other "For debugging" lines
// console.log( '\n' + table.toString() );
character, as it may be\n
// the start of a new attribute name\nstate = 4 /* BeforeAttributeName */;\nreconsumeCurrentCharacter();\n} \n} \n} // A '>' has just been read in the current tag (presumably for '>'),\nand \n// this handles the next character\nhttps://www.w3.org/TR/html51/syntax.html#self-closing-start-tag-state\nfunction stateSelfClosingStartTag(char) \n{ if (char === '>') \n{ state = new CurrentTag(tslib_1.__assign({}, currentTag, { type: 'comment' }));\nemitTagAndPreviousTextNode();\n// resets to Data state as well\n} \n} else \n{ state = 4 /* BeforeAttributeName */;\n} \n} // (HTML Comments or\nDOCTYPE)\nfunction stateMarkupDeclarationOpen(char) \n{ if (html.substr(charIdx, 2) === '!--') \n{ html comment\ncharIdx += 2; // "consume" characters\ncurrentTag = new CurrentTag(tslib_1.__assign({}, currentTag, { type: 'doctype' }));\nstate = 20 /* Doctype */;\n} \n} else \n{ \n// At this point, the spec specifies that the state machine\nshould enter the "bogus comment" state, in which case any character(s)\n// after the '<!' that\nwere read should become an HTML comment upon\n// until the first '>' that is read (or EOF). Instead, we'll\nassume that a user just typed '<!' as part of text data\nresetToDataState();\n} \n} // Handles after the sequence '<!-' has been read\nhttps://www.w3.org/TR/html51/syntax.html#comment-start-state\nfunction stateCommentStart(char) \n{ if (char === '-') \n{ state = 15 /* CommentStartDash */;\n} \n} else if (html.substr(charIdx, 7).toUpperCase() === 'DOCTYPE') \n{ charIdx += 7; // "consume" characters\ncurrentTag = new CurrentTag(tslib_1.__assign({}, currentTag, { type: 'doctype' }));\nstate = 16 /* Comment */;\n} \n} \n} // We've read the sequence '<!-!-->' at this point (3 dashes)\nstate = 15 /* CommentStartDash */;\n} \n} else if (char === '>') \n{ \n// At this point, we'll assume the comment wasn't a real comment\n// so we'll just emit it as data. We basically read the sequence '<!-!-->'\n// as part of the comment\nstate = 16 /* Comment */;\n} \n} \n} // We've read the sequence '<!-!-->' at this point (3 dashes)\nhttps://www.w3.org/TR/html51/syntax.html#comment-start-dash-state\nfunction stateCommentStartDash(char) \n{ if (char === '-') \n{ state = 14 /* CommentStart */;\n} \n} \n} else if (char === '!') \n{ \n// We've read '<!--' (4 dashes) at this point\nstate = 18 /* CommentEnd */;\n} \n} else if (char === '>') \n{ \n// At this point, we'll assume the comment wasn't a real comment\n// so we just emit it as data. We basically read the sequence '<!-!-->'\n// as part of the comment\nstate = 16 /* Comment */;\n} \n} \n} // Currently reading the comment's text (data)\nhttps://www.w3.org/TR/html51/syntax.html#comment-state\nfunction stateComment(char) \n{ if (char === '-') \n{ state = 17 /* CommentEndDash */;\n} \n} else \n{ \n// Any other character, stay in the Comment state\n\n} \n} \n} // When we've read the first dash inside a comment, it may signal the end of the comment if we read another dash\nhttps://www.w3.org/TR/html51/syntax.html#comment-end-dash-state\nfunction stateCommentEndDash(char) \n{ if (char === '-') \n{ state = 18 /* CommentEnd */;\n} \n} \n} else if (char === '>') \n{ \n// At this point, we'll assume\nthe comment wasn't a real comment\n// so we just emit it as data. We basically read the sequence '<!-!-->'\n// as part of the comment\nstate = 16 /* Comment */;\n} \n} \n} // Currently reading the comment's text (data)\nhttps://www.w3.org/TR/html51/syntax.html#comment-end-dash-state\nfunction stateCommentEndDashBang(char) \n{ if (char === '-') \n{ state = 19 /* CommentEndBang */;\n} \n} else if (char === '>') \n{ \n// A 3rd '-' has been read: stay in the CommentEnd state\n\n} else \n{ \n// Anything else, switch back to the comment state since we didn't\n// read the full "end comment" sequence (i.e. '--!-')\nstate = 16 /* Comment */;\n} \n} \n} \n} // We've read the sequence '--!' inside of a comment\nhttps://www.w3.org/TR/html51/syntax.html#comment-end-bang-state\nfunction stateCommentEndBang(char) \n{ \n} \n} \n} \n} // ForDOCTYPE in particular, we don't care about the attributes.\nJust advance to the '>' character and emit the tag, unless we find a '<' character in which case we'll start
a new tag.

Example doctype tag:

```html
<!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 4.01//EN" "http://www.w3.org/TR/html4/strict.dtd">
```

We'll generally run this function whenever a `\`parse error\` is encountered, where the current tag that is being read no longer looks like a real HTML tag.

```javascript
function resetToDataState() {
    state = 0 /* Data */;
    currentTag = noCurrentTag;
}

function startNewTag() {
    state = 1 /* TagOpen */;
    currentTag = new CurrentTag({ idx: charIdx });
}

function emitTagAndPreviousTextNode() {
    var textBeforeTag = html.slice(currentDataIdx, currentTag.idx);
    if (textBeforeTag) {
        // the html tag was the first element in the html string, or two tags next to each other, in which case we should not emit a text
        // node
        onText(textBeforeTag, currentDataIdx);
    }
    if (currentTag.type === 'comment') {
        onComment(currentTag.idx);
    } else if (currentTag.type === 'doctype') {
        onDoctype(currentTag.idx);
    } else {
        if (currentTag.isOpening) {
            onOpenTag(currentTag.name, currentTag.idx);
        }
        if (currentTag.isClosing) { // note: self-closing tags will emit both opening and closing
            onCloseTag(currentTag.name, currentTag.idx);
        }
    }
    // Since we just emitted a tag, reset to the data state for the next char
    resetToDataState();
}
```

```javascript
var CurrentTag = /** @class */ (function () {
    function CurrentTag(cfg) {
        if (cfg === void 0) { cfg = {}; }
        this.idx = (cfg.idx !== undefined ? cfg.idx : -1);
        this.type = (cfg.type || 'tag');
        this.name = (cfg.name || '');
        this.isOpening = !!cfg isOpening;
        this.isClosing = !!cfg isClosing;
    }
    return CurrentTag;
}());

import { AnchorTagBuilder } from './anchor-tag-builder';
import { Match } from './match/match';
import { EmailMatch } from './match/email-match';
import { HashtagMatch } from './match/hashtag-match';
import { MentionMatch } from './match/mention-match';
import { PhoneMatch } from './match/phone-match';
import { UrlMatch } from './match/url-match';
import { Matcher } from './matcher/matcher';
import { EmailMatcher } from './matcher/email-matcher';
import { UrlMatcher } from './matcher/url-matcher';
import { HashtagMatcher } from './matcher/hashtag-matcher';
import { MentionMatcher } from './matcher/mention-matcher';
import { parseHtml } from './htmlParser/parse-html';
```

```javascript
// Autolinker

var html = autolinker.link( "Joe went to www.yahoo.com" );
```

```html
<div>Joe went to <a href="http://www.yahoo.com">yahoo.com</a></div>
```
This option attempts to match anything that looks like a URL in the given text. Ex: 'http://google.com', 'asdf.org/?page=1', etc. 'false' to prevent these types of matches. Note that if the URL had a prefixed scheme, and `matches` is true, it will still be linked.

Additional customization of what exactly gets linked is also provided via `replaceFn` which may be provided to fully customize the output of Autolinker. This function is null called once for each URL/Email/Phone#/Hashtag/Mention (Twitter, Instagram, Soundcloud) match that is encountered.

For example:

```
var input = "...";
var linkedText = Autolinker.replaceFn( input, {
    replaceFn : function( match ) {
        var email = match.getEmail();
        var tag = match.buildTag();
        return '<a href="http://newplace.to.link.email.to/">' + email + '</a>';
    }
} );
```

The function may return any of the following values:

- `true` (Boolean): Allow Autolinker to perform its normal anchor tag replacement (same as returning `true`)
- `false` (Boolean): Do not replace the current match at all - leave as-is
- `null`: leave as-is
- Any string: If a string is returned from the function, the string will be used directly as the replacement HTML for the match.

This option also accepts an Object form with 3 properties to allow for more customization of what exactly gets linked. All default values are specified in an Object (map). An instance of `Autolinker` can be built with `Autolinker.replaceFn(input, { ... })` or by calling the static method `Autolinker.build( input, { ... } )` which provides mutator methods for easy changes.

- `urls`: Boolean/Object
  - `true`: URL matching is enabled by default. `false` to prevent these types of matches.
  - `schemeMatches` is true, it will still be linked.
  - level domains (.com, .net, etc.) that are not prefixed with a scheme or `false` to prevent these types of matches.

- `email`: Boolean/Object
  - `true`: Email addresses should be automatically linked.
  - `false` to prevent these types of matches.

- `phone`: Boolean/Object
  - `true`: Phone numbers should be automatically linked.
  - `false` to prevent these types of matches.

- `hashtag`: Boolean/Object
  - `true`: Hashtags should be automatically linked.
  - `false` to prevent these types of matches.

- `mention`: Boolean/Object
  - `true`: Mentions (Twitter, Instagram, Soundcloud) should be automatically linked.
  - `false` to prevent these types of matches.

This option attempts to match anything that looks like a URL in the given text. Ex: `http://google.com`, 'asdf.org/?page=1', etc. 'false' to prevent these types of matches. Note that if the URL had a prefixed scheme, and `matches` is true, it will still be linked.

This option attempts to match anything that looks like a URL in the given text. Ex: `http://google.com`, 'asdf.org/?page=1', etc. 'false' to prevent these types of matches. Note that if the URL had a prefixed scheme, and `matches` is true, it will still be linked.

This option attempts to match anything that looks like a URL in the given text. Ex: `http://google.com`, 'asdf.org/?page=1', etc. 'false' to prevent these types of matches. Note that if the URL had a prefixed scheme, and `matches` is true, it will still be linked.

This option attempts to match anything that looks like a URL in the given text. Ex: `http://google.com`, 'asdf.org/?page=1', etc. 'false' to prevent these types of matches. Note that if the URL had a prefixed scheme, and `matches` is true, it will still be linked.

This option attempts to match anything that looks like a URL in the given text. Ex: `http://google.com`, 'asdf.org/?page=1', etc. 'false' to prevent these types of matches. Note that if the URL had a prefixed scheme, and `matches` is true, it will still be linked.

This option attempts to match anything that looks like a URL in the given text. Ex: `http://google.com`, 'asdf.org/?page=1', etc. 'false' to prevent these types of matches. Note that if the URL had a prefixed scheme, and `matches` is true, it will still be linked.

This option attempts to match anything that looks like a URL in the given text. Ex: `http://google.com`, 'asdf.org/?page=1', etc. 'false' to prevent these types of matches. Note that if the URL had a prefixed scheme, and `matches` is true, it will still be linked.

This option attempts to match anything that looks like a URL in the given text. Ex: `http://google.com`, 'asdf.org/?page=1', etc. 'false' to prevent these types of matches. Note that if the URL had a prefixed scheme, and `matches` is true, it will still be linked.

This option attempts to match anything that looks like a URL in the given text. Ex: `http://google.com`, 'asdf.org/?page=1', etc. 'false' to prevent these types of matches. Note that if the URL had a prefixed scheme, and `matches` is true, it will still be linked.

This option attempts to match anything that looks like a URL in the given text. Ex: `http://google.com`, 'asdf.org/?page=1', etc. 'false' to prevent these types of matches. Note that if the URL had a prefixed scheme, and `matches` is true, it will still be linked.
* should not be.\n
*/\n
this.email = true; // default value just to get the above doc comment in the ES5
output and documentation generator\n
/**\n
* @cfg {Boolean} [phone=true]\n
*\n
* `true` if
Phone numbers (\"(555)555-5555\") should be automatically linked,\n
* `false` if they should not be.\n
*/\n
this.phone = true; // default value just to get the above doc comment in the ES5 output and documentation
generator\n
/**\n
* @cfg {Boolean/String} [hashtag=false]\n
*\n
* A string for the service name
to have hashtags (ex: \"#myHashtag\")\n
* auto-linked to. The currently-supported values are:\n
*\n
*
- 'twitter'\n
* - 'facebook'\n
* - 'instagram'\n
*\n
* Pass `false` to skip auto-linking of hashtags.\n
*/\n
this.hashtag = false; // default value just to get the above doc comment in the ES5 output and
documentation generator\n
/**\n
* @cfg {String/Boolean} [mention=false]\n
*\n
* A string for
the service name to have mentions (ex: \"@myuser\")\n
* auto-linked to. The currently supported values are:\n
*\n
* - 'twitter'\n
* - 'instagram'\n
* - 'soundcloud'\n
*\n
* Defaults to `false` to skip
auto-linking of mentions.\n
*/\n
this.mention = false; // default value just to get the above doc comment in
the ES5 output and documentation generator\n
/**\n
* @cfg {Boolean} [newWindow=true]\n
*\n
* `true` if the links should open in a new window, `false` otherwise.\n
*/\n
this.newWindow = true; //
default value just to get the above doc comment in the ES5 output and documentation generator\n
/**\n
*
@cfg {Boolean/Object} [stripPrefix=true]\n
*\n
* `true` if 'http://' (or 'https://') and/or the 'www.' should
be stripped\n
* from the beginning of URL links' text, `false` otherwise. Defaults to\n
* `true`.\n
*\n
* Examples:\n
*\n
* stripPrefix: true\n
*\n
* // or\n
*\n
* stripPrefix: {\n
*
scheme : true,\n
*
www : true\n
* }\n
*\n
* As shown above, this option also
accepts an Object form with 2 properties\n
* to allow for more customization of what exactly is prevented from
being\n
* displayed. Both default to `true`:\n
*\n
* @cfg {Boolean} [stripPrefix.scheme] `true` to
prevent the scheme part of\n
* a URL match from being displayed to the user. Example:\n
*
`'http://google.com'` will be displayed as `'google.com'`. `false` to\n
* not strip the scheme. NOTE: Only an
`'http://'` or `'https://'` scheme\n
* will be removed, so as not to remove a potentially dangerous scheme\n
* (such as `'file://'` or `'javascript:'`)\n
* @cfg {Boolean} [stripPrefix.www] www (Boolean): `true` to prevent
the\n
* `'www.'` part of a URL match from being displayed to the user. Ex:\n
* `'www.google.com'` will
be displayed as `'google.com'`. `false` to not\n
* strip the `'www'`.\n
*/\n
this.stripPrefix = { scheme:
true, www: true }; // default value just to get the above doc comment in the ES5 output and documentation
generator\n
/**\n
* @cfg {Boolean} [stripTrailingSlash=true]\n
*\n
* `true` to remove the
trailing slash from URL matches, `false` to keep\n
* the trailing slash.\n
*\n
* Example when `true`:
`http://google.com/` will be displayed as\n
* `http://google.com`.\n
*/\n
this.stripTrailingSlash = true;
// default value just to get the above doc comment in the ES5 output and documentation generator\n
/**\n
*
@cfg {Boolean} [decodePercentEncoding=true]\n
*\n
* `true` to decode percent-encoded characters in
URL matches, `false` to keep\n
* the percent-encoded characters.\n
*\n
* Example when `true`:
`https://en.wikipedia.org/wiki/San_Jos%C3%A9` will\n
* be displayed as
`https://en.wikipedia.org/wiki/San_José`.\n
*/\n
this.decodePercentEncoding = true; // default value just to
get the above doc comment in the ES5 output and documentation generator\n
/**\n
* @cfg
{Number/Object} [truncate=0]\n
*\n
* ## Number Form\n
*\n
* A number for how many
characters matched text should be truncated to\n
* inside the text of a link. If the matched text is over this
number of\n
* characters, it will be truncated to this length by adding a two period\n
* ellipsis ('..') to the
end of the string.\n
*\n
* For example: A url like 'http://www.yahoo.com/some/long/path/to/a/file'\n
*
truncated to 25 characters might look something like this:\n
* 'yahoo.com/some/long/pat..'\n
*\n
*
Example Usage:\n
*\n
* truncate: 25\n
*\n
*\n
* Defaults to `0` for \"no truncation.\"\n
*\n
*\n
* ## Object Form\n
*\n
* An Object may also be provided with two properties:
`length` (Number) and\n
* `location` (String). `location` may be one of the following: 'end'\n
* (default),
'middle', or 'smart'.\n
*\n
* Example Usage:\n
*\n
* truncate: { length: 25, location: 'middle'
}\n
*\n
* @cfg {Number} [truncate.length=0] How many characters to allow before\n
* truncation
will occur. Defaults to `0` for \"no truncation.\"\n
* @cfg {\"end\"/\"middle\"/\"smart\"}

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```javascript
// Note: when `this.something` is used in the rhs of these
//       it refers to the default values set above the constructor
//       this.urls = this.normalizeUrlsCfg(cfg.urls);
//       this.email = typeof cfg.email === 'boolean' ? cfg.email : this.email;
//       this.phone = typeof cfg.phone === 'boolean' ? cfg.phone : this.phone;
//       this.hashtag = typeof cfg.hashtag === 'boolean' ? cfg.hashtag : this.hashtag;
//       this.mention = typeof cfg.mention === 'boolean' ? cfg.mention : this.mention;
//       this.newWindow = typeof cfg.newWindow === 'boolean' ? cfg.newWindow : this.newWindow;
//       this.stripTrailingSlash = typeof cfg.stripTrailingSlash === 'boolean' ? cfg.stripTrailingSlash : this.stripTrailingSlash;
//       this.stripPrefix = typeof cfg.stripPrefix === 'boolean' ? cfg.stripPrefix : this.stripPrefix;
//       this.className = ''; // default value just to get the above doc comment in the ES5 output and documentation generator
//       this.sanitizeHtml = false; // default value just to get the above doc comment in the ES5 output and documentation generator
//       this.truncate = { length: 0, location: 'end' }; // default value just to get the above doc comment in the ES5 output and documentation generator
```
Autolinker.prototype.normalizeStripPrefixCfg = function (stripPrefix) {
    if (stripPrefix == null)
        stripPrefix = true; // default to `true`
    if (typeof stripPrefix === 'boolean') {
        return {
            scheme: stripPrefix, www: stripPrefix };
    }
    else { // object form
        return {
            scheme:
        }
    }
}
/*
 * Automatically links URLs, Email addresses, Phone Numbers, Twitter handles,
 * Hashtags, and Mentions found in the given chunk of HTML. Does not link URL
 * found within HTML tags.
 */
Autolinker.prototype.normalizeUrlsCfg = function (urls) {
    if (urls == null)
        urls = true; // default to `true`
    if (typeof urls === 'boolean') {
        return { schemeMatches: urls, tldMatches: urls, wwwMatches: urls };
    }
    else { // object form
        return {
            scheme:
        }
    }
}
/*
 * Parses the input `textOrHtml`
 * looking for URLs, email addresses, phone numbers, username handles, and
 * hashtags (depending on the configuration of the Autolinker
 * instance), and returns an array of { @link Autolinker.match.Match }
 * objects describing those matches (without making any replacements).
 */
Autolinker.prototype.normalizeStripPrefixCfg = function (stripPrefix) {
    if (stripPrefix == null)
        stripPrefix = true; // default to `true`
    if (typeof stripPrefix === 'boolean') {
        return {
            scheme: stripPrefix, www: stripPrefix };
    }
    else { // object form
        return {
            scheme:
        }
    }
}
/*
 * Automatically links URLs, Email addresses, Phone Numbers, Twitter handles,
 * Hashtags, and Mentions found in the given chunk of HTML. Does not link URL
 * found within HTML tags.
 */
Autolinker.prototype.normalizeUrlsCfg = function (urls) {
    if (urls == null)
        urls = true; // default to `true`
    if (typeof urls === 'boolean') {
        return { schemeMatches: urls, tldMatches: urls, wwwMatches: urls };
    }
    else { // object form
        return {
            scheme:
        }
    }
}
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```javascript
/**
 * Parses the input `textOrHtml` looking for URLs, email addresses, phone numbers, username handles, and hashtags (depending on the configuration) of the Autolinker instance), and returns an array of Autolinker.match.Match objects describing those matches (without making any replacements).
 * This method is used by the `@link #link` method, but can also be used to simply do parsing of the input in order to discover what kinds of links there are and how many.
 * Example usage:
 * ```javascript
 * var autolinker = new Autolinker({
 *   urls: true,
 *   email: true
 * });
 * var matches = autolinker.parse(`Hello google.com, I am asdf@asdf.com`);
 * ```
 * @param {String} textOrHtml The HTML or text to find matches within
 * @param {Object} {urls, email, phone, hashtag, mention} options are enabled.
 * @return {Autolinker.prototype.match.Match[]} The array of Matches found in the input `textOrHtml`.
 * @link #url
 * @link #email
 * @link #phone
 * @link #hashtag
 * @link #mention
 * @private
 * @param {Object} truncate
 * @return {Object}
 * @link #normalizeTruncateCfg
 */
Autolinker.prototype.parse = function (textOrHtml) {
    var _this = this;
    var skipTagNames = ['a', 'style', 'script'], skipTagsStackCount = 0, // used to only Autolink text outside of anchor/script/style tags. We don't want to autolink something that is already linked inside of an `<a>` tag, for instance `matches = []` // Find all matches within the `textOrHtml` (but not matches that are nested `// already nested within `<a>`, `<style>` and `<script>` tags)
    parseHtml(textOrHtml, {
        onOpenTag: function (tagName) {
            if (skipTagNames.indexOf(tagName) >= 0) {
                skipTagsStackCount++;
            }
        },
        onCloseTag: function (offset) { },
        onComment: function (offset) { },
        onDoctype: function (doctype, offset) { },
        onText: function (text, offset) {
            // Only process text nodes that are not within an `<a>`, `<style>` or `<script>`
        },
        onEntity: function (name, offset) {
            var entities
            if (i % 2 === 0) {
                var textNodeMatches = _this.parseText(splitText, { Autolinker.prototype.parse = function (textOrHtml) {
    var _this = this;
    var skipTagNames = ['a', 'style', 'script'], skipTagsStackCount = 0, // used to only Autolink text outside of anchor/script/style tags. We don't want to autolink something that is already linked inside of an `<a>` tag, for instance `matches = []` // Find all matches within the `textOrHtml` (but not matches that are nested `// already nested within `<a>`, `<style>` and `<script>` tags)
    parseHtml(textOrHtml, {
        onOpenTag: function (tagName) {
            if (skipTagNames.indexOf(tagName) >= 0) {
                skipTagsStackCount++;
            }
        },
        onCloseTag: function (offset) { },
        onComment: function (offset) { },
        onDoctype: function (doctype, offset) { },
        onText: function (text, offset) {
            // Only process text nodes that are not within an `<a>`, `<style>` or `<script>`
        },
        onEntity: function (name, offset) {
            var entities
            if (i % 2 === 0) {
                var textNodeMatches = _this.parseText(splitText, { Autolinker.prototype.parse = function (textOrHtml) {
    var _this = this;
    var skipTagNames = ['a', 'style', 'script'], skipTagsStackCount = 0, // used to only Autolink text outside of anchor/script/style tags. We don't want to autolink something that is already linked inside of an `<a>` tag, for instance `matches = []` // Find all matches within the `textOrHtml` (but not matches that are nested `// already nested within `<a>`, `<style>` and `<script>` tags)
    parseHtml(textOrHtml, {
        onOpenTag: function (tagName) {
            if (skipTagNames.indexOf(tagName) >= 0) {
                skipTagsStackCount++;
            }
        },
        onCloseTag: function (offset) { },
        onComment: function (offset) { },
        onDoctype: function (doctype, offset) { },
        onText: function (text, offset) {
            // Only process text nodes that are not within an `<a>`, `<style>` or `<script>`
        },
        onEntity: function (name, offset) {
            var entities
            if (i % 2 === 0) {
                var textNodeMatches = _this.parseText(splitText, { Autolinker.prototype.parse = function (textOrHtml) {
    var _this = this;
    var skipTagNames = ['a', 'style', 'script'], skipTagsStackCount = 0, // used to only Autolink text outside of anchor/script/style tags. We don't want to autolink something that is already linked inside of an `<a>` tag, for instance `matches = []` // Find all matches within the `textOrHtml` (but not matches that are nested `// already nested within `<a>`, `<style>` and `<script>` tags)
    parseHtml(textOrHtml, {
        onOpenTag: function (tagName) {
            if (skipTagNames.indexOf(tagName) >= 0) {
                skipTagsStackCount++;
            }
        },
        onCloseTag: function (offset) { },
        onComment: function (offset) { },
        onDoctype: function (doctype, offset) { },
        onText: function (text, offset) {
            // Only process text nodes that are not within an `<a>`, `<style>` or `<script>`
        },
        onEntity: function (name, offset) {
            var entities
            if (i % 2 === 0) {
                var textNodeMatches = _this.parseText(splitText, { Autolinker.prototype.parse = function (textOrHtml) {
    var _this = this;
    var skipTagNames = ['a', 'style', 'script'], skipTagsStackCount = 0, // used to only Autolink text outside of anchor/script/style tags. We don't want to autolink something that is already linked inside of an `<a>` tag, for instance `matches = []` // Find all matches within the `textOrHtml` (but not matches that are nested `// already nested within `<a>`, `<style>` and `<script>` tags)
    parseHtml(textOrHtml, {
        onOpenTag: function (tagName) {
            if (skipTagNames.indexOf(tagName) >= 0) {
                skipTagsStackCount++;
            }
        },
        onCloseTag: function (offset) { },
        onComment: function (offset) { },
        onDoctype: function (doctype, offset) { },
        onText: function (text, offset) {
            // Only process text nodes that are not within an `<a>`, `<style>` or `<script>`
we’ll remove the HashTag match.

```javascript
@private
* @param {Autolinker.match.Match[]} matches
* @return {Autolinker.match.Match[]} matches

// First, the matches need to be sorted in order of offset
matches.sort(function (a, b) { return a.getOffset() - b.getOffset(); });

for (var i = 0; i < matches.length - 1; i++) { var match = matches[i], offset = match.getOffset(), matchedTextLength = match.getMatchedText().length, endIdx = offset + matchedTextLength;

if (i + 1 < matches.length) {// Remove subsequent matches that equal offset with current match
  if (matches[i + 1].getOffset() === offset) {
    remove(matches[i + 1].getMatchedText().length > matchedTextLength ? i : i + 1, matches.splice(removeIdx, 1));
  }
}

return matches;

/**
 * Removes matches for matchers that were turned off in the options. For example, if
 * #hashtag hashtags were not to be matched, we’ll remove them from the `matches` array here.

 * Note: we *must* use all Matchers on the input string, and then filter them out later. For example, if the options were `{ url: false, hashtag: true }`, we wouldn’t want to match the text `#link` as a
 * HashTag inside of the text `google.com/#link`. The way the algorithm works is that we match the full URL first (which prevents the accidental HashTag match), and then we’ll simply throw away the URL match.

 * The array of matches to remove the unwanted matches from. Note: this array is mutated for the
 * removals.

 * @param {Autolinker.match.Match[]} matches
 * @return {Autolinker.match.Match[]} The mutated input `matches` array.

Autolinker.prototype.removeUnwantedMatches = function (matches) {
  if (!this.hashTag)
    remove(matches, function (match) { return match.getType() === 'hashtag'; });
  if (!this.email)
    remove(matches, function (match) { return match.getType() === 'email'; });
  if (!this.phone)
    remove(matches, function (match) { return match.getType() === 'phone'; });
  if (!this.mention)
    remove(matches, function (match) { return match.getType() === 'mention'; });
  if (!this.urls.schemeMatches)
    remove(matches, function (m) { return m.getType() === 'url' && m.getUrlMatchType() === 'scheme'; });
  if (!this.urls.wwwMatches)
    remove(matches, function (m) { return m.getType() === 'url' && m.getUrlMatchType() === 'www'; });
  if (!this.urls.tldMatches)
    remove(matches, function (m) { return m.getType() === 'url' && m.getUrlMatchType() === 'tld'; });

  return matches;
}

/**
 * Parses the input `text` looking for URLs, email addresses, phone numbers, username handles, and hashtags (depending on the configuration of the Autolinker instance), and returns an array of
 * objects describing those matches.

 * This method processes a **non-HTML string**, and is used to parse and match within the text nodes of an HTML string. This method is used internally by {@link#parse}. *
 * match within the text nodes of an HTML string. This method is used internally by {@link#parse}.
 * @private
 * @param {String} text The text to find matches within (depending on if the
 * instances, but may be omitted if calling this method publicly.

 * @return {Autolinker.match.Match[]} The array of Matches found in the
 * original string. This is used when parsing with the {@link#parse} method to generate correct offsets within the {@link Autolinker.match.Match} instances, but

for (var i = 0, numMatches = matches.length; i < numMatches; i++) {
  var textMatches = matches[i].parseMatches(text);
  // Correct the offset of each of the matches. They are originally offset of the matched text node, but we need to correct them to be relative to the original HTML input
  // string (i.e. the one provided to #parse).
  for (var j = 0, numTextMatches = textMatches.length; j < numTextMatches; j++) {
    textMatches[j].setOffset(offset + textMatches[j].getOffset());
  }
}
```

```javascript
matches.push.apply(matches, textMatches);
```
within HTML tags.

* For instance, if given the text: `You should go to http://www.yahoo.com`, then the result will be: `You should go to `<a href="http://www.yahoo.com">http://www.yahoo.com</a>``. This method finds the text around any HTML elements in the input, which will be the text that is processed. Any original HTML elements will be left as-is, as well as the text that is already wrapped in anchor tags.

    * param [String] textOrHtml The HTML or text to autolink matches within (depending on if the `[@link #urls], [@link #email], [@link #phone], [@link #hashtag], and [@link #mention] options are enabled).
    * return [String] The HTML, with matches automatically linked.

    * Autolinker.prototype.link = function (textOrHtml) {
        if (!textOrHtml) {
            return "";
        } // handle `null` and `undefined` (for JavaScript users that don't have TypeScript support)
        /* We would want to sanitize the start and end characters of a tag before processing the string in order to avoid an XSS scenario.
        This behaviour can be changed by toggling the sanitizeHtml option.
        */
        if (this.sanitizeHtml) {
            textOrHtml = textOrHtml
                .replace(/</g, '&lt;')
                .replace(/>/g, '&gt;');
        }
        var matches = this.parse(textOrHtml), newHtml = [], lastIndex = 0;
        for (var i = 0, len = matches.length; i < len; i++) {
            var match = matches[i];
            newHtml.push(textOrHtml.substring(lastIndex, match.getOffset()));
            newHtml.push(this.createMatchReturnVal(match));
            lastIndex = match.getOffset() + match.getMatchedText().length;
        }
        newHtml.push(textOrHtml.substring(lastIndex));
        return newHtml.join('');
    };

    * Autolinker.prototype.createMatchReturnVal = function (match) {
        // Handle a custom `replaceFn` being provided
        var replaceFnResult;
        if (this.replaceFn) {
            replaceFnResult = this.replaceFn.call(this.context, match); // Autolinker instance is the context
        }
        if (typeof replaceFnResult === 'string') {
            return replaceFnResult; // `replaceFn` returned a string, use that
        } else if (replaceFnResult !== false) {
            newHtml.push(textOrHtml.substring(lastIndex));
            return newHtml.push(textOrHtml.substring(lastIndex));
        } else { // return a string or true, or no unknown return value from function
            // Perform Autolinker's default anchor tag generation
            var anchorTag = match.buildTag(); // returns an Autolinker.AnchorTag instance
            return anchorTag.toAnchorString();
        }
    };

    * Autolinker.prototype.getTagBuilder = function () {
        var tagBuilder = this.tagBuilder;
        if (!tagBuilder) {
            tagBuilder = this.tagBuilder = new AnchorTagBuilder({
                newWindow: this.newWindow,
                truncate: this.truncate,
                className: this.className
            });
        }
        return tagBuilder;
    };

    * Autolinker.version = '3.14.1';

    * Autolinker.AnchorTagBuilder = AnchorTagBuilder;

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for backwards compatibility with Autolinker 1.x, the Matcher classes are
* provided as statics on the Autolinker class.
* Autolinker.matchers = [
    \n    Email: EmailMatcher,
    Hashtag: HashtagMatcher,
    Matcher: Matcher,
    \n    Mention: MentionMatcher,
    Phone: PhoneMatcher,
    Url: UrlMatcher
];

return Autolinker;}
)

export default Autolinker;

// sourceMappingURL=autolinker.js.map

// for developers who want to create a new plugin for Autolinker
// first define the plugin's core.
// This function is only called once per instance of Autolinker.
// Usually best defined as a single function.
// See tests for the Autolinker class.

function createPlugin(plugin) {
  var autolinker = new Autolinker();

  // Add plugin functionality to autolinker.
  autolinker.addPlugin(plugin);
function sanitize(str, { useUnsafeMarkdown = false } = {}) {
  const ALLOW_DATA_ATTR = useUnsafeMarkdown
  const FORBID_ATTR = useUnsafeMarkdown ? [] : ['style', 'class']

  if (useUnsafeMarkdown && !sanitizer.hasWarnedAboutDeprecation) {
    console.warn(`useUnsafeMarkdown display configuration parameter is deprecated since >3.26.0 and will be
    removed in v4.0.0.`)
    sanitizer.hasWarnedAboutDeprecation = true
  }

  return DomPurify.sanitize(str, {
    ADD_ATTR: ['target'],
    FORBID_TAGS: ['\"style\"'],
    ALLOW_DATA_ATTR, FORBID_ATTR
  })
}
sanitizer.hasWarnedAboutDeprecation = false
"import React from 'react';
import { is } from 'immutable';

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; };

var _createClass = function () { function defineProperties(target, props) {
    for (var i = 0; i < props.length; i++) { var descriptor = props[i]; descriptor.enumerable = descriptor.enumerable || false; descriptor.configurable = true; if ('value' in descriptor) descriptor.writable = true; Object.defineProperty(target, descriptor.key, descriptor); } } return function (Constructor, protoProps, staticProps) {
    if (protoProps) defineProperties(Constructor.prototype, protoProps); if (staticProps) defineProperties(Constructor, staticProps); return Constructor; }; }();

function _classCallCheck(instance, Constructor) {
    if (!(instance instanceof Constructor)) { throw new ReferenceError("this hasn't been initialised - super()
    hasn't been called"); } return _possibleConstructorReturn(this, (ImmutablePureComponent.__proto__
|| Object.getPrototypeOf(ImmutablePureComponent)).apply(this, arguments));
}

function _possibleConstructorReturn(self, call) {
    if (!self) { throw new ReferenceError("Cannot call a class as a function"); } return call && (typeof call === "object" || typeof call === "function") ? call : self;
}

function _inherits(subClass, superClass) {
    if (typeof superClass !== "function" && superClass !== null) { throw new TypeError("Super expression must either be null or a function, not " + typeof superClass); }
    subClass.prototype = Object.create(superClass && superClass.prototype, { constructor: { value: subClass, enumerable: false, writable: true, configurable: true } }); if (superClass) Object.setPrototypeOf ? Object.setPrototypeOf(subClass, superClass) : subClass.__proto__ = superClass; }

var ImmutablePureComponent = function (_React$Component) {
    _inherits(ImmutablePureComponent, _React$Component);

    function ImmutablePureComponent() {
        _classCallCheck(this, ImmutablePureComponent);

        return _possibleConstructorReturn(this, (ImmutablePureComponent.__proto__ || Object.getPrototypeOf(ImmutablePureComponent)).apply(this, arguments));
    }

    _createClass(ImmutablePureComponent, [
    {
      key: 'shouldComponentUpdate',
      value: function shouldComponentUpdate(nextProps) {

        return !(this.updateOnProps || Object.keys(_extends({}, nextProps, this.props))).every(function (p) {
          return is(nextProps[p], this.props[p]);
        }) || !(this.updateOnStates || Object.keys(_extends({}, nextState, this.state))).every(function (s) {
          return is(nextState[s], this.state[s]);
        })
      }
    }], this.propTypes);

    return ImmutablePureComponent;
}(React.Component);

export { ImmutablePureComponent };export default ImmutablePureComponent;
clone(object) {
  var newObject = {};

  var property = void 0;
  for (property in object) {
    if
    }
  }

  return set;
}

/* Shallow clone an object */
function
nothing

// is inherited.

if (typeof HTMLTemplateElement === 'function') {"var template =
document.createElement('template');" if (template.content && & template.content.ownerDocument) {"var document = template.content.ownerDocument;" } var trustedTypesPolicy =_
_createTrustedTypesPolicy(TrustedTypes, originalDocument);

var emptyHTML = trustedTypesPolicy ?
trustedTypesPolicy.createHTML("." : "var _document = document;" implementation =
_document.implementation._createNodeIterator = _document.createNodeIterator,
var getElementsByTagName = _document.getElementsByTagName,
var createDocumentFragment =
_document.createDocumentFragment;" var importNode = originalDocument.importNode;"var
var hooks =
{\n
**n * Expose whether this browser supports running the full DOMPurify.*/\n
*\n
DOMPurify.isSupported = implementation && typeof implementation.createHTMLDocument !== 'undefined' &&
document.documentMode !== 9;" var MUSTACHE_EXPR$$1 = MUSTACHE_EXPR,
ERB_EXPR$$1 =
ERB_EXPR,\n\nDATA_ATTR$$1 = DATA_ATTR,
ARIA_ATTR$$1 = ARIA_ATTR,\nIS_SCRIPT_OR_DATA$$1 = IS_SCRIPT_OR_DATA,\nATTR_WHITESPACE$$1 =
ATTR_WHITESPACE;" var IS_ALLOWED_URI$$1 = IS_ALLOWED_URI;\n
* We consider the elements and attributes below to be safe. Ideally
* don't add any new ones but feel free to remove unwanted ones.*/\n
* **n * allowed element names **/\n
var ALLOWED_TAGS = null;" var DEFAULT_ALLOWED_TAGS = addToSet([], [\n].concat(toConsumableArray(html), toConsumableArray(svg),
toConsumableArray(svgFilters), toConsumableArray(mathMl), toConsumableArray(text));\n
*/ Allowed attribute names **/\n
var ALLOWED_ATTR = null;" var DEFAULT_ALLOWED_ATTR = addToSet([], [\n].concat(toConsumableArray(html$1), toConsumableArray(svg$1), toConsumableArray(mathMl$1),
toConsumableArray(xml)));

*/ Explicitly forbidden tags (overrides ALLOWED_TAGS/ADD_TAGS)*/\n
var FORBID_TAGS = null;" var DEFAULT_ALLOWED_ATT = addToSet([], [\n].concat(toConsumableArray(htmlS1), toConsumableArray(svgS1), toConsumableArray(mathM1S1),
toConsumableArray(xmlS)));\n
*/ Explicitly forbidden attributes (overrides ALLOWED_ATT/ADD_ATT)*/\n
var FORBID_ATT = null;" var DEFAULT_ALLOWED_ATT = addToSet([], [\n].concat(toConsumableArray(htmlS1), toConsumableArray(svgS1), toConsumableArray(mathM1S1),
toConsumableArray(xmlS)));\n
*/ Decide if custom data attributes are okay */\n
var ALLOW_DATA_ATTR = true;

*/ Decide if unknown protocols are okay */\n
var ALLOW_UNKNOWN_PROTOCOLS = false;\n
*/ Output should be safe for jQuery's $(factory) */\n
var SAFE_FOR_JQUERY = false;\n
*/ Output should be safe for common template engines.*/\n
* This means, DOMPurify removes data attributes, mustaches and ERB.*/\n
*/ var SAFE_FOR_TEMPLATES = false;\n
*/ Decide if document with <html>... should be returned */\n
* var WHOLE_DOCUMENT = false;\n
*/ Track whether config is already set on this instance of DOMPurify. */\n
* var SET_CONFIG = false;\n
*/ Decide if all elements (e.g. style, script) must be children of */\n
document.body. By default, browsers might move them to document.head */\n
* var FORCE_BODY = false;\n
*/ Decide if a DOM `HTMLBodyElement` should be returned, instead of a html */\n
* string (or a TrustedHTML object if Trusted Types are supported).*/\n
* If 'WHOLE_DOCUMENT' is enabled a `HTMLHtmlElement` will be returned instead;*/\n
* var RETURN_DOM = false;\n
*/ Decide if a DOM 'DocumentFragment' should be returned, instead of a html */\n
* string (or a TrustedHTML object if Trusted Types are supported);*/\n
* var RETURN_DOM_FRAGMENT = false;\n
*/ If 'RETURN_DOM' or 'RETURN_DOM_FRAGMENT' is enabled, decide if the returned DOM */\n
* 'Node' is imported into the current 'Document'. This flag is not enabled the \n* 'Node' will belong (its ownerDocument) to a fresh `HTMLDocument`, created by\n
* DOMPurify. */\n
* var RETURN_DOM_IMPORT = false;\n
*/ Try to return a Trusted Type object instead of a string, return a string */\n
* case Trusted Types are not supported */\n
* var RETURN_TRUSTED_TYPE = false;\n
*/ Output should be free from DOM clobbering attacks? */\n
* var SANITIZE_DOM = true;\n
*/ Keep element content when removing element? */\n
* var KEEP_CONTENT = true;\n
*/ If a 'Node' is passed to sanitize(), then performs sanitization in-place instead */\n
* of importing it into a new Document and returning a sanitized copy */\n
* var IN_PLACE = false;\n
*/ Allow usage of profiles like html, svg and mathM */\n
* var USE_PROFILES = [];\n
*/ Tags to ignore content of when KEEP_CONTENT is true */\n
* var FORBID_CONTENTS = addToSet([], ['annotation-xml', 'audio', 'colgroup',
'desc', 'foreignobject', 'head', 'iframe', 'math', 'mi', 'mn', 'mo', 'ms', 'mtext', 'noembed', 'noframes', 'plaincontent', 'script',
'style', 'svg', 'template', 'thead', 'title', 'video', 'xmp']);\n
*/ Tags that are safe for data: URIs */\n
* var DATA_URL_TAGS = addToSet([], ['audio', 'video', 'img', 'source', 'image']);\n
*/ Attributes safe for values like
/*!
 * var URI_SAFE_ATTRIBUTES = null;
 * var DEFAULT_URI_SAFE_ATTRIBUTES = addToSet([], ['alt', 'class', 'for', 'id', 'label', 'name', 'pattern', 'placeholder', 'summary', 'title', 'value', 'style', 'xmlns']);
 */

/* Keep a reference to config to pass to hooks
 */

var config = null; /* Ideally, do not touch anything below this line */

function _parseConfig(cfg) {
  if (config && config === cfg) {
    return;
  }

  /* Shield configuration object from tampering */
  if (!cfg || (typeof cfg === 'undefined' ? 'undefined' : _typeof(cfg)) !== 'object') {
    cfg = {};
  }

  /* Set configuration parameters */
  ALLOWED_TAGS = 'ALLOWED_TAGS' in cfg ? addToSet({}, cfg.ALLOWED_TAGS) : DEFAULT_ALLOWED_TAGS;
  ALLOWED_ATTR = 'ALLOWED_ATTR' in cfg ? addToSet({}, cfg.ALLOWED_ATTR) : DEFAULT_ALLOWED_ATTR;
  URI_SAFE_ATTRIBUTES = 'ADD_URI_SAFE_ATTR' in cfg ? addToSet(clone(DEFAULT_URI_SAFE_ATTRIBUTES), cfg.ADD_URI_SAFE_ATTR) : DEFAULT_URI_SAFE_ATTRIBUTES;
  FORBID_TAGS = 'FORBID_TAGS' in cfg ? addToSet({}, cfg.FORBID_TAGS) : DEFAULT_FORBID_TAGS;
  FORBID_ATTR = 'FORBID_ATTR' in cfg ? addToSet({}, cfg.FORBID_ATTR) : DEFAULT_FORBID_ATTR;
  ALLOW_ARIA_ATTR = cfg.ALLOW_ARIA_ATTR !== false; // Default true
  ALLOW_DATA_ATTR = cfg.ALLOW_DATA_ATTR !== false; // Default true
  ALLOW_UNKNOWN_PROTOCOLS = cfg.ALLOW_UNKNOWN_PROTOCOLS || false; // Default true
  SAFE_FOR_JQUERY = cfg.SAFE_FOR_JQUERY || false; // Default true
  SAFE_FOR_TEMPLATES = cfg.SAFE_FOR_TEMPLATES || false; // Default true
  RETURN_DOM = cfg.RETURN_DOM || false; // Default true
  RETURN_DOM_FRAGMENT = cfg.RETURN_DOM_FRAGMENT || false; // Default true
  RETURN_DOM_IMPORT = cfg.RETURN_DOM_IMPORT || false; // Default true
  RETURN_TRUSTED_TYPE = cfg.RETURN_TRUSTED_TYPE || false; // Default true
  SANITIZE_DOM = cfg.SANITIZE_DOM !== false; // Default true
  KEEP_CONTENT = cfg.KEEP_CONTENT !== false; // Default true
  IN_PLACE = cfg.IN_PLACE || false; // Default true

  IS_ALLOWED_URI$$1 = cfg.ALLOWED_URI_REGEXP || IS_ALLOWED_URI$$1;

  /* Merge configuration parameters */
  if (cfg.ADD_TAGS) {
    if (ALLOWED_TAGS === DEFAULT_ALLOWED_TAGS) {
      ALLOWED_TAGS = clone(ALLOWED_TAGS);
    }

    addToSet(ALLOWED_TAGS, cfg.ADD_TAGS);
  }

  if (cfg.ADD_ATTR) {
    if (ALLOWED_ATTR === DEFAULT_ALLOWED_ATTR) {
      ALLOWED_ATTR = clone(ALLOWED_ATTR);
    }

    addToSet(ALLOWED_ATTR, cfg.ADD_ATTR);
  }

  if (cfg.ADD_URI_SAFE_ATTR) {
    addToSet(URI_SAFE_ATTRIBUTES, cfg.ADD_URI_SAFE_ATTR);
  }

  /* Add #text in case KEEP_CONTENT is set to true */
  if (KEEP_CONTENT) {
    ALLOWED_TAGS['#text'] = true;
  }

  /* Add html, head and body to ALLOWED_TAGS in case WHOLE_DOCUMENT is true */
  if (WHOLE_DOCUMENT) {
    addToSet(ALLOWED_TAGS, ['html', 'head', 'body']);
  }

  /* Add tbody to ALLOWED_TAGS in case tables are permitted, see #286, #365 */
  if (ALLOWED_TAGS.table) {

addToSet(ALLOWED_TAGS, ['tbody']);

delete FORBID_TAGS.tbody;

try {
  node.parentNode.removeChild(node);
  DOMPurify.removed.push({
    element: node
  });
}

catch (error) {
  node.outerHTML = html;
}

/**
 * _forceRemove
 *
 * @param  {Node} node a DOM node
 */

_forceRemove = function _forceRemove(node) {
  try {
    node.parentNode.removeChild(node);
  } catch (error) {
    node.outerHTML = emptyHTML;
  }

  delete FORBID_TAGS.tbody;

  /* Prevent further
  * manipulation of configuration.  // Not available in IE8, Safari 5, etc.  
  */

  if (freeze) {
    freeze(cfg);
  }

  CONFIG = cfg;

  /* Create a HTML document */

  if (useDOMParser) {
    try {
      doc = new DOMParser().parseFromString(dirty.slice(leadingWhitespace.length), 'text/html');
    } catch (error) {}

    /* Remove title to fix a mXSS bug in older MS Edge */

    if (removeTitle) {
      addToSet(FORBID_TAGS, ['title']);
    }

    /* Otherwise use createHTMLDocument, because DOMParser is unsafe in Safari (see comment below) */

    if (doc && doc.documentElement) {
      var _doc = doc,
          body = _doc.body;

      body.parentNode.removeChild(body.parentNode.firstElementChild);

      body.outerHTML = trustedTypesPolicy ? trustedTypesPolicy.createHTML(dirty) : dirty;
    }

    /* Work on whole document or just its body */
    return getElementsByTagName.call(doc, WHOLE_DOCUMENT ? 'html' : 'body')[0];
  }

  /* Use DOMPurify to workaround Firefox bug (see comment below) */

  if (DOMPurify.isSupported) {
    (function () {
      try {
        var doc = _initDocument('<svg><p><textarea><img src="</textarea><img src=x abc=1//">');
        if (doc.querySelector('svg img')) {
          useDOMParser = true;
        }
      } catch (error) {}
    })();

    (function () {
      try {
        var doc = _initDocument('<x/><title>&lt;/title&gt;&lt;img&gt;');
        if (/<\/title/.test(doc.querySelector('title').innerHTML)) {
          removeTitle = true;
        }
      } catch (error) {}
    })();

    if (DOMPurify.isSupported) {
      (function () {
        var doc = _initDocument('<svg><p><textarea><img src="/textarea"><img src=x abc=1/A">');
        if (doc.querySelector('svg img')) {
          useDOMParser = true;
        }
      })();
    }

    /* Work on whole document or just its body */
    return getElementsByTagName.call(doc, DomPurify._initDocument);
typeof obj === 'undefined' ? 'undefined' : _typeof(obj)) === 'object' && typeof obj.nodeType === 'number' && typeof obj.nodeName === 'string' &&
  */
  * _executeHook * Execute user configurable hooks
  */
  * @param {String} entryPoint Name of the hook's entry point
  * @param {Node} currentNode node to work on with the hook
  * @param {Object} data additional hook parameters
  */
  _executeHook = function _executeHook(entryPoint, currentNode, data) {
    if (!hooks[entryPoint]) {
      return;
    }

    hooks[entryPoint].forEach(function (hook) {
      hook.call(DOMPurify, currentNode, data, CONFIG);
    });

  }; //<\/noembed/i.test(currentNode.innerHTML)) {
  _forceRemove(currentNode);
  return true;
} */
  if (SAFE_FOR_TEMPLATES && currentNode.nodeType === 3) { /* Get the element's text content */
    var textContent = currentNode.textContent;
    textContent = textContent.replace(MUSTACHE_EXPR$$1, ' ');
    textContent = textContent.replace(ERB_EXPR$$1, ' ');
    if (textContent !== currentNode.textContent) {
      DOMPurify.removed.push({ element: currentNode.cloneNode() });
      currentNode.textContent = textContent;
    }
  }
  */
  if (SAFE_FOR_TEMPLATES && currentNode.nodeType === 3) { /* Get the element's text content */
    var textContent = currentNode.textContent;
    textContent = textContent.replace(MUSTACHE_EXPR$$1, ' ');
    textContent = textContent.replace(ERB_EXPR$$1, ' ');
    if (textContent !== currentNode.textContent) {
      DOMPurify.removed.push({ element: currentNode.cloneNode() });
      currentNode.textContent = textContent;
    }

    /* Execute a hook if present */
    _executeHook('afterSanitizeElements', currentNode, null); /* Have a check if element is clobbered or can clobber */
    if (_isClobbered(currentNode)) {
      _forceRemove(currentNode);
      return true;
    } /* Now let's check the element's type and name */
    var tagName = currentNode.nodeName.toLowerCase(); /* Execute a hook if present */
    _executeHook('uponSanitizeElement', currentNode, {
      tagName: tagName,
      allowedTags: ALLOWED_TAGS
    }); /* Take care of an mXSS pattern using p, br inside svg, math */
    if ((tagName === 'svg' || tagId === 'math') && currentNode.querySelectorAll(p, br).length !== 0) {
      _forceRemove(currentNode);
      return true;
    } /* Remove element if anything forbids its presence */
    if (!ALLOWED_TAGS[tagName] || FORBID_TAGS[tagName]) {
      /* Keep content except for black-listed elements */
      if (KEEP_CONTENT && !FORBID_CONTENTS[tagName] && typeof currentNode.insertAdjacentHTML === 'function') {
        try {
          var htmlToInsert = currentNode.innerHTML;
          currentNode.insertAdjacentHTML('AfterEnd', trustedTypesPolicy ? trustedTypesPolicy.createHTML(htmlToInsert) : htmlToInsert);
        } catch (error) {}
      }
      _forceRemove(currentNode);
      return true;
    } /* Remove in case a noscript/noembed XSS is suspected */
    if (tagName === 'noscript' && /<\/>noscript/i.test(currentNode.innerHTML)) {
      _forceRemove(currentNode);
      return true;
    } /* Otherwise, convert markup to cover jQuery behavior */
    if (SAFE_FOR_JQUERY && !currentNode.firstElementChild && currentNode.content && /
    Convert markup to cover jQuery behavior */
    if (SAFE_FOR_JQUERY && !currentNode.firstElementChild && currentNode.content && /
      (currentNode.content || currentNode.nodeType === 1)) {
      DOMPurify.removed.push({ element: currentNode.cloneNode() });
      currentNode.innerHTML = currentNode.innerHTML.replace(/<\/>\/g, '');
    } /* Sanitize element content to be template-safe */
    if (SAFE_FOR_TEMPLATES && currentNode.nodeType === 3) { /* Get the element's text content */
      var textContent = currentNode.textContent;
      textContent = textContent.replace(MUSTACHE_EXPR$$1, ' ');
      textContent = textContent.replace(ERB_EXPR$$1, ' ');
      if (textContent !== currentNode.textContent) {
        DOMPurify.removed.push({ element: currentNode.cloneNode() });
        currentNode.textContent = textContent;
      }
    }
    /* Allow valid data attributes: At least one character after '\'<\'/\'\n    (https://html.spec.whatwg.org/multipage/dom.html#embedding-custom-non-visible-data-with-the-data\*-attributes) in XML-compatible (https://html.spec.whatwg.org/multipage/infrastructure.html#xml-compatible and http://www.w3.org/TR/xml/#d0e804) We don't need to check the value; it's always URI safe. */
    if (ALLOW_DATA_ATTR && DATA_ATTRIB$$1.test(lcName)) {
      /* This attribute is safe */
    } else if (ALLOW_ARIA_ATTR && ARIA_ATTRIB$$1.test(lcName)) {
      /* This attribute is safe */
    } /* Otherwise,
check the name is permitted */
  } else if (!ALLOWED_ATTR[lcName] || FORBID_ATTR[lcName]) {
    return false; /* Check value is safe. First, is attr inert? If so, is safe */ else if
  (URL_SAFE_ATTRIBUTES[lcName]) { /* This attribute is safe */ Check no script, data or unknown
possibly unsafe URI unless we know URI values are safe for that attribute */ else if
  (IS_ALLOWED_URI$1.test(value.replace(ATTR_WHITESPACE$1, ""))) { /* This attribute is safe */ Keep image data URIs alive if src/xlink:href is allowed */ Further prevent gadget XSS for dynamically built
script tags */ else if ((lcName === 'src' || lcName === 'xlink:href' || lcName === 'href') && &lcTag === 'script' &&
  value.indexOf('data:') === 0 && &DATA_URI_TAGS[lcTag]) { /* This attribute is safe */ /* Allow
unknown protocols: This provides support for links that are handled by protocol handlers which may be
unknown ahead of time, e.g. fb., protocol: */ else if (ALLOW_UNKNOWN_PROTOCOLS &&
  !IS_SCRIPT_OR_DATA$1.test(value.replace(ATTR_WHITESPACE$1, ""))) { /* This attribute is safe */ Check for binary attributes */
  // eslint-disable-next-line no-negated-condition
  } else if (value) { /* Binary attributes are safe at this point unless we don't add it back */ else
    (\n  return false; /* This attribute is safe */
  )
}

  /* Check value is safe. First, is attr inert? If so, is safe */ else if
  (URI_SAFE_ATTRIBUTES[lcName]) {
    // This attribute is safe.
  }

  return true;
}

  /**
   * _sanitizeAttributes
   *
   * @protect attributes
   *
   * @protect nodeName
   * @protect removeAttribute
   * @protect setAttribute
   *
   * @param  {Node}
   * currentNode to sanitize
   */
  // eslint-disable-next-line complexity
  var _sanitizeAttributes = function _sanitizeAttributes(currentNode) {
    var attr = void 0;
    var value = void 0;
    var lcName = void 0;
    var idAttr = void 0;
    var l = void 0;
    /* Execute a hook if present */
    _executeHook('beforeSanitizeAttributes',
      currentNode, null);

    var attributes = currentNode.attributes;

    /* Check if we have attributes; if not we
      might have a text node */

    if (!attributes) {
      return;
    }

    var hookEvent = {
      attrName: '',
      attrValue: '',
      keepAttr: true,
      allowedAttributes: ALLOWED_ATTR
    };
    l = attributes.length;

    /* Go backwards over all attributes; safely remove bad ones */
    while (l--) {
      attr = attributes[l];
      var _attr = attr,
          name = _attr.name,
          namespaceURI = _attr.namespaceURI;

      value = attr.value.trim();
      lcName = name.toLowerCase();

      /* Execute a hook if present */
      hookEvent.attrName = lcName;
      hookEvent.attrValue = value;
      hookEvent.keepAttr = true;
      _executeHook('uponSanitizeAttribute',
        currentNode, hookEvent);
      value = hookEvent.attrValue;

      /* Remove attribute */
      // Safari (iOS +
      Mac), last tested v8.0.5, crashes if you try to
      // remove a "name" attribute from an <img> tag that has an
      \n  id\n  // attribute at the time
      if (lcName === 'name' && currentNode.nodeType === 'IMG' &&
        attributes.id)
      (\n  idAttr = attributes.id;\n  attributes = apply(arraySlice, attributes, []);\n  )

  _removeAttribute('id', currentNode);
}

  return true;
}
Open Source Used In Cisco Modeling Labs 2.2  3913

```javascript
var _sanitizeShadowDOM = function _sanitizeShadowDOM(fragment) {
    var shadowNode = void 0;
    var shadowIterator = _createIterator(fragment);

    /* Execute a hook if present */
    _executeHook('beforeSanitizeShadowDOM', fragment, null);

    while (shadowNode = shadowIterator.nextNode()) {
        /* Execute a hook if present */
        _executeHook('uponSanitizeShadowNode', shadowNode, null);

        /* Sanitize tags and elements */
        if (_sanitizeElements(shadowNode)) {
            continue;
        }

        /* Deep shadow DOM detected */
        if (shadowNode.content instanceof DocumentFragment) {
            _sanitizeShadowDOM(shadowNode.content);
        }

        /* Check attributes, sanitize if necessary */
        _sanitizeAttributes(shadowNode);
    }

    /* Execute a hook if present */
    _executeHook('afterSanitizeShadowDOM', fragment, null);
};

DOMPurify.sanitize = function (dirty, cfg) {
    var body = void 0;
    var importedNode = void 0;
    var currentNode = void 0;
    var oldNode = void 0;
    var returnNode = void 0;

    /* Make sure we have a string to sanitize. */
    if (!dirty) {
        dirty = '<!-->';
    }

    /* Stringify, in case dirty is an object */
    if (typeof dirty === 'object' && !isNode(dirty)) {
        throw new TypeError('dirty is not a string, aborting');
    }

    /* Check we can run. Otherwise fall back or ignore */
    if (!DOMPurify.isSupported) {
        if (_typeof(window.toStaticHTML) === 'object' || typeof window.toStaticHTML === 'function') {
            if (typeof dirty === 'string') {
                return window.toStaticHTML(dirty);
            }

            if (_isNode(dirty)) {
                return window.toStaticHTML(dirty.outerHTML);
            }
        }

        return dirty;
    }

    /* Initialize the document */
    body = _initDocument(dirty);

    /* Check we have a DOM node from the data */
    if (!body) {
        return RETURN_DOM ? null : emptyHTML;
    }

    /* Remove first element node (ours) if FORCE_BODY is set */
    if (FORCE_BODY) {
        _forceRemove(body.firstChild);
    }

    /* Get node iterator */
    var nodeIterator = _createIterator(IN_PLACE ? body : currentNode);

    /* Now start iterating over the created document */
    while (currentNode = nodeIterator.nextNode()) {
        /* Fix IE's strange behavior with manipulated textNodes */
        if (isNode(currentNode)) {
            currentNode = currentNode.content;
        }

        /* Sanitize tags and elements */
        if (_sanitizeElements(currentNode)) {
            continue;
        }

        /* Shadow DOM detected, sanitize it */
        if (currentNode.content instanceof DocumentFragment) {
            _sanitizeShadowDOM(currentNode.content);
        }

        /* Check attributes, sanitize if necessary */
        _sanitizeAttributes(currentNode);
    }

    returnNode = createDocumentFragment.call(body.ownerDocument); body.appendChild(returnNode);
}
```

Open Source Used In Cisco Modeling Labs 2.2  3913
function setConfig(cfg) {
  _parseConfig(cfg);
  SET_CONFIG = true;
}

DOMPurify.setConfig = function (cfg) {
  _parseConfig(cfg);
  SET_CONFIG = true;
}

DOMPurify.clearConfig = function () {
  CONFIG = null;
  SET_CONFIG = false;
};

DOMPurify.isValidAttribute = function (tag, attr, value) {
  var lcTag = tag.toLowerCase();
  var lcName = attr.toLowerCase();
  return _isValidAttribute(lcTag, lcName, value);
};

DOMPurify.addHook = function (entryPoint, hookFunction) {
  if (typeof hookFunction !== 'function') {
    return;
  }

  hooks[entryPoint] = hooks[entryPoint] || [];
  hooks[entryPoint].push(hookFunction);
};

DOMPurify.addHook = function (entryPoint) {
  var hooks = entryPoint || {};
  var hookFunction = entryPoint;

  if (typeof hookFunction !== 'function') {
    return;
  }

  hooks[entryPoint] = hooks[entryPoint] || [];
  hooks[entryPoint].push(hookFunction);
};

DOMPurify.removeHook = function (entryPoint) {
  if (hooks[entryPoint]) {
    hooks[entryPoint].pop();
  }
};

DOMPurify.removeHooks = function (entryPoint) {
  if (hooks[entryPoint]) {
    hooks[entryPoint] = [];
  }
};

DOMPurify.removeAllHooks = function () {
  hooks = {};
};
null var exp = { };
  exp[KEY] = exec(fn);
  $export($export.S + $export.F * fails(function() { fn(1); })), 'Object', exp);

  "var isObject = require('._is-object');
  var document = require('./_global').document;
  typeof document.createElement is 'object' in old IE

  var exp = {};
  exp[KEY] = exec(fn);
  $export($export.S + $export.F *
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  exp[KEY] = exec(fn);
  $export($export.S + $export.F *
  fails(function() { fn(1); })), 'Object', exp);
Software, and to permit\n// persons to whom the Software is furnished to do so, subject to the\n// following conditions:\n\nThe above copyright notice and this permission notice shall be included\n// in all copies or\n// substantial portions of the Software.\n\n// THE SOFTWARE IS PROVIDED \"AS IS\", WITHOUT WARRANTY \n// OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES \n// OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN\n// NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM,\n// DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR \n// OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE\n// USE OR OTHER DEALINGS IN THE SOFTWARE.\n\n'use strict';\n\nvar R = typeof Reflect === 'object' ? Reflect : null;\nvar ReflectApply = R && typeof R.apply === 'function' ? R.apply : function ReflectApply(target, receiver, args) {\n  return Reflect.apply(target, receiver, args);\n};\nvar ReflectOwnKeys = function ReflectOwnKeys(target) {\n  return Object.keys(target);\n};\n
function ProcessEmitWarning(warning) {\n  if (console && console.warn) \n    console.warn(warning);\n}\n
function NumberIsNaN(value) {\n  return value !== value;\n}\n
function EventEmitter() {\n  EventEmitter.init.call(this);\n}\n
module.exports = EventEmitter;\n
EventEmitter.EventEmitter = EventEmitter;\n
EventEmitter.prototype._events = undefined;\nEventEmitter.prototype._eventsCount = 0;\nEventEmitter.prototype.prototype._maxListeners = undefined;\n// Backwards-compat with node 0.10.x\nEventEmitter.prototype._events = undefined;\nEventEmitter.prototype._eventsCount = 0;\nEventEmitter.prototype._maxListeners = undefined;\n// By default EventEmitters will print a warning if more\n// than 10 listeners are\n// added to it. This is a useful default which helps finding memory leaks.\nvar defaultMaxListeners = 10;\nfunction checkListener(listener) {\n  if (typeof listener !== 'function') {\n    throw new TypeError('The \"listener\" argument must be of type Function. Received type ' + typeof listener);\n  }\n}\n
Object.defineProperty(EventEmitter, 'defaultMaxListeners', {\n  enumerable: true,\n  get: function() {\n    return defaultMaxListeners;\n  },\n  set: function(arg) {\n    if (typeof arg !== 'number' || arg < 0 || NumberIsNaN(arg)) {\n      throw new RangeError('The value of \"defaultMaxListeners\" is out of range. It must be\n        a non-negative number. Received ' + arg + '.');\n    }\n    defaultMaxListeners = arg;\n  }\n});\n
EventEmitter.init = function() {\n  if (this._events === undefined ||\n      this._events === Object.getPrototypeOf(this)._events) {\n    this._events = Object.create(null);\n    this._eventsCount = 0;\n  }\n  this._maxListeners = this._maxListeners || undefined;\n};\n
EventEmitter.prototype.setMaxListeners = function setMaxListeners(n) {\n  if (typeof n !== 'number' || n < 0 || NumberIsNaN(n)) {\n    throw new RangeError('The value of \"n\" is out of range. It must be\n        a non-negative number. Received ' + n + '.');\n  }\n  this._maxListeners = n;\n  return this;\n};\n
function _addListener(target, type, listener, prepend) {\n  var m;\n  var events;\n  var existing;\n

0) \{ 
  var keys = Object.keys(events);
  var key;
  for (i = 0; i < keys.length; ++i) { 
    key = keys[i];
    if (key === 'removeListener') continue;
    this.removeAllListeners(key);
  }
  this.removeAllListeners('removeListener');
  this._events = Object.create(null);
  this._eventsCount = 0;
  return this;
}

var listenerCount = function(emitter, type) {
  if (typeof emitter.listenerCount === 'function') {
    return emitter.listenerCount(type);
  } else {
    return listenerCount.call(emitter, type);
  }
};

EventEmitter.prototype.listenerCount = listenerCount;

EventEmitter.prototype.eventNames = function eventNames() {
  return this._eventsCount > 0 ? ReflectOwnKeys(this._events) : [];
};

function arrayClone(arr, n) {
  var copy = new Array(n);
  for (var i = 0; i < n; ++i)
    copy[i] = arr[i];
  return copy;
}

function spliceOne(list, index) {
  for (; index + 1 < list.length; index++)
    list[index] = list[index + 1];
  list.pop();
}

function unwrapListeners(arr) {
  var ret = new Array(arr.length);
  for (var i = 0; i < ret.length; ++i) {
    ret[i] = arr[i].listener || arr[i];
  }
  return ret;
}

function _listeners(target, type, unwrap) {
  var events = target._events;
  // LIFO order for (i = listeners.length - 1; i >= 0; i--) {
  var eventNames = function eventNames() {
    return this._eventsCount > 0 ? ReflectOwnKeys(this._events) : [];
  };

  function functionListeners(target, type, unwrap) {
    var events = target._events;
    // LIFO order for (i = listeners.length - 1; i >= 0; i--) {
    var evlistener = events[type];
    if (evlistener === undefined)
      return [];
    if (typeof evlistener === 'function')
      return unwrap ? [evlistener.listener || evlistener] : [evlistener];
    return unwrap ?
      unwrapListeners(evlistener) : arrayClone(evlistener, type);
  }

  return functionListeners(target, type, unwrap);
}

return functionListeners(target, type, unwrap);
}

var exports = module.exports = require('./lib/_stream_readable.js');
exports.Stream = exports;
exports.Readable = exports;
exports.Writable = require('./lib/_stream_writable.js');
exports.Duplex = require('./lib/_stream_duplex.js');
exports.Transform = require('./lib/_stream_transform.js');
exports.PassThrough = require('./lib/_stream_passthrough.js');

// Copyright Joyent, Inc. and other Node contributors.

"use strict";

/*<replacement>*/

var pna = require('process-nextick-args');
/*</replacement>*/

module.exports = Writable;

/* <replacement> */
function WriteReq(chunk, encoding, cb) {
  this.chunk = chunk;
  this.encoding = encoding;
  this.callback = cb;
  this.next = null;
}
/* </replacement> */

/*<replacement>*/
var asyncWrite = !process.browser && ['v0.10', 'v0.9.'].indexOf(process.version.slice(0, 5)) > -1 ? setImmediate :
  pna.nextTick;
/*</replacement>*/

/*<replacement>*/
var Duplex;
/*</replacement>*/

Writable.WritableState = WritableState;

/*<replacement>*/
var util = require('core-util-is');
util.inherits = require('inherits');
/*</replacement>*/

/*<replacement>*/
var internalUtil

Open Source Used in Cisco Modeling Labs 2.2  3921
In this function, we check if the registration name is already registered and if not, we register it along with the plugin module. If the environment is not in production, we print a warning message.

```javascript
/**
 * Publishes a registration name that is used to identify dispatched events and can be used with `EventPluginHub.putListener` to register listeners.
 *
 * @param {string} registrationName Registration name to add.
 * @param {object} pluginModule Plugin publishing the event.
 * @param {object} eventPluginConfig Plugin event config.
 * @private
 */
function publishRegistrationName(registrationName, pluginModule, eventName) {
  if (!EventPluginRegistry.registrationNameModules[registrationName]) {
    EventPluginRegistry.registrationNameModules[registrationName] = pluginModule;
    EventPluginRegistry.registrationNameDependencies[registrationName] = pluginModule.eventTypes[eventName].dependencies;
  } else if (process.env.NODE_ENV !== 'production') {
    invariant(false, 'EventPluginRegistry: More than one plugin attempted to publish the same registration name, `%s`.', registrationName);
  }
}
```

This function is used to register plugins so that they can extract and dispatch events. It takes a registration name and a plugin module as parameters. If the registration name is not already registered, it registers it along with the plugin module. If the environment is not in production, it prints a warning message.

```javascript
/**
 * Registers plugins so that they can extract and dispatch events.
 *
 * @see {EventPluginHub}
 */
var EventPluginRegistry = {
  plugins: [],
  eventNameDispatchConfigs: {},
  registrationNameModules: {},
  registrationNameDependencies: {},
  possibleRegistrationNames: {},
  injectEventPluginOrder: function (injectedEventPluginOrder) {
    if (eventPluginOrder) {
      invariant(false, 'EventPluginRegistry: Cannot inject event plugin ordering more than once. You are likely trying to load more than one copy of React.') :
    }
    // Trust the developer to only use possibleRegistrationNames in __DEV__
    eventPluginOrder = Array.prototype.slice.call(injectedEventPluginOrder);
    recomputePluginOrdering();
  },
  getPluginModuleForEvent: function (event) {
    var dispatchConfig = event.dispatchConfig;
    if (dispatchConfig.registrationName) {
      return EventPluginRegistry.registrationNameModules[dispatchConfig.registrationName] || null;
    }
    if (dispatchConfig.phasedRegistrationNames !== undefined) {
      var phasedRegistrationNames = dispatchConfig.phasedRegistrationNames;
      for (var phase in phasedRegistrationNames) {
        return EventPluginRegistry.registrationNameModules[dispatchConfig.registrationName] || null;
      }
    }
  },
};
```
Open Source Used In Cisco Modeling Labs 2.2
simulated) {
  var dispatchListeners = event._dispatchListeners;
  var dispatchInstances = event._dispatchInstances;
  if (process.env.NODE_ENV !== 'production') {
    validateEventDispatches(event);
  }
  if (Array.isArray(dispatchListeners)) {
    for (var i = 0; i < dispatchListeners.length; i++) {
      if (event.isPropagationStopped()) {
        break;
      }
      // Listeners and Instances are two parallel arrays that are always in sync.
      executeDispatch(event, simulated, dispatchListeners[i], dispatchInstances[i]);
    }
  } else if (dispatchListeners) {
    executeDispatch(event, simulated, dispatchListeners, dispatchInstances);
  }
}

/**
 * Standard/simple iteration through an event's collected dispatches, but stops at the first dispatch execution returning true, and returns that id.
 * @return {?string} id of the first dispatch execution who's listener returns true, or null if no listener returned true.
 */
function executeDispatchesInOrderStopAtTrueImpl(event) {
  var dispatchListeners = event._dispatchListeners;
  var dispatchInstances = event._dispatchInstances;
  if (process.env.NODE_ENV !== 'production') {
    validateEventDispatches(event);
  }
  if (Array.isArray(dispatchListeners)) {
    for (var i = 0; i < dispatchListeners.length; i++) {
      if (event.isPropagationStopped()) {
        break;
      }
      // Listeners and Instances are two parallel arrays that are always in sync.
      if (dispatchListeners[i](event, dispatchInstances[i])) {
        return dispatchInstances[i];
      }
    }
  } else if (dispatchListeners) {
    if (dispatchListeners(event, dispatchInstances)) {
      return dispatchInstances;
    }
  }
  return null;
}

/**
 * @see executeDispatchesInOrderStopAtTrueImpl
 */
function executeDispatchesInOrderStopAtTrue(event) {
  var ret = executeDispatchesInOrderStopAtTrueImpl(event);
  event._dispatchInstances = null;
  event._dispatchListeners = null;
  return ret;
}

/**
 * Execution of a "direct" dispatch - there must be at most one dispatch accumulated on the event or it is considered an error. It doesn't really make sense for an event with multiple dispatches (bubbled) to keep track of the return values at each dispatch execution, but it does tend to make sense when dealing with "direct" dispatches.
 * @return {*} The return value of executing the single dispatch.
 */
function executeDirectDispatch(event) {
  if (process.env.NODE_ENV !== 'production') {
    validateEventDispatches(event);
  }
  var dispatchListener = event._dispatchListeners;
  var dispatchInstance = event._dispatchInstances;
  !!Array.isArray(dispatchListener) ? process.env.NODE_ENV !== 'production' ? invariant(false, 'executeDirectDispatch(...): Invalid `event`.') : _prodInvariant('103') : void 0;
  event.currentTarget = dispatchListener ? EventPluginUtils.getNodeFromInstance(dispatchInstance) : null;
  var res = dispatchListener ? dispatchListener(event) : null;
  event.currentTarget = null;
  event._dispatchListeners = null;
  event._dispatchInstances = null;
  return res;
}

/**
 * @param {SyntheticEvent} event
 * @return {boolean} True iff number of dispatches accumulated is greater than 0.
 */
function hasDispatches(event) {
  return !!event._dispatchListeners;
}

/**
 * General utilities that are useful in creating custom Event Plugins.
 */
var EventPluginUtils = {
  isEndish: isEndish,
  isMoveish: isMoveish,
  isStartish: isStartish,
  executeDirectDispatch: executeDirectDispatch,
  executeDispatchInOrder: executeDispatchesInOrder,
  executeDispatchesInOrderStopAtTrue: executeDispatchesInOrderStopAtTrue,
  getInstancesFromNode: function (node) {
    return ComponentTree.getInstanceFromNode(node);
  },
  getRootInstanceFromNode: function (node) {
    return ComponentTree.getRootNodeFromInstance(node);
  },
  isAncestor: function (a, b) {
    return TreeTraversal.isAncestor(a, b);
  },
  getLowestCommonAncestor: function (a, b) {
    return TreeTraversal.getLowestCommonAncestor(a, b);
  },
  getParentInstance: function (inst) {
    return TreeTraversal.getParentInstance(inst);
  },
  traverseTwoPhase: function (target, fn, arg) {
    return TreeTraversal.traverseTwoPhase(target, fn, arg);
  },
  traverseEnterLeave: function (from, to, fn, fromArg, toArg) {
    return TreeTraversal.traverseEnterLeave(from, to, fn, fromArg, toArg);
  },
  injection:
};

module.exports = EventPluginUtils;

/*global describe, it, beforeEach, afterEach, expect, sinon, spyOn*/

var ReactErrorUtils = {
  invokeGuardedCallback:
};
invokeGuardedCallback;

/**
 * Invoked by ReactTestUtils.Simulate so that any errors thrown by the event
 * handler are sure to be rethrown by rethrowCaughtError.
 *
 * @param {ReactTestUtils.Simulate} simulate
 * @param {Function} func
 * @param {Object} a
 * @return {Error}
 */
  invokeGuardedCallbackWithCatch:

  /**
   * During execution of guarded functions we will capture the first error which
   * we will rethrow by the top level error handler.
   */
  rethrowCaughtError: function () {
    if (caughtError) {
      var error = caughtError;
      caughtError = null;
      throw error;
    }
  }
};

if (process.env.NODE_ENV !== 'production') {

  /**
   * To help development we can get better devtools
   * integration by simulating a real browser event.
   */
  if (typeof window !== 'undefined' && typeof window.dispatchEvent === 'function' && typeof document !== 'undefined' && typeof document.createEvent === 'function') {
    var fakeNode = document.createElement('react');
    ReactErrorUtils.invokeGuardedCallback = function (name, func, a) {
      var evtType = 'react-' + name;
      fakeNode.addEventListener(evtType, func, false);
      var evt = document.createEvent('Event');
      evt.initEvent(evtType, false, false);
      fakeNode.dispatchEvent(evt);
      fakeNode.removeEventListener(evtType, func, false);
    };
  }
}

module.exports = ReactErrorUtils;

/**
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 *
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 */

'use strict';

/**
 * Gets the target node from a native browser event by accounting for inconsistencies in browser DOM APIs.
 *
 * @param {Object} nativeEvent
 * @return {DOMEventTarget}
 */

function getEventTarget(nativeEvent) {
  var target = nativeEvent.target || nativeEvent.srcElement || window;

  // Normalize SVG <use> element events #4963
  if (target.correspondingUseElement) {
    target = target.correspondingUseElement;
  }

  // Safari may fire events on text nodes (Node.TEXT_NODE is 3).
  // @see http://www.quirksmode.org/js/events_properties.html
  return target.nodeType === 3 ? target.parentNode : target;
}

module.exports = getEventTarget;

/**
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 *
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 */

'use strict';

var ExecutionEnvironment = require('fbjs/lib/ExecutionEnvironment');

var useHasFeature;
if (ExecutionEnvironment.canUseDOM) {
  useHasFeature = document.implementation &&
  // always returns true in newer browsers as per the standard.
  // @see http://dom.spec.whatwg.org/#dom-domimplementation-hasfeature
  document.implementation.hasFeature('', '') !==
  true;
}

/**
 * Checks if an event is supported in the current execution environment.
 * This will not work correctly for non-generic events such as 'change',
 * 'reset', 'load', 'error', and 'select'.
 * Borrows from Modernizr.
 * @param {string} eventNameSuffix Event name, e.g. \`\`click\`\`
 * @param {boolean} capture Check if the capture phase is supported.
 * @return {boolean} True if the event is supported.
 * @internal
 * @license Modernizr 3.0.0pre (Custom Build) | MIT
 */
function isEventSupported(eventNameSuffix, capture) {
  if (!ExecutionEnvironment.canUseDOM || capture &&
  !('addEventListener' in document)) {
    return false;
  }

  var eventName = 'on' + eventNameSuffix;
  var eventTarget = 'nativeEvent.target || eventTarget || document.documentElement;'

  return eventTarget &&
  // always returns true in newer browsers as per the standard:
  // @see http://dom.spec.whatwg.org/#dom-domimplementation-hasfeature
  document.implementation.hasFeature(eventNameSuffix, 'nativeEvent.srcElement ||
  document.documentElement;'
  // window;'
  // // Normalize SVG <use> element events #4963
  if (target.correspondingUseElement) {
    target = target.correspondingUseElement;
  }

  // Safari may fire events on text nodes (Node.TEXT_NODE is 3).
  // @see http://www.quirksmode.org/js/events_properties.html
  return target.nodeType === 3 ? target.parentNode : target;
}

module.exports = isEventSupported;

/**
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 *
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 */

'use strict';

/**
 * Translation from modifier key to the associated property in the event.
 * @see http://www.w3.org/TR/DOM-Level-3-Events/#keys-Modifiers
 */

var modifierKeyToProp = {'Alt': 'altKey', 'Control': 'ctrlKey', 'Meta': 'metaKey', 'Shift': 'shiftKey'};

var IE8DoesNotImplementGetModifierState = true;

// We simply map it to the only // modifier keys exposed by the event itself, does not support
// Lock-keys.js
// Currently, all major browsers except Chrome seems to support Lock-keys.

function modifierStateGetter(keyArg) {
  var syntheticEvent = isSyntheticEvent ? isSyntheticEvent : syntheticEvent.nativeEvent;'
  if (nativeEvent.getModifierState) {
    return nativeEvent.getModifierState(keyArg);'
  }

  var element = document.createElement('div');

  // This is the only way to test support for the 'wheel' event in IE9+
  // IE8 does not implement getModifierState so we simply map it to the only // modifier keys exposed by the event itself, does not support
  // Lock-keys.js
  // Currently, all major browsers except Chrome seems to support Lock-keys.

  modifierStateGetter(keyArg) {
    var syntheticEvent = isSyntheticEvent ? isSyntheticEvent : syntheticEvent.nativeEvent;'
    if (nativeEvent.getModifierState) {
      return nativeEvent.getModifierState(keyArg);'
    }

    var keyProp = modifierKeyToProp[keyArg];
    return keyProp ? isSyntheticEvent[keyProp] : false;
  }

  module.exports = getEventTarget;
getEventModifierState(nativeEvent) { return modifierStateGetter; }

module.exports = getEventModifierState;

getEventModifierState = require('./DOMLazyTree');

var Danger = require('./Danger');

ReactDOMComponentTree = require('./ReactDOMComponentTree');

ReactInstrumentation = require('./ReactInstrumentation');

createMicrosoftUnsafeLocalFunction = require('./createMicrosoftUnsafeLocalFunction');

setInnerHTML = require('./setInnerHTML');

setTextContent = require('./setTextContent');

function getNodeAfter(parentNode, node) {
  // Special case for text components, which return [open, close] comments from getHostNode.
  if (Array.isArray(node)) {
    node = node[1];
  }
  return node ? node.nextSibling : parentNode.firstChild;
}

insertChildAt = createMicrosoftUnsafeLocalFunction(function (parentNode, childNode, referenceNode) {
  parentNode.insertBefore(childNode, referenceNode);
});

moveChild = function (parentNode, childNode, referenceNode) {
  if (Array.isArray(childNode)) {
    moveDelimitedText(parentNode, childNode[0], childNode[1], referenceNode);
  } else {
    insertChildAt(parentNode, childNode, referenceNode);
  }
}

removeChild = function (parentNode, childNode) {
  if (Array.isArray(childNode)) {
    var closingComment = childNode[1];
    childNode = childNode[0];
    removeDelimitedText(parentNode, childNode, closingComment);
  }
  parentNode.removeChild(childNode);
}

moveDelimitedText = function (parentNode, startNode, closingComment, referenceNode) {
  var node = startNode;
  while (true) {
    var nextNode = node.nextSibling;
    insertChildAt(parentNode, node, referenceNode);
    if (node === closingComment) {
      break;
    }
    node = nextNode;
  }
}

removeDelimitedText = function (parentNode, startNode, closingComment) {
  while (true) {
    var node = startNode.nextSibling;
    if (node === closingComment) {
      // The closing comment is removed by ReactMultiChild.
      break;
    } else {
      parentNode.removeChild(node);
    }
  }
}

replaceDelimitedText = function (openingComment, closingComment, stringText) {
  var parentNode = openingComment.parentNode;
  var nodeAfterComment = openingComment.nextSibling;
  if (nodeAfterComment === closingComment) {
    // There are no text nodes between the opening and closing comments; insert
    // a new one if stringText isn't empty.
    if (stringText) {
      insertChildAt(parentNode, nodeAfterComment, closingComment);
    }
  } else {
    if (stringText) {
      // Set the text content of the first node after the opening comment, and
      // remove all following nodes up until the closing comment.
      setTextContent(nodeAfterComment, stringText);
      removeDelimitedText(parentNode, nodeAfterComment, closingComment);
    } else {
      removeDelimitedText(parentNode, openingComment, closingComment);
    }
  }
}

ReactInstrumentation.debugTool.onHostOperation({
  instanceID: ReactDOMComponentTree.getInstanceFromNode(openingComment)._debugID,
  type: 'replace with',
  payload: stringText
});

dangerouslyReplaceNodeWithMarkup = Danger.dangerouslyReplaceNodeWithMarkup;

dangerouslyReplaceNodeWithMarkup = function (oldChild, markup, prevInstance) {
  var dangerouslyReplaceNodeWithMarkup = Danger.dangerouslyReplaceNodeWithMarkup;
  if (process.env.NODE_ENV !== 'production') {
    dangerouslyReplaceNodeWithMarkup = function (oldChild, markup, prevInstance) {
      dangerouslyReplaceNodeWithMarkup = Danger.dangerouslyReplaceNodeWithMarkup;
      if (prevInstance._debugID !== 0) {
        ReactInstrumentation.debugTool.onHostOperation({
          instanceID: prevInstance._debugID,
          type: 'replace with',
          payload: markup.toString()
        });
      }
      var nextInstance = ReactDOMComponentTree.getInstanceFromNode(markup.node);
    }
  }
}
dangerouslyReplaceNodeWithMarkup, 'mount',
          payload: markup.toString()
        });
      }
    }
  };
}

/**
 * Operations for updating with
DOM children.
 */
var DOMChildrenOperations = {
  dangerouslyReplaceNodeWithMarkup, 
  replaceDelimitedText: replaceDelimitedText,
*/

/**
 * Updates a
component's children by processing a
series of updates. The
 * updates configurations are each expected to have a
'parentNode' property.
 */
var parentNodeDebugID = ReactDOMComponentTree.getInstanceFromNode(parentNode)._debugID;

for (var k = 0; k < updates.length; k++) {
  var update = updates[k];
  switch (update.type) {
    case 'INSERT_MARKUP':
      insertLazyTreeChildAt(parentNode, update.content, getNodeAfter(parentNode, update.afterNode));
      if (process.env.NODE_ENV !== 'production') {
        ReactInstrumentation.debugTool.onHostOperation({
          instanceID: parentNodeDebugID,
          type: 'insert child',
          payload: {
            toIndex: update.toIndex,
            content: update.content.toString()
          }
        });
      }
      break;
    case 'MOVE_EXISTING':
      moveChild(parentNode, update.fromNode, getNodeAfter(parentNode, update.afterNode));
      if (process.env.NODE_ENV !== 'production') {
        ReactInstrumentation.debugTool.onHostOperation({
          instanceID: parentNodeDebugID,
          type: 'move child',
          payload: { fromIndex: update.fromIndex, toIndex: update.toIndex }
        });
      }
      break;
    case 'SET_MARKUP':
      setInnerHTML(parentNode, update.content);
      if (process.env.NODE_ENV !== 'production') {
        ReactInstrumentation.debugTool.onHostOperation({
          instanceID: parentNodeDebugID,
          type: 'replace children',
          payload: update.content.toString()
        });
      }
      break;
    case 'TEXT_CONTENT':
      setTextContent(parentNode, update.content);
      if (process.env.NODE_ENV !== 'production') {
        ReactInstrumentation.debugTool.onHostOperation({
          instanceID: parentNodeDebugID,
          type: 'replace text',
          payload: update.content.toString()
        });
      }
      break;
    case 'REMOVE_NODE':
      removeChild(parentNode, update.fromNode);
      if (process.env.NODE_ENV !== 'production') {
        ReactInstrumentation.debugTool.onHostOperation({
          instanceID: parentNodeDebugID,
          type: 'remove child',
          payload: { fromIndex: update.fromIndex }
        });
      }
      break;
  }
}

module.exports = DOMChildrenOperations;

/* globals MSApp */

'use strict';

/**
 * Create a function which has
'unsafe' privileges (required by windows8 apps)
 */

var createMicrosoftUnsafeLocalFunction = function (func)
{
  if (typeof MSApp !== 'undefined' && MSApp.execUnsafeLocalFunction) {
    return function (arg0, arg1,
arg2, arg3) {
      MSApp.execUnsafeLocalFunction(function () {
        return func(arg0, arg1, arg2, arg3);
      });
    };
  } else {
    return func;
  }
};

module.exports = createMicrosoftUnsafeLocalFunction;

/**
 * Copyright (c) 2013-present, Facebook, Inc.
 */

/* globals MSApp */

'use strict';

/**
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 * Facebook, Inc.
 */

var _prodInvariant =
require('./reactProdInvariant');

var ReactPropTypesSecret = require('./ReactPropTypesSecret');
var propTypesFactory = require('prop-types/factory');

var React = require('react/lib/React');
var PropTypes = propTypesFactory(React.isValidElement);

var invariant = require('fbjs/lib/invariant');
var warning = require('fbjs/lib/warning');

var hasReadOnlyValue = {
  button: true,
  checkbox: true,
  image: true,
  hidden: true,
  radio: true,
  reset: true,
  submit: true
};

function _assertSingleLink(inputProps) {
  !(inputProps.checkedLink == null || inputProps.valueLink == null) ? process.env.NODE_ENV !== 'production' ?
invariant(false, 'Cannot provide a checkedLink and a valueLink. If you want to use checkedLink, you probably
want to use valueLink and vice versa.'): _prodInvariant('87') : void 0;
}

function _assertValueLink(inputProps) {
  _assertSingleLink(inputProps);
  !(inputProps.value == null &&

inputProps.onChange == null) ? process.env.NODE_ENV !== 'production' ? invariant(false, 'Cannot provide a valueLink and a value or onChange event. If you want to use value or onChange, you probably don’t want to use valueLink.') : _prodInvariant('88') : void 0;

if (props[propName] && hasReadOnlyValue[props.type]) { return null; }

return new Error('You provided a `value` prop to a form field without an `+ on `onChange` handler. This will render a read-only field. If `+ the field should be mutable use `defaultValue`. Otherwise, `+ set either `onChange` or `readOnly`.');

if (props[propName] || props.onChange || props.readOnly || props.disabled) { return null; }

return new Error('You provided a `checked` prop to a form field without an `+ on `onChange` handler. This will render a read-only field. If `+ the field should be mutable use `defaultChecked`. Otherwise, `+ set either `onChange` or `readOnly`).

/**
 * Provide a linked `value` attribute for controlled forms. You should not use
 * this outside of the ReactDOM controlled form components.
 *
 */

var LinkedValueUtils = {
  checkPropTypes: function (tagName, props, owner) {
    for (var propName in propTypes) {
      if (propTypes.hasOwnProperty(propName)) {
        var error = propTypes[propName](props, propName, tagName, 'prop', null, ReactPropTypesSecret);
      }
      if (error instanceof Error && !(error.message in loggedTypeFailures)) {
        // Only monitor this failure once because there tends to be a lot of the
        // same error.
        loggedTypeFailures[error.message] = true;
        var addendum = getDeclarationErrorAddendum(owner);

        process.env.NODE_ENV !== 'production' ? warning(false, 'Failed form propType: %s%s', error.message, addendum) : void 0;
      }
    }
  },

  getValue: function (inputProps) {
    if (inputProps.valueLink) {
      _assertValueLink(inputProps);
      return inputProps.valueLink.value;
    }
    return inputProps.value;
  },

  getChecked: function (inputProps) {
    if (inputProps.checkedLink) {
      _assertCheckedLink(inputProps);
      return inputProps.checkedLink.value;
    }
    return inputProps.checked;
  },

  executeOnChange: function (inputProps, event) {
    if (inputProps.valueLink) {
      _assertValueLink(inputProps);
      return inputProps.valueLink.requestChange(event.target.value);
    } else if (inputProps.checkedLink) {
      _assertCheckedLink(inputProps);
      return inputProps.checkedLink.value;
    }
    return inputProps.onChange.call(undefined, event);
  }
};

module.exports = LinkedValueUtils;
ReactComponentEnvironment;";"/**\n * Copyright (c) 2013-present, Facebook, Inc.
 *
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 */

/**
 * @typechecks
 * 
 */

/*eslint-disable no-self-compare */

'use strict';

var hasOwnProperty = Object.prototype.hasOwnProperty;

/**
 * inlined Object.is polyfill to avoid requiring consumers ship their own
 */

function is(x, y) {
  // SameValue algorithm
  if (x === y) {
    // Steps 1-5, 7-10
    // Step 6.b-e: +0 != -0
    return !x || !y || 1 / x === 1 / y;
  } else {
    // Step 6.a: NaN == NaN
    return x !== x && y !== y;
  }
}

/**
 * Performs equality by iterating through keys on an object and returning false
 * when any key has values which are not strictly equal between the arguments.
 * Returns true when all keys are strictly equal.
 */

function shallowEqual(objA, objB) {
  if (is(objA, objB)) {
    return true;
  }

  if (typeof objA !== 'object' || objA === null || typeof objB !== 'object' || objB === null) {
    return false;
  }

  var keysA = Object.keys(objA);
  var keysB = Object.keys(objB);
  if (keysA.length !== keysB.length) {
    return false;
  }

  // Test for A's keys different from B.
  for (var i = 0; i < keysA.length; i++) {
    if (!hasOwnProperty.call(objB, keysA[i]) || !is(objA[keysA[i]], objB[keysA[i]])) {
      return false;
    }
  }

  return true;
}

module.exports = shallowEqual;
displayName;
}

function getInternalInstanceReadyForUpdate(publicInstance, callerName) {
  var internalInstance = ReactInstanceMap.get(publicInstance);
  if (internalInstance) {
    if (process.env.NODE_ENV !== 'production') {
      var ctor = publicInstance.constructor;
      // Only warn when we have a callerName.
    } else {
      // We're probably calling from enqueueCallback. We don't want to warn
      // there because we already warned for the corresponding lifecycle method.
      process.env.NODE_ENV !== 'production' ? warning(callerName, '%s(...): Can only update a mounted or mounting component. ' + 'This usually means you called %s() on an unmounted component. '+'This is a no-op. Please check the code for the %s component. , callerName, callerName, ctor && (ctor.displayName || ctor.name) || 'ReactClass') : void 0;
    }
    return null;
  }

  if (process.env.NODE_ENV !== 'production') {
    if (owner !== null) {
      process.env.NODE_ENV !== 'production' ? warning(owner._warnedAboutRefsInRender, '%s is accessing isMounted inside its render() function. ' + 'render() should be a pure function of props and state. ' + 'constructor side-effects are an anti-pattern, but can be moved to ' + 'componentWillMount instead.', callerName) : void 0;
    }
    var internalInstance = ReactInstanceMap.get(publicInstance);
    if (internalInstance) {
      // During componentWillMount and render this will still be null but after render that will always render to something. At least for now. So we can use
      // this hack.
      return !!internalInstance._renderedComponent;
    } else {
      return false;
    }
  }

  return enqueueUpdateQueue = function (publicInstance) {
    ReactUpdateQueue.enqueueCallback(publicInstance, callback, callerName);
  },

  enqueueCallbackInternal: function (internalInstance, callback) {
    if (internalInstance._pendingCallbacks) {
      internalInstance._pendingCallbacks.push(callback);
    } else {
      internalInstance._pendingCallbacks = [callback];
    }
    // TODO: The callback here is ignored when setState is called from
    // componentNameWillMount. Either fix it or disable doing so completely
    // favor of getInitialState. Alternatively, we can disallow
    // componentNameWillMount during server-side rendering.
    enqueueCallbackInternal: function (internalInstance, callback) {
      if (internalInstance._pendingCallbacks) {
        internalInstance._pendingCallbacks.push(callback);
      } else {
        internalInstance._pendingCallbacks = [callback];
      }
      enqueueUpdate(internalInstance); // Forces an update. This should only be invoked when it is known within * certainty that we are *not* in a DOM transaction. * You may want to call this when you know that some deeper aspect of the * component's state has changed but `setState` was not called. * This will not invoke `shouldComponentUpdate`, but it will invoke `componentWillUpdate` and `componentDidUpdate`. * You can pass the callback here.
    },

    enque
Replaces all of the state. Always use this or `setState` to mutate state.

* You should treat `this.state` as immutable.
* There is no guarantee that `this.state` will be immediately updated, so
  * accessing `this.state` after calling this method may return the old value.
* @param {ReactClass} publicInstance The instance that should rerender.
* @param {object} completeState Next state.
* @internal
* An enqueueReplaceState: function (publicInstance, completeState, callback) {
  var internalInstance = 
  getInternalInstanceReadyForUpdate(publicInstance, 'replaceState');
  if (internalInstance) { 
    internalInstance._pendingStateQueue = [completeState];
    internalInstance._pendingReplaceState = true;
    // Future-proof 15.5 if (callback !== undefined && & callback !== null) {
      ReactUpdateQueue.validateCallback(callback, 'replaceState');
    } if (internalInstance._pendingCallbacks) {
      [callback];
    } 
  }
  enqueueUpdate(internalInstance);
}

* Sets a subset of the state. This
  only exists because _pendingState is * internal. This provides a merging strategy that is not available to deep
* properties which is confusing. TODO: Expose pendingState or don't use it * during the merge.
* @param {ReactClass} publicInstance The instance that should rerender.
* @param {object} partialState Next partial state to be merged with state.
* @internal
* An enqueueSetState: function (publicInstance, partialState) {

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  * project. Copyright (c) 2015-present, Facebook, Inc.

  * Source code is available at:
  * https://github.com/facebook/react

  * This validation code was written based on
  * the HTML5 parsing spec: // https://html.spec.whatwg.org/multipage/syntax.html#has-an-element-in-scope
  // Note: this does not catch all invalid nesting, nor does it try to (as it's
  // not clear what practical benefit doing so
  // provides); instead, we warn only 
  // for cases where the parser will give a parse tree differing from what React
  // intended. For example, <b><div></div></b> is invalid but we don't warn
  // because it still parses correctly; we do
  // warn for other cases like nested
  // <span> tags where the beginning of the second element implicitly closes the
  // first, causing a confusing mess.

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  // because it still parses correctly; we do
  // warn for other cases like nested
  // <span> tags where the beginning of the second element implicitly closes the
  // first, causing a confusing mess.

  // The purpose of this is to make sure that the category of the
  // different elements is not affected by their position in the DOM.
  // The order of the elements is important for other reasons.]
https://html.spec.whatwg.org/multipage/syntax.html#has-an-element-in-button-scope

var buttonScopeTags = inScopeTags.concat('button');

// https://html.spec.whatwg.org/multipage/syntax.html#generate-implied-end-tags

var impliedEndTags = ['dd', 'dt', 'li', 'option', 'optgroup', 'p', 'rp', 'rt'];

var emptyAncestorInfo = {current: null, formTag: null, aTagInScope: null, buttonTagInScope: null, nobrTagInScope: null, pTagInButtonScope: null, listTagInScope: null, buttonTagInScope: null, dItemTagAutoclosing: null};

var var updatedAncestorInfo = function (oldInfo, tag, instance) {
// See rules for 'li', 'dd', 'dt' start tags in

// Special case 'select':

return updatedAncestorInfo;
}

// Strictly speaking, seeing an <option> doesn't mean we're in a <select>
// but in case 'option':

return updatedAncestorInfo;

// See rules for 'li', 'dd', 'dt' start tags in

return updatedAncestorInfo;

// See rules for 'li', 'dd', 'dt' start tags in

return updatedAncestorInfo;
findInvalidAncestorForTag = function (tag, ancestorInfo) {
  switch (tag) {
    case 'address':
    case 'article':
    case 'aside':
    case 'blockquote':
    case 'center':
    case 'details':
    case 'dialog':
    case 'dir':
    case 'div':
    case 'dl':
    case 'fieldset':
    case 'figcaption':
    case 'figure':
    case 'footer':
    case 'header':
    case 'hgroup':
    case 'main':
    case 'menu':
    case 'nav':
    case 'ol':
    case 'p':
    case 'section':
    case 'summary':
    case 'ul':
    case 'pre':
    case 'listing':
    case 'table':
    case 'xmp':
    case 'h1':
    case 'h2':
    case 'h3':
    case 'h4':
    case 'h5':
    case 'h6':
      return ancestorInfo.pTagInButtonScope || ancestorInfo.pTagInButtonScope
        || ancestorInfo.formTag
        || ancestorInfo.li

    case 'form':
      return ancestorInfo.formTag

    case 'dd':
      return ancestorInfo.ddItemTagAutoclosing

    case 'dt':
      return ancestorInfo.dlItemTagAutoclosing

    case 'button':
      return ancestorInfo.buttonTagInScope

    case 'a':
      return ancestorInfo.aTagInScope

    case 'nobr':
      return ancestorInfo.nobrTagInScope

    case 'hr':
      return ancestorInfo.hrTagInScope

    default:
      return null;
  }

  return null;
}

findOwnerStack = function (instance) {
  if (!instance) {
    return [];
  }

  var stack = [];
  do {
    stack.push(instance);
  } while (instance = instance._currentElement._owner);
  stack.reverse();
  return stack;
}

validateDOMNesting = function (childTag, childText, childInstance, ancestorInfo) {
  ancestorInfo = ancestorInfo || emptyAncestorInfo;
  var parentInfo = ancestorInfo.current;
  var parentTag = parentInfo && parentInfo.tag;

  if (childText != null) {
    process.env.NODE_ENV !== 'production' ? warning(childTag == null, 'validateDOMNesting: when childText is passed, childTag should be null') : void 0;
    childTag = '#text';
  }

  var invalidParent = isTagValidWithParent(childTag, parentTag) ? null : parentInfo;
  var invalidAncestor = invalidParent ? null : findInvalidAncestorForTag(childTag, ancestorInfo);

  var problematic = invalidParent || invalidAncestor;

  if (problematic) {
    var ancestorTag = problematic.tag;
    var ancestorInstance = problematic.instance;

    var childOwner = childInstance && childInstance._currentElement._owner;
    var ancestorOwner = ancestorInstance && ancestorInstance._currentElement._owner;

    var childOwners = findOwnerStack(childOwner);
    var ancestorOwners = findOwnerStack(ancestorOwner);

    var minStackLen = Math.min(childOwners.length, ancestorOwners.length);
    var i;

    var deepestCommon = -1;
    for (i = 0; i < minStackLen; i++) {
      if (childOwners[i] === ancestorOwners[i]) {
        deepestCommon = i;
      } else {
        break;
      }
    }

    var unknown = (unknown) ? var childOwnerNames = childOwners.slice(deepestCommon + 1).map(function (inst) { return inst.getName() || UNKNOWN });
    var ancestorOwnerNames = ancestorOwners.slice(deepestCommon + 1).map(function (inst) { return inst.getName() || UNKNOWN });

    var ownerInfo = [].concat( // If the parent and child instances have a common owner ancestor, start with that -- otherwise we just start with the parent's owners.
      deepestCommon !== -1 ? childOwners[deepestCommon].getName() || UNKNOWN : [], ancestorOwnerNames, ancestorTag
    );

    if (warning(allowInvalidAncestry !== true)) {
      var warnKey = !!invalidParent + '|' + childTag + '|' + ancestorTag + '|' + ownerInfo;
      process.env.NODE_ENV !== 'production' ? warning(false, 'validateDOMNesting(...): %s cannot appear as a child of <%s>.%s See %s.%s', tagDisplayName, ancestorTag, whitespaceInfo, ownerInfo, info) : void 0;
    } else {
      process.env.NODE_ENV !== 'production' ? warning(false, 'validateDOMNesting(...): %s cannot appear as a descendant of <%s>. See %s.', tagDisplayName, ancestorTag, ownerInfo) : void 0;
    }

    validateDOMNesting.updatedAncestorInfo = updatedAncestorInfo;
  } // For testing

validateDOMNesting.isTagValidInContext = function (tag, ancestorInfo) {
  var ancestorInfo = ancestorInfo || emptyAncestorInfo;
  var parentInfo = ancestorInfo.current;
  var parentTag = parentInfo && parentInfo.tag;
  return isTagValidWithParent(tag, parentTag) &&
         !findInvalidAncestorForTag(tag, ancestorInfo);
}

module.exports = validateDOMNesting;

/**
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 */

'use strict';

/**
 * `charCode` represents the actual "character code" and is safe to use with `String.fromCharCode`. As such, only keys that correspond to printable/non-characters produce a valid `charCode`, the only exception to this is `Enter`. The Tab-key is considered non-printable and does not have a `charCode`, presumably because it does not produce a tab-character in browsers.
 *
 */

function getEventCharCode(nativeEvent) {
  var charCode;
  var keyCode = nativeEvent.keyCode;

  if ('charCode' in nativeEvent) {
    charCode = nativeEvent.charCode;

    // FF does not set `charCode` for the Enter-key, check against `keyCode`. If (charCode === 0 && 
    keyCode === 13) { charCode = 13; }
  } else {
    // IE8 does not implement `charCode`, but `keyCode` has the correct value.
    charCode = keyCode;
  }

  // Some non-printable keys are reported in `charCode`/`keyCode`, discard them. Must not discard the (non-)printable Enter-key.
  if (charCode >= 32 || charCode === 13) {
    return charCode;
  }

  return 0;
}

arrayToObject = function arrayToObject(source, options) {
  var obj = options && options.plainObjects ? Object.create(null) : {};
  for (var i = 0; i < source.length; ++i) {
    if (typeof source[i] !== 'undefined') {
      obj[i] = source[i];
    }
  }

  return obj;
};

module.exports = arrayToObject;

''
to store key-value pairs.

```
var MapCache = function(entries) {
  var index = -1,
      length = entries.length;

  while (++index < length) {
    var entry = entries[index];
    this.set(entry[0], entry[1]);
  }
}

// Add methods to 'MapCache'.
MapCache.prototype.clear = mapCacheClear;
MapCache.prototype['delete'] = mapCacheDelete;
MapCache.prototype.get = mapCacheGet;
MapCache.prototype.has = mapCacheHas;
```

```
var Map = getNative(root, 'Map');

module.exports = Map;
```

```
var baseIsArguments = require('./_baseIsArguments'),
    isObjectLike = require('./isObjectLike');

/**
 * Checks if `value` is likely an 'arguments' object.
 * @private
 * @param {*} value
 * @returns {boolean} Returns `true` if `value` is an 'arguments' object,
 *  else `false`.
 * @example
 *_.isArguments(function() { return arguments; }());
 * // => true
 */
var isArguments = baseIsArguments(function() { return arguments; }()) ? baseIsArguments : function(value) {
  return isObjectLike(value) && hasOwnProperty.call(value, 'callee') &&
    !propertyIsEnumerable.call(value, 'callee');
};

module.exports = isArguments;
```

```
/**
 * This method returns the first argument it receives.
 * @static
 * @since 0.1.0
 * @memberOf _
 * @category Util
 * @param {*} value
 * @returns {*} Returns `value`.
 * @example
 *_.identity({ 'a': 1 });
 * // => { 'a': 1 }
 */
function identity(value) {
  return value;
}

module.exports = identity;
```

```
var ListCache = require('./_ListCache'),
    stackClear = require('./_stackClear'),
    stackDelete = require('./_stackDelete'),
    stackGet = require('./_stackGet'),
    stackHas = require('./_stackHas'),
    stackSet = require('./_stackSet');

/**
 * Creates a stack cache object to store key-value pairs.
 * @private
 * @constructor
 * @param {Array} entries
 * @returns {Array} Returns the array.
 */
function Stack(entries) {
  var data = this.__data__ = new ListCache(entries);
  this.size = data.size;
}

// Add methods to 'Stack'.
Stack.prototype.clear = stackClear;
Stack.prototype['delete'] = stackDelete;
Stack.prototype.get = stackGet;
Stack.prototype.has = stackHas;
Stack.prototype.set = stackSet;

module.exports = Stack;
```

```
var arrayFilter = require('./_arrayFilter'),
    stubArray = require('./stubArray');

/**
 * Creates an array of the own enumerable symbols of `object`.
 * @private
 * @param {Object} object
 * @returns {Array} Returns the array.
 */
var getSymbols = !nativeGetSymbols ? stubArray : function(object) {
  if (object == null) {
    return 
  }
  object = Object(object);
  return arrayFilter(nativeGetSymbols(object), function(symbol) {
    return isEnumerable.call(object, symbol);
  });
};

module.exports = getSymbols;
```
arr.splice( i, 1);
return { newDocument: document, removed: removedList[0] };
},
replace: function (arr, document) {
 var removed = arr[i];
 arr[i] = this.value;
 return { newDocument: document, removed: removed };
},
move: objOps.move,
copy: objOps.copy,
test: objOps.test,
_get: objOps._get;

Retrieves a value from a JSON document by a JSON pointer.

* Returns the value.
* @param document The document to get the value from
* @param pointer an escaped JSON pointer
* @return

The retrieved value

* If you would like to avoid touching your values, clone them:

```javascript
* @param document The document
* @param operation The operation to apply
* @param validateOperation 'false' is without validation,
* 'true' to use default jsonpatch's validation, or you can pass a 'validateOperation' callback to be used for validation.
* @param banPrototypeModifications Whether to mutate the original document or clone it before applying

ROOT OPERATIONS

* if (operation.op === 'add') {
    returnValue.newDocument = operation.value;
    return returnValue;
}
else if (operation.op === 'replace') {
    returnValue.newDocument = operation.value;
    returnValue.removed = document;
    return returnValue;
}
else if (operation.op === 'move') {
    // report removed item
    returnValue.removed = document;
    document = getValueByPointer(document, operation.from);
    returnValue.removed = document;
    return document;
}
else if (operation.op === 'copy') {
    // it's a move or copy to root
    returnValue.newDocument = getValueByPointer(document, operation.from);
    return document;
}
else if (operation.op === 'remove') {
    returnValue.newDocument = null;
    return returnValue;
}
else if (operation.op === '_get') {
    var path = operation.path || '';
    var keys = path.split('/');
    var obj = document;
    var t = 1; //skip empty element
    while (true) {
        key = keys[t];
        if (obj[key]) {
            obj = obj[key];
        } else if (t > keys.length) {
            throw new TypeError('JSON-Patch: property not found');
        }
        t++;
    }
}

function getValueByPointer(document, pointer) {
    if (pointer == '') {
        return document;
    }
    var getOriginalDestination = { op: `_get`, path: pointer 0 }
    applyOperation(document, getOriginalDestination);
    return getOriginalDestination.value;
}
exports.getValueByPointer =

function applyOperation(document, operation, validateOperation, mutateDocument, banPrototypeModifications, index) {
    if (validateOperation === void 0) { validateOperation = false; }
    if (mutateDocument === void 0) { mutateDocument = true; }
    if (banPrototypeModifications === void 0) { banPrototypeModifications = true; }
    if (index === void 0) { index = 0; }
    if (validateOperation) {
        if (typeof validateOperation == 'function') {
            validateOperation(operation, 0, document, operation.path);
        }
        else {
            validator(operation, 0);
        }
    }
    /* ROOT OPERATIONS */
    if (operation.path === '') {
        var returnValue = { newDocument: document };
        if (operation.op === 'add') {
            returnValue.newDocument = operation.value;
            return returnValue;
        }
        else if (operation.op === 'replace') {
            returnValue.newDocument = operation.value;
            returnValue.removed = document; //document we removed
            return returnValue;
        }
        else if (operation.op === 'move' || operation.op === 'copy') { // it's a move or copy to root
            returnValue.newDocument = getValueByPointer(document, operation.from);
            // get the value by json-pointer in 'from' field
            if (operation.op === 'move') { // report removed item
                returnValue.removed = document;
            }
            returnValue.test = areEquals(document, operation.value);
            if (returnValue.test === false) {
                throw new exports.JsonPatchError("Test operation failed", 'TEST_OPERATION_FAILED', index, operation, document);
            }
            returnValue.newDocument = document;
            return returnValue;
        }
        else if (operation.op === 'remove') { // a remove on root
            returnValue.newDocument = null;
            return returnValue;
        }
        else if (operation.op === '_get') {
            var path = operation.path || '';
            var keys = path.split('/');
            var obj = document;
            var t = 1; //skip empty element
            while (true) {
                key = keys[t];
                if (obj[key]) {
                    obj = obj[key];
                } else if (t > keys.length) {
                    throw new TypeError('JSON-Patch: property not found');
                }
                t++;
            }
        }
        else if (document.ops[0].op === 'add') {
            var path = document.ops[0].path || '';
            var keys = path.split('/');
            var obj = document;
            var t = 1; //skip empty element
            while (true) {
                key = keys[t];
                if (obj[key]) {
                    obj = obj[key];
                } else if (t > keys.length) {
                    throw new TypeError('JSON-Patch: property not found');
                }
                t++;
            }
        }
        else if (mutableDocument) {
            var document = helpers_1._deepClone(document);
        }
    }
    /* END ROOT OPERATIONS */
    if (validateOperation) {
        if (typeof validateOperation == 'function') {
            validateFunction = validateOperation;
        } else if (validateFunction) {
            throw new TypeError("JSON-Patch: modifying funky field is banned for security reasons, if this was on purpose, please set " + "banPrototypeModifications" flag false and pass it to this function. More info in fast-json-patch README" );
        }
    }
    if (validateOperation) {
        if (existingPathFragment
    }}}}
Apply a full JSON Patch array on a JSON document. Returns the newDocument, result of the patch. It modifies the `document` object and `patch` - it gets the values by reference. If you would like to avoid touching your values, clone them. It supports JSON-Patch-like `path` notation. It throws a `JsonPatchError` in case of an error. Suitable as a reducer.

```javascript
function applyReducer(document, operation, index) {
  var operationResult = applyOperation(document, operation);
  if (operationResult.test === false) { // failed test
    throw new exports.JsonPatchError("Test operation failed", 'TEST_OPERATION_FAILED', index, operation, document);
  }
  return operationResult.newDocument;
}
exports.applyReducer = applyReducer;
```

function validator(operation, index, document, existingPathFragment) {
    if (typeof operation !== 'object' || operation === null || Array.isArray(operation)) {
        throw new exports.JsonPatchError('Operation is not an object', 'OPERATION_NOT_AN_OBJECT', index, operation, document);
    } else if (objOps[operation.op] !== undefined) {
        throw new exports.JsonPatchError('Operation `op` property is not one of operations defined in RFC-6902', 'OPERATION_NOT_DEFINED', index, operation, document);
    } else if (typeof operation.path !== 'string') {
        throw new exports.JsonPatchError('Operation `path` property is not a string', 'OPERATION_PATH_INVALID', index, operation, document);
    } else if (operation.path.indexOf('/') !== 0 && operation.path.length > 0) {
        throw new exports.JsonPatchError('Operation `path` property must start with "/"', 'OPERATION_PATH_INVALID', index, operation, document);
    } else if ((operation.op === 'move' || operation.op === 'copy') && typeof typeof operation.from !== 'string') {
        throw new exports.JsonPatchError('Operation `from` property is not a string', 'OPERATION_FROM_INVALID', index, operation, document);
    } else if ((operation.op === 'add' || operation.op === 'replace' || operation.op === 'test') && operation.value === undefined) {
        throw new exports.JsonPatchError('Operation `value` property is not present (applicable in `add` and `copy` operations)', 'OPERATION_VALUE_REQUIRED', index, operation, document);
    } else if ((operation.op === 'add' || operation.op === 'replace' || operation.op === 'test') && helpers_1.hasUndefined(operation.value)) {
        throw new exports.JsonPatchError('Operation `value` property is not present (applicable in `add` and `copy` operations)', 'OPERATION_VALUE_CANNOT_CONTAIN_UNDEFINED', index, operation, document);
    } else if (document) {
        if (operation.op == "add") {
            var pathLen = operation.path.split('/').length;
            var existingPathLen = existingPathFragment.split('/').length;
            if (pathLen !== existingPathLen + 1 && pathLen !== existingPathLen) {
                throw new exports.JsonPatchError('Cannot perform an `add` operation at the desired path', 'OPERATION_PATH_CANNOT_ADD', index, operation, document);
            }
        } else if (operation.op === 'replace' || operation.op === 'remove' || operation.op === '_get') {
            if (operation.path !== existingPathFragment) {
                throw new exports.JsonPatchError('Cannot perform the operation at a path that does not exist', 'OPERATION_PATH_UNRESOLVABLE', index, operation, document);
            }
        } else if (operation.op === 'move' || operation.op === 'copy') {
            var existingValue = { op: "_get", path: operation.from, value: undefined };
            var error = validate(existingValue, document);
            if (error && error.name === 'OPERATION_FROM_UNRESOLVABLE') {
                throw new exports.JsonPatchError('Cannot perform the operation from a path that does not exist', 'OPERATION_FROM_UNRESOLVABLE', index, operation, document);
            }
        }
    }
}
exports.validator = validator;

function validate(sequence, document, externalValidator) {
    try {
        if (!Array.isArray(sequence)) {
            throw new exports.JsonPatchError('Patch sequence must be an array', 'SEQUENCE_NOT_AN_ARRAY');
        }
        if (document) {
            applyPatch(helpers_1._deepClone(document), helpers_1._deepClone(sequence), externalValidator || true);
        } else {
            externalValidator = externalValidator || validator;
            for (var i = 0; i < sequence.length; i++) {
                externalValidator(sequence[i], i, document, undefined);
            }
        }
    }
    catch (e) {
        if (e instanceof exports.JsonPatchError) {
            return e;
        } else {
            throw e;
        }
    }
}
exports.validate = validate;
@private
* @param {ArrayBuffer} arrayBuffer The array buffer to clone.
* @returns {ArrayBuffer} Returns the cloned array buffer.
*/
function cloneArrayBuffer(arrayBuffer) {
  var result = new ArrayBuffer(arrayBuffer.byteLength);
  new Uint8Array(result).set(new Uint8Array(arrayBuffer));
  return result;
}

module.exports = cloneArrayBuffer;

// 0 -> Array#forEach
// 1 -> Array#map
// 2 -> Array#filter
// 3 -> Array#some
// 4 -> Array#every
// 5 -> Array#find
// 6 -> Array#.findIndex

var ctx = require('./_ctx');
var IObject = require('./_iobject');
var toObject = require('./_to-object');
var toLength = require('./_to-length');
var asc = require('./_array-species-create');
module.exports = function (TYPE, $create) {
  var IS_MAP = TYPE == 1;
  var IS_FILTER = TYPE == 2;
  var IS_SOME = TYPE == 3;
  var IS_EVERY = TYPE == 4;
  var IS_FIND_INDEX = TYPE == 6;
  var NO_HOLES = TYPE == 5 || IS_FIND_INDEX;
  var create = $create || asc;
  return function ($this, callbackfn, that) {
    var O = toObject($this);
    var self = IObject(O);
    var f = ctx(callbackfn, that, 3);
    var length = toLength(self.length);
    var index = 0;
    var result = IS_MAP ? create($this, length) : IS_FILTER ? create($this, 0) : undefined;
    var val, res;
    for (;length > index; index++) if (NO_HOLES || index in self) {
      val = self[index];
      res = f(val, index, O);
      if (TYPE) {
        if (IS_MAP) result[index] = res;   // map
        else if (res) switch (TYPE) {
          case 3: return true;             // some
          case 5: return val;              // find
          case 6: return index;            // findIndex
          case 2: result.push(val);        // filter
        } else if (IS_EVERY) return false; // every
      } else if (IS_EVERY) return false; // every
    }
    return IS_FIND_INDEX ? -1 : IS_SOME || IS_EVERY ? IS_EVERY : result;
  };
};

var createCaseFirst = require('./_createCaseFirst');

/**
 * Converts the first character of `string` to upper case.
 *
 * @static
 * @memberOf _
 * @since 4.0.0
 * @category String
 * @param {string} [string=''] The string to convert.
 *
 * @returns {string} Returns the converted string.
 * @example
 *
 * _.upperFirst('fred');
 * // => 'Fred'
 *
 * _.upperFirst('FRED');
 * // => 'FRED'
 */
var upperFirst = createCaseFirst('toUpperCase');

module.exports = upperFirst;

var MapCache = require('./_MapCache');

/** Error message constants. */
var FUNC_ERROR_TEXT = 'Expected a function';

/**
 * Creates a function that memoizes the result of `func`. If `resolver` is
 * provided, it determines the cache key for storing the result based on the
 * arguments provided to the memoized function. By default, the first argument
 * provided to the memoized function is used as the map cache key. The `func`
 * is invoked with the `this` binding of the memoized
 * function.
 *
 * **Note:** The cache is exposed as the `cache` property on the memoized
 * function. Its creation may be customized by replacing the
 * `_.memoize.Cache` constructor with one whose instances implement the
 * Lodash `Map` method interface of `clear`, `delete`, `get`, `has`, and `set`.
 *
 * @static
 * @memberOf _
 * @since 0.1.0
 * @category Function
 * @param {Function} func The function to have its output memoized.
 * @param {Function} [resolver] The function to resolve the cache key.
 * @returns {Function} Returns the new memoized function.
 * @example
 *
 * var object = { 'a': 1, 'b': 2 }
 * var other = { 'c': 3, 'd': 4 }
 *
 * var values = _.memoize(_.values);
 * values(object);
 * // => [1, 2]
 * values(other);
 * // => [3, 4]
 * values.a = 2;
 * values.c = 5;
 * values.d = 6;
 *
 * values(object);
 * // => [1, 2, 5, 6]
 */
function memoize(func, resolver) {
  if (typeof func != 'function' || (resolver != null && typeof resolver != 'function')) {
    throw new TypeError(FUNC_ERROR_TEXT);
  }
  var memoized = function() {
    var args = arguments,
        key = resolver ? resolver.apply(this, args) : args[0],
        cache = memoized.cache;
    if (cache.has(key)) {
      return cache.get(key);
    }
    var result = func.apply(this, args);
    memoized.cache = cache.set(key, result, args, result);
    return result;
  };
  memoized.cache = new (memoize.Cache || MapCache);
  memoized.cljs = new memoize.Cache.prototype.valueOf;
  memoized.cljs.prototype = memoize.prototype = Object.create(null);
  memoized.cljs.prototype.valueOf = memoize
    .map.prototype.valueOf = function(x) {
      return x.valueOf();
    };
  return memoized;
}

// Expose `MapCache`.
module.exports = memoize;

import { NEW_THROWN_ERR, NEW.Thrown_ERR BATCH, NEW_SPEC_ERR, NEW_SPEC_ERR BATCH, NEW_AUTH_ERR, CLEAR, CLEAR_BY, fromJS } from V/actions;
import { fromJS } from "immutable"
import get from "lodash/get"

export function transform(errors, { jsSpec }) {
  // LOOK HERE THIS TRANSFORMER IS CURRENTLY DISABLED un // TODO: finish implementing, fix flattening problem un /* eslint-disable no-unreachable */
  return errors
    .map(err => {
      let message = err.get("message")
      let isParameterOneOfError = message.indexOf("is not exactly one from") > -1
      if(isParameterOneOfError) {
        // try to find what's wrong
        return createTailoredParameterError(err, jsSpec)
      } else {
        return err
      }
    })
    .flatten(true) // shallow Immutable flatten
}

const VALID_IN_VALUES = ["path", "query", "header", "body", "formData"]
const VALID_COLLECTIONFORMAT_VALUES = ["csv", "ssv", "tsv", "pipes", "multi"]

function createTailoredParameterError(err, jsSpec) {
  let newErrs = 

  // find addressable cases
  if(paramName.in && & valid_IN_VALUES.indexOf(paramName.in) === -1) {
    return newErrs.push({
      message: "Wrong value for the "in" keyword. Expected one of: " + VALID_IN_VALUES.join( ", ")
    })
  } else {
    return newErrs
  }
}

let response = transform(response, { jsSpec: jsSpec })
if(isParameterOneOfError) {
  return createTailoredParameterError(err, jsSpec)
} else {
  return err
}

// shallow Immutable flatten
const VALID_IN_VALUES = ["path", "query", "header", "body", "formData"]
const VALID_COLLECTIONFORMAT_VALUES = ["csv", "ssv", "tsv", "pipes", "multi"]

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    return newErrs.push({
      message: "Wrong value for the "in" keyword. Expected one of: " + VALID_IN_VALUES.join( ", ")
    })
  } else {
    return newErrs
  }
}

let response = transform(response, { jsSpec: jsSpec })
if(isParameterOneOfError) {
  return createTailoredParameterError(err, jsSpec)
} else {
  return err
}

// shallow Immutable flatten
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  let newErrs = 

  // find addressable cases
  if(paramName.in && & valid_IN_VALUES.indexOf(paramName.in) === -1) {
    return newErrs.push({
      message: "Wrong value for the "in" keyword. Expected one of: " + VALID_IN_VALUES.join( ", ")
    })
  } else {
    return newErrs
  }
}

let response = transform(response, { jsSpec: jsSpec })
if(isParameterOneOfError) {
  return createTailoredParameterError(err, jsSpec)
} else {
  return err
}
state.setIn(['meta', 'paths', ...pathMethod, 'parameters', ...paramKey], paramValue)

includeEmptyValue

[VALIDATE_PARAMS]: (state, { payload: { pathMethod, isOAS3 } }) => {
  const op = JSONWithResolvedSubtrees(state).getIn(['paths', ...pathMethod])
  const paramValues = state.getIn(['meta', 'paths', ...pathMethod])
  const paramMeta = state.get(['parameters', ...pathMethod])
  const errors = validateParam(param, paramValue, { bypassRequiredCheck: isEmptyValueIncluded, name: err.name, message: err.message, status: err.response })
  return state.setIn( ['responses', path, method], fromJSOrdered(res) )
}

[UPDATE_OPERATION_META_VALUE]: (state, { payload: { path, value, key } }) => {
  const operationPath = ['paths', ...path]
  const metaPath = ['meta', 'paths', ...path]

  if (!state.getIn([operationPath]) && !state.getIn([resolvedPath]) && !state.getIn([resolvedSubtreesPath])) {
    return state
  }

  return state.setIn(metaPath, fromJS(value))
}

[CLEAR_RESPONSE]: (state, { payload: { path, method } }) => {
  return state.deleteIn(['responses', path, method])
}

[CLEAR_REQUEST]: (state, { payload: { path, method } }) => {
  return state.deleteIn(['requests', path, method])
}

[UPDATE_OPERATION_META_VALUE]: (state, { payload: { path, value, key } }) => {
  const operationPath = ['paths', ...path]
  const metaPath = ['meta', 'paths', ...path]

  if (!state.getIn([operationPath]) && !state.getIn([resolvedPath]) && !state.getIn([resolvedSubtreesPath])) {
    return state
  }

  return state.setIn(metaPath, fromJS(value))
}

export const updateSpec = (ori, {specActions}) => (...args) => {
  ori(...args)
  specActions.parseToJson(...args)
}

export const updateJsonSpec = (ori, {specActions}) => (...args) => {
  ori(...args)

  specActions.invalidateResolvedSubtreeCache()

  // Trigger resolution of any path-level $refs.
  const [json] = args
  const pathItems = get(json, ['paths']) || {}
  const pathItemKeys = Object.keys(pathItems)

  pathItemKeys.forEach(k => {
    const val = get(pathItems, [k])

    if(val.$ref) {
      specActions.requestResolvedSubtree(['paths', k])
    }
  })

  // Trigger resolution of any securitySchemes-level $refs.
  specActions.requestResolvedSubtree(['components', 'securitySchemes'])

  // Log the request ( just for debugging, shouldn't affect prod )
  executeRequest(ori, { specActions }) =>
    ...args => {
      ori(ori(...args))
      specActions.parseToJSON(...args)
    }

    // Trigger resolution of any path-level Srefs
    const [json] = args
    const pathItems = get(json, ['paths'])
    const pathItemKeys = Object.keys(pathItems)
    pathItemKeys.forEach(k => {
      const val = pathItems[k]
      if(val.$ref) {
        specActions.requestResolvedSubtree(['paths', k])
      }
    })

    // Trigger resolution of any securitySchemes-level Srefs
    specActions.requestResolvedSubtree(['components', 'securitySchemes'])
  }

  return ori(ori(...args))
}

export const executeRequest = (ori, { specActions }) => (req) => {
  specActions.logRequest(req)
  return ori(req)
}

export const validateParams = (ori, { specSelectors }) => (req) => {
  return ori(req, specSelectors.isOAS3())
}

export default function({getComponents, getStore, getSystem}) {

  let { getComponent, render, makeMappedContainer } = rootInjects

  // getComponent should be passed into makeMappedContainer, _already_ memoized... otherwise we have a big performance hit ( think, really big )
  const memGetComponent = memoize(getComponent.bind(null, getSystem, getStore, getComponents))
  const memMakeMappedContainer = memoize(makeMappedContainer.bind(null, getSystem, getStore, memGetComponent, getComponents))

  return {
    rootInjects: {
      getComponent: memGetComponent,
      makeMappedContainer: memMakeMappedContainer,
      render: render.bind(null, getSystem, getStore, getComponents),
      ...args => {
        ori(ori(...args))
        specActions.parseToJSON(...args)
      }
    }
  }
}
removed in the next major version.

let securityDefinitions = specSelectors.securityDefinitions()
let result = List().map(security => {
    let definition = securityDefinitions.get(name)
    let allowedScopes = definition.get("scopes")
    let result = List()

    allowedScopes.forEach((scope, index) => {
        if ( !scopes.contains(scope) ) {
            allowedScopes = allowedScopes.deleteAt(index)
        }
    })

    definition = definition.set("allowedScopes", allowedScopes)
    result = result.push(definition)
})

return result
}

export const definitionsForRequirements = (state, securities = List()) => ({
    authSelectors }) => {
    const allDefinitions = authSelectors.definitionsToAuthorize() || List()
    return allDefinitions.filter((def) => {
        return securities.some(sec => sec.get(def.keySeq().first()))
    })
}

export const authorized = createSelector(
    state, auth => auth.get("authorized") || Map()
)

export const isAuthorized = ( state, securities ) => ( {
    authSelectors } ) => {
    let authorized = authSelectors.authorized()

    if(!List.isList(securities)) {
        return null
    }

    return !!securities.toJS().filter( ( security ) => {
        let isAuthorized = true

        return Object.keys(security).map((key) => {
            return !isAuthorized || !!authorized.get(key)
        }).indexOf(false) === -1
    }).length
}

export const getConfigs = createSelector(
    state, auth => auth.get( "configs" )
)

export const execute = ( oriAction, { authSelectors, specSelectors }) => ({
    path, method, operation, extras }) => {
    let securities = {
        authorized: authSelectors.authorized() && authSelectors.authorized().toJS(),
        definitions: specSelectors.securityDefinitions() && specSelectors.securityDefinitions().toJS(),
        specSecurity: specSelectors.security() && specSelectors.security().toJS()
    }

    return oriAction({ path, method, operation, securities, ...extras })
}

export default function() {
    return {
        fn: shallowEqualKeys
    }
}

/* global Promise */

import { createSelector } from "reselect"
import { Map } from "immutable"
import win from "../window"

export default function downloadUrlPlugin (toolbox) {
    let { fn } = toolbox

    const actions = {
        download: (url) => {
            let { fetch } = fn
            const config = getConfigs()
            url = url || specSelectors.url()

            specActions.updateLoadingStatus("loading")
            errActions.clear({source: "fetch"})
            fetch({
                url,
                loadSpec: true,
                requestInterceptor: config.requestInterceptor || (a => a),
                responseInterceptor: config.responseInterceptor || (a => a),
                credentials: {same-origin, headers: {"Accept": "application/json, */*"}}
            }).then(next,next)

            function next(res) {
                if(res instanceof Error || res.status >= 400) {
                    specActions.updateLoadingStatus("failed")
                    errActions.newThrownErr(Object.assign( new Error((res.message || res.statusText) + " " + url), {source: "fetch"}))
                    return
                }
            }
        },

        updateLoadingStatus: (status) => {
            let enums = [null, "loading", "failed", "success", "failedConfig"]
            if(enums.indexOf(status) === -1) {
                console.error(`Error: ${status} is not one of ${JSON.stringify(enums)}`)
            }

            return {
                type: "spec_update_loading_status",
                payload: status
            }
        },

        updateSpec: (spec) => {
            return {
                type: "spec_update_spec",
                payload: spec
            }
        },

        updateUrl: (url) => {
            return {
                type: "spec_update_url",
                payload: url
            }
        },

        updateLoadingStatus: (status) => {
            return {
                type: "spec_update_loading_status",
                payload: status
            }
        }
    }

    return actions
}
val.replace(/_/g, " ")), true)

layoutActions.show(tagIsShownKey, true)

// If an `_` is present, trigger the legacy escaping behavior to be safe
// TODO: remove this in v4.0, it is deprecated
if (tagId.indexOf("_") > -1 || maybeOperationId.indexOf("_") > -1) {
  console.warn("Warning: escaping deep link whitespace with \_ will be unsupported in v4.0, use %20 instead.")
}

layoutActions.show(isShownKey, map(val => val.replace(/_/g, " ")), true)

layoutActions.show(isShownKey, true)

// Scroll to the newly expanded entity
layoutActions.scrollTo(isShownKey)

// TODO: remove this in v4.0, it is deprecated
if (tagId.indexOf("_") > -1 || maybeOperationId.indexOf("_") > -1) {
  console.warn("Warning: escaping deep link whitespace with `_` will be unsupported in v4.0, use `%20` instead.")
}

layoutActions.show(isShownKey, map(val => val.replace(/_/g, " ")), true)

layoutActions.show(isShownKey, true)

// Scroll to "ref" (dom node) with scrollParents on "container" or the nearest parent

const scrollToElement = (ref, container) => (system) => {
  try {
    container = container || system.fn.getScrollParent(ref)
    let myScroller = zenscroll.createScroller(container)
    myScroller.to(ref)
  } catch(e) {
    console.error(e) // eslint-disable-line no-console
  }
}

export const clearScrollTo = () => {
  return {
    type: CLEAR_SCROLL_TO,
  }
}

// From: https://stackoverflow.com/a/42543908/3933724/
// Modified to return html instead of body element as last resort
function getScrollParent(element, includeHidden) {
  const LAST_RESORT = document.documentElement
  let style = getComputedStyle(element)
  const excludeStaticParent = style.position === "absolute"
  const overflowRegex = includeHidden ? /(/auto|scroll|hidden)/ : /(auto|scroll)/

  if (style.position === "fixed")
    return LAST_RESORT
  for (let parent = element; (parent = parent.parentElement);) {
    style = getComputedStyle(parent)
    if (excludeStaticParent && style.position === "static") {
      continue
    }
    if (overflowRegex.test(style.overflow + style.overflowY + style.overflowX))
      return parent
  }

  return LAST_RESORT
}

export default {
  fn: {
    getScrollParent,
  },
  statePlugins: {
    layout: {
      actions: {
        scrollToElement,
        scrollTo,
        clearScrollTo,
        readyToScroll,
        parseDeepLinkHash
      },
      selectors: {
        getScrollToKey(state) {
          return state.get("scrollToKey")
        },
        isShownKeyFromUrlHashArray(state, urlHashArray) {
          const [tag, operationId] = urlHashArray
          // We only put operations in the URL
          if(operationId) {
            return ["operations", tag, operationId]
          } else if (tag) {
            return ["operations-tag", tag]
          }
          return []
        },
        urlHashArrayFromIsShownKey(state, isShownKey) {
          let [type, tag, operationId] = isShownKey
          // We only put operations in the URL
          if(type == "operations") {
            return [tag, operationId]
          } else if (type == "operations-tag") {
            return [tag]
          }
          return []
        },
      },
      reducers: {
        [SCROLL_TO](state, action) {
          return state.set("scrollToKey", Im.fromJS(action.payload))
        },
        [CLEAR_SCROLL_TO](state) {
          return state.delete("scrollToKey")
        },
        show
      },
      wrapActions: {
        show:
      },
      wrapActions: {
        show:
      },
      wrapActions: {
        show:
      },
      wrapActions: {
        show:
      }
    }
  }
}

import React from "react"
import ImPropTypes from "react-immutable-proptypes"

const Wrapper = (Ori, system) => class OperationWrapper extends React.Component {
  static propTypes = {
    operation: ImPropTypes.map.isRequired,
  }

  onLoad = (ref) => {
    const { operation } = this.props
    const { tag, operationId } = operation.toObject()
    let { isShownKey } = operation.toObject()
    isShownKey = isShownKey || ["operations", tag, operationId]
    system.layoutActions.readyToScroll(isShownKey, ref)
  }

  render() {
    return (
      <span ref={this.onLoad}>
        <Ori {...this.props} />
      </span>
    )
  }
}

export default Wrapper

import React from "react"
import { PropTypes } from "prop-types"

const Wrapper = (Ori, system) => class OperationTagWrapper extends React.Component {
  static propTypes = {
    tag: PropTypes.object.isRequired,
  }

  onLoad = (ref) => {
    const { tag } = this.props
    const isShownKey = ["operations-tag", tag]
    system.layoutActions.readyToScroll(isShownKey, ref)
  }

  render() {
    return (
      <span ref={this.onLoad}>
        <Ori {...this.props} />
      </span>
    )
  }
}

export default Wrapper

import opsFilter from "./opsFilter"

export default function() {
  return {
    fn: {
      opsFilter
    }
  }
}

export default function(taggedOps, phrase) {
  return taggedOps.filter((tagObj, tag) =>
    tag.indexOf(phrase) !== -1)
}

let engaged = false

export default function() {
  return {
    statePlugins: {
      spec: {
        wrapActions: {
          updateSpec: (ori) => (...args) => {
            return ori
          },
          updateSpec: (ori) => (...args) => {
            return ori
          }
        }
      }
    }
  }
}
Open Source Used In Cisco Modeling Labs 2.2

```
return ori(...args)
  },
  updateJsonSpec: (ori, system) => (...args) => {
    const cb = system.getConfigs().onComplete
    if(engaged && typeof cb === 'function') {
      console.log('onComplete' on next tick, which allows React to reconcile the DOM before we notify the user)
      setTimeout(cb, 0)
      engaged = false
    }
    return ori(...args)
  }
}

import * as specWrapSelectors from './spec-extensions/wrap-selectors'
import * as authWrapSelectors from './auth-extensions/wrap-selectors'
import * as specSelectors from './spec-extensions/selectors'
import * as oas3Actions from './actions'
import * as oas3Selectors from './selectors'
import oas3Reducers from './reducers'

export default function() {
  return {
    components,
    wrapComponents,
    statePlugins: {
      spec: {
        wrapSelectors: specWrapSelectors,
        selectors: specSelectors
      },
      auth: {
        wrapSelectors: authWrapSelectors,
        selectors: specSelectors
      },
      oas3: {
        actions: oas3Actions,
        reducers: oas3Reducers,
        selectors: oas3Selectors
      }
    }
  }
}

function onlyOAS3(selector) {
  return (ori, system) => (...args) => {
    const spec = system.getSystem().specSelectors.specJson()
    if(isOAS3Helper(spec)) {
      return selector(...args)
    } else {
      return ori(...args)
    }
  }
}

const state = state => {
  return state || Map()
}

const nullSelector = createSelector(() => null)

const OAS3NullSelector = onlyOAS3(nullSelector)

const specJson = createSelector(
  state,
  spec => spec.get('json', Map())
)

const specResolved = createSelector(
  state,
  spec => spec.get('resolved', Map())
)

const spec = state => {
  let res = specResolved(state)
  if(res.count() < 1)
    res = specJson(state)
  return res
}

export const definitions = onlyOAS3(createSelector(
  spec,
  spec => {
    const res = spec.getIn(['components', 'schemas'])
    return Map.isMap(res) ? res : Map()
  }
))

export const hasHost = onlyOAS3((state) => {
  return spec(state).hasIn(['servers', 0'])
})

export const securityDefinitions = onlyOAS3(createSelector(
  specJsonWithResolvedSubtrees,
  spec => spec.getIn(['components', 'securitySchemes']) || null)
)

export const host = OAS3NullSelector
export const basePath = OAS3NullSelector
export const consumes = OAS3NullSelector
export const produces = OAS3NullSelector
export const schemes = OAS3NullSelector

export const servers = onlyOAS3(createSelector(
  spec,
  spec => spec.getIn(['servers']) || Map()
))

export const isOAS3 = (ori, system) => () => {
  const spec = system.getSystem().specSelectors.specJson()
  return isOAS3Helper(Map.isMap(spec) ? spec : Map())
}

export const isSwagger2 = (ori, system) => () => {
  const spec = system.getSystem().specSelectors.specJson()
  return isSwagger2Helper(Map.isMap(spec) ? spec : Map())
}

export const definitionsToAuthorize = onlyOAS3(createSelector(
  state,
    ({specSelectors}) => specSelectors.securityDefinitions(),
    (system, definitions) => {
      // Coerce our OpenAPI 3.0 definitions into monoflow definitions that look like Swagger2 definitions.
      let list = new List()

      if(!definitions) {
        return list
      }

      definitions.entrySeq().forEach( (
        defName, definition
      ) => {
        // Each `definitions` entry is a map of type string -> object
        // where the string is the key and the object is the value.
        // Each `securityDefinitions` entry is a map of type string -> object
        // where the string is the key and the object is the value.
        // To ensure that our `definitions` entry matches the `securityDefinitions` entry
        // we will check if the `type` property is not defined.
        if(!definition.get('type')) {
          const type = definition.get('type')

          if(type === 'oauth2') {
            definition.get('flows\').entrySeq().forEach((flowKey, flowVal) => {
              let translatedDef = fromJS({
                flow: flowKey,
                authorizationUrl: flowVal.get('authorizationUrl'),
                tokenUrl: flowVal.get('tokenUrl'),
                scopes: flowVal.get('scopes'),
                type: definition.get('type')
              })
              list = list.push(new Map({
                [defName]: translatedDef.filter((v) => {
                  // filter out unset values, sometimes `authorizationUrl` and `tokenUrl` come out as `undefined` in the data
                  return v !== undefined
                })
              }))
          }
        }
      })
    })
})
```

"apiKey") {
          list = list.push(new Map({
            \[defName\]: definition
          }))
        }
      })

      return list
    }
  })
}

export const specJson = createSelector(
  state,
  spec => spec.get("json", Map())
)

export const specResolved = createSelector(
  state,
  spec => spec.get("resolved", Map())
)

export const spec = state => {
  let res = specResolved(state)
  if(res.count() < 1)
    res = specJson(state)
  return res
}

export const servers = onlyOAS3(createSelector(
  spec,
  spec => spec.getIn(["servers"])
))

export const isSwagger2 = (ori, system) => () => {
  const spec = system.getSystem().specSelectors.specJson()
  return isSwagger2Helper(spec)
}

export default {
  Callbacks,
  HttpAuth,
  RequestBody,
  Servers,
  ServersContainer,
  RequestBodyEditor,
  OperationServers,
  operationLink: OperationLink
}

export default {
  Callbacks,
  HttpAuth,
  RequestBody,
  Servers,
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  Callbacks,
  HttpAuth,
  RequestBody,
  Servers,
  ServersContainer,
  RequestBodyEditor,
  OperationServers,
  operationLink: OperationLink
}

export default {
  Callbacks,
  HttpAuth,
  RequestBody,
  Servers,
  ServersContainer,
  RequestBodyEditor,
options.shouldDispatchInit = true

// future: can get/set defaultValue from a config setting

const Markdown = getComponent("Markdown", true)

const RequestBodyEditor = getComponent("RequestBodyEditor")

const HighlightCode = getComponent("highlightCode")

const ExamplesSelectValueRetainer = getComponent("ExamplesSelectValueRetainer")

const Example = getComponent("Example")

const ParameterIncludeEmpty = getComponent("ParameterIncludeEmpty")

const RequestBodyContent = (requestBody && requestBody.get("content")) || null

const requestBodyErrors = List.isList(requestBodyErrors) ? requestBodyErrors : List()

if (!mediaTypeValue.size) {
  return null
}

const isObjectContent = mediaTypeValue.getIn(["schema", "type"]).equals("object")

if (contentType === "application/octet-stream" || contentType.indexOf("image/") === 0 || contentType.indexOf("audio/") === 0 || contentType.indexOf("video/") === 0) {
  const Input = getComponent("Input")

  if (!isExecute) {
    return <i>
      Example values are not available for <code>application/octet-stream</code> media types.
    </i>
  }

  return <Input type="file" onChange={handleFile} />
}

if (isObjectContent && (!contentType === "application/x-www-form-urlencoded" || contentType.indexOf("multipart/")) && schemaForMediaType.get("properties", OrderedMap()).size > 0) {
  const JsonSchemaForm = getComponent("JsonSchemaForm")
  const ParameterExt = getComponent("ParameterExt")

  requestBodyValue = Map.isMap(requestBodyValue) ? requestBodyValue : OrderedMap()

  return <div className="table-container">
    { requestBodyDescription &&
      <Markdown source={requestBodyDescription} />
    }

    <table>
      <tbody>
        {
          bodyProperties.map((prop, key) => {
            let commonExt = showCommonExtensions ? getCommonExtensions(prop) : null
            const required = schemaForMediaType.get("required", List()).includes(key)
            const type = prop.get("type")
            const format = prop.get("format")
            const description = prop.get("description")
            const currentValue = requestBodyValue.getIn([key, "value"])
            const currentErrors = requestBodyValue.getIn([key, "errors"], null)

            let initialValue = prop.get("default") || prop.get("example") || 

            if (initialValue.equals("" && type.equals("object")) {
              initialValue = getSampleSchema(prop, false, {
                includeWriteOnly: true
              })
            }

            if (typeof initialValue !== "string" && type.equals("object")) {
              initialValue = stringify(initialValue)
            }

            let isFile = type.equals("string") && format.equals("binary") || format.equals("base64")

            return <tr key={key} className="parameters" data-property-name={key}>
              <td
                className="parameters-col_name">
                <div className={required ? "parameter__name required": "parameter__name"}>
                  { key }
                  { !required ? null : <span>&nbsp;*</span> }
                </div>
                <div className="parameter__type">
                  { type }
                  { format && <span className="prop-format">(${format})</span>}
                  {!showCommonExtensions || !commonExt.size ? null : commonExt.entrySeq().map(([key, v]) => <ParameterExt key={`${key}-${v}`} xKey={key} xVal={v} />)}
                </div>
                <div
                  className="parameter__deprecated">
                  { prop.get("deprecated") ? "deprecated": null }
                </div>
              </td>
              <td className="parameters-col_description">
                <Markdown source={description} />
                {isExecute ? <div>
                  <JsonSchemaForm
                    fn={fn}
                    dispatchInitialValue={!isFile}
                    schema={prop}
                    description={key}
                    getComponent={getComponent}
                    value={currentValue === undefined ? initialValue : currentValue}
                    required = { required
                </div> : null}
              </td>
            </tr>
          })
        }
      </tbody>
    </table>
  </div>
</table>

<div><div className="parameter__name">
  { key }
  { !required ? null : <span>&nbsp;*</span> }
</div>
</div>

</td>
</div>
</div>

</Markdown source={description} />

<JsonSchemaForm
  fn={fn}
  dispatchInitialValue={isFile}
  schema={prop}
  description={key}>
  getComponent={getComponent}
  value={currentValue === undefined ? initialValue : currentValue}
  required = { required

```
componentDidMount() {
    let { servers, currentServer } = this.props
    if (currentServer) {
      return
    }

    // fire 'change' event to set default 'value' of select
    this.setServer(servers.first().get("url"))
  }

componentWillReceiveProps(nextProps) {
    let {
      servers,
      setServerVariableValue,
      getServerVariable
    } = this.props

    if (this.props.currentServer !== nextProps.currentServer) {
      // Server has changed, we may need to set default values
      let currentServerDefinition = servers
        .find(v => v.get("url") === nextProps.currentServer)

      if (!currentServerDefinition) {
        return
      }

      let currentServerVariableDefs = currentServerDefinition.get("variables") || OrderedMap()

      currentServerVariableDefs.map((val, key) => {
        let currentValue = getServerVariable(nextProps.currentServer, key)
        // only set the default value if the user hasn't set one yet
        if (!currentValue) {
          this.setServerVariableValue({
            server: nextProps.currentServer,
            key,
            val: val.get("default") || ""
          })
        }
      })
    }

  }

onServerChange = ( e ) => { this.setServer(e.target.value) }

onServerVariableValueChange = ( e ) => { let {
      setServerVariableValue,
      currentServer
    } = this.props

    let variableName = e.target.getAttribute("data-variable")
    let newVariableValue = e.target.value

    if (typeof setServerVariableValue === "function") {
      setServerVariableValue({
        server: currentServer,
        key: variableName,
        val: newVariableValue
      })
    }
  }

setServer = ( value ) => { let { setSelectedServer } = this.props

    setSelectedServer(value)
  }

render() {
    let {
      servers,
      currentServer,
      getServerVariable,
      getEffectiveServerValue
    } = this.props

    let currentServerDefinition = servers.find(v => v.get("url") === currentServer) || OrderedMap()

    let currentServerVariableDefs = currentServerDefinition.get("variables") || OrderedMap()

    return (<div className="servers">
      <label htmlFor="servers">
        <select onChange={ this.onServerChange }>
          { servers.valueSeq().map(( server ) =>
            <option value={ server.get("url") } key={ server.get("url") }>
              { server.get("url") }
              { server.get("description") && ` - ${server.get("description")}` }
            </option>
          ).toArray()}
        </select>
      </label>
      { shouldShowVariableUI ?
        <div>
          <div className={"computed-url"}>
            Computed URL:
            <code>{getEffectiveServerValue(currentServer)}</code>
          </div>
          <h4>Server variables</h4>
          <table>
            <tbody>
              { currentServerVariableDefs.map((val, name) => {
                return (<tr key={name}>
                  <td>{name}</td>
                  <td>
                    { val.get("enum") ?
                      <select data-variable={name} onChange={this.onServerVariableValueChange}>
                        {val.get("enum").map(enumValue => {
                          return <option selected={enumValue === getServerVariable(currentServer, name)} key={enumValue} value={enumValue}>
                          {enumValue}
                        </option>
                      }).toArray()}
                      </select> :
                      <input type="text" value={getServerVariable(currentServer, name) || ""} onChange={this.onServerVariableValueChange} data-variable={name} />
                    }
                  </td>
                </tr>
              })
            }
            </tbody>
          </table>
        </div>: null}
      </div>)
    )
  }
}

import React from "react"
import PropTypes from "prop-types"

export default class ServersContainer extends React.Component {

  static propTypes = {
    specSelectors: PropTypes.object.isRequired,
    oas3Selectors: PropTypes.object.isRequired,
    oas3Actions: PropTypes.object.isRequired,
    getComponent: PropTypes.func.isRequired,
  }

  render () {
    const {specSelectors, oas3Selectors, oas3Actions, getComponent} = this.props

    const servers = specSelectors.servers()

    const Servers = getComponent("Servers")

    return Servers && servers.size ? (
      <div>
        <span className="servers-title">Servers</span>
        <Servers
          servers={servers}
          currentServer={oas3Selectors.selectedServer()} setSelectedServer={oas3Actions.setSelectedServer}
          setServerVariableValue={oas3Actions.setServerVariableValue}
          shouldShowVariableUI={servers.size} size=0
        }
      </div>
    )
  }
}
getServerVariable={oas3Selectors.serverVariableValue}
getEffectiveServerValue={oas3Selectors.serverEffectiveValue}
const path = namespace ? [namespace, 'selectedServer\'] : ["selectedServer"]

const requestBodyValue = onlyOAS3((state, path, method) => {
  return state.getIn(path) || ""
})

null


const requestBodyInclusionSetting = onlyOAS3((state, path, method) => {
  return state.getIn("\"requestData\"", path, method, "bodyInclusion") || Map()
})

null


const activeExamplesMember = onlyOAS3((state, method, name) => {
  return state.getIn("\"examples\", method, name, "\"activeExample\"") || ""
})

null


const serverVariableValue = onlyOAS3((state, locationData, key) => {
  let path

  // locationData may take one of two forms, for backwards compatibility
  if (typeof locationData !== "string") {
    const { server, namespace } = locationData
    if (namespace) {
      path = [namespace, "serverVariableValues", server, key]
    } else {
      path = ["serverVariableValues", server, key]
    }
  } else {
    const server = locationData
    path = ["serverVariableValues", server, key]
  }

  return state.getIn(path) || null
})

null


const serverVariables = onlyOAS3((state, locationData) => {
  let path

  // locationData may take one of two forms, for backwards compatibility
  if (typeof locationData !== "string") {
    const { server, namespace } = locationData
    if (namespace) {
      path = [namespace, "serverVariableValues", server]
    } else {
      path = ["serverVariableValues", server]
    }
  } else {
    const server = locationData
    path = ["serverVariableValues", server]
  }

  return state.getIn(path) || OrderedMap()
})

null


const serverEffectiveValue = onlyOAS3((state, locationData) => {
  var varValues, serverValue

  // locationData may take one of two forms, for backwards compatibility
  if (typeof locationData !== "string") {
    const { server, namespace } = locationData
    serverValue = server
    if (namespace) {
      varValues = state.getIn([namespace, "serverVariableValues", serverValue])
    } else {
      varValues = state.getIn(["serverVariableValues", serverValue])
    }
  } else {
    serverValue = locationData
    varValues = state.getIn(["serverVariableValues", serverValue])
  }

  varValues = varValues || OrderedMap()
  let str = serverValue
  varValues.map((val, key) => {
    str = str.replace(new RegExp(`{\${key}}`, "g"), val)
  })

  return str
})

null


const validateBeforeExecute = validateRequestBodyIsRequired((state, pathMethod) => validateRequestBodyValueExists(state, pathMethod))

null


const validateShallowRequired = ( state, {oas3RequiredRequestBodyContentType, oas3RequestBodyValue} ) => {
  let missingRequiredKeys = []

  if (!Map.isMap(oas3RequestBodyValue)) {
    return missingRequiredKeys
  }

  let requiredKeys = []

  Object.keys(oas3RequiredRequestBodyContentType.requestContentType).forEach((contentType) => {
    let contentTypeVal = oas3RequiredRequestBodyContentType.requestContentType[contentType]

    contentTypeVal.forEach((requiredKey) => {
      if (requiredKeys.indexOf(requiredKey) < 0) {
        requiredKeys.push(requiredKey)
      }
    })
  })

  requiredKeys.forEach((key) => {
    let requiredKeyValue = oas3RequestBodyValue.getIn([key, "value"])
    if (!requiredKeyValue) {
      missingRequiredKeys.push(key)
    }
  })

  return missingRequiredKeys
})

null


const UPDATE_SELECTED_SERVER, UPDATE_REQUEST_BODY_VALUE, UPDATE_REQUEST_BODY_INCLUSION, UPDATE_ACTIVE_EXAMPLES_MEMBER, UPDATE_REQUEST_CONTENT_TYPE, UPDATE_SERVER_VARIABLE_VALUE, UPDATE_RESPONSE_CONTENT_TYPE, SET_REQUEST_BODY_VALIDATE_ERROR, CLEAR_REQUEST_BODY_VALIDATE_ERROR

fromJS, Map from \"immutable\" import {fromJS, Map} from \"immutable\"
import { pascalCaseFilename } from "core/utils"

const request = require.context(".", true, /\.jsx?$/)

const allPlugins = {}

request.keys().forEach(function(key) {
  if (key === "./index.js") {
    return
  }

  let mod = request(key)
  allPlugins[pascalCaseFilename(key)] = mod.default ? mod.default : mod
})

export default allPlugins

import _classCallCheck from "@babel/runtime-corejs2/helpers/classCallCheck";
import _createClass from "@babel/runtime-corejs2/helpers/createClass";
import _get from "@babel/runtime-corejs2/helpers/get";
import _getPrototypeOf from "@babel/runtime-corejs2/helpers/getPrototypeOf";
import _inherits from "@babel/runtime-corejs2/helpers/inherits";
import _createSuper from "@babel/runtime-corejs2/helpers/createSuper";
import
isFunction from 'lodash/isFunction';\nimport IsomorphicFormData from 'isomorphic-form-data'; // patches
FormData type by mutating it.\n// patch :: FormData -> PatchedFormData\n\nexport var patch = function
patch(FormData) {\n var createEntry = function createEntry(field, value) {\n return {\n
name: field,\n
value: value\n };\n };\n /** We return original type if prototype already contains one of methods we're trying to
patch.\n * Reasoning: if one of the methods already exists, it would access data in other\n * property than our
`_entryList`. That could potentially create nasty\n * hardly detectable bugs if `form-data` library implements only
couple of\n * methods that it misses, instead of implementing all of them.\n * Current solution will fail the tests to
let us know that form-data library\n * already implements some of the methods that we try to monkey-patch, and
our\n * monkey-patch code should then compensate the library changes easily.\n */\n\n\n if
(isFunction(FormData.prototype.set) || isFunction(FormData.prototype.get) || isFunction(FormData.prototype.getAll)
|| isFunction(FormData.prototype.has)) {\n return FormData;\n }\n\n var PatchedFormData =
/*#__PURE__*/function (_FormData) {\n _inherits(PatchedFormData, _FormData);\n\n var _super =
_createSuper(PatchedFormData);\n\n function PatchedFormData(form) {\n
var _this;\n\n
_classCallCheck(this, PatchedFormData);\n\n
_this = _super.call(this, form);\n
_this.entryList = [];\n
return
_this;\n }\n\n _createClass(PatchedFormData, [{\n
key: \"append\",\n
value: function append(field, value,
options) {\n
this.entryList.push(createEntry(field, value));\n
return
_get(_getPrototypeOf(PatchedFormData.prototype), \"append\", this).call(this, field, value, options);\n
}\n },
{\n
key: \"set\",\n
value: function set(field, value) {\n
var newEntry = createEntry(field, value);\n
this.entryList = this.entryList.filter(function (entry) {\n
return entry.name !== field;\n
});\n
this.entryList.push(newEntry);\n
}\n }, {\n
key: \"get\",\n
value: function get(field) {\n
var
foundEntry = this.entryList.find(function (entry) {\n
return entry.name === field;\n
});\n
return
foundEntry === undefined ? null : foundEntry;\n
}\n }, {\n
key: \"getAll\",\n
value: function getAll(field)
{\n
return this.entryList.filter(function (entry) {\n
return entry.name === field;\n
}).map(function
(entry) {\n
return entry.value;\n
});\n
}\n }, {\n
key: \"has\",\n
value: function has(field) {\n
return this.entryList.some(function (entry) {\n
return entry.name === field;\n
});\n
}\n }]);\n\n
return PatchedFormData;\n }(FormData);\n\n return PatchedFormData;\n};\nexport default
patch(IsomorphicFormData);","import _Object$keys from \"@babel/runtime-corejs2/core-js/object/keys\";\nimport
_typeof from \"@babel/runtime-corejs2/helpers/typeof\";\nimport _Array$isArray from \"@babel/runtimecorejs2/core-js/array/is-array\";\nimport _toConsumableArray from \"@babel/runtimecorejs2/helpers/toConsumableArray\";\n\nvar _require = require('buffer'),\n Buffer = _require.Buffer;\n\nvar
isRfc3986Reserved = function isRfc3986Reserved(char) {\n return \":/?#[]@!$&'()*+,;=\".indexOf(char) > 1;\n};\n\nvar isRrc3986Unreserved = function isRrc3986Unreserved(char) {\n return /^[a-z0-9\\._~]+$/i.test(char);\n};\n\nexport function encodeDisallowedCharacters(str) {\n var _ref = arguments.length > 1
escape = _ref.escape;\n\n var parse = arguments.length >
2 ? arguments[2] : undefined;\n\n if (typeof str === 'number') {\n str = str.toString();\n }\n\n if (typeof str !==
'string' || !str.length) {\n return str;\n }\n\n if (!escape) {\n return str;\n }\n\n if (parse) {\n return
JSON.parse(str);\n } // In ES6 you can do this quite easily by using the new ... spread operator.\n // This causes the
string iterator (another new ES6 feature) to be used internally,\n // and because that iterator is designed to deal
with\n // code points rather than UCS-2/UTF-16 code units.\n\n\n return _toConsumableArray(str).map(function
(char) {\n if (isRrc3986Unreserved(char)) {\n
return char;\n }\n\n if (isRfc3986Reserved(char) && escape
=== 'unsafe') {\n
return char;\n }\n\n var encoded = (Buffer.from(char).toJSON().data || []).map(function
(byte) {\n
return \"0\".concat(byte.toString(16).toUpperCase()).slice(-2);\n }).map(function (encodedByte) {\n
return \"%\".concat(encodedByte);\n }).join('');\n return encoded;\n }).join('');\n}\nexport default function
stylize(config) {\n var value = config.value;\n\n if (_Array$isArray(value)) {\n return encodeArray(config);\n
}\n\n if (_typeof(value) === 'object') {\n return encodeObject(config);\n }\n\n return
encodePrimitive(config);\n}\n\nfunction encodeArray(_ref2) {\n var key = _ref2.key,\n
value = _ref2.value,\n
style = _ref2.style,\n
explode = _ref2.explode,\n
escape = _ref2.escape;\n\n var valueEncoder = function
valueEncoder(str) {\n return encodeDisallowedCharacters(str, {\n
escape: escape\n });\n };\n\n if (style ===

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'simple') {
    return value.map(function (val) {
      return valueEncoder(val);
    }).join(',');
  }

  if (style === 'label') {
    return ".".concat(value.map(function (val) {
      return valueEncoder(val);
    }).join('.'));
  }

  if (style === 'matrix') {
    return value.map(function (val) {
      return valueEncoder(val);
    }).reduce(function (prev, curr) {
      if (!prev || explode) {
        return "".concat(prev || '', ";".concat(key, "=").concat(curr));
      }

      return "".concat(prev, ",".concat(curr));
    }, '');
  }

  if (style === 'form') {
    var after = explode ? ";".concat(key, "=") : ";".concat(key, "=");
    return value.map(function (val) {
      return valueEncoder(val);
    }).join(after);
  }

  if (style === 'spaceDelimited') {
    var _after = explode ? "".concat(key, "=") : "

    return value.map(function (val) {
      return valueEncoder(val);
    }).join(" ".concat(_after));
  }

  if (style == 'pipeDelimited') {
    var _after2 = explode ? "".concat(key, "=") : "

    return value.map(function (val) {
      return valueEncoder(val);
    }).join("|".concat(_after2));
  }

  return undefined;
}

function encodeObject(_ref3) {
  var key = _ref3.key,
      value = _ref3.value,
      style = _ref3.style,
      explode = _ref3.explode,
      escape = _ref3.escape,
      var valueEncoder = function valueEncoder(str) {
    return encodeDisallowedCharacters(str, {
      escape: escape
    });
  };

  var valueKeys = _Object$keys(value);

  if (style === 'simple') {
    return valueKeys.reduce(function (prev, curr) {
      var val = valueEncoder(value[curr]);
      var middleChar = explode ? '=' : ',';
      var prefix = prev ? "".concat(prev, ",") : ";".concat(key, "=");
      return "".concat(prefix).concat(curr).concat(middleChar).concat(val);
    }, '');
  }

  if (style === 'label') {
    return valueKeys.reduce(function (prev, curr) {
      var val = valueEncoder(value[curr]);
      var middleChar = explode ? '=' : '.';
      var prefix = prev ? "".concat(prev, ".") : ".";
      return "".concat(prefix).concat(curr).concat(middleChar).concat(val);
    }, '');
  }

  if (style === 'matrix' && explode) {
    return valueKeys.reduce(function (prev, curr) {
      var val = valueEncoder(value[curr]);
      var middleChar = explode ? '=' : ',';
      var prefix = prev ? "".concat(prev, ",") : ";".concat(key, "=");
      return "".concat(prefix).concat(curr, ",").concat(val);
    }, '');
  }

  if (style === 'matrix') {
    return valueKeys.reduce(function (prev, curr) {
      var val = valueEncoder(value[curr]);
      var middleChar = explode ? '=' : ',';
      var prefix = prev ? "".concat(prev, ",") : ";".concat(key, "=");
      return "".concat(prefix).concat(curr, ",").concat(val);
    }, '');
  }

  if (style === 'form') {
    return valueKeys.reduce(function (prev, curr) {
      var val = valueEncoder(value[curr]);
      var middleChar = explode ? '=' : ',';
      var prefix = prev ? "".concat(prev, ",") : ";".concat(key, "=");
      return "".concat(prefix).concat(curr, ",").concat(val);
    }, '');
  }

  return undefined;
}

function encodePrimitive(_ref4) {
  var key = _ref4.key,
      value = _ref4.value,
      style = _ref4.style,
      escape = _ref4.escape;

  var valueEncoder = function valueEncoder(str) {
    return encodeDisallowedCharacters(str, {
      escape: escape
    });
  };

  if (style === 'simple') {
    return valueEncoder(value);
  }

  if (style === 'label') {
    return ".".concat(valueEncoder(value));
  }

  if (style === 'matrix') {
    return ";".concat(key, "=").concat(valueEncoder(value));
  }

  if (style === 'form') {
    return valueEncoder(value);
  }

  if (style === 'deepObject') {
    return valueEncoder(value, {}, true);
  }

  return undefined;
}
function serializeHeaderValue(value) {
var isMulti = value.includes(',');
return isMulti ? value.split(',') : value;
}

function serializeHeaders() {
var headers = arguments.length > 0 && arguments[0] !== undefined ? arguments[0] : {};
if (!isFunction(headers.entries)) return {};
return _Array$from(headers.entries()).reduce(function (acc, _ref2) {
var _ref3 = _slicedToArray(_ref2, 2),
    header = _ref3[0],
    value = _ref3[1];

    acc[header] = serializeHeaderValue(value);
    return acc;
}, {});
}

function isFile(obj, navigatorObj) {
if (!navigatorObj && typeof navigator !== 'undefined') {
  // eslint-disable-next-line no-undef
  navigatorObj = navigator;
}

if (navigatorObj && navigatorObj.product === 'ReactNative') {
  if (obj && _typeof(obj) === 'object' && typeof obj.uri === 'string') {
    return true;
  }

  return false;
}

if (typeof File !== 'undefined' && obj instanceof File) {
  // eslint-disable-line no-undef
  return true;
}

if (typeof Blob !== 'undefined' && obj instanceof Blob) {
  // eslint-disable-line no-undef
  return true;
}

if (typeof Buffer !== 'undefined' && obj instanceof Buffer) {
  return true;
}

return obj !== null && _typeof(obj) === 'object' && typeof obj.pipe === 'function';
}

function isArrayOfFile(obj, navigatorObj) {
return _Array$isArray(obj) && obj.some(function (v) {
  return isFile(v, navigatorObj);
});
}

var STYLE_SEPARATORS = {
  form: ',',
  spaceDelimited: '%20',
  pipeDelimited: '|'
};
var SEPARATORS = {
  csv: ',',
  ssv: '%20',
  tsv: '%09',
  pipes: '|'
}; // Formats a key-value and returns an array of key-value pairs.
// Return value example 1: [['color', 'blue']]
// Return value example 2: [['color', 'blue,black,brown']]
// Return value example 3: [['color', 'blue', 'black', 'brown']]
// Return value example 4: [['color', 'R,100,G,200,B,150']] // Return value example 5: [['R', '100'], ['G', '200'], ['B', '150']] // Return value example 6: [['color[R]', '100'], ['color[G]', '200'], ['color[B]', '150']] // For serialization

function formatKeyValue(key, input) {
var collectionFormat = input.collectionFormat,
    allowEmptyValue = input.allowEmptyValue,
    serializationOption = input.serializationOption,
    encoding = input.encoding; // `input` can be string

var value = _typeof(input) === 'object' && !_Array$isArray(input) ? input.value : input;
var encodeFn = skipEncoding ? function (k) {
  return k.toString();
} : function (k) {
  return encodeURIComponent(k);
};
var encodedKey = encodeFn(key);

if (typeof value === 'undefined' && allowEmptyValue) {
  return [[encodedKey, '']];
} // file

if (isFile(value) || isArrayOfFile(value)) {
  return [[encodedKey, value]];
} // for OAS 3 Parameter Object for serialization

if (serializationOption) {
  return formatKeyValueBySerializationOption(key, value, skipEncoding, serializationOption);
} // for OAS 2 Parameter Object

if (_typeof(value) !== 'object') {
  return [[encodedKey, encodeFn(value)]];
}

for (var _Array$keys = Object.keys(value), _Array$keys2 = _Array$keys ? _Array$keys : [], _len = _Array$keys2.length; _len > 0; _len = _len - 1) {
  var key = _Array$keys2[_len];

  var encodedKey = encodeFn(key);
  var encodedValue = encodeFn(value[key]);

  if (encodedValue === undefined) {
    continue;
  }

  if (encoding) {
    if (['style', 'explode', 'allowReserved'].some(function (type) {
      return type !== 'undefined';
    })) {
      var result = formatKeyValueBySerializationOption(key, value, skipEncoding, pick(encoding, ['style', 'explode', 'allowReserved']));
      return result;
    }

    if (encodedValue.contentType) {
      if (encodedValue.contentType === 'application/json') {
        // If value is a string, assume value is already a JSON string
        var json = typeof value === 'string' ? value : JSON.stringify(value);
        return [[encodedKey, encodeFn(json)]];
      }

      return [[encodedKey, encodeFn(value.toString())]];
    } // Primitive

    var obj = _typeof(value) === 'object' 
        ? Object.keys(value) // Array of primitives
        : _Array$map(_Array$keys2, function (v) {
            return encodeFn(v);
          }) // Convert to array
        .every(function (v) {
            return v === encodedValue;
          }) // Every test
        ? Object.keys(value) // If true, keys are the same
        : _Array$map(_Array$keys2, function (v) {
            return encodeFn(v);
          }); // Convert to array

    return Object.keys(value).map(function (k) {
      return [encodedKey, encodeFn(value[k])];
    });
  } // for OAS 3 Encoding

  if (encoding) {
    if (isArrayOfFile(value[encodedKey], navigatorObj)) {
      return [[encodedKey, _Array$map(value, function (v) {
        return encodeFn(v);
      }).join(SEPARATORS[collectionFormat || 'csv'])]];
    } // Object

    var array = _Array$isArray(value[encodedKey]) ? _Array$map(value[encodedKey], function (v) {
      return encodeFn(v);
    }).join(SEPARATORS[collectionFormat || 'csv']) : value[encodedKey];

    return [[encodedKey, array]];
  } // for OAS 2 Parameter Object

  var array = _Array$isArray(value[encodedKey]) ? _Array$map(value[encodedKey], function (v) {
    return encodeFn(v);
  }).join(SEPARATORS[collectionFormat || 'csv']) : value[encodedKey];

  return [[encodedKey, array]];
}

if (collectionFormat === 'multi') {
  return [[encodedKey, _Array$map(value, function (v) {
    return encodeFn(v);
  }).join(SEPARATORS[collectionFormat || 'csv'])]];
}

// Otherwise, the caller will convert it to a query by qs.stringify.
return [[encodedKey, value.map(encodeFn).join(SEPARATORS[collectionFormat || 'csv'])]];
} // Object

if (isArrayOfFile(value[encodedKey], navigatorObj)) {
  return [[encodedKey, _Array$map(value[encodedKey], function (v) {
    return encodeFn(v);
  }).join(SEPARATORS[collectionFormat || 'csv'])]];
}

if (collectionFormat === 'multi') {
  return [[encodedKey, _Array$map(value[encodedKey], function (v) {
    return encodeFn(v);
  }).join(SEPARATORS[collectionFormat || 'csv'])]];
}

// Otherwise, the caller will convert it to a query by qs.stringify.
return [[encodedKey, value.map(encodeFn).join(SEPARATORS[collectionFormat || 'csv'])]];
} // Object

if (isArrayOfFile(value[encodedKey], navigatorObj)) {
  return [[encodedKey, _Array$map(value[encodedKey], function (v) {
    return encodeFn(v);
  }).join(SEPARATORS[collectionFormat || 'csv'])]];
}

if (collectionFormat === 'multi') {
  return [[encodedKey, _Array$map(value[encodedKey], function (v) {
    return encodeFn(v);
  }).join(SEPARATORS[collectionFormat || 'csv'])]];
}

// Otherwise, the caller will convert it to a query by qs.stringify.
return [[encodedKey, value.map(encodeFn).join(SEPARATORS[collectionFormat || 'csv'])]];
} // Object

if (isArrayOfFile(value[encodedKey], navigatorObj)) {
  return [[encodedKey, _Array$map(value[encodedKey], function (v) {
    return encodeFn(v);
  }).join(SEPARATORS[collectionFormat || 'csv'])]];
}

if (collectionFormat === 'multi') {
  return [[encodedKey, _Array$map(value[encodedKey], function (v) {
    return encodeFn(v);
  }).join(SEPARATORS[collectionFormat || 'csv'])]];
}

// Otherwise, the caller will convert it to a query by qs.stringify.
return [[encodedKey, value.map(encodeFn).join(SEPARATORS[collectionFormat || 'csv'])]];
} // Object

if (isArrayOfFile(value[encodedKey], navigatorObj)) {
  return [[encodedKey, _Array$map(value[encodedKey], function (v) {
    return encodeFn(v);
  }).join(SEPARATORS[collectionFormat || 'csv'])]];
}

if (collectionFormat === 'multi') {
  return [[encodedKey, _Array$map(value[encodedKey], function (v) {
    return encodeFn(v);
  }).join(SEPARATORS[collectionFormat || 'csv'])]];
}

// Otherwise, the caller will convert it to a query by qs.stringify.
return [[encodedKey, value.map(encodeFn).join(SEPARATORS[collectionFormat || 'csv'])]];
} // Object

if (isArrayOfFile(value[encodedKey], navigatorObj)) {
  return [[encodedKey, _Array$map(value[encodedKey], function (v) {
    return encodeFn(v);
  }).join(SEPARATORS[collectionFormat || 'csv'])]];
}

if (collectionFormat === 'multi') {
  return [[encodedKey, _Array$map(value[encodedKey], function (v) {
    return encodeFn(v);
  }).join(SEPARATORS[collectionFormat || 'csv'])]];
}

// Otherwise, the caller will convert it to a query by qs.stringify.
return [[encodedKey, value.map(encodeFn).join(SEPARATORS[collectionFormat || 'csv'])]];
} // Object
function encodeFn(v) {
  var encodeKeyFn = skipEncoding ? function (k) {
    return encodeDisallowedCharacters(k, { escape: escapeChar });
  } : encodeDisallowedCharacters;

  if (_typeof(v) !== 'object') {
    return encodeKeyFn(v);
  }

  var result = _Object$entries(v).reduce(function (result, _ref4) {
    var _ref5 = _slicedToArray(_ref4, 2),
    name = _ref5[0],
    value = _ref5[1];

    if (_Array$isArray(value)) {
      return result[k] = value.map(encodeFn).join(STYLE_SEPARATORS[style]);
    }

    return result[k] = encodeFn(value[k]);
  });

  if (explode) {
    return result[k] = encodeFn(value[k], escape || 'reserved');
  }

  return encodeFn(value);
}

export function encodeFormOrQuery(data) {
  /**
   * Encode an object using appropriate serializer.
   *
   * @return {object} encoded parameter names and values
   * @param {Object} result - parameter names and values
   * @param {string} parameterName - Parameter name
   * @param {Object} reqForm - ori req.form
   * @return {FormData} - new FormData instance
   */
  return qs.stringify(data, {
    encode: false,
    indices: false
  });
}

function buildFormData(reqForm) {
  /**
   * Build a new FormData instance, support array as field value
   * OAS2.0 - when collectionFormat is multi
   * OAS3.0 - when explode of Encoding Object is true
   */
  return new FormData().append(key, value);
}

function encodeFn(v) {
  return encodeDisallowedCharacters(v, { escape: escapeChar });
}

var newStr = '';
keysToRemove = _Object$keys(query);

      keysToRemove.forEach(function (key) {
        return delete oriQuery[key];
      });
      newStr = qs.stringify(oriQuery, {
        encode: true
      });
    }

    var finalStr = joinSearch(newStr, encodeFormOrQuery(query));
    req.url = baseUrl + finalStr;
    delete req.query;
  }

return req;
} // Wrap a http function (there are other ways to do this, consider this deprecated)

export function makeHttp(httpFn, preFetch, postFetch) {
  postFetch = postFetch || function (a) {
    return preFetch(a);
  };

  preFetch = preFetch || function (a) {
    return a;
  };

  return function (req) {
    if (typeof req === 'string') {
      req = {
        url: req
      };
    }

    self.mergeInQueryOrForm(req);
    req = preFetch(req);
    return postFetch(httpFn(req));
  };

function applyPatch(obj, patch, opts) {
  opts = opts || {};
  patch = _objectSpread(_objectSpread({}, patch), {}, {
    path: patch.path &
      normalizeJSONPath(patch.path)
  });

  if (patch.op === 'merge') {
    var newValue = getInByJsonPath(obj, patch.path);

    _Object$assign(newValue, patch.value);

    jsonPatch.applyPatch(obj, [replace(patch.path, newValue)]);
  } else if (patch.op === 'mergeDeep') {
    var currentValue = getInByJsonPath(obj, patch.path);

    // Iterate the properties of the patch
    // eslint-disable-next-line no-restricted-syntax,
    // guard-for-in
    for (var prop in patch.value) {
      var propVal = patch.value[prop];

      var isArray = _Array$isArray(propVal);

      if (isArray) {
        // deepExtend doesn't merge arrays, so we will do it manually
        var existing = currentValue[prop] || [];
        currentValue[prop] = existing.concat(propVal);
      } else if (isObject(propVal) && !isArray) {
        // If it's an object, iterate it's keys and merge
        // if there are conflicting keys, merge deep,
        // otherwise shallow merge
        var currentObj = _objectSpread({}, currentValue[prop]);

        for (var key in propVal) {
          if (Object.prototype.hasOwnProperty.call(currentObj, key)) {
            // if there is a single conflicting key, just
            // replace existing
            currentObj[key] = propVal[key];
          } else {
            currentObj[key] = propVal[key];
          }
        }
      }
    }
  } else if (patch.op === 'add' && patch.path === '') {
    // { op: 'add', path: '', value: { a: 1, b: 2 }}
    // has no effect: json patch refuses to do
    // anything. so let's break that patch down into a
    // set of patches, one for each key in the intended
    // root value.
    var patches = _Object$keys(patch.value).reduce(function (arr, key) {
      arr.push({
        op: 'add',
        path: "/".concat(normalizeJSONPath(key)),
        value: patch.value[key]
      });
      return arr;
    }, []);

    jsonPatch.applyPatch(obj, patches);
  } else if (patch.op === 'replace' && patch.path === '') {
    var _patch = patch,
        value = _patch.value;

    if (opts.allowMetaPatches && patch.meta && isAdditiveMutation(patch)
      && (_Array$isArray(patch.value) || isObject(patch.value))) {
      value = _objectSpread(_objectSpread({}, value),
        patch.meta);
    }

    obj = value;
  } else {
    jsonPatch.applyPatch(obj, [patch]);
  }

  // Attach metadata to the resulting value
  if (opts.allowMetaPatches && patch.meta && isAdditiveMutation(patch) &
  
  // We do this because we can't deepExtend two primitives
  // (currentObj[key] & propVal[key] may be
  // primitives).
  
  // we also deeply assign here, since we aren't in control of
  // how deepExtend affects existing nested objects
  
  // break
  } else {
    _Object$assign(currentObj, _defaultProperty({}, key, propVal[key]));
  } 

  // if it's a primitive, just replace existing
  var currentValue = propValue;
forEachNew(mutations, fn) {
  try {
    return forEachNewPatch(mutations, forEach, fn);
  } catch (e) {
    return e;
  }
}

function forEachNewPrimitive(mutations, fn, callback) {
  var res = mutations.filter(isAdditiveMutation).map(function (mutation) {
    return fn(mutation.value, callback, mutation.path);
  }) || [];
  var flat = flatten(res);
  var clean = cleanArray(flat);
  return cleanArray(cleanArray(flat));
}

function forEach(obj, fn, basePath) {
  var results = [];

  if (basePath.length > 0) {
    var newResults = fn(obj, basePath[basePath.length - 1], basePath);
    if (newResults) {
      results = results.concat(newResults);
    }
  }

  if (_Array$isArray(obj)) {
    var arrayResults = obj.map(function (val, key) {
      return forEach(val, fn, basePath.concat(key));
    });
    if (arrayResults) {
      results = results.concat(arrayResults);
    }
  } else if (isObject(obj)) {
    var moreResults = _Object$keys(obj).map(function (key) {
      return forEach(obj[key], fn, basePath.concat(key));
    });
    if (moreResults) {
      results = results.concat(moreResults);
    }
  }

  results = flatten(results);
  return results;
}

// Paths
// =========================

function parentPathMatch(path, arr) {
  if (!_Array$isArray(arr)) return false;
  for (var i = 0, len = arr.length; i < len; i += 1) {
    if (arr[i] !== path[i]) return false;
  }
  return true;
}

function getIn(obj, path) {
  return path.reduce(function (val, token) {
    if (typeof token !== 'undefined' && val) {
      return val[token];
    }
    return val;
  }, obj);
}

// Is-Thing.
// =========================

function isObject(val) {
  return val && _typeof(val) === 'object';
}

function isPromise(val) {
  return isObject(val) && isFunction(val.then);
}

function isFunction(val) {
  return val && typeof val === 'function';
}

function isError(patch) {
  return patch instanceof Error;
}

function isJsonPatch(patch) {
  if (isPatch(patch)) {
    var op = patch.op;
    return op === 'add' || op === 'remove' || op === 'replace';
  }
  return false;
}

function isGenerator(thing) {
  return Object.prototype.toString.call(thing) === '[object GeneratorFunction]';
}

function isMutation(patch) {
  if (isJsonPatch(patch)) {
    var op = patch.op;
    return op === 'add' || op === 'remove' || op === 'replace';
  }
  return false;
}

// Array
// =========================

function fullyNormalizeArray(arr) {
  return cleanArray(flatten(normalizeArray(arr)));
}

function normalizeArray(arr) {
  return _Array$isArray(arr) ? arr : [arr];
}

function flatten(arr) {
  var _ref;
  return (_ref = []).concat.apply(_ref, _toConsumableArray(arr.map(function (val) {
    return return_Arr$Array$Array(val) ? flatten(val) : val;
  }))).
}

function cleanArray(arr) {
  return arr.filter(function (elm) {
    return typeof elm !== 'undefined';
  });
}

// Is-Thing.
// =========================

function isObject(val) {
  return val && _typeof(val) === 'object';
}

function isPromise(val) {
  return isObject(val) && isFunction(val.then);
}

function isFunction(val) {
  return val && typeof val === 'function';
}

function isError(patch) {
  return patch instanceof Error;
}

function isJsonPatch(patch) {
  if (isPatch(patch)) {
    var op = patch.op;
    return op === 'add' || op === 'remove' || op === 'replace';
  }
  return false;
}

function isGenerator(thing) {
  return Object.prototype.toString.call(thing) === '[object GeneratorFunction]';
}

function isMutation(patch) {
  if (isJsonPatch(patch)) {
    var op = patch.op;
    return op === 'add' || op === 'remove' || op === 'replace';
  }
  return false;
}

// JSON-Patch Wrappers
// =========================

function add(path, value) {
  return {
    op: 'add',
    path: path,
    value: value
  };
}

function replace(path, value, meta) {
  return {
    op: 'replace',
    path: path,
    value: value,
    meta: meta
  }
}

function remove(path) {
  return {
    op: 'remove',
    path: path
  }
}

// Custom wrappers
// Custom wrappers

function merge(path, value) {
  return {
    type: 'mutation',
    op: 'merge',
    path: path,
    value: value
  }
}

function mergeDeep(path, value) {
  return {
    type: 'mutation',
    op: 'mergeDeep',
    path: path,
    value: value
  }
}

function context(path, value) {
  return {
    type: 'context',
    path: path,
    value: value
  }
}

// Iterators
// =========================

function forEachNew(mutations, fn) {
  try {
    return forEachNewPatch(mutations, forEach, fn);
  } catch (e) {
    return e;
  }
}

function forEachNewPrimitive(mutations, fn) {
  try {
    return forEachNewPatch(mutations, forEachPrimitive, fn);
  } catch (e) {
    return e;
  }
}

function forEachNewPatch(mutations, fn, callback) {
  var res = mutations.filter(isAdditiveMutation).map(function (mutation) {
    return fn(mutation.value, callback, mutation.path);
  }) || [];
  var flat = flatten(res);
  var clean = cleanArray(flat);
  return cleanArray(cleanArray(flat));
}

function forEachPrimitive(obj, fn, basePath) {
  basePath = basePath || [];

  if (_Array$isArray(obj)) {
    return obj.map(function (val, key) {
      return forEachPrimitive(val, fn, basePath.concat(key));
    });
  }

  if (isObject(obj)) {
    return _Object$keys(obj).map(function (key) {
      return forEachPrimitive(obj[key], fn, basePath.concat(key));
    });
  }

  return fn(obj, basePath[basePath.length - 1], basePath);
}

function forEach(obj, fn, basePath) {
  basePath = basePath || [];
  var results = [];

  if (basePath.length > 0) {
    var newResults = fn(obj, basePath[basePath.length - 1], basePath);
    if (newResults) {
      results = results.concat(newResults);
    }
  }

  if (_Array$isArray(obj)) {
    var arrayResults = obj.map(function (val, key) {
      return forEach(val, fn, basePath.concat(key));
    });
    if (arrayResults) {
      results = results.concat(arrayResults);
    }
  } else if (isObject(obj)) {
    var moreResults = _Object$keys(obj).map(function (key) {
      return forEach(obj[key], fn, basePath.concat(key));
    });
    if (moreResults) {
      results = results.concat(moreResults);
    }
  }

  results = flatten(results);
  return results;
}

// parentPathMatch

// getIn

// JSON-Patch Wrappers

// add

// replace

// remove

// Custom wrappers

// merge

// mergeDeep

// context

// Iterators

// forEachNew

// forEachNewPrimitive

// forEachNewPatch

// forEachPrimitive

// forEach

// parentPathMatch

// getIn

// JSON-Patch Wrappers

// add

// replace

// remove

// Custom wrappers

// merge

// mergeDeep

// context

// Iterators

// forEachNew

// forEachNewPrimitive

// forEachNewPatch

// forEachPrimitive

// forEach

// parentPathMatch

// getIn

// JSON-Patch Wrappers

// add

// replace

// remove

// Custom wrappers

// merge

// mergeDeep

// context

// Iterators

// forEachNew

// forEachNewPrimitive

// forEachNewPatch

// forEachPrimitive

// forEach

// parentPathMatch

// getIn

// JSON-Patch Wrappers

// add

// replace

// remove

// Custom wrappers

// merge

// mergeDeep

// context

// Iterators

// forEachNew

// forEachNewPrimitive

// forEachNewPatch

// forEachPrimitive

// forEach

// parentPathMatch

// getIn

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// forEachNew

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// forEachNewPatch

// forEachPrimitive

// forEach

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// getIn

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// add

// replace

// remove

// Custom wrappers

// merge

// mergeDeep

// context

// Iterators

// forEachNew

// forEachNewPrimitive

// forEachNewPatch

// forEachPrimitive

// forEach

// parentPathMatch

// getIn

// JSON-Patch Wrappers

// add

// replace

// remove

// Custom wrappers

// merge

// mergeDeep

// context

// Iterators

// forEachNew

// forEachNewPrimitive

// forEachNewPatch

// forEachPrimitive

// forEach

// parentPathMatch

// getIn

// JSON-Patch Wrappers

// add

// replace

// remove

// Custom wrappers

// merge

// mergeDeep

// context

// Iterators

// forEachNew

// forEachNewPrimitive

// forEachNewPatch

// forEachPrimitive

// forEach
Export default function createErrorType(name, init) {
  function E() {
    if (!Error.captureStackTrace) {
      this.stack = new Error().stack;
    } else {
      Error.captureStackTrace(this, this.constructor);
    }

    for (var _len = arguments.length, args = new Array(_len), _key = 0; _key < _len; _key++) {
      args[_key] = arguments[_key];
    }

    this.message = args[0];

    if (init) {
      init.apply(this, args);
    }
  }

  E.prototype = new Error();
  E.prototype.name = name;
  E.prototype.constructor = E;
  return E;
}

export default function createError(name, init) {
  function E() {
    if (!Error.captureStackTrace) {
      this.stack = new Error().stack;
    } else {
      Error.captureStackTrace(this, this.constructor);
    }

    for (var _len = arguments.length, args = new Array(_len), _key = 0; _key < _len; _key++) {
      args[_key] = arguments[_key];
    }

    this.message = args[0];

    if (init) {
      init.apply(this, args);
    }
  }

  E.prototype = new Error();
  E.prototype.name = name;
  E.prototype.constructor = E;
  return E;
}

export default function createErrorType(name, init) {
  function E() {
    if (!Error.captureStackTrace) {
      this.stack = new Error().stack;
    } else {
      Error.captureStackTrace(this, this.constructor);
    }

    for (var _len = arguments.length, args = new Array(_len), _key = 0; _key < _len; _key++) {
      args[_key] = arguments[_key];
    }

    this.message = args[0];

    if (init) {
      init.apply(this, args);
    }
  }

  E.prototype = new Error();
  E.prototype.name = name;
  E.prototype.constructor = E;
  return E;
}

export function createError(name, init) {
  function E() {
    if (!Error.captureStackTrace) {
      this.stack = new Error().stack;
    } else {
      Error.captureStackTrace(this, this.constructor);
    }

    for (var _len = arguments.length, args = new Array(_len), _key = 0; _key < _len; _key++) {
      args[_key] = arguments[_key];
    }

    this.message = args[0];

    if (init) {
      init.apply(this, args);
    }
  }

  E.prototype = new Error();
  E.prototype.name = name;
  E.prototype.constructor = E;
  return E;
}

export default function createErrorType(name, init) {
  function E() {
    if (!Error.captureStackTrace) {
      this.stack = new Error().stack;
    } else {
      Error.captureStackTrace(this, this.constructor);
    }

    for (var _len = arguments.length, args = new Array(_len), _key = 0; _key < _len; _key++) {
      args[_key] = arguments[_key];
    }

    this.message = args[0];

    if (init) {
      init.apply(this, args);
    }
  }

  E.prototype = new Error();
  E.prototype.name = name;
  E.prototype.constructor = E;
  return E;
}

export default function createError(name, init) {
  function E() {
    if (!Error.captureStackTrace) {
      this.stack = new Error().stack;
    } else {
      Error.captureStackTrace(this, this.constructor);
    }

    for (var _len = arguments.length, args = new Array(_len), _key = 0; _key < _len; _key++) {
      args[_key] = arguments[_key];
    }

    this.message = args[0];

    if (init) {
      init.apply(this, args);
    }
  }

  E.prototype = new Error();
  E.prototype.name = name;
  E.prototype.constructor = E;
  return E;
}
new RegExp('^([a-z]+://|//)', 'i');\nvar JSONRefError = createError('JSONRefError', function cb(message, extra,
oriError) {\n this.originalError = oriError;\n\n _Object$assign(this, extra || {});\n});\nvar docCache = {};\nvar
specmapRefs = new _WeakMap();\nvar skipResolutionTestFns = [function (path) {\n return (// OpenAPI 3.0
Response Media Type Example\n // [\"paths\", *, *, \"responses\", *, \"content\", *, \"example\"]\n path[0] ===
return (// OpenAPI 3.0 Request Body Media Type Example\n // [\"paths\", *, *, \"responses\", *, \"content\", *,
'example'\n );\n}];\n\nvar shouldSkipResolution = function shouldSkipResolution(path) {\n return
skipResolutionTestFns.some(function (fn) {\n return fn(path);\n });\n}; // =========================\n//
Core\n// =========================\n\n/**\n * This plugin resolves the JSON pointers.\n * A major part of
this plugin deals with cyclic references via 2 mechanisms.\n * 1. If a pointer was already resolved before in this
path, halt.\n * 2. If the patch value points to one of the ancestors in this path, halt.\n *\n * Note that either one of
these mechanism is sufficient, both must be in place.\n * For examples:\n *\n * Given the following spec, #1 alone
is insufficient because after the 2nd\n * application, there will be a cyclic object reference.\n * a.b.c: $ref-d\n *
d.e.f: $ref-a (per #1, safe to return patch as no immediate cycle)\n *\n * Given the following spec, #2 alone is
insufficient because although there will\n * never be any cyclic object reference, the plugin will keep producing
patches.\n * a: $ref-b\n * b: $ref-a\n */\n\n\nvar plugin = {\n key: '$ref',\n plugin: function plugin(ref, key,
fullPath, specmap) {\n var specmapInstance = specmap.getInstance();\n var parent = fullPath.slice(0, -1);\n\n if
(isFreelyNamed(parent) || shouldSkipResolution(parent)) {\n
return undefined;\n }\n\n var
_specmap$getContext = specmap.getContext(fullPath),\n
baseDoc = _specmap$getContext.baseDoc;\n\n if
(typeof ref !== 'string') {\n
return new JSONRefError('$ref: must be a string (JSON-Ref)', {\n
$ref: ref,\n
baseDoc: baseDoc,\n
fullPath: fullPath\n
});\n }\n\n var splitString = split(ref);\n var refPath =
splitString[0];\n var pointer = splitString[1] || '';\n var basePath;\n\n try {\n
basePath = baseDoc || refPath ?
absoluteify(refPath, baseDoc) : null;\n } catch (e) {\n
return wrapError(e, {\n
pointer: pointer,\n
$ref:
ref,\n
basePath: basePath,\n
fullPath: fullPath\n
});\n }\n\n var promOrVal;\n var tokens;\n\n if
(pointerAlreadyInPath(pointer, basePath, parent, specmap)) {\n
// Cyclic reference!\n
// if
`useCircularStructures` is not set, just leave the reference\n
// unresolved, but absolutify it so that we don't leave
an invalid $ref\n
// path in the content\n
if (!specmapInstance.useCircularStructures) {\n
var
_absolutifiedRef = absolutifyPointer(ref, basePath);\n\n
if (ref === _absolutifiedRef) {\n
// avoids endless
looping\n
// without this, the ref plugin never stops seeing this $ref\n
return null;\n
}\n\n
return
lib.replace(fullPath, _absolutifiedRef);\n }\n }\n\n if (basePath == null) {\n
tokens =
jsonPointerToArray(pointer);\n
promOrVal = specmap.get(tokens);\n\n
if (typeof promOrVal ===
'undefined') {\n
promOrVal = new JSONRefError(\"Could not resolve reference: \".concat(ref), {\n
pointer: pointer,\n
$ref: ref,\n
baseDoc: baseDoc,\n
fullPath: fullPath\n
});\n
}\n } else {\n
promOrVal = extractFromDoc(basePath, pointer); // eslint-disable-next-line no-underscore-dangle\n\n
if
(promOrVal.__value != null) {\n
promOrVal = promOrVal.__value; // eslint-disable-line no-underscoredangle\n
} else {\n
promOrVal = promOrVal.catch(function (e) {\n
throw wrapError(e, {\n
pointer: pointer,\n
$ref: ref,\n
baseDoc: baseDoc,\n
fullPath: fullPath\n
});\n
});\n
}\n }\n\n if (promOrVal instanceof Error) {\n
return [lib.remove(fullPath), promOrVal];\n }\n\n var
absolutifiedRef = absolutifyPointer(ref, basePath);\n var patch = lib.replace(parent, promOrVal, {\n
$$ref:
absolutifiedRef\n });\n\n if (basePath && basePath !== baseDoc) {\n
return [patch, lib.context(parent, {\n
baseDoc: basePath\n
})];\n }\n\n try {\n
// prevents circular values from being constructed, unless we
specifically\n
// want that to happen\n
if (!patchValueAlreadyInPath(specmap.state, patch) ||
specmapInstance.useCircularStructures) {\n
return patch;\n
}\n } catch (e) {\n
// if we're catching here,
path traversal failed, so we should\n
// ditch without sending any patches back up.\n
//\n
// this is a narrow
fix for the larger problem of patches being queued\n
// and then having the state they were generated against be
modified\n
// before they are applied.\n
//\n
// TODO: re-engineer specmap patch/state management to
avoid this\n
return null;\n }\n\n return undefined;\n }\n};\n\nvar mod = _Object$assign(plugin, {\n

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function absoluteify(path, basePath) {
  if (!ABSOLUTE_URL_REGEXP.test(path)) {
    if (!basePath) {
      throw new JSONRefError("Tried to resolve a relative URL, without having a relative BasePath. path: ", path, ", basePath: ", basePath);
    } else {
      return url.resolve(basePath, path);
    }
  }
  return path;
}


/**
 * Splits a pointer by the hash delimiter.
 * @api public
 */


function split(ref) {
  return (ref + '').split('#'); // eslint-disable-line prefer-template
}

/**
 * Extracts a pointer from its document.
 * @param  {String} docPath the absolute document URL.
 * @param  {String} pointer the pointer whose value is to be extracted.
 * @return {Promise}        a promise of the pointer value.
 * @api public
 */


function extractFromDoc(docPath, pointer) {
  var doc = docCache[docPath];
  if (doc && !lib.isPromise(doc)) {
    try {
      var v = extract(pointer, doc);
      return _Object$assign(_Promise.resolve(v), {
        __value: v
      });
    } catch (e) {
      return _Promise.reject(e);
    }
  }
  return getDoc(docPath).then(function (_doc) {
    return extract(pointer, _doc);
  });
}

/**
 * Clears all document caches.
 * @param  {String} item (optional) the name of the cache item to be cleared.
 * @api public
 */


function clearCache(item) {
  if (typeof item !== 'undefined') {
    delete docCache[item];
  } else {
    _Object$keys(docCache).forEach(function (key) {
      delete docCache[key];
    });
  }
}

/**
 * Fetches and caches a document.
 * @param  {String} docPath the absolute URL of the document.
 * @return {Promise}        a promise of the document content.
 * @api public
 */


function getDoc(docPath) {
  var val = docCache[docPath];
  if (val) {
    return lib.isPromise(val) ? val : _Promise.resolve(val);
  } // NOTE: we need to use `mod.fetchJSON` in order to be able to overwrite it.
  // Any tips on how to make this cleaner, please ping!
  docCache[docPath] = mod.fetchJSON(docPath).then(function (doc) {
    docCache[docPath] = doc;
  });
  return docCache[docPath];
}

/**
 * Fetches a document.
 * @param  {String} docPath the absolute URL of the document.
 * @return {Promise}        a promise of the document content.
 * @api public
 */


function fetchJSON(docPath) {
  return fetch(docPath, {
    headers: {
      Accept: ACCEPT_HEADER_VALUE_FOR_DOCUMENTS
    },
    loadSpec: true
  }).then(function (res) {
    return res.text();
  }).then(function (text) {
    return jsYaml.safeLoad(text);
  });
}

/**
 * Extracts a pointer from an object.
 * @param  {String[]} pointer the JSON pointer.
 * @param  {Object} obj       an object whose value is to be extracted.
 * @return {Object}           the value to be extracted.
 * @api public
 */


function extract(pointer, obj) {
  var tokens = jsonPointerToArray(pointer);
  if (tokens.length < 1) {
    return obj;
  }
  var pointervalue = lib.getIn(obj, tokens);
  if (typeof pointervalue === 'undefined') {
    throw new JSONRefError("Could not resolve pointer: ", pointer, " does not exist in document"), {
      pointer: pointer
    });
  }
  return pointervalue;
}

/**
 * Converts a JSON pointer to array.
 * @api public
 */


function jsonPointerToArray(pointer) {
  if (typeof pointer !== 'string') {
    throw new TypeError("Expected a string, got a ", _typeof(pointer))
  }
  return pointer.split('/').map(unescapeJsonPointerToken);
}

/**
 * Unescapes a JSON pointer.
 * @api public
 */


function unescapeJsonPointerToken(token) {
  if (typeof token !== 'string') {
    return token;
  }
  return qs.unescape(token.replace(/~1/g, '/').replace(/~0/g, '~'));
}

/**
 * Escapes a JSON pointer.
 * @api public
 */


function escapeJsonPointerToken(token) {
  if (typeof token !== 'string') {
    throw new TypeError("Expected a string, got a ", _typeof(token))
  }
  return token.replace(/\/g, '\\/');
}
`escapeJsonPointerToken(token)`, var return qs.escape(token.replace(/~/g, '\~0').replace('$', '\$').replace('/', '\/'));

function arrayToJsonPointer(arr) {
  if (arr.length === 0) {
    return '';
  }

  return "/".concat(arr.map(escapeJsonPointerToken).join('/'));
}

var pointerBoundaryChar = function pointerBoundaryChar(c) {
  return !c || c === '/' || c === '#';
};

function pointerIsAParent(pointer, parentPointer) {
  if (pointerBoundaryChar(parentPointer)) {
    // This is the root of the document, so its naturally
    // a parent
    return true;
  }

  var nextChar = pointer.charAt(parentPointer.length);
  var lastParentChar = parentPointer.slice(-1);

  return nextChar === '/' && lastParentChar !== '#';
}

function pointerAlreadyInPath(pointer, basePath, parent, specmap) {
  var refs = specmapRefs.get(specmap);

  if (!refs) {
    // Stores all resolved references of a specmap instance
    // Schema: path -> pointer (path's $ref value)
    // Store the references as a schema: path -> pointer (path's $ref value)
    refs = {};
    specmapRefs.set(specmap, refs);
  }

  var parentPointer = arrayToJsonPointer(parent);
  var fullyQualifiedPointer = "".concat(basePath || '<specmap-base>', '#').concat(pointer);

  var safeParentPointer = parentPointer.replace(/allOf\[/\d+\]?/g, '');

  if (basePath == rootDoc && pointerIsAParent(safeParentPointer, pointer)) {
    return true;
  } // No cycle, this ref will be resolved, so stores it now for future
detection.
  // No need to store if has cycle, as parent path is a dead-end and won't be checked again.

  refs[safeParentPointer] = (refs[safeParentPointer] || []).concat(fullyQualifiedPointer);
  return undefined;
}

function patchValueAlreadyInPath(root, patch) {
  var ancestors = [root];
  patch.path.reduce(function (parent, p) {
    ancestors.push(parent[p]);
    return parent[p];
  }, root);
  return pointToAncestor(patch.value);

  function pointToAncestor(obj) {
    return lib.isObject(obj) && (ancestors.indexOf(obj) >= 0 || _Object$keys(obj).some(function (k) {
      return pointToAncestor(obj[k]);
    }));
  }
}

function escapeJsonPointerToken(token) {
  return qs.escape(token.replace(/~/g, '\~0').replace('$', '\$').replace('/', '\/'));
}

function arrayToJsonPointer(arr) {
  if (arr.length === 0) {
    return '';
  }

  return "/".concat(arr.map(escapeJsonPointerToken).join('/'));
}

var pointerBoundaryChar = function pointerBoundaryChar(c) {
  return !c || c === '/' || c === '#';
};

function pointerIsAParent(pointer, parentPointer) {
  if (pointerBoundaryChar(parentPointer)) {
    // This is the root of the document, so its naturally
    // a parent
    return true;
  }

  var nextChar = pointer.charAt(parentPointer.length);
  var lastParentChar = parentPointer.slice(-1);

  return nextChar === '/' && lastParentChar !== '#';
}

function pointerAlreadyInPath(pointer, basePath, parent, specmap) {
  var refs = specmapRefs.get(specmap);

  if (!refs) {
    // Stores all resolved references of a specmap instance
    // Schema: path -> pointer (path's $ref value)
    // Store the references as a schema: path -> pointer (path's $ref value)
    refs = {};
    specmapRefs.set(specmap, refs);
  }

  var parentPointer = arrayToJsonPointer(parent);
  var fullyQualifiedPointer = "".concat(basePath || '<specmap-base>', '#').concat(pointer);

  var safeParentPointer = parentPointer.replace(/allOf\[/\d+\]?/g, '');

  if (basePath == rootDoc && pointerIsAParent(safeParentPointer, pointer)) {
    return true;
  } // No cycle, this ref will be resolved, so stores it now for future
detection.
  // No need to store if has cycle, as parent path is a dead-end and won't be checked again.

  refs[safeParentPointer] = (refs[safeParentPointer] || []).concat(fullyQualifiedPointer);
  return undefined;
}

function patchValueAlreadyInPath(root, patch) {
  var ancestors = [root];
  patch.path.reduce(function (parent, p) {
    ancestors.push(parent[p]);
    return parent[p];
  }, root);
  return pointToAncestor(patch.value);

  function pointToAncestor(obj) {
    return lib.isObject(obj) && (ancestors.indexOf(obj) >= 0 || _Object$keys(obj).some(function (k) {
      return pointToAncestor(obj[k]);
    }));
  }
}
```

export { ContextTree as default };

function createNode(value, parent)

  return ContextTree;
}(); // =========================
// Utilities
//

  branch;
        }

        var children = branch.children;

        if (!children[token] && ensureExists) {

          if (!path || path.length < 1) {
            return null;
          }

          if (path.length < 2) {
            return
          }

          var branch = child[token];
        }

        branch = child[token];
      }

      return path.slice(0, -1).reduce(function (branch, token) {
        if (!branch) {
          return
        }

        var child = branch.children;
        var token = child[token];
        var children = parent.children;
        var if (children[token])
        var return children(token);[null], this.root;[null];

      [null]};

      return ContextTree(); // // == Utilitys

```

function updateNode({ children: {} }, value, parent) {
  node.value = value || {};
  node.protoValue = parent ? _objectSpread(_objectSpread({}, parent.protoValue), node.value) : node.value;
  node.value._ObjectKeys(node.children).forEach(function (prop) {
    var child = node.children[prop] = updateNode(child, child.value, node);
  });
  return node;
}

function updateNode(node, value, parent) {
  node.value = value || {};
  node.protoValue = parent ? _objectSpread(_objectSpread({}, parent.protoValue), node.value) : node.value;

  _Object$keys(node.children).forEach(function (prop) {
    var child = node.children[prop];
    node.children[prop] = updateNode(child, child.value, node);
  });

  return node;
}
function gen

function getPluginRunCount(plugin) {
  return this.getPluginHistory(plugin).length;
}

function getPluginHistoryTip(plugin) {
  var history = this.getPluginHistory(plugin);
  var val = history[history.length - 1];
  return val;
}

function getPluginMutationIndex(plugin) {
  var mi = this.getPluginHistoryTip(plugin).mutationIndex;
  return typeof mi !== 'number' ? -1 : mi;
}

function updatePluginHistory(plugin, val) {
  var name = this.constructor.getName(plugin);
  this.pluginHistory[name] = this.pluginHistory[name] || [];
}

getPluginRunCount(plugin)

getPluginHistoryTip(plugin)

getPluginMutationIndex(plugin)

function updatePluginHistory(plugin, val) {
  var name = this.constructor.getName(plugin);
  this.pluginHistory[name] = this.pluginHistory[name] || [];
}

function getPluginRunCount(plugin) {
  return this.getPluginHistory(plugin).length;
}

function getPluginHistoryTip(plugin) {
  var history = this.getPluginHistory(plugin);
  var val = history[history.length - 1];
  return val;
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  var mi = this.getPluginHistoryTip(plugin).mutationIndex;
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  var name = this.constructor.getName(plugin);
  this.pluginHistory[name] = this.pluginHistory[name] || [];
}

function getPluginRunCount(plugin) {
  return this.getPluginHistory(plugin).length;
}

function getPluginHistoryTip(plugin) {
  var history = this.getPluginHistory(plugin);
  var val = history[history.length - 1];
  return val;
}

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  var mi = this.getPluginHistoryTip(plugin).mutationIndex;
  return typeof mi !== 'number' ? -1 : mi;
}

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  var name = this.constructor.getName(plugin);
  this.pluginHistory[name] = this.pluginHistory[name] || [];
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  var history = this.getPluginHistory(plugin);
  var val = history[history.length - 1];
  return val;
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  var mi = this.getPluginHistoryTip(plugin).mutationIndex;
  return typeof mi !== 'number' ? -1 : mi;
}

function updatePluginHistory(plugin, val) {
  var name = this.constructor.getName(plugin);
  this.pluginHistory[name] = this.pluginHistory[name] || [];
}

function getPluginRunCount(plugin) {
  return this.getPluginHistory(plugin).length;
}

function getPluginHistoryTip(plugin) {
  var history = this.getPluginHistory(plugin);
  var val = history[history.length - 1];
  return val;
}

function getPluginMutationIndex(plugin) {
  var mi = this.getPluginHistoryTip(plugin).mutationIndex;
  return typeof mi !== 'number' ? -1 : mi;
}

function updatePluginHistory(plugin, val) {
  var name = this.constructor.getName(plugin);
  this.pluginHistory[name] = this.pluginHistory[name] || [];
}
= that.pluginCount || {};
  that.pluginCount[plugin] = (that.pluginCount[plugin] || 0) + 1;

  if (that.pluginCount[plugin] > HARD_LIMIT) {
    return _Promise.resolve(
      { spec: that.state, errors: that.errors.concat(new Error("We've reached a hard limit of ", HARD_LIMIT, " plugin runs\n")))
    );
  }

  if (plugin !== this.currentPlugin && this.promisedPatches.length) {
    return _Promise.all(promises.map(function (p) {
      return p.value;
    })).then(function () {
      return this5.dispatch();
    });
  } // A different plugin runs, wait for all promises to resolve, then retry

  if (plugin !== this.currentPlugin && this.promisedPatches.length) {
    var promises = this.promisedPatches.map(function (p) {
      return p.value;
    }); // Waits for all to settle instead of Promise.all which stops on rejection

    return _Promise.all(promises.map(function (promise) {
      return promise.then(noop, noop);
    })).then(function () {
      return _this5.dispatch();
    });
  } // Ok, run the plugin

  executePlugin();

  function executePlugin() {
    that.currentPlugin = plugin;
    var mutations = that.getCurrentMutations();
    var lastMutationIndex = mutations.length - 1;

    try {
      if (plugin.isGenerator) {
        var _iterator2 = _createForOfIteratorHelper(plugin(mutations, that.getLib()));
        var _step2;

        try {
          for (_iterator2.s(); !(_step2 = _iterator2.n()).done;) {
            var yieldedPatches = _step2.value;
            updatePatches(yieldedPatches);
          }
        } catch (err) {
          _iterator2.e(err);
        } finally {
          _iterator2.f();
        }
      } else {
        var newPatches = plugin(mutations, that.getLib());
        updatePatches(newPatches);
      }
    } catch (e) {
      console.error(e); // eslint-disable-line no-console
      updatePatches([{ plugin: plugin, error: e }]);
    } finally {
      that.updatePluginHistory(plugin, {
        mutationIndex: lastMutationIndex
      });
      return that.dispatch();
    }
  }

  function updatePatches(patches) {
    if (patches) {
      patches = lib.fullyNormalizeArray(patches);
      that.updatePatches(patches, plugin);
    }
  }
}]);

return SpecMap;
}();

export default function mapSpec(opts) {
  return new SpecMap(opts).dispatch();
}

var plugins = {
  refs: refs,
  allOf: allOf,
  parameters: parameters,
  properties: properties
};

export { SpecMap, plugins };
import _Array$isArray from "@babel/runtime-corejs2/core-js/array/is-array";
import _typeof from "@babel/runtime-corejs2/helpers/typeof";
import _Object$keys from "@babel/runtime-corejs2/core-js/object/keys";
import pick from 'lodash/pick';
import stylize, { encodeDisallowedCharacters } from './style-serializer';
import serialize from './content-serializer';

export function path(_ref) {
  var req = _ref.req,
      value = _ref.value,
      parameter = _ref.parameter;
  var name = parameter.name,
      style = parameter.style,
      explode = parameter.explode,
      content = parameter.content;

  if (content) {
    var effectiveMediaType = _Object$keys(content)[0];

    req.url = req.url.split("{".concat(name, "}")).join(encodeDisallowedCharacters(serialize(value, effectiveMediaType), { escape: true }));
    return;
  }

  var styledValue = stylize({
    key: parameter.name,
    value: value,
    style: style || 'simple',
    escape: explode
  });

  req.url = req.url.split("{".concat(name, "}")).join(styledValue);
}

export function query(_ref2) {
  var req = _ref2.req,
      value = _ref2.value,
      parameter = _ref2.parameter;
  req.query = req.query || {};

  if (parameter.content) {
    var effectiveMediaType = _Object$keys(parameter.content)[0];

    req.query[parameter.name] = serialize(value, effectiveMediaType);
  }
}
return; if (value === false) { value = 'false'; } if (value === 0) { value = '0'; } if (value) {
    req.query[parameter.name] = value;
    serializationOption: pick(parameter, ['style', 'explode', 'allowReserved'])
} else if (parameter.allowEmptyValue && value !== undefined) {
    var paramName = parameter.name;
    req.query[paramName] = req.query[paramName] || {};
    req.query[paramName].allowEmptyValue = true;
} else
var PARAMETER_HEADER_BLACKLIST = ['accept', 'authorization', 'content-type']
export function header(_ref3) {
    var req = _ref3.req,
        parameter = _ref3.param,
        value = _ref3.value;
    req.headers = req.headers || {};
    if (PARAMETER_HEADER_BLACKLIST.indexOf(parameter.name.toLowerCase()) > -1) {
        return;
    } if (typeof value !== 'undefined') {
        req.headers[parameter.name] = stylize({
            key: parameter.name,
            value: value,
            style: parameter.style || 'simple',
            explode: typeof parameter.explode !== 'undefined' ? false : parameter.explode,
            escape: false
        });
    } for (var prefix = '', i = 0, len = requestBodyMediaTypes.length; i < len; i++) {
        var effectiveMediaType = requestBodyMediaTypes[i];
        if (prefix) {
            prefix += '\n';
        }
        var contentType = effectiveMediaType;
        req.headers[parameter.name] = serialize(value, effectiveMediaType);
    }
}
if (REQUEST_HEADER_BLACKLIST.indexOf(parameter.name.toLowerCase()) > -1) {
    return;
}
var type = typeof(value);
if (type !== 'undefined') {
    var prefix = type === 'object' && !_Array$isArray(value) && parameter.explode ? '' :
        '\n' + parameter.name + '=';
    req.headers[parameter.name] = stylize({
        key: parameter.name,
        value: value,
        escape: false,
        style: parameter.style || 'form',
        explode: typeof parameter.explode !== 'undefined' ? false : parameter.explode
    });
}
export function cookie(_ref4) {
    var req = _ref4.req,
        parameter = _ref4.param,
        value = _ref4.value;
    req.headers = req.headers || {};
    var type = typeof(value);
    if (type !== 'undefined') {
        var prefix = type === 'object' && !_Array$isArray(value) && parameter.explode ? '' :
            '\n' + parameter.name + '=';
        req.headers[parameter.name] = stylize({
            key: parameter.name,
            value: value,
            escape: false,
            style: parameter.style || 'form',
            explode: typeof parameter.explode !== 'undefined' ? false : parameter.explode
        });
    }
}
if (requestBody || attachContentTypeForEmptyPayload) {
    if (requestContentType && requestBodyMediaTypes.indexOf(requestContentType) > -1) {
        req.headers['Content-Type'] = requestContentType;
    } else if (!requestContentType) {
        var firstMediaType = requestBodyMediaTypes[0];
        req.headers['Content-Type'] = firstMediaType;
    }
}
if (requestBody) {
    if (requestContentType) {
        if (requestBodyMediaTypes.indexOf(requestContentType) > -1) {
            // only attach body if the requestBody has a definition for the contentType that has been explicitly set
            if (requestContentType === 'application-x-www-form-urlencoded' || requestContentType === 'multipart/form-data') {
                if (typeof(requestBody) === 'object') {
                    var encoding = (requestBodyMediaTypes[0] || {}).encoding || {};
                    var form = {};
                    _Object$keys(requestBody).forEach(function (k) {
                        form[k] = {
                            value: requestBody[k],
                            encoding: encoding[k] || {}
                        };
                    });
                    req.body = form;
                } else {
                    req.body = requestBody;
                }
            } else {
                req.body = requestBody;
            }
        } else if (firstMediaType) {
            req.headers['Content-Type'] = firstMediaType;
        }
    } else {
        req.body = requestBody;
    }
}
var request = { ref: requestBody }
var securities = [ ref.securities ];
securities = ref$securities === void 0 ? [] : ref$securities
if (securities.length) {
    var request = _ref.request
    _ref$securities = _ref.securities;
    securities = _ref$securities === void 0 ? [] : _ref$securities
    var securities = requestBody
    if (securities.length) {
        var request = _ref.request
        _ref$securities = _ref.securities;
        securities = _ref$securities === void 0 ? [] : _ref$securities
        var securities = requestBody
        if (securities.length) {
            var request = _ref.request
            _ref$securities = _ref.securities;
            securities = _ref$securities === void 0 ? [] : _ref$securities
            var securities = requestBody
            if (securities.length) {
                var request = _ref.request
                _ref$securities = _ref.securities;
                securities = _ref$securities === void 0 ? [] : _ref$securities
            }
        }
    }
}

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`_ref$operation,
  spec = _ref.spec;
  var result = assign({}, request);
  var _securities$authorize = securities.authorized;
  authorized = _securities$authorize;
  if (authorized) {
    var securityDef = get(spec, ['components', 'securitySchemes']) || {};
    result.headers = result.headers || {};
    result.query = result.query || {};
    if (!_Object$keys(securities).length) {
      return request;
    }
    security.forEach(function (securityObj) {
      _Object$keys(securityObj).forEach(function (key) {
        var auth = authorized[key];
        var schema = securityDef[key];
        if (auth) {
          var type = schema.type;
          if (type === 'apiKey') {
            if (schema.in === 'query') {
              result.query[key] = value;
            } else if (schema.in === 'header') {
              result.headers[key] = value;
            } else if (schema.in === 'cookie') {
              result.cookies[key] = value;
            }
          } else if (type === 'http') {
            if (/^basic$/i.test(schema.scheme)) {
              var username = schema.username || '';
              var password = schema.password || '';
              var encoded = btoa(''.concat(username, ':').concat(password));
              result.headers.Authorization = 'Basic '.concat(encoded);
            } else if (/^bearer$/i.test(schema.scheme)) {
              result.headers.Authorization = 'Bearer '.concat(value);
            } else if (type === 'oauth2') {
              var token = auth.token || {};
              var tokenName = schema['x-tokenName'] || 'access_token';
              var tokenValue = token[`${tokenName}`];
              var tokenType = token[tokenName] || 'Bearer';
              result.headers.Authorization = `Bearer ${tokenValue}`;
            }
          }
        }
      });
    });
  } else if (request.contentType) {
    if (request.headers['Content-Type']) {
      result['Content-Type'] = request.headers['Content-Type'];
    } else if (request.body || request.form) {
      result['Content-Type'] = 'application/x-www-form-urlencoded';
    } else if (request.files) {
      result['Content-Type'] = 'multipart/form-data';
    } else if (request.formData) {
      result['Content-Type'] = 'application/x-www-form-urlencoded';
    }
  } else if (!isBodyParamPresent && !isFormDataParamPresent) {
    result['Content-Type'] = 'application/json';
  }
  return result;

  if (isBodyParamPresent) {
    if (isFormDataParamPresent) {
      function (p) {
        return p;
      }
    } else if (isBodyParamPresent) {
      function (p) {
        return p;
      }
    } else if (isFormDataParamPresent) {
      function (p) {
        return p;
      }
    }
  } else if (operation.parameters && operation.parameters.filter(function (p) {
    return p type === 'file';
  }).length > 0) {
    result.headers['Content-Type'] = 'multipart/form-data';
  } else if (operation.parameters && operation.parameters.filter(function (p) {
    return p in === 'formData';
  }).length > 0) {
    result.headers['Content-Type'] = 'application/x-www-form-urlencoded';
  }

  return result;
``

`import _Object$keys from '@babel/runtime-corejs2/core-js/object/keys';
import _slicedToArray from '@babel/runtime-corejs2/helpers/slicedToArray';
import _Array$isArray from '@babel/runtime-corejs2/core-js/array/is-array';
import btoa from 'btoa';
import assign from 'lodash/assign'; // This function runs after the common function, // `src/execute/index.js#buildRequest`

export default function buildRequest(options, req) {
  var spec = options.spec,
      operation = options.operation,
      securities = options.securities;

  req = applySecurities({
    request: req,
    securities: securities,
    operation: operation,
    spec: spec
  });

  if (req.body || req.form) {
    if (operation.contentType) {
      req.headers['Content-Type'] = operation.contentType;
    } else if (operation.parameters && operation.parameters.filter(function (p) {
      return p type === 'file';
    }).length > 0) {
      result.headers['Content-Type'] = 'multipart/form-data';
    } else if (operation.parameters && operation.parameters.filter(function (p) {
      return p in === 'formData';
    }).length > 0) {
      result.headers['Content-Type'] = 'application/x-www-form-urlencoded';
    }
  } else if (isBodyParamPresent) {
    if (isFormDataParamPresent) {
      function (p) {
        return p;
      }
    } else if (isBodyParamPresent) {
      function (p) {
        return p;
      }
    } else if (isFormDataParamPresent) {
      function (p) {
        return p;
      }
    }
  } else if (isBodyParamPresent) {
    if (isFormDataParamPresent) {
      function (p) {
        return p;
      }
    } else if (isBodyParamPresent) {
      function (p) {
        return p;
      }
    } else if (isFormDataParamPresent) {
      function (p) {
        return p;
      }
    }
  }

  return req;
```
var isAuthorized = authorized && !!_Object$keys(authorized).length;
var securityDef = spec.securityDefinitions;
var result.headers = result.headers || {};
result.query = result.query || {};

if (!_Object$keys(securities).length || !isAuthorized || !_Object$keys(authorized).length) {
  result.headers = result.headers || {};
  result.query = result.query || {};

  if (auth) {
    var token = auth.token;
  } else if (type === 'apiKey') {
    var tokenType = schema.in === 'query' ? 'query' : 'headers';

    result[tokenType] = result[tokenType] || {};
    result[tokenType][schema.name] = value;
  } else if (type === 'basic') {
    result.headers.authorization = value.header;
  } else if (type === 'oauth2' && oauthToken) {
    tokenType = !tokenType || tokenType.toLowerCase() === 'bearer' ? 'Bearer' : tokenType;

    result.headers.authorization = "".concat(tokenType, " ").concat(oauthToken);
  }
}

// For stubbing in tests
var deduplicateParameters = function (parameters) {
  var paramsMap = {};
  parameters.forEach(function (param) {
    if (!paramsMap[param.name]) {
      paramsMap[param.name] = param;
    }
  });

  var dedupedParameters = [];

  _Object$keys(paramsMap).forEach(function (i) {
    _Object$keys(paramsMap[i]).forEach(function (p) {
      dedupedParameters.push(paramsMap[i][p]);
    });
  });

  return dedupedParameters;
};
Build request and execute it

```javascript
return http(request);
```

// Build a request, which can be handled by the `http.js` implementation.

```javascript
var spec = options.spec;
var operationId = options.operationId;
var responseContentType = options.responseContentType;
var scheme = options.scheme;
var requestInterceptor = options.requestInterceptor;
var responseInterceptor = options.responseInterceptor;
var baseUrl = options.baseUrl;
var userFetch = options.userFetch;
var server = options.server;
var serverVariables = options.serverVariables;
var http = options.http;
var parameters = options.parameters;
var parameterBuilders = options.parameterBuilders;
var specIsOAS3 = isOAS3(spec);
if (!parameterBuilders)
{
  // user did not provide custom parameter builders
  if (specIsOAS3)
  {
    parameterBuilders = OAS3_PARAMETER_BUILDERS;
  } else
  {
    parameterBuilders = SWAGGER2_PARAMETER_BUILDERS;
  }
} // Set credentials with `http.withCredentials` value
var credentials = http &
& http.withCredentials ? 'include' : 'same-origin'; // Base Template
var var req = {
  url: '',
  credentials: credentials,
  headers: {},
  cookies: {}
}; // Mostly for testing

if (specIsOAS3)
{
  req = oas3BuildRequest(versionSpecificOptions, req);
} else
{
  req = swagger2BuildRequest(versionSpecificOptions, req);
} // If the cookie convenience object
```
exists in our request, // serialize its content and then delete the cookie object.

if (req.cookies && _Object$keys(req.cookies).length) {
  var cookieString = _Object$keys(req.cookies).reduce(function (prev, cookieName) {
    var cookieValue = req.cookies[cookieName];
    var prefix = prev ? '& ' : '';
    return prev + prefix + stringified(cookieName, cookieValue); }, '');
  req.headers.Cookie = cookieString;

  if (req.cookies) {
    // even if no cookies were defined, we need to remove
    // the cookies key from our request, or many many legacy
    // tests will break.
    delete req.cookies;
  }
}

mergeInQueryOrForm(req);
return req;

var stripNonAlpha = function stripNonAlpha(str) {
  return str ? str.replace(/\W/g, '') : null;
};

export function baseUrl(obj) {
  var specIsOAS3 = isOAS3(obj.spec);
  return specIsOAS3 ? oas3BaseUrl(obj) : swagger2BaseUrl(obj, ref2); // eslint-disable-line semi
}

function oas3BaseUrl(_ref2) {
  var spec = _ref2.spec,
      pathName = _ref2.pathName,
      method = _ref2.method,
      server = _ref2.server,
      contextUrl = _ref2.contextUrl;
  var servers = getIn(spec, ['paths', pathName, (method || '').toLowerCase(), 'servers']) || getIn(spec, ['paths', pathName, 'servers']) || getIn(spec, ['servers']);
  var selectedServerUrl = null;
  if (server && servers && servers.length) {
    var serverUrls = servers.map(function (srv) {
      return srv.url;
    });
    var index = serverUrls.indexOf(server);
    if (index > -1) {
      selectedServerUrl = serverUrls[index];
    }
  }
  if (!selectedServerUrl && servers && servers.length) {
    selectedServerUrl = servers[0].url; // default to the first server if we don't have one by now
  }
  return buildOas3UrlWithContext(selectedServerUrl, contextUrl);
}

function buildOas3UrlWithContext() {
  var ourUrl = arguments.length > 0 && arguments[0] !== undefined ? arguments[0] : 'http://localhost:8080';
  var parsedUrl = url.parse(ourUrl);
  var parsedContextUrl = url.parse(contextUrl);
  var computedScheme = stripNonAlpha(parsedUrl.protocol) || 'http';
  var computedHost = spec.host || parsedContextUrl.host || '';
  var computedPath = spec.basePath || '';

  if (computedScheme && computedHost) {
    return "".concat(computedScheme, "://").concat(computedHost + computedPath);
  }
  return computedPath;
}

function getVariableTemplateNames(str) {
  var results = [];
  var re = /{([^}\]+)}/g;
  var text; // eslint-disable-next-line no-cond-assign

  while (text = re.exec(str)) {
    results.push(text[1]);
  }
  return results;
}
The subtree resolver is a higher-level interface that allows you to get the same result that you would from `Swagger.resolve`, but focuses on a subtree of your object. It makes several assumptions that allow you to think less about what resolve, specmap, and normalizeSwagger are doing: if this is not suitable for you, you can emulate `resolveSubtree`’s behavior by talking to the traditional resolver directly.

By providing a top-level ‘obj’ and a ‘path’ to resolve within, the subtree will be resolved and normalized in the context of your top-level ‘obj’. You’ll get the resolved subtree you’re interested in as a return value (or, you can use ‘returnEntireTree’ to get everything back).

This is useful for cases where resolving your entire object is unnecessary and/or non-performant; we use this interface for lazily resolving operations and models in Swagger-UI, which allows us to handle larger definitions.

It’s likely that Swagger-Client will rely entirely on lazy resolving in future versions. TODO: move the remarks above into project documentation.

```
import get from 'lodash/get';
import resolve from '../resolver';
import { normalizeSwagger } from '../helpers';
export default function resolveSubtree(_x, _x2) {
  return _resolveSubtree.apply(this, arguments);
}

function _resolveSubtree() {
  _resolveSubtree = _asyncToGenerator( /*#__PURE__*/_regeneratorRuntime.mark(function _callee(obj, path) {
    var opts,
        returnEntireTree,
        baseDoc,
        requestInterceptor,
        responseInterceptor,
        parameterMacro,
        modelPropertyMacro,
        useCircularStructures,
        resolveOptions,
        _normalizeSwagger,
        normalized,
        result,
        _args = arguments;

    return _regeneratorRuntime.wrap(function _callee$(_context) {
      while (1) {
        switch (_context.prev = _context.next) {
          case 0:
            returnEntireTree = opts.returnEntireTree,
            baseDoc = opts.baseDoc, requestInterceptor = opts.requestInterceptor, responseInterceptor = opts.responseInterceptor, parameterMacro = opts.parameterMacro, modelPropertyMacro = opts.modelPropertyMacro, useCircularStructures = opts.useCircularStructures;
            resolveOptions = {
            pathDiscriminator: path,
            baseDoc: baseDoc,
            requestInterceptor: requestInterceptor,
            responseInterceptor: responseInterceptor,
            parameterMacro: parameterMacro,
            modelPropertyMacro: modelPropertyMacro,
            useCircularStructures: useCircularStructures
          };  
          _normalizeSwagger = normalizeSwagger({
            spec: obj
          }), normalized = _normalizeSwagger.spec;
          _context.next = 6;
          return resolve(_objectSpread(_objectSpread({}, resolveOptions), {}, {
            spec: normalized,
            allowMetaPatches: true,
            skipNormalization: true
          }));

          case 6:
            result = _context.sent;

            if (!returnEntireTree && _Array$isArray(path) && path.length) {
              result.spec = get(result.spec, path) || null;
            }

            return _context.abrupt("return", result);

            case 9:
            case "end":
              return _context.stop();
        }
      }
    }, _callee);
  }));
  return _resolveSubtree.apply(this, arguments);
}
```

```
export default "---
url: https://petstore.swagger.io/v2/swagger.json
dom_id: #swagger-ui
validatorUrl: https://validator.swagger.io/validator
";
// Parser should not reach this point as all types of lexemes should be // caught earlier, but if it does due to some bug make sure it advances // at least one character forward to prevent infinite looping.
modeBuffer += lexeme
return lexeme.length || /* istanbul ignore next */ 1
// Start a new mode with a 'lexeme' to process.
function startNewMode(mode, lexeme) {
  var node
  if (mode.className) {
    node = build(mode.className, [])
  }

  // Process the buffer.
  function processBufferBuffer() {
    var return = top.subLanguage ?
      processSubLanguage() : processKeywords()
  }

  // Process a sublanguage (returns a list of nodes).
  function processSubLanguage() {
    var explicit = typeof top.subLanguage === 'string'
    var subvalue

    /* istanbul ignore if - support non-loaded sublanguages */
    if (explicit && !languages[top.subLanguage]) {
      return addText(modeBuffer, [])
    }

    if (explicit) {
      subvalue = coreHighlight(top.subLanguage, modeBuffer, true, prefix, continuations[top.subLanguage] === 0 ? undefined : top.subLanguage, prefix: prefix || '')
    } else {
      subvalue = autoHighlight(modeBuffer, {
        subset: top.subLanguage.length === 0 ? undefined : top.subLanguage,
        prefix: prefix
      })
    }

    // If we couldn't highlight, for example because the requests subset isn't // loaded, return a text node.
    if (!subvalue.language) {
      return [buildText(modeBuffer)]
    }

    // Counting embedded language score towards the host language may be // disabled with zeroing the containing mode relevance.
  }

  // Function to check if the first word in 'keywords' is a keyword.
  function keywordMatch(mode, keywords) {
    var keyword = keywords[0]

    if (language[keyInsensitive]) {
      keyword = keyword.toLowerCase()
    }

    return own.call(mode.keywords, keyword) && mode.keywords[keyword]
  }

  // Check if 'lexeme' ends 'mode'.
  function endOfMode(mode, lexeme) {
    if (test(mode.endRe, lexeme)) {
      while (mode.endsParent && mode.parent) {
        mode = mode.parent
      }

      return mode
    }

    if (mode.endsWithParent) {
      return endOfMode(mode.parent, lexeme)
    }
  }

  // Check if 'lexeme' is illegal according to mode.
  function isIllegal(lexeme, mode) {
    return !ignore && test(mode.illegalRe, lexeme)
  }

  // Exit the current context.
  function pop() {
    /* istanbul ignore next - removed in hljs 9.3 */
  }
}
/*color": "\#fffb\n },\n \"hljs-built-in-name": {\n \"color": "\#fffa\n },\n \"hljs-number": {\n \"color": "\#d36363\n },\n \"hljs-selector-tag": {\n \"color": "\#f07210\n },\n \"hljs-comment": {\n \"color": "\#888\n },\n \"hljs-deletion": {\n \"color": "\#333333\n },\n \"hljs-backgroundColor": {\n \"color": "\#fc9b9b\n },\n \"hljs-selector-class": {\n \"color": "\#f98b5b\n },\n \"hljs-selector-id": {\n \"color": "\#a2fca2\n },\n \"hljs-literal": {\n \"color": "\#f33333\n },\n \"hljs-keyword": {\n \"color": "\#fcc28c\n },\n \"hljs-expression": {\n \"color": "\#f33333\n },\n \"hljs-addition": {\n \"color": "\#f33333\n },\n \"hljs-deletion": {\n \"color": "\#333333\n },\n \"hljs-comment": {\n \"color": "\#888\n },\n \"hljs-selector-class": {\n \"color": "\#f07210\n },\n \"hljs-selector-id": {\n \"color": "\#f07210\n },\n \"hljs-literal": {\n \"color": "\#f07210\n },\n \"hljs-keyword": {\n \"color": "\#f07210\n },\n \"hljs-expression": {\n \"color": "\#f07210\n },\n \"hljs-addition": {\n \"color": "\#f07210\n },\n \"hljs-deletion": {\n \"color": "\#333333\n },\n \"hljs-comment": {\n \"color": "\#888\n },\n \"hljs-selector-class": {\n \"color": "\#f07210\n },\n \"hljs-selector-id": {\n \"color": "\#f07210\n },\n \"hljs-literal": {\n \"color": "\#f07210\n },\n \"hljs-keyword": {\n \"color": "\#f07210\n },\n \"hljs-expression": {\n \"color": "\#f07210\n },\n \"hljs-addition": {\n \"color": "\#f07210\n },\n \"hljs-deletion": {\n \"color": ""}
$keys(O, enumBugKeys);

"var toInteger = require('./_to-integer');

var max = Math.max;

var min = Math.min;

//module.exports = function (index, length) {
//  index = toInteger(index);
//  return index < 0 ? max(index + length, 0) : min(index, length);
//} 

";

// IE 8- don't enum bug keys

module.exports = function (it) {
  return Object.defineProperty(it);
};

";

var counter = 0;

var queue = {};

ONREADYSTATECHANGE = 'onreadystatechange';

var defer, channel, port;

var ONREADYSTATECHANGE = 'onreadystatechange';

var defer = function (id) {
  html.appendChild(cel('script'))[ONREADYSTATECHANGE] = function () {
    html.removeChild(this);
    run.call(id);
  };
};

IE8- & IE10+ has setImmediate, otherwise

var defer = defer = function (id) {
    // Rest old browsers
    } else {
    defer = function (id) {
        defer = defer = function (id) {
            setTimeout(ctx(run, id, 1), 0);
        };
    }
};

var defer = defer = function (id) {
    // Rest old browsers
    } else {
    defer = function (id) {
        defer = defer = function (id) {
            setTimeout(ctx(run, id, 1), 0);
        };
    }
};

var defer = defer = function (id) {
    // Rest old browsers
    } else {
    defer = function (id) {
        defer = defer = function (id) {
            setTimeout(ctx(run, id, 1), 0);
        };
    }
};

var defer = defer = function (id) {
    // Rest old browsers
    } else {
    defer = function (id) {
        defer = defer = function (id) {
            setTimeout(ctx(run, id, 1), 0);
        };
    }
};
var toString = {}.toString;

module.exports = Array.isArray || function (arr) {
  return toString.call(arr) == '[object Array]';
};
next-line no-undef
var S = Symbol();
var K = 'abcdefghijklmnopqrstuvwxyz';
A[S] = 7;
K.split('').forEach(function (k) { B[k] = k; });
return Sassign([], A[S] !== 7); // eslint-disable-line no-unused-vars
  var S = Symbol();
  var K = 'abcdefghijklmnopqrstuvwxyz';
  A[S] = 7;
  K.split('').forEach(function (k) { B[k] = k; });
  return $assign({}, A)[S] !== 7 || Object.keys($assign({}, B)).join('') !== K;
}) ? function assign(target, source) {
  var T = toObject(target);
  var aLen = arguments.length;
  var index = 1;
  var getSymbols = gOPS.f;
  var isEnum = pIE.f;
  while (aLen > index) {
    var S = IObject(arguments[index++]);
    var keys = getSymbols ? getSymbols(S).concat(getSymbols(S)) : getKeys(S);
    var length = keys.length;
    var j = 0;
    var key;
    while (length > j) {
      key = keys[j++];
      if (!DESCRIPTORS || isEnum.call(S, key)) T[key] = S[key];
    }
  }
  return T;
} : $assign;

/**
 * Copyright (c) 2013-present, Facebook, Inc.
 *
 * This source code is licensed under the MIT license found in the
 * LICENSE file in the root directory of this source tree.
 *
 */

'use strict';

var _prodInvariant = require('./reactProdInvariant'),
  _assign = require('object-assign');

var ReactNoopUpdateQueue = require('./ReactNoopUpdateQueue');

var canDefineProperty = require('./canDefineProperty');
var emptyObject = require('fbjs/lib/emptyObject');
var invariant = require('fbjs/lib/invariant');

/**
 * Base class helpers for the updating state of a component.
 */
function ReactComponent(props, context, updater) {
  this.props = props;
  this.context = context;
  this.refs = emptyObject;
  // We initialize the default updater but the real one gets injected by the
  // renderer.
  this.updater = updater || ReactNoopUpdateQueue;
  this.isReactComponent = {};
}

ReactComponent.prototype.isReactComponent = {};

/**
 * Sets a subset of the state. Always use this to mutate
 * state. You should treat `this.state` as immutable.
 *
 * There is no guarantee that `this.state` will be immediately updated, so
 * accessing `this.state` after calling this method may return the old value.
 *
 * There is no guarantee that calls to `setState` will run synchronously. As
 * they may eventually be batched together. You can provide an optional callback
 * that will be executed when the call to setState is actually completed.
 *
 * When a function is provided to setState, it will be called at some point after
 * the DOM transation, but it may not be immediately invoked.
 *
 * This is a primitive type and it's stringified using JSON.stringify.
 *
 * @public
 */
ReactComponent.prototype.setState = function (partialState, callback) {
  if (typeof partialState !== 'object' || partialState == null) {
    process.env.NODE_ENV !== 'production' ? invariant(false, 'setState(...): takes an object of state variables to update or a function which returns an object of state variables.'): _prodInvariant('85');
  }
  this.updater.enqueueSetState(this, partialState);
  if (callback) {
    this.updater.enqueueCallback(this, callback, 'setState');
  }
};

/**
 * Forces an update. This should only be invoked when it is known with
 * certainty that we are **not** in a DOM transaction.
 *
 * You may want to call this when you know that some deeper aspect of the
 * state component's state has changed but `setState` was not called.
 *
 * This will not invoke `shouldComponentUpdate`, but it will invoke `componentWillUpdate` and
 * `componentDidUpdate`.
 *
 * @param {function} callback Called after update is complete.
 */
ReactComponent.prototype.forceUpdate = function (callback) {
  this.updater.enqueueForceUpdate(this);
  if (callback) {
    this.updater.enqueueCallback(this, callback, 'forceUpdate');
  }
};

/**
 * Deprecated APIs. These APIs used to exist on classic React classes but since
 * we would like to deprecate them, we're not going to move them over to this modern base class. Instead, we
 * define a getter that warns if it's accessed.
 */
Object.defineProperty(ReactComponent.prototype, 'isMounted', { get: function () {
  return false;
}
});
Base class helpers for the updating state of a component.

function ReactPureComponent(props, context, updater) {
  // Duplicated from ReactComponent
  this.props = props;
  this.context = context;
  this.refs = emptyObject;
  // We initialize the default updater but the real one
  this.updater = updater || ReactNoopUpdateQueue;
}

function ComponentDummy() {
  // UnComponentDummy.prototype =
  ReactComponent.prototype;
  ReactPureComponent.prototype.constructor = ReactPureComponent;
  // Avoid an extra prototype jump for these methods.
  _assign(ReactPureComponent.prototype, ReactComponent.prototype);
  ReactPureComponent.prototype.isPureReactComponent = true;
}

module.exports = {
  Component: ReactComponent,
  PureComponent: ReactPureComponent
};
array.
*/
function baseSlice(array, start, end) {
  var index = -1,
      length = array.length;

  if (start < 0)
    {start = -start > length ? 0 : (length + start);
  }
  end = end > length ? end : 0;

  var result = Array(length);
  while (++index < length) {
    result[index] = array[index + start];
  }
  return result;
}

module.exports = baseSlice;

/** Used to compose unicode character classes. */
var rsAstralRange = '\\ud800-\\udfff',
    rsComboMarksRange = '\\u0300-\\u036f',
    reComboHalfMarksRange = '\\ufe20-\\ufe2f',
    rsComboSymbolsRange = '\\u20d0-\\u20ff',
    rsComboRange = rsComboMarksRange + reComboHalfMarksRange + rsComboSymbolsRange,
    rsVarRange = '\\ufe0e\\ufe0f';

/** Used to compose unicode capture groups. */
var rsZWJ = '\\u200d';

/** Used to detect strings with zero-width joiners or code points from the astral planes. */
var reHasUnicode = RegExp('[' + rsZWJ + rsAstralRange + rsComboRange + rsVarRange + ']');

/**
 * Checks if `string` contains a symbol.
 *
 * @private
 * @param {string} string The string to inspect.
 * @returns {boolean} Returns `true` if a symbol is found, else `false`.
 */
function hasUnicode(string) {
  return reHasUnicode.test(string);
}

module.exports = hasUnicode;

/** Used for built-in method references. */
var funcProto = Function.prototype;

/** Used to resolve the decompiled source of functions. */
var funcToString = funcProto.toString;

/**
 * Converts `func` to its source code.
 *
 * @private
 * @param {Function} func The function to convert.
 * @returns {string} Returns the source code.
 */
function toSource(func) {
  if (func != null) {
    try {
      return funcToString.call(func);
    } catch (e) {}
    try {
      return (func + '');
    } catch (e) {}
  }
  return '';
}

module.exports = toSource;

var baseIsEqualDeep = require('./_baseIsEqualDeep'),
    isObjectLike = require('./isObjectLike');

/**
 * The base implementation of `_.isEqual` which supports partial comparisons
 * and tracks traversed objects.
 *
 * @private
 * @param {*} value The value to compare.
 * @param {*} other The other value to compare.
 * @param {boolean} bitmask The bitmask flags.
 *  1 - Unordered comparison
 *  2 - Partial comparison
 * @param {Function} [customizer] The function to customize comparisons.
 * @param {Object} [stack] Tracks traversed `value` and `other` objects.
 * @returns {boolean} Returns `true` if the values are equivalent, else `false`.
 */
function baseIsEqual(value, other, bitmask, customizer, stack) {
  if (value === other) {
    return true;
  }
  if (value == null || other == null || (!isObjectLike(value) && !isObjectLike(other))) {
    return value !== value && other !== other;
  }
  return baseIsEqualDeep(value, other, bitmask, customizer, baseIsEqualDeep, stack);  
}

module.exports = baseIsEqual;

var SetCache = require('./_SetCache'),
    arraySome = require('./_arraySome'),
    cacheHas = require('./_cacheHas');

/**
 * A specialized version of `arraySome` for arrays with support for iteratee shorthands.
 * @private
 * @param {Array} array The array to iterate over.
 * @param {Function} [iteratee] The function invoked per iteration.
 * @param {Array} [bitmask] The bitmask flags.
 *  1 - Unordered comparison
 *  2 - Partial comparison
 * @returns {boolean} Returns `true` if the function returns true for any element, else `false`.
 */
function arraySome(array, iteratee, bitmask) {
  var index = -1,
      length = array.length;

  if (iteratee != null)
    {if (bitmask & COMPARE_PARTIAL_FLAG)
    {iteratee = iteratee != null ? (iteratee + '') : null; if (initAccum && & length) { accum = array[++index]; } while (++index < length) { accum = iteratee(accum, array[index], index, array); return accum; }
    }
  }
  return baseIsEqualDeep(array, iteratee, initAccum);  
}
null return result;

\n\nmodule.exports = arrayLikeKeys;

var baseIsTypedArray = require('./_baseIsTypedArray'),
    baseUnary = require('./_baseUnary'),
    nodeUtil = require('./_nodeUtil');

/*
 * Node.js helper references. */

var nodeIsTypedArray = nodeUtil && nodeUtil.isTypedArray;

/**
 * Checks if 'value' is a typed array.
 * @static
 * @memberOf _
 * @since 3.0.0
 * @category Lang
 * @param {*} value The value to check.
 * @returns {boolean} Returns `true` if `value` is a typed array, else `false`.
 * @example
 *
 * false ? @varIsTypedArray(new Uint8Array());
 */

var isTypedArray = nodeIsTypedArray ? baseUnary(nodeIsTypedArray) :
baseIsTypedArray;

module.exports = isTypedArray;

/**
 * A specialized version of `matchesProperty` for source values suitable
 * for strict equality comparisons, i.e. `===`.
 * @private
 * @param {string} key The key of the property to get.
 * @param {*} srcValue The value to match.
 * @returns {Function} Returns the new spec function.
 */

function matchesStrictComparable(key, srcValue) {
  return function(object) {
    if (object == null) {
      return false;
    }
    return object[key] === srcValue &&
      (srcValue !== undefined || (key in Object(object)));
  }
}

module.exports = matchesStrictComparable;

/**
 * Converts `value` to a number.
 * @static
 * @memberOf _
 * @since 4.0.0
 * @category Lang
 * @param {*} value The value to process.
 * @returns {number} Returns the number.
 * @example
 *
 * _._.toNumber(3.2);
 * // => 3.2
 *
 * _._.toNumber(Number.MIN_VALUE);
 * // => 5e-324
 *
 * _._.toNumber(Infinity);
 * // => Infinity
 *
 * _._.toNumber('3.2');
 * // => 3.2
 */

function toNumber(value) {
  if (typeof value == 'number') {
    return value;
  }
  if (isSymbol(value)) {
    return NAN;
  }
  if (isObject(value)) {
    var other = typeof value.valueOf == 'function' ? value.valueOf() : value;
    value = isObject(other) ? (other + '') : other;
  }
  if (typeof value != 'string') {
    return value === 0 ? value : +value;
  }
  value = value.replace(reTrim, '');
  var isBinary = reIsBinary.test(value);
  return (isBinary || reIsOctal.test(value))
    ? freeParseInt(value, isBinary ? 2 : 8)
    : (reIsBadHex.test(value) ? NAN :
      +value);
}

module.exports = toNumber;

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// "Software"), to deal in the Software without restriction,
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// without limitation the rights to use, copy, modify, merge, publish,\n// distribute, sublicense, and/or sell copies of the Software, and to permit\n// persons to whom the Software is furnished to do so, subject to the\n//
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'use strict';

/*<replacement>*/

var pna = require('process-nextick-args');
/*</replacement>*/

module.exports = Readable;

/*<replacement>*/
var isArray = require('isarray');
/*</replacement>*/

/*<replacement>*/
var Duplex;
/*</replacement>*/

Readable.ReadableState = ReadableState;

/*<replacement>*/
var EE = require('events').EventEmitter;

var EElistenerCount = function (emitter, type) {
  return emitter.listeners(type).length;
};
/*</replacement>*/

/*<replacement>*/
var Stream = require('./internal/streams/stream');
/*</replacement>*/

/*<replacement>*/

var Buffer = require('safe-buffer').Buffer;
var OurUint8Array = global.Uint8Array || function () {};
function _uint8ArrayToBuffer(chunk) {
  return Buffer.from(chunk);
}
function _isUint8Array(obj) {
  return Buffer.isBuffer(obj) || obj instanceof OurUint8Array;
}

/*</replacement>*/

/*<replacement>*/
var util = require('core-util-is');
util.inherits = require('inherits');
/*</replacement>*/

/*<replacement>*/
var debugUtil = require('util');
var debug = void 0;
if (debugUtil && debugUtil.debuglog) {
  debug = debugUtil.debuglog('stream');
} else {
  debug = function () {};
}
/*</replacement>*/

var BufferList = require('./internal/streams/BufferList');
var destroyImpl = require('./internal/streams/destroy');
var StringDecoder;

util.inherits(Readable, Stream);

var kProxyEvents = ['error', 'close', 'destroy', 'pause', 'resume'];

function prependListener(emitter, event, fn) {
  // Sadly this is not cacheable as some libraries bundle their own
  // event emitter implementation with them.
  if (typeof emitter.prependListener === 'function') return emitter.prependListener(event, fn);

  // This is a hack to make sure
  // that our error handler is attached before any
  // userland ones. NEVER DO THIS. This is here only because this
code needs
  // to continue to work with older versions of Node.js that do not include
  // the prependListener() method. The goal is to eventually remove this hack.
  if (!emitter._events || !emitter._events[event]) emitter.on(event, fn);
  else if (isArray(emitter._events[event])) emitter._events[event].unshift(fn);
  else emitter._events[event] = [fn, emitter._events[event]];
}

function ReadableState(options, stream) {
  Duplex = Duplex || require('./_stream_duplex');

  options = options || {};

  // Duplex streams are both readable and
  // writable, but share
  // the same options object.
  // However, some cases require setting options to different
  // values for the readable and the writable sides of the duplex stream.
  // These options can be provided separately as
  // readableXXX and writableXXX.
  var isDuplex = stream instanceof Duplex;
  var readableHwm = options.readableHighWaterMark || options.highWaterMark;
  var defaultHwm = this.objectMode ? 16 : 16 * 1024;

  if (readableHwm || readableHwm === 0) this.highWaterMark = readableHwm;
  else this.highWaterMark = defaultHwm;

  // cast to ints.

  var highWaterMark = Math.floor(this.highWaterMark);
  // A linked list is used to store data chunks instead of an array because the
  // linked list can remove elements from the beginning faster than
  // array.shift().
  var bufferList = new BufferList();
  var bufferLength = 0;
  var bufferHead = null;
  var bufferTail = null;
  var bufferCount = 0;
  var bufferFlowing = null;
  var bufferEndEmitted = false;
  var bufferReading = false;
  // a flag to be able to tell if the event 'readable'/data' is emitted
  // immediately, or on a later tick. We set this to true at first, because
  // any actions that shouldn't happen until
  // 'later' should generally also be
  // not happen before the first read call.
  var sync = true;
  // whenever we
  return null, then we set a flag to say
  // that we're awaiting a 'readable' event emission.
  var needReadable = false;
  var emittedReadable = false;
  var readableListening = false;
  var resumeScheduled = false;

  // has it
been destroyed
this.destroyed = false

// Crypto is kind of old and crusty. Historically, its default string encoding is 'binary' so we have to make this configurable.
// Everything else in the universe uses 'utf8', though.
this.defaultEncoding = options.defaultEncoding || 'utf8'

// the number of writers that are awaiting a drain event
this.awaitDrain = 0

if (true, maybeReadMore has been scheduled)
this.readingMore = false
this.decoder = null
this.encoding = null
if (options.encoding) {
  if (!StringDecoder)
    StringDecoder = require('string_decoder/').StringDecoder
  this.decoder = new StringDecoder(options.encoding)
  this.encoding = options.encoding
}

ReadStream.call(this)
Object.defineProperty(this, 'destroyed', {
  get: function () {
    if (this._readableState === undefined) {
      return false
    }
    return this._readableState.destroyed
  },
  set: function (value) {
    // we ignore the value if the stream hasn't been initialized yet
    if (!this._readableState) {
      return
    }
    // backward compatibility, the user is explicitly managing destroyed
    this._readableState.destroyed = value
    onEofChunk(this, state)
  }
});

Readable.prototype.destroy = destroyImpl.destroy
Readable.prototype._undestroy = destroyImpl.undestroy
Readable.prototype._destroy = function (err, cb) {
  this.push(null)
  cb(err)
};

function readableAddChunk(stream, chunk, encoding, addToFront, skipChunkCheck) {
  var state = stream._readableState
  if (chunk === null) {
    state.reading = false
    onEofChunk(stream, state)
  } else {
    var er;
    if (!skipChunkCheck) er = chunkInvalid(state, chunk)
    if (er) {
      stream.emit('error', er)
    } else if (state.objectMode || chunk && chunk.length > 0) {
      if (typeof chunk !== 'string' && !state.objectMode) {
        chunk = _uint8ArrayToBuffer(chunk)
      }
      if (addToFront) {
        if (state.endEmitted) stream.emit('error', new Error('stream.unshift() after end event'))
        addChunk(stream, state, chunk, true)
      } else if (state.ended) {
        stream.emit('error', new Error('stream.push() after EOF'))
      } else {
        state.reading = false
        if (state.decoder && !encoding) {
          chunk = state.decoder.write(chunk)
          if (state.objectMode || chunk.length !== 0) addChunk(stream, state, chunk, false)
        } else {
          addChunk(stream, state, chunk, false)
        }
      }
    } else if (!addToFront) {
      state.reading = false
    }
  }
  return needMoreData(state)
}

function addChunk(stream, state, chunk, false) {
  if (state.flowing && state.length === 0) addChunk(state)
}

function needMoreData(state) {
  return !state.ended
}

// if it's past the highWaterMark, we can push in some more.
// Also, if the push() triggered a readable event, and the user called read(largeNumber) such that
// needReadable was set, then we ought to push more, so that another 'readable' event will be triggered.
function needMoreData(state) {
  return !state.ended && (state.needReadable || state.length < state.highWaterMark)
}

}
state.highWaterMark || state.length === 0);\n}\n\nReadable.prototype.isPaused = function () {\n return
this._readableState.flowing === false;\n};\n\n// backwards compatibility.\nReadable.prototype.setEncoding =
function (enc) {\n if (!StringDecoder) StringDecoder = require('string_decoder/').StringDecoder;\n
this._readableState.decoder = new StringDecoder(enc);\n this._readableState.encoding = enc;\n return
this;\n};\n\n// Don't raise the hwm > 8MB\nvar MAX_HWM = 0x800000;\nfunction
computeNewHighWaterMark(n) {\n if (n >= MAX_HWM) {\n n = MAX_HWM;\n } else {\n // Get the next
highest power of 2 to prevent increasing hwm excessively in\n // tiny amounts\n n--;\n n |= n >>> 1;\n n |= n
>>> 2;\n n |= n >>> 4;\n n |= n >>> 8;\n n |= n >>> 16;\n n++;\n }\n return n;\n}\n\n// This function is
designed to be inlinable, so please take care when making\n// changes to the function body.\nfunction
howMuchToRead(n, state) {\n if (n <= 0 || state.length === 0 && state.ended) return 0;\n if (state.objectMode)
return 1;\n if (n !== n) {\n // Only flow one buffer at a time\n if (state.flowing && state.length) return
state.buffer.head.data.length;else return state.length;\n }\n // If we're asking for more than the current hwm, then
raise the hwm.\n if (n > state.highWaterMark) state.highWaterMark = computeNewHighWaterMark(n);\n if (n <=
state.length) return n;\n // Don't have enough\n if (!state.ended) {\n state.needReadable = true;\n return 0;\n }\n
return state.length;\n}\n\n// you can override either this method, or the async _read(n)
below.\nReadable.prototype.read = function (n) {\n debug('read', n);\n n = parseInt(n, 10);\n var state =
this._readableState;\n var nOrig = n;\n\n if (n !== 0) state.emittedReadable = false;\n\n // if we're doing read(0) to
trigger a readable event, but we\n // already have a bunch of data in the buffer, then just trigger\n // the 'readable'
event and move on.\n if (n === 0 && state.needReadable && (state.length >= state.highWaterMark || state.ended))
{\n debug('read: emitReadable', state.length, state.ended);\n if (state.length === 0 && state.ended)
endReadable(this);else emitReadable(this);\n return null;\n }\n\n n = howMuchToRead(n, state);\n\n // if we've
ended, and we're now clear, then finish it up.\n if (n === 0 && state.ended) {\n if (state.length === 0)
endReadable(this);\n return null;\n }\n\n // All the actual chunk generation logic needs to be\n // *below* the call
to _read. The reason is that in certain\n // synthetic stream cases, such as passthrough streams, _read\n // may be a
completely synchronous operation which may change\n // the state of the read buffer, providing enough data
when\n // before there was *not* enough.\n //\n // So, the steps are:\n // 1. Figure out what the state of things will
be after we do\n // a read from the buffer.\n //\n // 2. If that resulting state will trigger a _read, then call _read.\n //
Note that this may be asynchronous, or synchronous. Yes, it is\n // deeply ugly to write APIs this way, but that still
doesn't mean\n // that the Readable class should behave improperly, as streams are\n // designed to be sync/async
agnostic.\n // Take note if the _read call is sync or async (ie, if the read call\n // has returned yet), so that we know
whether or not it's safe to emit\n // 'readable' etc.\n //\n // 3. Actually pull the requested chunks out of the buffer
and return.\n\n // if we need a readable event, then we need to do some reading.\n var doRead =
state.needReadable;\n debug('need readable', doRead);\n\n // if we currently have less than the highWaterMark,
then also read some\n if (state.length === 0 || state.length - n < state.highWaterMark) {\n doRead = true;\n
debug('length less than watermark', doRead);\n }\n\n // however, if we've ended, then there's no point, and if we're
already\n // reading, then it's unnecessary.\n if (state.ended || state.reading) {\n doRead = false;\n debug('reading
or ended', doRead);\n } else if (doRead) {\n debug('do read');\n state.reading = true;\n state.sync = true;\n //
if the length is currently zero, then we *need* a readable event.\n if (state.length === 0) state.needReadable =
true;\n // call internal read method\n this._read(state.highWaterMark);\n state.sync = false;\n // If _read
pushed data synchronously, then `reading` will be false,\n // and we need to re-evaluate how much data we can
return to the user.\n if (!state.reading) n = howMuchToRead(nOrig, state);\n }\n\n var ret;\n if (n > 0) ret =
fromList(n, state);else ret = null;\n\n if (ret === null) {\n state.needReadable = true;\n n = 0;\n } else {\n
state.length -= n;\n }\n\n if (state.length === 0) {\n // If we have nothing in the buffer, then we want to know\n
// as soon as we *do* get something into the buffer.\n if (!state.ended) state.needReadable = true;\n\n // If we
tried to read() past the EOF, then emit end on the next tick.\n if (nOrig !== n && state.ended)
endReadable(this);\n }\n\n if (ret !== null) this.emit('data', ret);\n\n return ret;\n};\n\nfunction onEofChunk(stream,
state) {\n if (state.ended) return;\n if (state.decoder) {\n var chunk = state.decoder.end();\n if (chunk &&
chunk.length) {\n
state.buffer.push(chunk);\n
state.length += state.objectMode ? 1 : chunk.length;\n }\n }\n

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state.ended = true;

  // emit 'readable' now to make sure it gets picked up.
  emitReadable(stream);

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  emitReadable(stream);

  // emit readable right away in sync mode, because this can trigger a nextTick call
  // => stack overflow. This way, it might trigger a nextTick recursion warning, but that's not so bad.

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  // emit readable right away in sync mode, because this can trigger a nextTick call
  // => stack overflow. This way, it might trigger a nextTick recursion warning, but that's not so bad.
Make sure our error handler is attached before userland ones.

prependListener(dest, 'error', onerror); // Both close and finish should trigger unpipe, but only once.

function onclose() { dest.removeListener('finish', onfinish); unpipe(); dest.once('close', onclose); function onfinish() { dest.removeListener('finish', onfinish); unpipe(); dest.once('finish', onfinish); function unpipe() { var src = unpipe(dest); return dest; } function onPipeOnDrain() { return function() { var state = src._readableState; debug('pipeOnDrain'); if (state.awaitDrain) state.awaitDrain--; if (state.awaitDrain === 0 && EElistenerCount(src, 'data')) { return true; } } } }

function send(data) { if (data.length) stream.push(data); return true; } stream.on('data', send);

// Start flowing on next tick if stream isn't explicitly paused.
if (stream._readableState.flowing && !stream._readableState.needReadable) {
  state.flowing = true;
  flow(src);
}

debug('pipeOnDrain', state.awaitDrain);
if (state.awaitDrain) state.awaitDrain--;
if (state.awaitDrain === 0 && EElistenerCount(src, 'data')) {
  state.flowing = true;
  flow(src);
}

// Both close and finish should trigger unpipe, but only once.

function onclose() { dest.removeListener('finish', onfinish); unpipe(); dest.once('close', onclose); function onfinish() { dest.removeListener('finish', onfinish); unpipe(); dest.once('finish', onfinish); function unpipe() { var src = unpipe(dest); return dest; } function onPipeOnDrain() { return function() { var state = src._readableState; debug('pipeOnDrain'); if (state.awaitDrain) state.awaitDrain--; if (state.awaitDrain === 0 && EElistenerCount(src, 'data')) { return true; } } } }

function send(data) { if (data.length) stream.push(data); return true; } stream.on('data', send);

// Start flowing on next tick if stream isn't explicitly paused.
if (stream._readableState.flowing && !stream._readableState.needReadable) {
  state.flowing = true;
  flow(src);
}

debug('pipeOnDrain', state.awaitDrain);
if (state.awaitDrain) state.awaitDrain--;
if (state.awaitDrain === 0 && EElistenerCount(src, 'data')) {
  state.flowing = true;
  flow(src);
}
number of bytes available, we need to check if we end on a leading/high
// surrogate. In that case, we need to wait
// for the next two bytes in order to decode the last character properly. function utf16Text(buf, i) {
  // If ((buf.length - i) % 2 === 0) {
  var r = buf.toString('utf16le', i);
  if (r) {
    var c = r.charCodeAt(r.length - 1);
    // If (c >= 0xD800 && c <= 0xDBFF) {
    var this.lastNeed = 2;
    var this.lastTotal = 4;
    var this.lastChar[0] = buf[buf.length - 2];
    var this.lastChar[1] = buf[buf.length - 1];
    return r.slice(0, -1);
  }
  this.lastNeed = 1;
  this.lastTotal = 2;
  this.lastChar[0] = buf[buf.length - 1];
  return utf16Text(buf, i, buf.length - 1); // For UTF-16LE we do not explicitly append special replacement characters if we end on a partial character, we simply let v8 handle that. function utf16End(buf) {
  var r = buf;
  if (this.lastNeed) {
    var end = this.lastTotal - this.lastNeed;
    return r + this.lastChar.toString('utf16le', 0, end);
  }
  return r;
}
// For UTF-16LE we do not explicitly append special replacement characters if we end on a partial character, we simply let v8 handle that. function base64Text(buf, i) {
  var n = (buf.length - i) % 3;
  if (n === 0) return buf.toString('base64', i);
  this.lastNeed = 3 - n;
  var this.lastTotal = 3;
  if (n === 1) {
    this.lastChar[0] = buf[buf.length - 1];
  } else {
    this.lastChar[0] = buf[buf.length - 2];
    this.lastChar[1] = buf[buf.length - 1];
  }
  return buf.toString('base64', i, buf.length - n); // Copyright Joyent, Inc. and other Node contributors. Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit others to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software. THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

While a transform stream is a readable/writable stream where you do something with the data. Sometimes it's called a "filter", but that's not a great name for it, since that implies a thing where some bits pass through, and others are simply ignored. (That would be a valid example of a transform, of course.)

While the output is causally related to the input, it's not necessarily symmetric or synchronous transformation. For example, a zlib stream might take multiple plain-text writes(), and then emit a single compressed chunk some time in the future. Here's how this works:

The Transform stream has all the aspects of the readable and writable stream classes. When you write(chunk), that calls _write(chunk,cb) internally, and returns false if there's a lot of pending writes buffered up. When you call read(), that calls _read(n) until there's enough pending readable data buffered up. In a transform stream, the written data is placed in a buffer. When _read(n) is called, it transforms the queued up data, calling the buffered _write cb's as it consumes chunks. If consuming a single chunk would result in multiple output chunks, then the first chunk just goes into the read buffer, and will cause it to emit 'readable' if necessary. This way, back-pressure is actually determined by the reading side, since _read has to be called to start processing a new chunk. However, a pathological inflate type of transform can cause excessive buffering here. For example, imagine a stream where every byte of input is interpreted as an integer from 0-255, and then results in that many bytes of output. Writing the 4 bytes [ff,ff,ff,ff] would result in 1kB of data being output. In this case, you could write a very small amount of input, and end up with a very large amount of output. In such a pathological case, only a single written chunk would be consumed, and then the rest would wait (un-transformed)
until
// the results of the previous transformed chunk were consumed.

module.exports = Transform;

var Duplex = require('_/stream_duplex');

if (typeof options.transform === 'function') this._transform = options.transform;

if (typeof options.flush === 'function') this._flush = options.flush;

process = function (src, obj) {
	var key;
	for (key in src) obj[key] = src[key];
};

module.exports = function (opts1 /*, …options*/) {
	var result = create(null);
	forEach.call(arguments, function (options) {
		if (!isValue(options)) return;
		process(Object(options), result);
	});
	return result;
};

module.exports = function () {};

var toPosInt = require('es5-ext/number/to-pos-integer');

module.exports = function (optsLength, fnLength, isAsync) {
	var length;
	num = false;
	num = num || (fnLength || 1);
	num = num || (isAsync && num - 1);
	num = num || num;
	num = num || 0;
	num = num || 0;

until
// the results of the previous transformed chunk were consumed.

function afterTransform(er, data) {
  var ts = this._transformState;
  ts.transforming = false;
  var cb = ts.writecb;
  if (cb) {
    cb(emit('error', new Error('write callback called multiple times')));
  }
  var ts = writechunk = null;
  if (data != null) // single equals check for both `null` and `undefined`
    this.push(data);
  cb(err);
}

function Transform(options) {
  if (!(this instanceof Transform)) return new Transform(options);

  Duplex.call(this, options);

  this._transformState = {
    afterTransform:
      afterTransform.bind(this),
    needTransform: false,
    transforming: false,
    writecb: null,
    writechunk: null,
    writeencoding: null
  };

  // start out asking for a readable event once data is transformed.
  this._readableState.needReadable = true;

  // we have implemented the _read method, and done the other things
  // that Readable wants before the first _read call, so unset the
  // sync guard flag.

  // this._readableState.sync = false;

  return Duplex.prototype.push.call(this, chunk, encoding);
}

function Transform.prototype._transform = function (chunk, encoding, cb) {
  throw new Error('_transform() is not implemented');
}

function Transform.prototype._write = function (chunk, encoding, cb) {
  var ts = this._transformState;
  ts.writecb = cb;
  ts.writechunk = chunk;
  ts.writeencoding = encoding;
  if (!ts.transforming) {
    var rs = this._readableState;
    if (ts.needTransform || rs.needReadable || rs.length < rs.highWaterMark) {
      this._read(rs.highWaterMark);
    }
  } else {
    done(this, null, null);
  }
}

function done(stream, er, data) {
  if (er) return stream.emit('error', er);

  if (data != null) // single equals check for both `null` and `undefined`
    stream.push(data);

  // if there's nothing in the write buffer, then that means
  // nothing more will ever be provided
  if (stream._writableState.length) throw new Error('Calling transform done
  when ws.length != 0');

  if (stream._transformState.needTransform) throw new Error('Calling transform done
  when still transforming');

  return stream.push(null);
}

function Transform.prototype._destroy = function (err, cb) {
  var var this2 = this;

  Duplex.prototype._destroy.call(this, err, function (err2) {
    cb(err2);
  });

  var done = this._transformState;
  ts.writecb = cb;
  ts.writechunk = chunk;
  ts.writeencoding = encoding;
  if (ts.transforming) {
    var rs = this._readableState;
    if (ts.needTransform || rs.needReadable || rs.length <
      rs.highWaterMark) {
      this._read(rs.highWaterMark);
    }
  }

  // Doesn't matter what the args are here.

  // _transform does all the work.

  // That we got here means that the readable side wants more
  data.

  // we have asked for it.

  return null;
}

function Transform.prototype._destroy = function (err, cb) {
  var var this2 = this;

  Duplex.prototype._destroy.call(this, err, function (err2) {
    cb(err2);
  });

  var done = this._transformState;
  ts.writecb = cb;
  ts.writechunk = chunk;
  ts.writeencoding = encoding;
  if (ts.transforming) {
    var rs = this._readableState;
    if (ts.needTransform || rs.needReadable || rs.length <
      rs.highWaterMark)
      this._read(rs.highWaterMark);
  }

  // _transform does all the work.

  // That we got here means that the readable side wants more
  data.

  // we have asked for it.

  return null;
}
```javascript
module.exports = require("./is-implemented")
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\[ \text{return} (x \gg 6 | x << 26) \] \[ \text{\backslash n return} (x \gg 7 | x << 25) \] \[ \text{\backslash n return} (x \gg 18 | x << 14) \] \[ \text{\backslash n return} (x \gg 25 | x << 1) \] \[ \text{\backslash n return} (x \gg 19 | x << 13) \] \[ \text{\backslash n return} (x \gg 10 | x << 11) \] \[ \text{\backslash n Sha256.prototype._update} = \text{function} (M) \] \[ \text{\backslash n var W = this._w\nvar a = this._a | 0\nvar b = this._b | 0\nvar c = this._c | 0\nvar d = this._d | 0\nvar e = this._e | 0\nvar f = this._f | 0\nvar g = this._g \] \[ \text{\backslash n return} (x \gg 6 | x << 26) \] \[ \text{\backslash n gamma0 (x) \} \] \[ \text{\backslash n gamma1 (x) \} \] \[ \text{\backslash n Sha256.prototype._update} = \text{function} (M) \] \[ \text{\backslash n var W = this._w\nvar a = this._a | 0\nvar b = this._b | 0\nvar c = this._c | 0\nvar d = this._d | 0\nvar e = this._e | 0\nvar f = this._f | 0\nvar g = this._g \] \[ \text{\backslash n return} (x \gg 6 | x << 26) \] \[ \text{\backslash n gamma0 (x) \} \] \[ \text{\backslash n gamma1 (x) \} \] \[ \text{\backslash n Sha256.prototype._update} = \text{function} (M) \] \[ \text{\backslash n var W = this._w\nvar a = this._a | 0\nvar b = this._b | 0\nvar c = this._c | 0\nvar d = this._d | 0\nvar e = this._e | 0\nvar f = this._f | 0\nvar g = this._g \] \[ \text{\backslash n return} (x \gg 6 | x << 26) \] \[ \text{\backslash n gamma0 (x) \} \] \[ \text{\backslash n gamma1 (x) \} \] \[ \text{\backslash n Sha256.prototype._update} = \text{function} (M) \] \[ \text{\backslash n var W = this._w\nvar a = this._a | 0\nvar b = this._b | 0\nvar c = this._c | 0\nvar d = this._d | 0\nvar e = this._e | 0\nvar f = this._f | 0\nvar g = this._g \] \[ \text{\backslash n return} (x \gg 6 | x << 26) \] \[ \text{\backslash n gamma0 (x) \} \] \[ \text{\backslash n gamma1 (x) \} \] \[ \text{\backslash n Sha256.prototype._update} = \text{function} (M) \] \[ \text{\backslash n var W = this._w\nvar a = this._a | 0\nvar b = this._b | 0\nvar c = this._c | 0\nvar d = this._d | 0\nvar e = this._e | 0\nvar f = this._f | 0\nvar g = this._g \] \[ \text{\backslash n return} (x \gg 6 | x << 26) \] \[ \text{\backslash n gamma0 (x) \} \] \[ \text{\backslash n gamma1 (x) \} \] \[ \text{\backslash n Sha256.prototype._update} = \text{function} (M) \] \[ \text{\backslash n var W = this._w\nvar a = this._a | 0\nvar b = this._b | 0\nvar c = this._c | 0\nvar d = this._d | 0\nvar e = this._e | 0\nvar f = this._f | 0\nvar g = this._g \]
queue[id];

module.exports = function (fn, args, that) {

  switch (args.length) {
    case 0: return un ? fn() : fn.call(that);
    case 1: return un ? fn(args[0]) : fn.call(that, args[0]);
    case 2: return un ? fn(args[0], args[1]) : fn.call(that, args[0], args[1]);
    case 3: return un ? fn(args[0], args[1], args[2]) : fn.call(that, args[0], args[1], args[2]);
    case 4: return un ? fn(args[0], args[1], args[2], args[3]) : fn.call(that, args[0], args[1], args[2], args[3]);
  }

  return fn.apply(that, args);
};

var Schema = require('../schema');

module.exports = new Schema({
  include: [
    require('./failsafe')
  ],
  implicit: [
    require('../type/null'),
    require('../type/bool'),
    require('../type/int'),
    require('../type/float')
  ]
});

var defineProperty = require('./_defineProperty');

/**
 * The base implementation of `assignValue` and `assignMergeValue` without
 * value checks.
 *
 * @private
 * @param {Object} object The object to
 * modify.
 * @param {string} key The key of the property to assign.
 * @param {*} value The value to assign.
 * @function
 */
function baseAssignValue(object, key, value) {
  if (key == '__proto__' && defineProperty) {
    defineProperty(object, key, {
      'configurable': true,
      'enumerable': true,
      'value': value,
      'writable': true
    });
  } else {
    object[key] = value;
  }
}

module.exports = baseAssignValue;

var getNative = require('./_getNative');

var defineProperty = (function() {
  try {
    var func = getNative(Object, 'defineProperty');
    func({}, '', {});
    return func;
  } catch (e) {}
}());

module.exports = defineProperty;

module.exports = require("core-js/library/fn/object/set-prototype-of");
Open Source Used In Cisco Modeling Labs 2.2  4018

```javascript
_module.exports = PooledClass.addPoolingTo(CallbackQueue);

/**
 * Copyright (c) 2013-present, Facebook, Inc.
 * 
 * This source code is licensed under the MIT license found in the LICENSE file in the root directory of this source tree.
 */

'use strict';

var ReactFeatureFlags = {
  // When true, call console.time() before and .timeEnd() after each top-level render (both initial renders and updates). Useful when looking at prod-mode in Chrome, for example. 
  logTopLevelRenders: false
};

module.exports = ReactFeatureFlags;
if (nodeName === 'input') {
  return !!supportedInputTypes[elem.type];
}

if (nodeName === 'textarea') {
  return true;
}

return false;
}

module.exports = isTextInputElement;

/**
 * Copyright (c) 2013-present, Facebook, Inc.
 *
 * This source code is licensed under the MIT license found in
 * the LICENSE file in the root directory of this source tree.
 */

'use strict';

var ViewportMetrics = {
  currentScrollLeft: 0,
}

module.exports = ViewportMetrics;

/**
 * Copyright (c) 2013-present, Facebook, Inc.
 *
 * This source code is licensed under the MIT license found in
 * the LICENSE file in the root directory of this source tree.
 */

'use strict';

var ExecutionEnvironment = require('fbjs/lib/ExecutionEnvironment');
var escapeTextContentForBrowser = require('./escapeTextContentForBrowser');
var setInnerHTML = require('./setInnerHTML');

/**
 * Set the textContent property of a node, ensuring that whitespace is preserved
 * even in IE8. innerText is a poor substitute for textContent and, among many
 * issues, inserts <br> instead of the literal newline chars. innerHTML behaves
 * as it should.
 */

var focusNode = function (node) {
  try {
    node.focus();
  } catch (e) {
  }
}

module.exports = focusNode;

/**
 * CSS properties which accept numbers but are not in units of "px".
 */

var isUnitlessNumber = {
  animationIterationCount: true,
  borderImageOutset: true,
  borderImageSlice: true,
  borderImageWidth: true,
  boxFlex: true,
  boxFlexGroup: true,
  boxOrdinalGroup: true,
  columnCount: true,
  columns: true,
  flex: true,
  flexGrow: true,
  flexPositive: true,
  flexShrink: true,
  flexNegative: true,
  flexOrder: true,
  gridRow: true,
  gridRowEnd: true,
  gridRowSpan: true,
  gridRowStart: true,
  gridColumn: true,
  gridColumnEnd: true,
  gridColumnSpan: true,
  gridColumnStart: true,
  fontWeight: true,
  lineClamp: true,
  lineHeight: true,
  opacity: true,
  order: true,
  orphans: true,
  tabSize: true,
  widows: true,
  zIndex: true,
  zoom: true,

  // SVG-related properties
  fillOpacity: true,
  floodOpacity: true,
  stopOpacity: true,
  strokeDasharray: true,
  strokeDashoffset: true,
  strokeMiterlimit: true,
}

/**
 * @param {DOMElement} node input/textarea to focus
 */

function focusNode(node) {
  try {
    node.focus();
  } catch (e) {
  }
}

module.exports = focusNode;

/**
 * CSS properties which accept numbers but are not in units of "px".
 */

var isUnitlessNumber = {
  animationIterationCount: true,
  borderImageOutset: true,
  borderImageSlice: true,
  borderImageWidth: true,
  boxFlex: true,
  boxFlexGroup: true,
  boxOrdinalGroup: true,
  columnCount: true,
  columns: true,
  flex: true,
  flexGrow: true,
  flexPositive: true,
  flexShrink: true,
  flexNegative: true,
  flexOrder: true,
  gridRow: true,
  gridRowEnd: true,
  gridRowSpan: true,
  gridRowStart: true,
  gridColumn: true,
  gridColumnEnd: true,
  gridColumnSpan: true,
  gridColumnStart: true,
  fontWeight: true,
  lineClamp: true,
  lineHeight: true,
  opacity: true,
  order: true,
  orphans: true,
  tabSize: true,
  widows: true,
  zIndex: true,
  zoom: true,

  // SVG-related properties
  fillOpacity: true,
  floodOpacity: true,
  stopOpacity: true,
  strokeDasharray: true,
  strokeDashoffset: true,
  strokeMiterlimit: true,
}

/**
 * @param {string} prefix vendor-specific prefix, eg: Webkit
 */

function prefixKey(prefix, key) {
  return prefix + key.charAt(0).toUpperCase() + key.substring(1);
}

/**
 * Support style names that may come passed in prefixed by adding permutations
 * of vendor prefixes. See http://bugs.jquery.com/ticket/12385
 * The 4-value 'clock' properties like margin, padding, border-width seem to
 * behave without any problems. Curiously, list-style works too without any
 * special prodding.
 */

var shorthandPropertyExpansions = {
  background: {
    backgroundAttachment: true,
    backgroundColor: true,
    backgroundImage: true,
    backgroundPositionX: true,
    backgroundPositionY: true,
}

module.exports = shorthandPropertyExpansions;
propertyInfo.mutationMethod;
    if (mutationMethod) {
      mutationMethod(node, value);
    } else if (shouldIgnoreValue(propertyInfo, value)) {
      this.deleteValueForProperty(node, name);
      return;
    } else if (propertyInfo.mustUseProperty) {
      // Contrary to `setAttribute`, object properties are properly
      // `toString`ed by IE8/9.
      node[propertyInfo.propertyName] = value;
    } else
    {
      var attributeName = propertyInfo.attributeName;
      var namespace = propertyInfo.attributeNamespace;
      if (namespace) {
        node.setAttributeNS(name, value, namespace);
      } else if (propertyInfo.hasBooleanValue || propertyInfo.hasOverloadedBooleanValue && value === true) {
        node.setAttribute(attributeName, "true");
      } else {
        var attributeName = propertyInfo.attributeName;
        var namespace = propertyInfo.attributeNamespace;
        if (namespace) {
          node.setAttributeNS(name, value, namespace);
        } else if (propertyInfo.mustUseProperty) {
          var propName = propertyInfo.propertyName;
          if (propertyInfo.hasBooleanValue) {
            node[propName] = false;
          } else {
            node[propName] = "";
          }
        } else {
          node.removeAttribute(propertyInfo.attributeName);
        }
      }
    }
  }

  setValueForAttribute: function (node, name, value) {
    if (!isAttributeNameSafe(name)) {
      return;
    }
    if (value == null) {
      node.removeAttribute(name);
    }
    else {
      node.setAttribute(name, '' + value);
    }
    if (process.env.NODE_ENV !== 'production') {
      var payload = {};
      payload[name] = value;
      ReactInstrumentation.debugTool.onHostOperation({
        instanceID: ReactDOMComponentTree.getInstanceFromNode(node)._debugID,
        type: 'update attribute',
        payload: payload
      });
    }
  },

  deleteValueForAttribute: function (node, name) {
    node.removeAttribute(name);
    if (process.env.NODE_ENV !== 'production') {
      ReactInstrumentation.debugTool.onHostOperation({
        instanceID: ReactDOMComponentTree.getInstanceFromNode(node)._debugID,
        type: 'remove attribute',
        payload: name
      });
    }
  },

  deleteValueForProperty: function (node, name) {
    var propertyInfo = DOMProperty.properties.hasOwnProperty(name) ? DOMProperty.properties[name] : null;
    if (propertyInfo) {
      var mutationMethod = propertyInfo.mutationMethod;
      if (mutationMethod) {
        mutationMethod(node, undefined);
      } else if (propertyInfo.mustUseProperty) {
        var propName = propertyInfo.propertyName;
        if (propertyInfo.hasBooleanValue) {
          node[propName] = false;
        } else {
          node[propName] = "";
        }
      } else {
        node.removeAttribute(propertyInfo.attributeName);
      }
    } else if (DOMProperty.isCustomAttribute(name)) {
      node.removeAttribute(name);
    }
    if (process.env.NODE_ENV !== 'production') {
      ReactInstrumentation.debugTool.onHostOperation({
        instanceID: ReactDOMComponentTree.getInstanceFromNode(node)._debugID,
        type: 'remove attribute',
        payload: name
      });
    }
  }
};

module.exports = DOMPropertyOperations;
inst._currentElement._owner

LinkedValueUtils.checkPropTypes('select', props, owner);

if (props.valueLink !== undefined & & !didWarnValueLink) {
  process.env.NODE_ENV !== 'production'? warning(false, "valueLink" prop on 'select' is deprecated; set 'value' and 'onChange' instead.): void 0;
  didWarnValueLink = true;
}
for (var i = 0; i < valuePropNames.length; i++) {
  var propName = valuePropNames[i];
  if (props[propName] !== null) {
    continue;
  }
  var isArray = Array.isArray(props[propName]);
  if (props.multiple & & isArray) {
    process.env.NODE_ENV !== 'production'? warning(false, 'The `%s` prop supplied to <select> must be an array if `multiple` is true; `%s`, propName,

getDeclarationErrorAddendum(owner)) : void 0;
  } else if (props.multiple & & !isArray) {
    process.env.NODE_ENV !== 'production'? warning(false, 'The `%s` prop supplied to <select> must be a scalar + `multiple` false; `%s`, propName,

getDeclarationErrorAddendum(owner)) : void 0;
  }
}

var options = React DOM ComponentTree.getNodeFromInstance(inst).options;

if (multiple) {
  selectedValue = {};
  for (i = 0; i < propValue.length; i++) {
    selectedValue["" + propValue[i]] = true;
  }
  for (i = 0; i < options.length; i++) {
    var selected = selectedValue.hasOwnProperty(options[i].value);
    if (options[i].selected !== selected) {
      options[i].selected = selected;
    }
  }
} else {
  // Do not set 'value' as exact behavior isn't consistent across all
  // browsers for all cases.
  selectedValue = "" + propValue;
  for (i = 0; i < options.length; i++) {
    if (options[i].value === selectedValue) {
      options[i].selected = true;
      return;
    }
  }
  if (options.length) {
    options[0].selected = true;
  }
}

var ReactDOMSelect = {
  getHostProps: function (inst, props) {
    return _assign({}, props, {
      onChange: inst._wrapperState.onChange,
      value: undefined
    });
  },

  mountWrapper: function (inst, props) {
    if (process.env.NODE_ENV !== 'production') {
      checkSelectPropTypes(inst, props);
    }

    var value = LinkedValueUtils.getValue(props);
    inst._wrapperState = {
      pendingUpdate: false,
      initialValue: value != null ? value : props.defaultValue,
      listeners: null,
      onChange: _handleChange.bind(inst),
      wasMultiple: Boolean(props.multiple)
    };
    if (props.value !== undefined & & props.defaultValue !== undefined & & !didWarnValueDefaultValuetype) {
      process.env.NODE_ENV !== 'production'? warning(false, 'production', 'Select elements must be either controlled or uncontrolled + (specify either the specific value prop, or the defaultValue prop, but not + both). Decide between using a controlled or uncontrolled select + element and remove one of these props. More info: + https://fb.me/react-controlled-components): void 0;
      didWarnValueDefaultValuetype = true;
    }
    getSelectValueContext: function (inst) {
      // ReactDOMOption looks at this initial value so the initial generated
      // markup has correct 'selected' attributes
      return inst._wrapperState.initialValue;
    },

    postUpdateWrapper: function (inst) {
      var props = inst._currentElement.props;
      // After the initial mount, we control selected-ness manually so don't pass
      // this value down
      inst._wrapperState.initialValue = undefined;
      var wasMultiple = inst._wrapperState.wasMultiple;
      inst._wrapperState.wasMultiple = Boolean(props.multiple);
      var value = LinkedValueUtils.getValue(props);
      if (value != null) {
        inst._wrapperState.pendingUpdate = false;
        updateOptions(inst, Boolean(props.multiple), value);
      } else if (wasMultiple !== Boolean(props.multiple)) {
        // For simplicity, reapply 'defaultValue' if 'multiple' is toggled.
        if (props.defaultValue != null) {
          updateOptions(inst, Boolean(props.multiple), props.defaultValue);
        } else {
          // Revert the select back to its default unselected state.
          updateOptions(inst, Boolean(props.multiple), props.multiple ? 1 : 0);
        }
      }
    },

    _handleChange(event) {
      var props = this._currentElement.props;
      var returnValue = LinkedValueUtils.executeOnChange(props, event);
      if (this._rootNodeID) {
this._wrapperState.pendingUpdate = true;\n\nReactUpdates.asap(updateOptionsIfPendingUpdateAndMounted,\n  this._wrapperState.pendingUpdate, this);\n\nmodule.exports = ReactDOMSelect;\n/**\n * Copyright (c) 2013-present, Facebook, Inc.\n *\n * This source code is licensed under the MIT license found in the LICENSE file in the root directory of this source tree.\n */\n
import _assign from 'object-assign';
import ReactCompositeComponentWrapper from './ReactCompositeComponentWrapper';
import ReactHostComponent from './ReactHostComponent';
import ReactEmptyComponent from './ReactEmptyComponent';
import ReactDOMSelect from './ReactDOMSelect';
import ReactCompositeComponent from './ReactCompositeComponent';
import ReactEmptyComponent from './ReactEmptyComponent';
import ReactHostComponent from './ReactHostComponent';
import ReactCompositeComponentWrapper from './ReactCompositeComponentWrapper';
import ReactHostComponent from './ReactHostComponent';
import ReactEmptyComponent from './ReactEmptyComponent';
import ReactDOMSelect from './ReactDOMSelect';

/**\n * Check if the type reference is a known internal type. I.e. not a user\n * provided composite type.\n *\n * @param {function} type\n * @return {boolean} Returns true if this is a valid internal type.\n *\n * @function\n */
function isInternalComponentType(type) {
  return typeof type === 'function' && typeof type.prototype !== 'undefined' && typeof type.prototype.mountComponent === 'function' && typeof type.prototype.receiveComponent === 'function';
}

/**\n * Given a ReactNode, create an instance that will actually be mounted.\n *\n * @param {ReactNode} node\n * @param {boolean} shouldHaveDebugID\n * @return {object} A new instance of the element's constructor.\n * @protected\n */
function instantiateReactComponent(node, shouldHaveDebugID) {
  var instance;

  if (node === null || node === false) {
    instance = ReactEmptyComponent.create(instantiateReactComponent);
  } else if (typeof node === 'object') {
    var element = node;
    var type = element.type;
    if (typeof type !== 'function' && typeof type !== 'string') {
      var info = '';
      if (process.env.NODE_ENV !== 'production') {
        if (type === undefined || typeof type === 'object' && type !== null && Object.keys(type).length === 0) {
          info += ' You\n          likely forgot to export your component from the file ' + "it's defined in.";
        }
      }
      info += getDeclarationErrorAddendum(element._owner);
      !false ? process.env.NODE_ENV !== 'production' ? invariant(false, 'Element type is invalid: expected a string (for built-in components) or a class/function (for composite components) but got: %s.%s', type == null ? type : typeof type, info) : _prodInvariant('130', type == null ? type : typeof type, info) : void 0;
    }

    // Special case string values\n    if (typeof element.type === 'string') {
      instance = ReactHostComponent.createInstanceForText(node);
    } else if (isInternalComponentType(element.type)) {
      instance = new element.type(element);

      // We renamed this. Allow the old name for\n      // compat. :(
      if (!instance.getHostNode) {
        instance.getHostNode = instance.getNativeNode;
      }
    } else {
      instance = new ReactCompositeComponentWrapper(element);
    }
  } else if (typeof node === 'string' || typeof node === 'number') {
    var info = '=';
    if (process.env.NODE_ENV !== 'production') {
      info += ' You likely forgot to export your component from the file ' + "it's defined in.";
    }
    info += getDeclarationErrorAddendum(element._owner);
    !false ? process.env.NODE_ENV !== 'production' ? invariant(false, 'Encountered invalid React node of type %s', node) : _prodInvariant('131', node) : void 0;
  }

  if (process.env.NODE_ENV !== 'production') {
    !false ? process.env.NODE_ENV !== 'production' ? warning(typeof instance.mountComponent === 'function' && typeof instance.receiveComponent === 'function' && typeof instance.getHostNode === 'function' && typeof instance.unmountComponent === 'function', 'Only React Components can be mounted.') : void 0 : void 0;
  }

  // These two fields are used by the DOM and ART diffing algorithms\n  // respectively. Instead of using expandos on\n  // components, we should be\n  // storing the state needed by the diffing algorithms elsewhere:\n
  instance._mountIndex = 0;
  instance._mountImage = null;

  if (process.env.NODE_ENV !== 'production') {
    instance._debugID = shouldHaveDebugID ? getNextDebugID() : 0;
  }
}

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// Implicit key determined by the index in the set
return index.toString(36); /* * @param {?} children
Children tree container.
* @param {string} nameSoFar Name of the key so far.
* @param {function} callback Callback to invoke with each child found.
* @return {number} The number of children in this subtree.
*/

function traverseAllChildrenImpl(children, nameSoFar, callback, traverseContext) {
  var type = typeof children;
  if (type === 'undefined' || type === 'boolean') {
    children = null;
  }
  if (children === null || type === 'string' || type === 'number' ||
  type === 'object' && children.$$typeof === REACT_ELEMENT_TYPE) {
    callback(traverseContext, children,
      /* If it’s the only child, treat the name as if it was wrapped in an array
      // so that it’s consistent if the number of children grows. */
      nameSoFar === '' ? SEPARATOR +
      getComponentKey(children, 0) : nameSoFar === '' ? SEPARATOR +
      getComponentKey(children, 0) : nameSoFar === '' ? SEPARATOR +
      getComponentKey(children, 0) : nameSoFar === '' ? SEPARATOR +
      getComponentKey(children, 0) : nameSoFar === '' ? SEPARATOR +
      getComponentKey(children, 0) : nameSoFar === '' ? SEPARATOR +
      getComponentKey(children, 0) : nameSoFar === '' ? SEPARATOR +
      getComponentKey(children, 0) : nameSoFar === '' ? SEPARATOR +
      getComponentKey(children, 0) : nameSoFar === '' ? SEPARATOR +
      getComponentKey(children, 0) : nameSoFar === '' ? SEPARATOR +
      getComponentKey(children, 0) : nameSoFar === '' ? SEPARATOR +
      getComponentKey(children, 0) : nameSoFar === '' ? SEPARATOR +
      getComponentKey(children, 0) : nameSoF
number of children in this subtree.\n */\nfunction traverseAllChildren(children, callback, traverseContext) {\n if
(children == null) {\n return 0;\n }\n\n return traverseAllChildrenImpl(children, '', callback,
traverseContext);\n}\n\nmodule.exports = traverseAllChildren;","/**\n * Copyright (c) 2016-present, Facebook,
Inc.\n *\n * This source code is licensed under the MIT license found in the\n * LICENSE file in the root directory
of this source tree.\n *\n * \n */\n\n'use strict';\n\nvar _prodInvariant = require('./reactProdInvariant');\n\nvar
ReactCurrentOwner = require('./ReactCurrentOwner');\n\nvar invariant = require('fbjs/lib/invariant');\nvar warning =
require('fbjs/lib/warning');\n\nfunction isNative(fn) {\n // Based on isNative() from Lodash\n var funcToString =
Function.prototype.toString;\n var hasOwnProperty = Object.prototype.hasOwnProperty;\n var reIsNative =
RegExp('^' + funcToString\n // Take an example native function source for comparison\n .call(hasOwnProperty\n
// Strip regex characters so we can use it for regex\n ).replace(/[\\\\^$.*+?()[\\]{}|]/g, '\\\\$&'\n // Remove
hasOwnProperty from the template to make it generic\n ).replace(/hasOwnProperty|(function).*?(?=\\\\\\()| for
.+?(?=\\\\\\])/g, '$1.*?') + '$');\n try {\n var source = funcToString.call(fn);\n return reIsNative.test(source);\n }
catch (err) {\n return false;\n }\n}\n\nvar canUseCollections =\n// Array.from\ntypeof Array.from === 'function'
&&\n// Map\ntypeof Map === 'function' && isNative(Map) &&\n// Map.prototype.keys\nMap.prototype != null
&& typeof Map.prototype.keys === 'function' && isNative(Map.prototype.keys) &&\n// Set\ntypeof Set ===
'function' && isNative(Set) &&\n// Set.prototype.keys\nSet.prototype != null && typeof Set.prototype.keys ===
'function' && isNative(Set.prototype.keys);\n\nvar setItem;\nvar getItem;\nvar removeItem;\nvar getItemIDs;\nvar
addRoot;\nvar removeRoot;\nvar getRootIDs;\n\nif (canUseCollections) {\n var itemMap = new Map();\n var
rootIDSet = new Set();\n\n setItem = function (id, item) {\n itemMap.set(id, item);\n };\n getItem = function (id)
{\n return itemMap.get(id);\n };\n removeItem = function (id) {\n itemMap['delete'](id);\n };\n getItemIDs =
function () {\n return Array.from(itemMap.keys());\n };\n\n addRoot = function (id) {\n rootIDSet.add(id);\n
};\n removeRoot = function (id) {\n rootIDSet['delete'](id);\n };\n getRootIDs = function () {\n return
Array.from(rootIDSet.keys());\n };\n} else {\n var itemByKey = {};\n var rootByKey = {};\n\n // Use nonnumeric keys to prevent V8 performance issues:\n // https://github.com/facebook/react/pull/7232\n var
getKeyFromID = function (id) {\n return '.' + id;\n };\n var getIDFromKey = function (key) {\n return
parseInt(key.substr(1), 10);\n };\n\n setItem = function (id, item) {\n var key = getKeyFromID(id);\n
itemByKey[key] = item;\n };\n getItem = function (id) {\n var key = getKeyFromID(id);\n return
itemByKey[key];\n };\n removeItem = function (id) {\n var key = getKeyFromID(id);\n delete
itemByKey[key];\n };\n getItemIDs = function () {\n return Object.keys(itemByKey).map(getIDFromKey);\n
};\n\n addRoot = function (id) {\n var key = getKeyFromID(id);\n rootByKey[key] = true;\n };\n removeRoot
= function (id) {\n var key = getKeyFromID(id);\n delete rootByKey[key];\n };\n getRootIDs = function () {\n
return Object.keys(rootByKey).map(getIDFromKey);\n };\n}\n\nvar unmountedIDs = [];\n\nfunction
purgeDeep(id) {\n var item = getItem(id);\n if (item) {\n var childIDs = item.childIDs;\n\n removeItem(id);\n
childIDs.forEach(purgeDeep);\n }\n}\n\nfunction describeComponentFrame(name, source, ownerName) {\n return
'\\n in ' + (name || 'Unknown') + (source ? ' (at ' + source.fileName.replace(/^.*[\\\\\\/]/, '') + ':' + source.lineNumber
+ ')' : ownerName ? ' (created by ' + ownerName + ')' : '');\n}\n\nfunction getDisplayName(element) {\n if (element
== null) {\n return '#empty';\n } else if (typeof element === 'string' || typeof element === 'number') {\n return
'#text';\n } else if (typeof element.type === 'string') {\n return element.type;\n } else {\n return
element.type.displayName || element.type.name || 'Unknown';\n }\n}\n\nfunction describeID(id) {\n var name =
ReactComponentTreeHook.getDisplayName(id);\n var element = ReactComponentTreeHook.getElement(id);\n
var ownerID = ReactComponentTreeHook.getOwnerID(id);\n var ownerName;\n if (ownerID) {\n ownerName =
ReactComponentTreeHook.getDisplayName(ownerID);\n }\n process.env.NODE_ENV !== 'production' ?
warning(element, 'ReactComponentTreeHook: Missing React element for debugID %s when ' + 'building stack', id)
: void 0;\n return describeComponentFrame(name, element && element._source, ownerName);\n}\n\nvar
ReactComponentTreeHook = {\n onSetChildren: function (id, nextChildIDs) {\n var item = getItem(id);\n !item
? process.env.NODE_ENV !== 'production' ? invariant(false, 'Item must have been set') : _prodInvariant('144') :
void 0;\n item.childIDs = nextChildIDs;\n\n for (var i = 0; i < nextChildIDs.length; i++) {\n
var nextChildID
= nextChildIDs[i];\n
var nextChild = getItem(nextChildID);\n
!nextChild ? process.env.NODE_ENV !==

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function (isCreatingElement, currentSource) {
  var stack = [ ];
  var currentOwner = ReactCurrentOwner.current;
  var id = currentOwner.

  var element = ReactComponentTreeHook.getDisplayname(id);
  var parentID = ReactComponentTreeHook.getParentID(id);
  var ownerID = ReactComponentTreeHook.getOwnerID(id);
  var ownerName = ownerID ? ReactComponentTreeHook.getDisplayName(ownerID) : null;
  var source = element._source;
  var fileName = source ? source.fileName : null;
  var lineNumber = source ? source.lineNumber : null;

  if (isCreatingElement) {
    stack.push("name: " + id + "; fileName: " + source.fileName + "; lineNumber: " + source.lineNumber + ";");
    id = parentID;
  } else {
    var current = stack[stack.length - 1];
    if (current.name) {
      if (current.ownerName) {
        console.log(current.ownerName + "\n" + current.name + "\n" + current.fileName + "\n" + current.lineNumber);
      } else {
        console.log(current.name + "\n" + current.fileName + "\n" + current.lineNumber);
      }
    }
    stack.pop();
  }
}

module.exports = ReactComponentTreeHook;
This is useful when performing operations that could remove dom
 * nodes and place them back in, resulting in
 focus being lost.
require('fbjs/lib/warning');

var ATTR_NAME = DOMProperty.ID_ATTRIBUTE_NAME;
var ROOT_ATTR_NAME = DOMProperty.ROOT_ATTRIBUTE_NAME;
var ELEMENT_NODE_TYPE = 1;
var DOC_NODE_TYPE = 9;
var DOCUMENT_FRAGMENT_NODE_TYPE = 11;

var instancesByReactRootID = {};

/**
 * Finds the index of the first character that's not common between the two
 * given strings.
 *
 * @return {number} the index of the character where the strings diverge
 */
function firstDifferenceIndex(string1, string2) {
  var minLen = Math.min(string1.length, string2.length);
  for (var i = 0; i < minLen; i++) {
    if (string1.charAt(i) !== string2.charAt(i)) {
      return i;
    }
  }
  return string1.length === string2.length ? -1 : minLen;
}

/**
 * @param {DOMElement|DOMDocument} container DOM element that may contain
 * a React component
 * @return {?*} DOM element that may have the reactRoot ID, or null.
 */
function getReactRootElementInContainer(container) {
  if (!container) {
    return null;
  }

  if (container.nodeType === DOC_NODE_TYPE) {
    return container.documentElement;
  } else {
    return container.firstChild;
  }
}

function internalGetID(node) {
  // If node is something like a window, document, or text node, none of
  // which support attributes or a getAttribute method, gracefully return // the empty string, as if the attribute were
  return node.getAttribute && node.getAttribute(ATTR_NAME) || '';
}

/**
 * Mounts this component and inserts it into the DOM.
 *
 * @param {ReactComponent} componentInstance The instance to
 * mount.
 * @param {DOMElement} container DOM element to mount into.
 * @final
 * @internal
 * @see {ReactMount.unmountComponentAtNode}
 */
function unmountComponentFromNode(instance, container, safely) {
  if (process.env.NODE_ENV !== 'production') {
    ReactInstrumentation.debugTool.onBeginFlush();
  }

  ReactReconciler.unmountComponent(instance, safely);

  if (process.env.NODE_ENV !== 'production') {
    ReactInstrumentation.debugTool.onEndFlush();
  }

  // http://jsperf.com/emptying-a-node
  while (container.lastChild) {
    container.removeChild(container.lastChild);
  }
}

/**
 * True if the supplied DOM node has a direct React-rendered child that is
 * not a React root element. Useful for warning in 'render', * unmountComponentAtNode*, etc.
 */
function hasNonRootReactChild(container) {
  var rootEl = getReactRootElementInContainer(container);
  if (rootEl) {
    var inst = ReactDOMComponentTree.getInstanceFromNode(rootEl);
    return !!(inst && inst._hostParent);
  }
}

/**
 * Unmounts a component and removes it from the DOM.
 *
 * @param {DOMElement} container DOM element to unmount from.
 * @final
 * @internal
 * @see {ReactMount.unmountComponentAtNode}
 */
function unmountComponentFromNode(instance, container, safely) {
  if (process.env.NODE_ENV !== 'production') {
    ReactInstrumentation.debugTool.onBeginFlush();
  }

  ReactReconciler.unmountComponent(instance, safely);

  if (process.env.NODE_ENV !== 'production') {
    ReactInstrumentation.debugTool.onEndFlush();
  }

  // http://jsperf.com/emptying-a-node
  while (container.lastChild) {
    container.removeChild(container.lastChild);
  }
}

/**
 * @param {ReactComponent} componentInstance container DOM element to
 * mount into.
 * @return {DOMElement} container DOM element to mount into.
 * @param {boolean} shouldReuseMarkup If true, do not insert
 * markup
 */
function shouldReuseMarkupIfTrue, do not insert markup
 amortgageComponentIntoNode(wrapperInstance, container, transaction, shouldReuseMarkup, context) {
  var wrappedElement = wrapperInstance._currentElement.props.child;

  if (ReactFeatureFlags.logTopLevelRenders) {
    var markerName = 'React mount: ' + (typeof wrappedElement.type === 'string' ? wrappedElement.type : wrappedElement.type.displayName || wrappedElement.type.name);
    console.time(markerName);
  }

  var mountedEl = ReactDomComponentTree.getInstanceFromNode(wrappedElement);
  if (markerName) {
    console.timeEnd(markerName);
  }

  wrapperInstance._renderedComponent._topLevelWrapper = wrapperInstance;
  ReactMount._mountImageIntoNode(mountedEl, container, wrapperInstance, shouldReuseMarkup, transaction);
}

/**
 * Batched mount.
 *
 * @param {ReactComponent} componentInstance container DOM element to
 * mount into.
 * @param {boolean} shouldReuseMarkup If true, do not insert
 * markup
 */
function batchedMountComponentIntoNode(componentInstance, container, shouldReuseMarkup, context) {
  var transaction = ReactUpdates.ReactReconcileTransaction.getPooled(
    !shouldReuseMarkup && ReactDOMFeatureFlags.useCreateElement);
*un * @param {?DOMElement} node The candidate DOM node. * @return {boolean} True if the DOM has been rendered by another copy of React. * @internal * @function nodeIsRenderedByOtherInstance * @param {DOMElement} container The candidate DOM node. * @return {boolean} True if the DOM is a valid DOM node. * @internal * @function isValidContainer * @param {DOMElement} node The candidate DOM node. * @return {boolean} True if the supplied DOM node is a valid React node.

getHostRootInstanceInContainer(container) {
  var rootEl = getReactRootElementInContainer(container);
  return !!(rootEl && isReactNode(rootEl) &&
  !ReactDOMComponentTree.getInstanceFromNode(rootEl));
}

isValidTopLevelWrapper(container) {
  var root = getHostRootInstanceInContainer(container);
  return root ? root._hostContainerInfo._topLevelWrapper : null;
}

// TopLevelWrapper
TopLevelWrapper.prototype.render = function () {
  return this.props.child;
};

ReactUpdateQueue.enqueueElementInternal(prevComponent, nextElement, nextContext);
Render methods should be a pure function ' + 'of props and state; triggering nested component updates from ' + 'render is not allowed. If necessary, trigger nested updates in ' + 'componentDidUpdate.

Check the render method of %s.', ReactCurrentOwner.current && ReactCurrentOwner.current.getName() || 'ReactCompositeComponent', void 0, isIsValidContainer ? process.env.NODE_ENV !== 'production' ? invariant(false, '_isValidContainer(...): Target container is not a DOM element.') : _prodInvariant('37') : void 0;

ReactBrowserEventEmitter.ensureScrollValueMonitoring();

var componentInstance = instantiateReactComponent(nextElement, false);

ReactUpdates.batchedUpdates(batchedMountComponentIntoNode, componentInstance, container, shouldReuseMarkup, context);

var wrapperID = componentInstance._instance.rootID;

instancesByReactRootID[wrapperID] = componentInstance;

return componentInstance;

/**
 * Renders a React component into the DOM in the supplied 'container'.
 * @param {ReactComponent} parentComponent The conceptual
 * parent of this render tree.
 * @param {ReactElement} nextElement Component element to render.
 * @param {DOMElement} container DOM element to render into.
 * @param {?function} callback function triggered on
 * completion
 * @return {ReactComponent} Component instance rendered in 'container'.
 */

renderSubtreeIntoContainer: function (parentComponent, nextElement, container, callback) {

!(parentComponent != null && ReactInstanceMap.has(parentComponent)) ? process.env.NODE_ENV !== 'production' ? invariant(false, 'parentComponent must be a valid React Component') : _prodInvariant('38') : void 0;

return ReactMount._renderSubtreeIntoContainer(parentComponent, nextElement, container, callback);

},

_renderSubtreeIntoContainer: function (parentComponent, nextElement, container, callback) {

ReactUpdateQueue.validateCallback(callback, 'ReactDOM.render');

!React.isValidElement(nextElement) ? process.env.NODE_ENV !== 'production' ? invariant(false, 'ReactDOM.render(): Invalid component element.%s', typeof nextElement === 'string' ? " Instead of passing a string like 'div', pass " + "React.createElement('div') or <div />." : typeof nextElement === 'function' ? ' Instead of passing a class like Foo, pass ' + 'React.createElement(Foo) or <Foo />.' : nextElement != null && nextElement.props !== undefined ? ' This may be caused by unintentionally loading two independent ' + 'copies of React.' : '') : _prodInvariant('39', typeof nextElement === 'string' ? " Instead of passing a string like 'div', pass " + "React.createElement('div') or <div />." : typeof nextElement === 'function' ? ' Instead of passing a class like Foo, pass ' + 'React.createElement(Foo) or <Foo />.' : nextElement != null && nextElement.props !== undefined ? ' This can be caused by unintentionally loading two independent ' + 'copies of React.' : '') : void 0;

process.env.NODE_ENV !== 'production' ? warning(!container || !container.tagName || container.tagName.toUpperCase() !== 'BODY', 'render(): Rendering components directly into document.body is ' + 'discouraged, since its children are often manipulated by third-party ' + 'scripts and browser extensions. This may lead to subtle ' + 'reconciliation issues. Try rendering into a container element created ' + '+ for your app. :') : void 0;

var nextWrappedElement = React.createElement(TopLevelWrapper, { child: nextElement });

var nextContext = emptyObject;

if (parentComponent) {

var prevComponent = getTopLevelWrapperInContainer(container);

if (prevElement) {

var prevWrappedElement = prevComponent._currentElement;

if (shouldUpdateReactComponent(prevElement, nextElement)) {

var updatedCallback = callback && function () { callback.call(publicInst); }

ReactMount.updateRootComponent(prevComponent, nextWrappedElement, nextContext, container, updatedCallback);

return publicInst;

}

ReactMount.unmountComponentAtNode(container);

} }

var reactRootElement = getReactRootElementInContainer(container);

var containerHasReactMarkup = reactRootElement &&
var containerHasNonRootReactChild = hasNonRootReactChild(container);

if (process.env.NODE_ENV !== 'production') {
  process.env.NODE_ENV !== 'production' ? warning(!containerHasNonRootReactChild, 'render(...): Replacing React-rendered children with a new root + component. If you intended to update the children of this node, + you should instead have the existing children update their state + and render the new components instead of calling ReactDOM.render()') : void 0;

  var rootElementSibling = reactRootElement;

  while (rootElementSibling) {
    process.env.NODE_ENV !== 'production' ? warning(!containerHasNonRootReactChild, 'render(...): Replacing React-rendered children with a new root + component. If you intended to update the children of this node, + you should instead have the existing children update their state + and render the new components instead of calling ReactDOM.render()') : void 0;

    rootElementSibling = rootElementSibling.nextSibling;
  }
}

var shouldReuseMarkup = containerHasReactMarkup && !prevComponent && !containerHasNonRootReactChild;

var component = ReactMount._renderNewRootComponent(nextWrappedElement, container, shouldReuseMarkup, nextContext).renderedComponent.getPublicInstance();

if (callback) {
  callback.call(component);
}

return component;

/**
 * Renders a React component into the DOM in the supplied `container`.
 * See https://facebook.github.io/react/docs/top-level-api.html#reactdom.render
 *
 * If the React component was previously rendered into `container`, this will perform an update on it and only mutate the DOM as necessary to reflect the latest React component.
 *
 * @param {ReactElement} nextElement Component element to render.
 * @param {DOMElement} container DOM element to render into.
 * @param {?function} callback function triggered on completion
 * @return {ReactComponent} Component instance rendered in `container`.
 */

ReactMount._renderSubtreeIntoContainer(null, nextElement, container, callback);

/**
 * Unmounts and destroys the React component rendered in the `container`.
 * See https://facebook.github.io/react/docs/top-level-api.html#reactdom.unmountcomponentatnode
 *
 * @param {DOMElement} container DOM element containing a React component.
 * @return {boolean} True if a component was found in and unmounted from `container`
 */

ReactUpdates.batchedUpdates(unmountComponentFromNode, prevComponent, container, false);

return true;

function (markup, container, instance, shouldReuseMarkup, transaction) {
  isValidContainer(container) ? process.env.NODE_ENV !== 'production' ? invariant(false, 'mountComponentIntoNode(...): Target container is not valid.') : _prodInvariant('41') : void 0;
  if (shouldReuseMarkup) {
    var rootElement = getReactRootElementInContainer(container);
    if (ReactMarkupChecksum.canReuseMarkup(markup, rootElement)) {
      ReactDOMComponentTree.precacheNode(instance, rootElement);
      return;
    } else {
      var checksum = rootElement.getAttribute(ReactMarkupChecksum.CHECKSUM_ATTR_NAME);
      rootElement.removeAttribute(ReactMarkupChecksum.CHECKSUM_ATTR_NAME);
      var rootMarkup = rootElement.outerHTML;
      rootElement.setAttribute(ReactMarkupChecksum.CHECKSUM_ATTR_NAME, checksum);
      var normalizedMarkup = markup;
      if (process.env.NODE_ENV !== 'production') {
        // because rootMarkup is retrieved from the DOM, various normalizations will have occurred which will not be present in 'markup'. Here, insert markup into a <div> or <iframe> depending on the container
        // type to perform the same normalizations before comparing.
        var normalizer;
        if (container.nodeType === ELEMENT_NODE_TYPE) {
          normalizer = document.createElement('div');
          normalizer.innerHTML = markup;
          normalizedMarkup = normalizer.innerHTML;
        } else {
          normalizer = document.createElement('iframe');
          document.body.appendChild(normalizer);
          normalizer.contentDocument.write(markup);
          normalizedMarkup = normalizer.contentDocument.documentElement.outerHTML;
          document.body.removeChild(normalizer);
        }
      }

      var diffIndex = firstDifferenceIndex(normalizedMarkup, rootMarkup);
      var difference = '
        (client) ' + normalizedMarkup.substring(diffIndex - 20, diffIndex + 20) + '
        (server) ' + rootMarkup.substring(diffIndex - 20, diffIndex + 20);

      !(container.nodeType !== DOC_NODE_TYPE) ?
        process.env.NODE_ENV !== 'production' ? invariant(false, 'You\'re trying to render a component to the document but you didn\'t use server rendering. We can\'t do this without using server rendering due to cross-browser quirks. See ReactDOMServer.renderToString() for server rendering.') : _prodInvariant('43') : void 0;

      if (transaction.useCreateElement) {
        while (container.lastChild) {
          container.removeChild(container.lastChild);
        }
        DOMLazyTree.insertTreeBefore(container, markup, null);
      } else {
        setInnerHTML(container, markup);
        ReactDOMComponentTree.precacheNode(instance, container.firstChild);
      }
    }
  }
};

module.exports = ReactMount;
getHostComponentFromComposite:","use strict;\n\nexports.__esModule = true;\n\nvar _propTypes2 = require('./_propTypes2');\n\nfunction _interopRequireDefault(obj) { return obj && obj.__esModule ? { default: obj } : { \n  __esModule: true, \n  \n  exports: { default: obj } } ;\n}\n\nfunction _interopRequire(obj) { return obj && obj.__esModule ? obj : { \n  \n  default: obj } ;\n}\n\nexports.default = _interopRequireDefault(\n  \n  _propTypes2[\"default\"]\n);\n\n\n// End File
\n\n
util.assign(
  { 'default': Format.RFC3986,
    formatters: { RFC1738: function (value) { return String(value); } } },
  RFC3986: function (value) { return String(value); })


/**
 * Detect free variable `'global` from Node.js.
 */
var freeGlobal = typeof global == 'object' && global && global.Object == Object &&
  global
  ? require './_baseToString':
  null;

module.exports = freeGlobal;

/**
 * Used to resolve the decompiled source of functions.
 */
var funcProto = Function.prototype;

/**
 * Converts to string.
 */
function toSource() {
  if (func != null) {
    try {
      return funcToString.call(func);
    } catch (e) {
      return func.toString();
    }
  }
  return '';
}

module.exports = toSource;

var baseToString = require './_baseToString';

/**
 * Converts `value` to a string. An empty string is returned for `null` and
 * `undefined` values. The sign of `-0` is preserved.
 */
function toString(value) {
  return (value == null) ? '' : baseToString(value);
}

module.exports = toString;

var Symbol = require './_Symbol',
    arrayMap = require './_arrayMap',
    isArray = require './isArray',
    isSymbol = require './isSymbol';

/**
 * The base implementation of `_.toString` which doesn't convert nullish
 * values to empty strings.
 */
function baseToString(value) {
  if (typeof value == 'string') {
    return value;
  }
  if (isArray(value)) {
    return arrayMap(value, baseToString) + '';
  }
  if (isSymbol(value)) {
    return symbolToString ? symbolToString.call(value) : '';
  }
  var result = (value + '');
  return (result == '0' && (1 / value) == -INFINITY) ? '-0' : result;
}

module.exports = baseToString;

var defineProperty = require './_defineProperty';

/**
 * A specialized version of `baseAssignValue` which transforms
 * the rest array.
 */
function overRest(func, start, transform) {
  start = nativeMax(start === undefined ? (func.length - 1) : start, 0);
  return function() {
    var args = arguments,
        index = -1,
        length = nativeMax(args.length - start, 0),
        array = Array(length);
    while (++index < length) {
      array[index] = args[start + index];
    }
    var result = (result == '0' && (1 / value) == -INFINITY) ? '-0' : result;
    return func.apply(null, array);
  }
}

module.exports = overRest;

var baseHasIn = require './_baseHasIn',
    hasPath = require './_hasPath';

/**
 * Checks if `path` is a direct or inherited property of `object`.
 */
function hasIn(object, path) {
  return object != null && hasPath(object, path, baseHasIn);
}

module.exports = hasIn;

var apply = require './_apply';

/**
 * A specialized version of `_.map` which transforms
 * the rest array.
 */
function overRest(func, start, transform) {
  start = nativeMax(start === undefined ? (func.length - 1) : start, 0);
  return function() {
    var args = arguments,
        index = -1,
        length = nativeMax(args.length - start, 0),
        array = Array(length);
    while (++index < length) {
      array[index] = args[start + index];
    }
    var result = (result == '0' && (1 / value) == -INFINITY) ? '-0' : result;
    return func.apply(null, array);
  }
}

module.exports = overRest;
Array(start + 1);\n while (++index < start) {\n   otherArgs[index] = args[index];\n }\n otherArgs[start] = transform(array);\n return apply(func, this, otherArgs);\n }\n
module.exports = overRest;\n
var baseSetToString = require('_/baseSetToString'),\n shortOut = require('_/shortOut');\n\n/**\n * Sets the `toString` method of `func` to return `string`\n * @param {Function} func\n * @returns {Function}\n */\nvar transform = require('_/baseMatchesProperty');\n\nmodule.exports = transform;\n
var baseMatches = require('_/baseMatches'),\n baseMatchesProperty = require('_/baseMatchesProperty');\n\n
module.exports = baseMatches;\n

var baseIsEqualDeep = require('./_baseIsEqualDeep'),\n isObjectLike = require('./isObjectLike');\n
/**\n * The base implementation of `_.isEqual` which supports partial\n * comparisons.
 *
 * @private
 * @param {*} value\n * @param {*} other\n * @param {boolean} bitmask\n *  1 - Unordered comparison\n *  2 - Partial comparison\n * @param {Function} customizer\n * @param {Object} stack\n * @returns {boolean}\n */\nfunction baseIsEqual(value, other, bitmask, customizer, stack) {
  if (value === other) {
    return true;
  }
  if (value == null || other == null || (!isObjectLike(value) && !isObjectLike(other))) {
    return value !== value && other !== other;
  }
  return baseIsEqualDeep(value, other, bitmask, customizer, baseIsEqual, stack);
}

module.exports = baseIsEqual;\n
var SetCache = require('./_SetCache'),\n arraySome = require('./_arraySome'),\n cacheHas = require('./_cacheHas');\n
/**
 * A specialized version of `baseIsEqualDeep` for arrays with
 * support for partial deep comparisons.
 *
 * @private
 * @param {Array} array\n * @param {Array} other\n * @param {number} bitmask\n * @param {Function} customizer\n * @param {Function} equalFunc\n * @param {Object} stack\n * @returns {boolean}\n */\nfunction equalArrays(array, other, bitmask, customizer, equalFunc, stack) {
  var isPartial = bitmask & COMPARE_PARTIAL_FLAG,
      arrLength = array.length,
      othLength = other.length;

  if (arrLength != othLength && !(isPartial && othLength > arrLength)) {
    return false;
  }
  // Assume cyclic values are equal.
  var stacked = stack.get(array);
  if (stacked && stack.get(other)) {
    return stacked == other;
  }
  var SetCache = require('_/SetCache'),\n  arraySome = require('_/arraySome'),\n  cacheHas = require('_/cacheHas');\n
  var used = cacheHas('used', 1);

  var isPartial = bitmask & COMPARE_PARTIAL_FLAG;
  var arrLength = array.length, othLength = other.length;
  if (arrLength != othLength && !isPartial && othLength > arrLength) { return false; }\n  // Assume cyclic values are equal.
  var var stacked = stack.get(array);\n  if (stacked && & stack.get(other)) { return stacked == other; }\n  var index = -1,\n  result = true,\n  seen = (bitmask & COMPARE_UNORDERED_FLAG) ? new SetCache : undefined,\n  stack.set(array, other), stack.set(other, array),\n  // Ignore non-index properties.
  while (++index < arrLength) {
    var arrValue = array[index],\n        othValue = other[index];\n
    if (customizer) {\n      var compared = isPartial
        ? customizer(othValue, arrValue, index, other, array, stack)\n        : customizer(arrValue, othValue, index, array, other, stack);\n
      if (compared !== undefined) {\n        if (customizer) \n        \n        if (compared) { var result = false; break; }\n        \n        // Recursively compare arrays (susceptible to call stack limits).\n      }\n      if (seen) { var result = false; break; }\n      \n      if ((cacheHas(seen, othIndex)) \n        (arrValue === othValue || equalFunc(arrValue, othValue, bitmask, customizer, stack))\n        (othValue !== arrValue)) { var result = true; break; }\n      else if (((arrValue === othValue || equalFunc(arrValue, othValue, bitmask, customizer, stack))\n        (arrValue !== othValue || equalFunc(arrValue, othValue, bitmask, customizer, stack)))) { var result = true; break; }\n    }
    \n    if (stacked) { var result = true; break; }\n  }
  return result;
}

module.exports = equalArrays;\n
var Uint8Array = require('@/Uint8Array');\n
module.exports = Uint8Array;\n


baseGetAllKeys = require('./_baseGetAllKeys'),
getSymbols = require('./_getSymbols'),
keys = require('./keys');

/**
 * Creates an array of own enumerable property names and symbols of `object`.
 * @param {Object} object The object to query.
 * @returns {Array} Returns the array of property names and symbols.
 */
function getAllKeys(object) {
  return baseGetAllKeys(object, keys, getSymbols);
}

module.exports = getAllKeys;

/**
 * The base implementation of `getAllKeys` and `getAllKeysIn` which uses
 * `keysFunc` and `symbolsFunc` to get the enumerable property names and
 * symbols of `object`.
 * @param {Object} object The object to query.
 * @returns {Array} Returns the array of property names and symbols.
 */
function baseGetAllKeys(object, keysFunc, symbolsFunc) {
  var result = keysFunc(object);
  return isArray(object) ? result : arrayPush(result, symbolsFunc(object));
}

module.exports = baseGetAllKeys;

/**
 * This method returns a new empty array.
 */
function stubArray() {
  return [];
}

module.exports = stubArray;

/**
 * Creates a unary function that invokes `func` with its argument transformed.
 * @private
 * @param {Function} func The function to wrap.
 * @param {Function} transform The argument transform.
 * @returns {Function} Returns the new function.
 */
function overArg(func, transform) {
  return function(arg) {
    return func(transform(arg));
  };
}

module.exports = overArg;

/**
 * Checks if `value` is suitable for strict equality comparisons, i.e. `===`.
 * @private
 * @param {*} value The value to check.
 * @returns {boolean} Returns `true` if `value` is suitable for strict
 * equality comparisons, else `false`.
 */
function isStrictComparable(value) {
  return value === value && !isObject(value);
}

module.exports = isStrictComparable;

@param {*} srcValue The value to match.\n * @returns {Function} Returns the new spec function.\n */\nfunction
matchesStrictComparable(key, srcValue) {\n return function(object) {\n if (object == null) {\n
return false;\n
}\n return object[key] === srcValue &&\n
(srcValue !== undefined || (key in Object(object)));\n
};\n}\n\nmodule.exports = matchesStrictComparable;\n","var toFinite = require('./toFinite');\n\n/**\n * Converts
`value` to an integer.\n *\n * **Note:** This method is loosely based on\n * [`ToInteger`](http://www.ecmainternational.org/ecma-262/7.0/#sec-tointeger).\n *\n * @static\n * @memberOf _\n * @since 4.0.0\n * @category
Lang\n * @param {*} value The value to convert.\n * @returns {number} Returns the converted integer.\n *
@example\n *\n * _.toInteger(3.2);\n * // => 3\n *\n * _.toInteger(Number.MIN_VALUE);\n * // => 0\n *\n *
_.toInteger(Infinity);\n * // => 1.7976931348623157e+308\n *\n * _.toInteger('3.2');\n * // => 3\n */\nfunction
toInteger(value) {\n var result = toFinite(value),\n
remainder = result % 1;\n\n return result === result ?
(remainder ? result - remainder : result) : 0;\n}\n\nmodule.exports = toInteger;\n","var arrayLikeKeys =
require('./_arrayLikeKeys'),\n baseKeysIn = require('./_baseKeysIn'),\n isArrayLike =
require('./isArrayLike');\n\n/**\n * Creates an array of the own and inherited enumerable property names of
`object`.\n *\n * **Note:** Non-object values are coerced to objects.\n *\n * @static\n * @memberOf _\n * @since
3.0.0\n * @category Object\n * @param {Object} object The object to query.\n * @returns {Array} Returns the
array of property names.\n * @example\n *\n * function Foo() {\n * this.a = 1;\n * this.b = 2;\n * }\n *\n *
Foo.prototype.c = 3;\n *\n * _.keysIn(new Foo);\n * // => ['a', 'b', 'c'] (iteration order is not guaranteed)\n
*/\nfunction keysIn(object) {\n return isArrayLike(object) ? arrayLikeKeys(object, true) :
baseKeysIn(object);\n}\n\nmodule.exports = keysIn;\n","var arrayPush = require('./_arrayPush'),\n getPrototype =
require('./_getPrototype'),\n getSymbols = require('./_getSymbols'),\n stubArray = require('./stubArray');\n\n/*
Built-in method references for those with the same name as other `lodash` methods. */\nvar nativeGetSymbols =
Object.getOwnPropertySymbols;\n\n/**\n * Creates an array of the own and inherited enumerable symbols of
`object`.\n *\n * @private\n * @param {Object} object The object to query.\n * @returns {Array} Returns the array
of symbols.\n */\nvar getSymbolsIn = !nativeGetSymbols ? stubArray : function(object) {\n var result = [];\n while
(object) {\n arrayPush(result, getSymbols(object));\n object = getPrototype(object);\n }\n return
result;\n};\n\nmodule.exports = getSymbolsIn;\n","'use strict';\nvar global = require('./_global');\nvar $export =
require('./_export');\nvar meta = require('./_meta');\nvar fails = require('./_fails');\nvar hide = require('./_hide');\nvar
redefineAll = require('./_redefine-all');\nvar forOf = require('./_for-of');\nvar anInstance = require('./_aninstance');\nvar isObject = require('./_is-object');\nvar setToStringTag = require('./_set-to-string-tag');\nvar dP =
require('./_object-dp').f;\nvar each = require('./_array-methods')(0);\nvar DESCRIPTORS =
require('./_descriptors');\n\nmodule.exports = function (NAME, wrapper, methods, common, IS_MAP, IS_WEAK)
{\n var Base = global[NAME];\n var C = Base;\n var ADDER = IS_MAP ? 'set' : 'add';\n var proto = C &&
C.prototype;\n var O = {};\n if (!DESCRIPTORS || typeof C != 'function' || !(IS_WEAK || proto.forEach &&
!fails(function () {\n new C().entries().next();\n }))) {\n // create collection constructor\n C =
common.getConstructor(wrapper, NAME, IS_MAP, ADDER);\n redefineAll(C.prototype, methods);\n
meta.NEED = true;\n } else {\n C = wrapper(function (target, iterable) {\n
anInstance(target, C, NAME,
'_c');\n
target._c = new Base();\n
if (iterable != undefined) forOf(iterable, IS_MAP, target[ADDER], target);\n
});\n each('add,clear,delete,forEach,get,has,set,keys,values,entries,toJSON'.split(','), function (KEY) {\n
var
IS_ADDER = KEY == 'add' || KEY == 'set';\n
if (KEY in proto && !(IS_WEAK && KEY == 'clear'))
hide(C.prototype, KEY, function (a, b) {\n
anInstance(this, C, KEY);\n
if (!IS_ADDER && IS_WEAK
&& !isObject(a)) return KEY == 'get' ? undefined : false;\n
var result = this._c[KEY](a === 0 ? 0 : a, b);\n
return IS_ADDER ? this : result;\n
});\n });\n IS_WEAK || dP(C.prototype, 'size', {\n
get: function () {\n
return this._c.size;\n
}\n });\n }\n\n setToStringTag(C, NAME);\n\n O[NAME] = C;\n $export($export.G +
$export.W + $export.F, O);\n\n if (!IS_WEAK) common.setStrong(C, NAME, IS_MAP);\n\n return C;\n};\n","'use
strict';\n// https://tc39.github.io/proposal-setmap-offrom/\nvar $export = require('./_export');\n\nmodule.exports =
function (COLLECTION) {\n $export($export.S, COLLECTION, { of: function of() {\n var length =
arguments.length;\n var A = new Array(length);\n while (length--) A[length] = arguments[length];\n return
new this(A);\n } });\n};\n","'use strict';\n// https://tc39.github.io/proposal-setmap-offrom/\nvar $export =

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require('./_export');

var aFunction = require('./_a-function');
var ctx = require('./_ctx');
var forOf = require('./_for-of');

module.exports = function (COLLECTION) {
  $export($export.S, COLLECTION, { from: function from(source /* , mapFn, thisArg */) {
    var mapFn = arguments[1];
    var mapping, A, n, cb;
    aFunction(this);
    mapping = mapFn !== undefined;
    if (mapping) aFunction(mapFn);
    if (source == undefined) return new this();
    A = [];
    if (mapping) {
      n = 0;
      cb = ctx(mapFn, arguments[2], 2);
      forOf(source, false, function (nextItem) {
        A.push(cb(nextItem, n++));
      });
    } else {
      forOf(source, false, function (nextItem) { A.push(cb(nextItem, n++)); });
    }
    return new this(A);
  } });
};

export default function symbolObservablePonyfill(root) {
  var result;
  var Symbol = root.Symbol;

  if (typeof Symbol === 'function') {
    if (Symbol.observable) {
      result = Symbol.observable;
    } else {
      result = Symbol('observable');
      Symbol.observable = result;
    }
  } else {
    result = '@@observable';
  }

  return result;
};

/** Detect free variable `global` from Node.js. */
var freeGlobal = typeof global == 'object' && global && global.Object === Object && global;

export default freeGlobal;

'use strict';

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

var _combineReducers2 = require('./combineReducers');

var _combineReducers3 = _interopRequireDefault(_combineReducers2);

function _interopRequireDefault(obj) { return obj && obj.__esModule ? obj : { default: obj }; }

exports.combineReducers = _combineReducers3.default;

var capitalize = require('./capitalize'),
createCompounder = require('./_createCompounder');

/**
 * Converts `string` to 
 * [camel case](https://en.wikipedia.org/wiki/CamelCase).
 *
 * @static
 * @memberOf _
 * @since 3.0.0
 * @category String
 * @param {string} [string=''] The string to convert.
 * @returns {string} Returns the camel cased string.
 */
var camelCase = createCompounder(function(result, word, index) {
  word = word.toLowerCase();
  return result + (index ? capitalize(word) : word);
});

module.exports = camelCase;

var createFind = require('./_createFind'),
findIndex = require('./findIndex');

/**
 * Iterates over elements of `collection`, returning the first element
 * `predicate` returns truthy for. The predicate is invoked with three
 * arguments: (value, index|key, collection).
 *
 * **Note:** Wade used the `createFind` function to implement
 * `_.findIndex` (see https://gist.github.com/tiboly/4876991).
 *
 * @static
 * @memberOf _
 * @since 0.1.0
 * @category Collection
 * @param {Array|Object} collection The
 * @param {Function} predicate The function invoked per iteration. 
 * @returns {*} Returns the first value
 * for which the predicate returns truthy. Returns `undefined` if
 * `collection` is empty.
 */
var find = createFind(findIndex);

module.exports = find;
If the character is not handled by one of the above rules and is greater than or equal to U+0080, is `-` (U+002D), or `_` (U+005F), or in one of the ranges [0-9] (U+0030 to U+0039), [A-Z] (U+0041 to U+005A), or [a-z] (U+0061 to U+007A), the character itself is used as the result. Otherwise, the escaped character is used as the result.

The guarded methods are:
* `assign`, `defaults`, `defaultsDeep`, `includes`, `merge`, `orderBy`, and `sortBy`

*
timeSinceLastCall;\n
? nativeMin(timeWaiting, maxWait - timeSinceLastInvoke)\n
: timeWaiting;\n
\n
function shouldInvoke(time) {\n  var timeSinceLastCall = time - lastCallTime,\n  timeSinceLastInvoke = time - lastInvokeTime;\n
  // Either this is the first call, activity has stopped and we're at the trailing edge, the system time has gone backwards and we're treating it as the trailing edge, or we've hit the 'maxWait' limit.\n
  return (maxing ? nativeMin(timeWaiting, maxWait - timeSinceLastInvoke) : timeWaiting);
}

function shouldInvoke(time) {\n  var timeSinceLastCall = time - lastCallTime,\n  timeSinceLastInvoke = time - lastInvokeTime;

  // Only invoke if we have 'lastArgs' which means 'func' has been debounced at least once.

  return (lastCallTime === undefined || (timeSinceLastCall >= wait) || (timeSinceLastInvoke >= maxWait));
}

function timerExpired() {\n  var time = now();\n
  if (shouldInvoke(time)) {\n    return trailingEdge(time);
  }\n
  // Restart the timer.

  timerId = setTimeout(timerExpired, remainingWait(time));
}

function trailingEdge(time) {\n  timerId = undefined;

  if (isInvoking) {
    if (timerId === undefined) {
      return leadingEdge(lastCallTime);
    }
    if (maxing) {
      clearTimeout(timerId);
      timerId = setTimeout(timerExpired, wait);
      return invokeFunc(lastCallTime);
    }
  }

  if (timerId === undefined) {
    timerId = setTimeout(timerExpired, wait);
  }

  return result;
}

function cancel() {\n  if (timerId !== undefined) {
    clearTimeout(timerId);
  }

  lastInvokeTime = 0;
  lastInvokeTime = lastCallTime = lastThis = lastThis = timerId = undefined;
}

function flush() {\n  return timerId === undefined ? result : trailingEdge(now());
}

function debounced() {\n  var time = now(),
  isInvoking = shouldInvoke(time);\n
  lastArgs = arguments;
  lastThis = this;
  lastCallTime = time;

  if (isInvoking) {
    if (timerId === undefined) {
      return leadingEdge(lastCallTime);
    }\n    if (maxing) {
      clearTimeout(timerId);
      timerId = setTimeout(timerExpired, wait);
      return invokeFunc(lastCallTime);
    }
  }\n
  if (timerId === undefined) {
    timerId = setTimeout(timerExpired, wait);
  }

  return result;
}

debounced.cancel = cancel;

debounced.flush = flush;

return debounced;

module.exports = debounced;

\n
\n

function(name) {\n return this.map.hasOwnProperty(normalizeName(name))\n };\n\n Headers.prototype.set =
function(name, value) {\n this.map[normalizeName(name)] = normalizeValue(value);\n };\n\n
Headers.prototype.forEach = function(callback, thisArg) {\n for (var name in this.map) {\n
if
(this.map.hasOwnProperty(name)) {\n
callback.call(thisArg, this.map[name], name, this);\n
}\n }\n };\n\n
Headers.prototype.keys = function() {\n var items = [];\n this.forEach(function(value, name) {\n
items.push(name);\n });\n return iteratorFor(items)\n };\n\n Headers.prototype.values = function() {\n var
items = [];\n this.forEach(function(value) {\n
items.push(value);\n });\n return iteratorFor(items)\n };\n\n
Headers.prototype.entries = function() {\n var items = [];\n this.forEach(function(value, name) {\n
items.push([name, value]);\n });\n return iteratorFor(items)\n };\n\n if (support.iterable) {\n
Headers.prototype[Symbol.iterator] = Headers.prototype.entries;\n }\n\n function consumed(body) {\n if
(body.bodyUsed) {\n
return Promise.reject(new TypeError('Already read'))\n }\n body.bodyUsed = true;\n
}\n\n function fileReaderReady(reader) {\n return new Promise(function(resolve, reject) {\n
reader.onload =
function() {\n
resolve(reader.result);\n
};\n
reader.onerror = function() {\n
reject(reader.error);\n
};\n })\n }\n\n function readBlobAsArrayBuffer(blob) {\n var reader = new FileReader();\n var promise =
fileReaderReady(reader);\n reader.readAsArrayBuffer(blob);\n return promise\n }\n\n function
readBlobAsText(blob) {\n var reader = new FileReader();\n var promise = fileReaderReady(reader);\n
reader.readAsText(blob);\n return promise\n }\n\n function readArrayBufferAsText(buf) {\n var view = new
Uint8Array(buf);\n var chars = new Array(view.length);\n\n for (var i = 0; i < view.length; i++) {\n
chars[i] =
String.fromCharCode(view[i]);\n }\n return chars.join('')\n }\n\n function bufferClone(buf) {\n if (buf.slice)
{\n
return buf.slice(0)\n } else {\n var view = new Uint8Array(buf.byteLength);\n
view.set(new
Uint8Array(buf));\n
return view.buffer\n }\n }\n\n function Body() {\n this.bodyUsed = false;\n\n
this._initBody = function(body) {\n
this._bodyInit = body;\n
if (!body) {\n
this._bodyText = '';\n
} else
if (typeof body === 'string') {\n
this._bodyText = body;\n
} else if (support.blob &&
Blob.prototype.isPrototypeOf(body)) {\n
this._bodyBlob = body;\n
} else if (support.formData &&
FormData.prototype.isPrototypeOf(body)) {\n
this._bodyFormData = body;\n
} else if
(support.searchParams && URLSearchParams.prototype.isPrototypeOf(body)) {\n
this._bodyText =
body.toString();\n
} else if (support.arrayBuffer && support.blob && isDataView(body)) {\n
this._bodyArrayBuffer = bufferClone(body.buffer);\n
// IE 10-11 can't handle a DataView body.\n
this._bodyInit = new Blob([this._bodyArrayBuffer]);\n
} else if (support.arrayBuffer &&
(ArrayBuffer.prototype.isPrototypeOf(body) || isArrayBufferView(body))) {\n
this._bodyArrayBuffer =
bufferClone(body);\n
} else {\n
this._bodyText = body = Object.prototype.toString.call(body);\n
}\n\n
if (!this.headers.get('content-type')) {\n
if (typeof body === 'string') {\n
this.headers.set('content-type',
'text/plain;charset=UTF-8');\n
} else if (this._bodyBlob && this._bodyBlob.type) {\n
this.headers.set('content-type', this._bodyBlob.type);\n
} else if (support.searchParams &&
URLSearchParams.prototype.isPrototypeOf(body)) {\n
this.headers.set('content-type', 'application/x-wwwform-urlencoded;charset=UTF-8');\n
}\n
}\n };\n\n if (support.blob) {\n
this.blob = function() {\n
var rejected = consumed(this);\n
if (rejected) {\n
return rejected\n
}\n\n
if (this._bodyBlob) {\n
return Promise.resolve(this._bodyBlob)\n
} else if (this._bodyArrayBuffer) {\n
return
Promise.resolve(new Blob([this._bodyArrayBuffer]))\n
} else if (this._bodyFormData) {\n
throw new
Error('could not read FormData body as blob')\n
} else {\n
return Promise.resolve(new
Blob([this._bodyText]))\n
}\n
};\n\n
this.arrayBuffer = function() {\n
if (this._bodyArrayBuffer) {\n
return consumed(this) || Promise.resolve(this._bodyArrayBuffer)\n
} else {\n
return
this.blob().then(readBlobAsArrayBuffer)\n
}\n
};\n }\n\n this.text = function() {\n
var rejected =
consumed(this);\n
if (rejected) {\n
return rejected\n
}\n\n
if (this._bodyBlob) {\n
return
readBlobAsText(this._bodyBlob)\n
} else if (this._bodyArrayBuffer) {\n
return
Promise.resolve(readArrayBufferAsText(this._bodyArrayBuffer))\n
} else if (this._bodyFormData) {\n
throw new Error('could not read FormData body as text')\n
} else {\n
return
Promise.resolve(this._bodyText)\n
}\n };\n\n if (support.formData) {\n
this.formData = function() {\n

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return this.text().then(decode)

this.json = function() {
  return this.text().then(JSON.parse)
}

this = function() {
  return this
}

methods = ['DELETE', 'GET', 'HEAD', 'OPTIONS', 'POST', 'PUT'];

function normalizeMethod(method) {
  var upcased = method.toUpperCase();
  return methods.indexOf(upcased) > -1 ? upcased : method
}

Request(input, options) {
  var body = input.body;

  if (input instanceof Request) {
    if (input.bodyUsed) {
      throw new TypeError('Already read')
    }
    this.url = input.url;
    this.credentials = input.credentials;
    if (options.headers) {
      this.headers = new Headers(input.headers);
    }
    this.method = input.method;
    this.mode = input.mode;
    if (!body)
      body = input._bodyInit;
    input.bodyUsed = true;
  } else {
    this.url = String(input);
    this.credentials = options.credentials;
    this.headers = 'same-origin';
    if (options.headers || !this.headers)
      this.headers = new Headers(options.headers);
    this.method = normalizeMethod(options.method || 'GET');
    this.mode = options.mode || this.mode || null;
    this.signal = options.signal || this.signal;
    this.referrer = null;
  }

  this._initBody(body)
}

Request.prototype.clone = function() {
  return new Request(this, {body: this._bodyInit})
}

function parseHeaders(rawHeaders) {
  var headers = new Headers();

  var preProcessedHeaders = rawHeaders.replace(/\r?\n[\t ]+/g, ' ');

  preProcessedHeaders.split(/\r?\n/).forEach(function(line) {
    var parts = line.split(':');
    var key = parts.shift().trim();
    if (key) {
      var value = parts.join(':').trim();
      headers.append(key, value);
    }
  });

  return headers
}

function decode(body) {
  var form = new FormData();
  body
    .trim()
    .split('&')
    .forEach(function(bytes) {
      if (bytes) {
        var split = bytes.split('=');
        var name = split.shift().replace(/\+/g, ' ');
        var value = split.join('=').replace(/\+/g, ' ');
        form.append(decodeURIComponent(name), decodeURIComponent(value));
      }
    });

  return form
}

function fetch(input, init) {

  return new Promise(function(resolve, reject) {
    var request = new Request(input, init);

    if (request.signal && request.signal.aborted)
      return reject(new Request('Aborted', 'AbortError'))

    var xhr = new XMLHttpRequest();

    xhr.onload = function() {
      var options = {
        status: xhr.status,
        statusText: xhr.statusText,
        headers: parseHeaders(xhr.getAllResponseHeaders() || '')
      };
      options.url = 'responseURL' in xhr ? xhr.responseURL : options.headers.get('X-Request-URL');
      var body = 'response' in xhr ? xhr.response : xhr.responseText;
      resolve(new Response(body, options));
    };

    xhr.onerror = function() {
      reject(new TypeError('Network request failed'))
    };

    xhr.ontimeout = function() {
      reject(new TypeError('Network request failed'))
    };

    return xhr.onabort = function() {
      reject(new TypeError('Network request failed'))
    };
  });
}

try {
  new exports.DOMException();
} catch (err) {
  exports.DOMException = function(message, name) {
    this.message = message;
    this.name = name;
    var error = Error(message);
    this.stack = error.stack;
  };

  exports.DOMException.prototype = Object.create(Error.prototype);

  exports.DOMException.prototype.constructor = exports.DOMException;

  exports.DOMException = self.DOMException;
}

try {
  exports.XMLHttpRequest = self.XMLHttpRequest;
} catch (error) {
  exports.XMLHttpRequest = function(message, name) {
    this.message = message;
    this.name = name;
    var error = Error(message);
    this.stack = error.stack;
  };

  exports.XMLHttpRequest.prototype = Object.create(Error.prototype);

  exports.XMLHttpRequest.prototype.constructor = exports.XMLHttpRequest;

  return fetch(input, init)
}
`value` is a plain object, else `false`.

```javascript
isPlainObject(value) {
  if (!isObjectLike(value) || baseGetTag(value) != objectTag) {
    return false;
  }
  var proto = getPrototype(value);
  if (proto === null) {
    return true;
  }
  var Ctor = hasOwnProperty.call(proto, 'constructor') &&
  proto.constructor;
  return typeof Ctor == 'function' && Ctor instanceof Ctor &&
  funcToString.call(Ctor) == objectCtorString;
}
```

Parse a cookie header.

```javascript
function parse(str, options) {
  if (typeof str !== 'string') {
    throw new TypeError('argument str must be a string');
  }
  var obj = {},
  var opt = options || {};
  var pairs = str.split(pairSplitRegExp);
  var dec = opt.decode || decode;
  for (var i = 0; i < pairs.length; i++) {
    var pair = pairs[i],
    var eq_idx = pair.indexOf('=');
    // skip things that don't look like key=value
    if (eq_idx < 0) {
      continue;
    }
    var key = pair.substr(0, eq_idx).trim(),
    var val = pair.substr(++eq_idx, pair.length).trim();
    // quoted values
    if ('"' == val[0]) {
      val = val.slice(1, -1);
    }
    // only assign once
    if (undefined == obj[key]) {
      obj[key] = tryDecode(val, dec);
    }
  }
  return obj;
}
```

Serialize data into a cookie header.

```javascript
function serialize(name, val, options) {
  var opt = options || {};
  var enc = opt.encode || encode;
  if (typeof enc !== 'function') {
    throw new TypeError('option encode is invalid');
  }
  if (!fieldContentRegExp.test(name)) {
    throw new TypeError('argument name is invalid');
  }
  var value = enc(val);
  if (value && !fieldContentRegExp.test(value)) {
    throw new TypeError('argument val is invalid');
  }
  var str = name + '=' + value;
  if (null != opt.maxAge) {
    var maxAge = opt.maxAge - 0;
    if (isNaN(maxAge) || !isFinite(maxAge)) {
      throw new TypeError('option maxAge is invalid');
    }
    str += '; Max-Age=' + Math.floor(maxAge);
  }
  if (opt.domain) {
    if (!fieldContentRegExp.test(opt.domain)) {
      throw new TypeError('option domain is invalid');
    }
    str += '; Domain=' + opt.domain;
  }
  if (opt.path) {
    if (!fieldContentRegExp.test(opt.path)) {
      throw new TypeError('option path is invalid');
    }
    str += '; Path=' + opt.path;
  }
  if (opt.expires) {
    if (typeof opt.expires.toUTCString !== 'function') {
      throw new TypeError('option expires is invalid');
    }
    str += '; Expires=' + opt.expires.toUTCString();
  }
  if (opt.httpOnly) {
    str += '; HttpOnly';
  }
  if (opt.secure) {
    str += '; Secure';
  }
  if (opt.sameSite) {
    var sameSite = typeof opt.sameSite === 'string'
      ? opt.sameSite.toLowerCase() : opt.sameSite;
    switch (sameSite) {
      case true:
        str += '; SameSite=Strict';
        break;
      case 'lax':
        str += '; SameSite=Lax';
        break;
      case 'strict':
        str += '; SameSite=Strict';
        break;
      default:
        throw new TypeError('option sameSite is invalid');
    }
  }
  return str;
}
```

```typescript
tryDecode(str, dec) {
  try {
    return dec(str);
  } catch (e) {
    return str;
  }
}
```
jurisdictions that recognize copyright laws, the author or authors of this software dedicate any and all copyright
interest in the software to the public domain. We make this dedication for the benefit of the public at large
and to the detriment of our heirs and successors. We intend this dedication to be an overt act of relinquishment
in perpetuity of all present and future rights to this software under copyright law. THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OF OR OTHER DEALINGS IN THE SOFTWARE.
optional callback function to be invoked once the scroll finished.

```javascript
/**
 * Scrolls to the center of an element.
 *
 * @param {elem} The element.
 * @param {duration} Optionally the duration of the scroll operation, in milliseconds. If
 *        not given, the default duration is used.
 * @param {offset} Optionally the offset of the top of the element from the center of the screen.
 *        A value of 0 is ignored.
 * @param {onDone} An optional callback function to be invoked once the scroll operation
 *        is done.
 */
var scrollToCenterOf = function (elem, duration, offset, onDone) {
  scrollToY(Math.max(0, container.getTopOf(elem) - container.getHeight()/2 + (offset || elem.getBoundingClientRect().height/2)), duration, onDone)
}
```

```javascript
/**
 * Changes default settings for this scroller.
 *
 * @param {defaultDuration} Optionally a new value for default duration, used for each
 *        scroll method by default. Ignored if null or undefined.
 * @param {edgeOffset} Optionally a new value for the edge offset, used by each scroll method by default. Ignored if null or undefined.
 * @returns An object with the current values.
 */
var setup = function (newDefaultDuration, newEdgeOffset) {
  if (newDefaultDuration !== 0) {
    defaultDuration = newDefaultDuration
  }
  if (newEdgeOffset !== 0) {
    edgeOffset = newEdgeOffset
  }
  return {
    defaultDuration: defaultDuration,
    edgeOffset: edgeOffset
  }
}
```

```javascript
return {
  setup: setup,
  to: scrollToElem,
  toY: scrollToY,
  intoView: scrollIntoView,
  center: scrollToCenterOf,
  stop: stopScroll,
  moving: function () { return !!scrollTimeoutId },
  getY: container.getY,
  getTopOf: container.getTopOf
}
```
RegExp("(^|\s)noZensmooth(\s|$)\")\n\n\n// This may not work on IE (or older computer?) as it requires more timeout, around 100 ms\n\n\nif (window.location.hash) {
    setTimeout(function () {
        // Adjustment is only needed if there is an edge offset:
        var edgeOffset = zenscroll.setup().edgeOffset
        if (edgeOffset)
            {
                var targetElem = document.getElementById(window.location.href.split("#")[1])
                var targetY = Math.max(0, zenscroll.getTopOf(targetElem) - edgeOffset)
                var diff = zenscroll.getY() - targetY
                // Only do the adjustment if the browser is very close to the element:
                if (0 <= diff && diff < 9) {
                    window.scrollTo(0, targetY)
                }
            }
    }, 9)
}

// Handling clicks on anchors
RE_noZensmooth = new RegExp("(^|\s)noZensmooth(\s|$)\")\nwindow.addEventListener("click", function (event) {
    var anchor = event.target
    while (anchor && anchor.tagName !== "A") {
        anchor = anchor.parentNode
    }
    // Let the browser handle the click if it wasn't with the primary button, or with some modifier keys:
    if (!anchor || event.which !== 1 || event.shiftKey || event.metaKey || event.ctrlKey || event.altKey) {
        return
    }
    // Save the current scrolling position so it can be used for scroll restoration:
    isScrollRestorationSupported = history.state && typeof history.state === "object" ? history.state.zenscrollY = zenscroll.getY()
    try {
        history.replaceState(historyState, "")
    } catch (e) {
        // Avoid the Chrome Security exception on file protocol, e.g., file://index.html
    }
    // Find the referenced ID:
    var href = anchor.getAttribute("href") || ""
    if (href.indexOf("#") === 0 && !RE_noZensmooth.test(anchor.className)) {
        var targetY = 0
        var targetElem = document.getElementById(href.substring(1))
        if (href !== "#") {
            if (!targetElem) {
                return
            }
            targetY = zenscroll.getTopOf(targetElem)
        }
        event.preventDefault()
        // By default trigger the browser's 'hashchange' event...
        var onDone = function () { window.location = href }
        // ...unless there is an edge offset specified
        if (edgeOffset) {
            targetY = Math.max(0, targetY - edgeOffset)
            if (isHistorySupported) {
                onDone = function () { history.pushState({}, "", href) }
            }
        }
        zenscroll.toY(targetY, null, onDone)
    }
}, false)

return zenscroll
}));
function isOpeningTag(str) {
  return isTag(str) && !isClosingTag(str) && !isSelfClosingTag(str);
};

module.exports = function isSelfClosingTag(str) {
  return (<[^>]+\/>).test(str)
};

var isOpeningTag = function isClosingTag = function isClosingTag(str) {
  return (<\[/+[^>]+]>).test(str)
};

var isSelfClosingTag = function splitOnTags = function splitOnTags(str) {
  return str.split(/(<\/?[^>]+>)/g).filter(function (line) {
    return line.trim() !== '';
  });
};

var isTag = function repeat = require('repeat-string');

var tempLink = document.createElement('a');

safari if pop up blocking not supported the HTML5 download attribute.
// This allows you to download files in desktop browser does not support the HTML5 download attribute.

// Safari thinks _blank anchor are pop ups. We only want to set _blank if the browser does not support the HTML5 download attribute.

// IE workaround for "HTML7007: One or more blob URLs were revoked by closing the blob for which they were created. 
// These URLs will no longer resolve as the data backing 
// the blob URL has been freed."
window.navigator.msSaveBlob(blob, filename);
else {
  var blobURL = window.URL.createObjectURL(blob);
  var tempLink = document.createElement('a');
  tempLink.href = blobURL;
  tempLink.setAttribute('download', filename);
  tempLink.style.display = 'none';
  tempLink.href = blobURL;
  tempLink.setAttribute('download', filename);

  // Safari thinks _blank anchor are pop ups. We only want to set _blank if 
  // target if the browser does not support the HTML5 download attribute.
  // This allows you to download files in desktop safari if pop up blocking not supported the HTML5 download attribute.
  // is enabled.
  if (typeof tempLink.download === 'undefined') {
    // IE workaround for "HTML7007: One or more blob URLs were revoked by closing
    // the blob URL has been freed."
    window.navigator.msSaveBlob(blob, filename);
  }
  else {
    var blobURL = window.URL.createObjectURL(blob);
    var tempLink = document.createElement('a');
    tempLink.href = blobURL;
    tempLink.setAttribute('download', filename);
    tempLink.style.display = 'none';
    module.exports = function(data, filename, mime) {
      var blob = new Blob([data], {type: mime || 'application/octet-stream'});
      if (typeof window.navigator.msSaveBlob !== 'undefined') {
        // IE workaround for "HTML7007: One or more blob URLs were revoked by closing
        // the blob URL has been freed."
        window.navigator.msSaveBlob(blob, filename);
      }
      else {
        var blobURL = window.URL.createObjectURL(blob);
        var tempLink = document.createElement('a');
        tempLink.href = blobURL;
        tempLink.setAttribute('download', filename);
        tempLink.style.display = 'none';
        module.exports = function(data, filename, mime) {
          var blob = new Blob([data], {type: mime || 'application/octet-stream'});
          if (typeof window.navigator.msSaveBlob !== 'undefined') {
            // IE workaround for "HTML7007: One or more blob URLs were revoked by closing
            // the blob URL has been freed."
            window.navigator.msSaveBlob(blob, filename);
          }
          else {
            var blobURL = window.URL.createObjectURL(blob);
          }
        }
    }
}
"use strict";

Object.defineProperty(exports, "__esModule", {
  value: true
});
exports.default = _default;
indentor = config.indentor,\n
textNodesOnSameLine = config.textNodesOnSameLine;\n\n var depth = 0;\n var
indicesToRemove = [];\n indentor = indentor || ' ';\n\n var rawResult = lexer(xml).map(function (element, i, arr)
{\n var value = element.value,\n
type = element.type;\n\n if (type === 'ClosingTag') {\n
depth--;\n
}\n\n var indentation = repeat(indentor, depth);\n var line = indentation + value;\n\n if (type ===
'OpeningTag') {\n
depth++;\n }\n\n if (textNodesOnSameLine) {\n
// Lookbehind for
[OpeningTag][Text][ClosingTag]\n
var oneBefore = arr[i - 1];\n
var twoBefore = arr[i - 2];\n\n
if (type
=== \"ClosingTag\" && oneBefore.type === \"Text\" && twoBefore.type === \"OpeningTag\") {\n
// collapse
into a single line\n
line = '' + indentation + twoBefore.value + oneBefore.value + value;\n
indicesToRemove.push(i - 2, i - 1);\n
}\n }\n\n return line;\n });\n\n indicesToRemove.forEach(function
(idx) {\n return rawResult[idx] = null;\n });\n\n return rawResult.filter(function (val) {\n return !!val;\n
}).join('\\n');\n};\n\nfunction lexer(xmlStr) {\n var values = splitOnTags(xmlStr);\n return values.map(function
(value) {\n return {\n
value: value,\n
type: getType(value)\n };\n });\n}\n\n// Helpers\n\nfunction
getType(str) {\n if (isClosingTag(str)) {\n return 'ClosingTag';\n }\n\n if (isOpeningTag(str)) {\n return
'OpeningTag';\n }\n\n if (isSelfClosingTag(str)) {\n return 'SelfClosingTag';\n }\n\n return 'Text';\n}","var
toString = require('./toString');\n\n/**\n * Converts `string`, as a whole, to lower case just like\n *
[String#toLowerCase](https://mdn.io/toLowerCase).\n *\n * @static\n * @memberOf _\n * @since 4.0.0\n *
@category String\n * @param {string} [string=''] The string to convert.\n * @returns {string} Returns the lower
cased string.\n * @example\n *\n * _.toLower('--Foo-Bar--');\n * // => '--foo-bar--'\n *\n * _.toLower('fooBar');\n *
// => 'foobar'\n *\n * _.toLower('__FOO_BAR__');\n * // => '__foo_bar__'\n */\nfunction toLower(value) {\n return
toString(value).toLowerCase();\n}\n\nmodule.exports = toLower;\n","// Promise global, Used ( at least ) by
'whatwg-fetch'. And required by IE 11\n\nimport win from \"core/window\"\n\nif(typeof win.Promise ===
\"undefined\") {\n require(\"core-js/fn/promise\")\n}\n\n// Required by IE 11\nif(!String.prototype.startsWith) {\n
omise');\nrequire('../modules/es7.promise.finally');\nrequire('../modules/es7.promise.try');\nmodule.exports =
require('../modules/_core').Promise;\n","'use strict';\n// 19.1.3.6 Object.prototype.toString()\nvar classof =
require('./_classof');\nvar test = {};\ntest[require('./_wks')('toStringTag')] = 'z';\nif (test + '' != '[object z]') {\n
require('./_redefine')(Object.prototype, 'toString', function toString() {\n return '[object ' + classof(this) + ']';\n },
true);\n}\n","module.exports = !require('./_descriptors') && !require('./_fails')(function () {\n return
Object.defineProperty(require('./_dom-create')('div'), 'a', { get: function () { return 7; } }).a != 7;\n});\n","// 7.1.1
ToPrimitive(input [, PreferredType])\nvar isObject = require('./_is-object');\n// instead of the ES6 spec version, we
didn't implement @@toPrimitive case\n// and the second argument - flag - preferred type is a
string\nmodule.exports = function (it, S) {\n if (!isObject(it)) return it;\n var fn, val;\n if (S && typeof (fn =
it.toString) == 'function' && !isObject(val = fn.call(it))) return val;\n if (typeof (fn = it.valueOf) == 'function' &&
!isObject(val = fn.call(it))) return val;\n if (!S && typeof (fn = it.toString) == 'function' && !isObject(val =
fn.call(it))) return val;\n throw TypeError(\"Can't convert object to primitive value\");\n};\n","module.exports =
require('./_shared')('native-function-to-string', Function.toString);\n","'use strict';\nvar create = require('./_objectcreate');\nvar descriptor = require('./_property-desc');\nvar setToStringTag = require('./_set-to-string-tag');\nvar
IteratorPrototype = {};\n\n// 25.1.2.1.1 %IteratorPrototype%[@@iterator]()\nrequire('./_hide')(IteratorPrototype,
require('./_wks')('iterator'), function () { return this; });\n\nmodule.exports = function (Constructor, NAME, next)
{\n Constructor.prototype = create(IteratorPrototype, { next: descriptor(1, next) });\n setToStringTag(Constructor,
NAME + ' Iterator');\n};\n","// 19.1.2.2 / 15.2.3.5 Object.create(O [, Properties])\nvar anObject = require('./_anobject');\nvar dPs = require('./_object-dps');\nvar enumBugKeys = require('./_enum-bug-keys');\nvar IE_PROTO =
require('./_shared-key')('IE_PROTO');\nvar Empty = function () { /* empty */ };\nvar PROTOTYPE =
'prototype';\n\n// Create object with fake `null` prototype: use iframe Object with cleared prototype\nvar createDict
= function () {\n // Thrash, waste and sodomy: IE GC bug\n var iframe = require('./_dom-create')('iframe');\n var i
= enumBugKeys.length;\n var lt = '<';\n var gt = '>';\n var iframeDocument;\n iframe.style.display = 'none';\n

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Array.prototype[[@@iterator]] = function (options)

   3. If IsCallable(options) is false, throw a TypeError exception.

   4. Let iterator be ToObject(options).

   5. Let method be (if iterator is an array, then 'values', otherwise 'keys').

   6. Let locals be ArrayCreate(0).

   7. Let self be ToObject(iterator).

   8. If self is undefined, throw a TypeError exception.

   9. Let locals.length be 9.

   10. Set locals[0] to options.


   15. If method is 'keys', set locals[4] to 0.


   22. Return CreateDataPropertyNamesLocals(locals).

   23. Return createForOf(locals, iterator, locals[0], locals[1], locals[2], locals[3], locals[4], locals[5], locals[6], locals[7], locals[8], locals[9], locals[10]).
function () {
    var value = promise._v;
    var unhandled = isUnhandled(promise);
    var result, handler, console;
    if (unhandled) {
      result = perform(function () {
        if (isNode) {
          process.emit('unhandledRejection', value, promise);
        } else if (handler = global.onunhandledrejection) {
          handler({ promise: promise, reason: value });
        } else if ((console = global.console) && console.error) {
          console.error('Unhandled promise rejection', value);
        }
      });
      // Browsers should not trigger `rejectionHandled` event if it was handled here. NodeJS - should only
      promise._h = isNode || isUnhandled(promise) ? 2 : 1;
      promise._a = undefined;
      if (unhandled && result.e) throw result.v;
    }
    promise._a = undefined;
    if (unhandled) {
      result = perform(function () {
        if (isNode) {
          process.emit('unhandledRejection', value, promise);
        } else if (handler = global.onunhandledrejection) {
          handler({ promise: promise, reason: value });
        } else if ((console = global.console) && console.error) {
          console.error('Unhandled promise rejection', value);
        }
      });
      // Browsers should not trigger
      promise._h = isNode || isUnhandled(promise) ? 2 : 1;
      promise._a = undefined;
    }
    promise._s = 2;
    if (!promise._a) promise._a = promise._c.slice();
    notify(promise, true);
    $resolve = function (value) {
      var promise = this;
      var then;
      if (promise._d) return;
      promise._d = true;
      promise = promise._w || promise; // unwrap
      promise._v = value;
      promise._s = 1;
      notify(promise, false);
    }
    $reject = function (value) {
      var promise = this;
      var reaction = newPromiseCapability(speciesConstructor(this, $Promise));
      var $$reject = reaction.reject;
      $$reject(value);
      return reaction.promise;
    }
  });

  // constructor polyfill
  if (!USE_NATIVE) {
    // 25.4.3.1 Promise(executor)
    $Promise = function Promise(executor) {
      anInstance(this, $Promise, PROMISE, '_h');
      aFunction(executor);
      Internal.call(this);
      try {
        executor(ctx($resolve, this, 1), ctx($reject, this, 1));
      } catch (err) {
        $reject.call(this, err);
      }
    };
    Internal = function Promise(executor) {
      this._c = []; // <- awaiting reactions
      this._a = undefined; // <- checked in isUnhandled reactions
      this._s = 0; // <- state
      this._d = false; // <- done
      this._v = undefined; // <- value
      this._h = 0; // <- rejection state, 0 - default, 1 - handled, 2 - unhandled
      this._n = false; // <- notify
    };
    Internal.prototype = require('./_redefine-all')($Promise.prototype, {
      // 25.4.5.3 Promise.prototype.then(onFulfilled, onRejected)
      then: function then(onFulfilled, onRejected) {
        var capability = newPromiseCapability(this);
        var resolve = capability.resolve;
        var reject = capability.reject;
        var result = perform(function () {
          var values = []; // <- microtask
          forOf(iterable, false, (value, index, array) => {
            this._c.push(reaction);
            if (this._a) this._a.push(reaction);
            if (this._s) notify(this, false);
            return reaction.promise;
          })
        });
        $resolve.call(this, result);
        return capability.promise;
      },
      // 25.4.5.1 Promise.prototype.catch(onRejected)
      'catch': function (onRejected) {
        return promiseResolve(LIBRARY && this === Wrapper ? $Promise : this, onRejected);
      }
    });
    Promise.prototype.catch(onRejected) = function (onRejected) {
      return this.then(undef

function (promise) {
  var Sindex = index++;
  var alreadyCalled = false;
  values.push(undefined);
  remaining++;
  C.resolve(promise).then(function (value) {
    if (alreadyCalled) return;
  }, reject);
  alreadyCalled = true;
  values[Sindex] = value;
  --remaining || resolve(values);
}
if (result.e) reject(result.v);
return capability.promise;
}

// 25.4.4 Promise.race(iterable)
race: function race(iterable) {
  var C = this;
  var capability = newPromiseCapability(C);
  var reject = capability.reject;
  var result = perform(function () {
    forOf(iterable, false, function (promise) {
      C.resolve(promise).then(capability.resolve, reject);
    });
    if (result.e) reject(result.v);
    return capability.promise;
  }, function (promise) {
    reject = capability.reject;
    var result = perform(function () {
      forOf(iterable, true, function (promise) {
        capability.resolve(promise);
      }, reject);
      if (result.e) reject(result.v);
      return capability.promise;
    }, resolve);
    return result;
  });
  if (!result.e) return promise(race: function race(iterable) {
    var capability = newPromiseCapability(RUN);
    var BREAK = [];
    var RETURN = [];
    var exports = module.exports = function (iterable, entries, fn, that, ITERATOR) {
      var iterFn = ITERATOR ? function () {
        return iterable;
      } : getIterFn(iterable);
      var f = it
call(ctor, arguments);
      if (result === BREAK || result === RETURN) return result;
    },
    exports.BREAK = BREAK;
    exports.RETURN = RETURN;
    exports.exports = module.exports = function (iterable, entries, fn, that, ITERATOR) {
      var iterFn = ITERATOR ? function () {
        return iterable;
      } : getIterFn(iterable);
      ...
disable-next-line no-self-compare
        if (value !== value) return true; // Array#indexOf ignores holes,
Array#includes - not else for (length > index; index+++) if (IS_INCLUDES || index in O) { var
        in O) { var i = toInteger(+/\n        return IS_INCLUDES || index in O) { var i = toInteger(+/\n        return IS_INCLUDES || index in O) { var i = toInteger(+/\n        return IS_INCLUDES || index in O) { var i = toInteger(+/\n        return IS_INCLUDES || index in O) { var i = toInteger(+/\n        return IS_INCLUDES || index in O) { var i = toInteger(+/\n        return IS_INCLUDES || index in O) { var i = toInteger(+/\n        return IS_INCLUDES || index in O) { var i = toInteger(+/\n        return IS_INCLUDES || index in O) { var i = toInteger(+/\n        return IS_INCLUDES || index in O) { var i = toInteger(+/\n        return IS_INCLUDES || index in O) { var i = toInteger(+/\n        return IS_INCLUDES || index in O) { var i = toInteger(+/\n        return IS_INCLUDES || index in O) { var i = toInteger(+/\n        return IS_INCLUDES || index in O) { var i = toInteger(+/\n        return IS_INCLUDES || index in O) { var i = toInteger(+/\n        return IS_INCLUDES || index in 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forEachFunc(child, index) will be called for each leaf child.

```javascript
forEachFunc(child, index) will be called for each leaf child.
```
object. In each of these, `this` refers to `null` *the Class itself, not an instance*. If any others are needed, simply add them *here, or in their own files.*

```javascript
function oneArgumentPooler(copyFieldsFrom) {
  var Klass = this;
  if (Klass.instancePool.length) {
    var instance = Klass.instancePool.pop();
    Klass.call(instance, copyFieldsFrom);
    return instance;
  } else {
    return new Klass(copyFieldsFrom);
  }
}

function twoArgumentPooler(a1, a2) {
  var Klass = this;
  if (Klass.instancePool.length) {
    var instance = Klass.instancePool.pop();
    Klass.call(instance, a1, a2);
    return instance;
  } else {
    return new Klass(a1, a2);
  }
}

function threeArgumentPooler(a1, a2, a3) {
  var Klass = this;
  if (Klass.instancePool.length) {
    var instance = Klass.instancePool.pop();
    Klass.call(instance, a1, a2, a3);
    return instance;
  } else {
    return new Klass(a1, a2, a3);
  }
}

function fourArgumentPooler(a1, a2, a3, a4) {
  var Klass = this;
  if (Klass.instancePool.length) {
    var instance = Klass.instancePool.pop();
    Klass.call(instance, a1, a2, a3, a4);
    return instance;
  } else {
    return new Klass(a1, a2, a3, a4);
  }
}

function standardReleaser(instance) {
  var Klass = this;
  !(instance instanceof Klass) ?
    process.env.NODE_ENV !== 'production' ? invariant(false, 'Trying to release an instance into a pool of a different type.') : _prodInvariant('25') : void 0;
  instance.destructor();
  if (Klass.instancePool.length < Klass.poolSize) {
    Klass.instancePool.push(instance);
  }
}

var DEFAULT_POOL_SIZE = 10;
var DEFAULT_POOLER = oneArgumentPooler;

/**
 * Augments `CopyConstructor` to be a poolable class, augmenting only the class itself (statically) not adding any prototypal fields. Any CopyConstructor *you* give this may have a `'poolSize'` property, and will look for `null` *prototypal` destructor` on instances.

 * @param {Function} CopyConstructor Constructor that can be used to reset.
 * @param {Function} pooler Customizable pooler.
 * @return {Function}
 */
function addPoolingTo(CopyConstructor, pooler) {
  var NewKlass = CopyConstructor;
  NewKlass.instancePool = [];
  NewKlass.getPooled = pooler || DEFAULT_POOLER;
  if (!NewKlass.poolSize) {
    NewKlass.poolSize = DEFAULT_POOL_SIZE;
  }
  NewKlass.release = standardReleaser;
  return NewKlass;
}

var PooledClass = {
  addPoolingTo: addPoolingTo,
  oneArgumentPooler: oneArgumentPooler,
  twoArgumentPooler: twoArgumentPooler,
  threeArgumentPooler: threeArgumentPooler,
  fourArgumentPooler: fourArgumentPooler
};

module.exports = PooledClass;
```

---

```javascript
/**
 * Copyright (c) 2013-present, Facebook, Inc.
 * 
 * This source code is licensed under the MIT license found in
 * the LICENSE file in the root directory of this source tree.
 * 
 */

'use strict';

var ReactCurrentOwner = require('./ReactCurrentOwner');
var REACT_ELEMENT_TYPE = require('./ReactElementSymbol');
var getIteratorFn = require('./getIteratorFn');
var invariant = require('fbjs/lib/invariant');
var KeyEscapeUtils = require('./KeyEscapeUtils');
var warning = require('fbjs/lib/warning');

var SEPARATOR = '.';
var SUBSEPARATOR = ':';

/**
 * TODO: Test that a single child and an array
 * with one item have the same key pattern.
 */

var didWarnAboutMaps = false;

/**
 * Generate a key string that identifies a component within a set.
 *
 * @param {*} component A component that could contain a
 * manual key.
 * @param {number} index Index that is used if a manual key is not provided.
 * @return {string}
 */
function getComponentKey(component, index) {
  // Do some typechecking here since we call this blindly. We
  // want to ensure `null` *don't block potential future ES APIs.*
  if (component & & typeof component === 'object' & & component.key !== null) {
    // Explicit key
    return KeyEscapeUtils.escape(component.key);
  }
  // Implicit key determined by the index in the set
  return index.toString(36);
}

/**
 * @param {?*} children
 * @param {!string} nameSoFar Name of the key path so far
 * @param {!function} callback Callback to invoke with each child found.
 * @param {?*} traverseContext Used to pass information throughout
 * the traversal process.
 * @return {!number} The number of children in this subtree.
 */
function traverseAllChildrenImpl(children, nameSoFar, callback, traverseContext) {
  var type = typeof children;
  if (type === 'undefined' || type === 'boolean') {
    children = null;
  }
  if (children === null || type === 'string' || type === 'number') {
    return callback(null, children, nameSoFar, callback, traverseContext);
  }
  if (Array.isArray(children)) {
    for (var i = 0; i < children.length; i++) {
      traverseAllChildrenImpl(children[i], nameSoFar + SEPARATOR + i, callback, traverseContext);
    }
  } else {
    // The following is inlined from ReactElement. This means we can optimize
    // some checks. React Fiber also inlines this logic for similar
```
purposes.

```
 purposes.
 type === 'object' && children.$typeof === REACT_ELEMENT_TYPE) {
 callback(traverseContext, children, \n // If it's the only child, treat the name as if it was wrapped in an array
 // so that it's consistent if the number of children grows.
 nameSoFar === '' ? SEPARATOR +
 getComponentKey(child, 0) : nameSoFar); \n return 1; \n } \n var child; \n var nextName; \n var subtreeCount = 0; \n // Count of children found in the current subtree.
 var nextNamePrefix = nameSoFar === '' ? SEPARATOR +
 nameSoFar + SUBSEPARATOR; \n if (Array.isArray(children)) {
 \n for (var i = 0; i < children.length; i++) {
 \n child = children[i]; \n nextName = nextNamePrefix + getComponentKey(child, i); \n subtreeCount +=
 traverseAllChildrenImpl(child, nextName, callback, traverseContext); \n } \n } else {
 \n var iterFn =
 getIterFn(children); \n if (iterFn) {
 \n for (var \n iter = \n iterFn.call(children); \n \n iter \n \n step; \n \n \n step) {
 \n \n child = nextNamePrefix + getComponentKey(child, i); \n subtreeCount +=
 traverseAllChildrenImpl(child, nextName, callback, traverseContext); \n } \n } else {
 \n if (process.env.NODE_ENV !== 'production') {
 \n var mapsAsChildrenAddendum = ''; \n if (ReactCurrentOwner.current) {
 \n ReactCurrentOwner.current.getName(); \n \n if (mapsAsChildrenAddendum)
 \n process.env.NODE_ENV !== 'production' ? warning(didWarnAboutMaps, 'Using Maps as children is not yet fully supported. It is an '+' experimental feature that might be removed. Convert it to a '+' sequence / iterable of
 keyed ReactElements instead.%s', mapsAsChildrenAddendum) : void 0; \n \n process.env.NODE_ENV !== 'production' ? invariant(false, 'Objects are not valid as a React child (found: %s).%s',
 \n Object.keys(children).join(', ') + ' from the '+' React add-ons.%s' + 'object createFragment(object) from the ' + 'React add-ons.';
 \n if (children._isReactElement) {
 \n addendum = " It looks like you're using an element created by a different" + ' + version of React. Make sure to use only one copy of
 React.%s' + 
 \n ReactCurrentOwner.current.getName(); \n \n if (name) {
 \n addendum += ' Check the render method of `'+name+'`.\n ' + 
 \n process.env.NODE_ENV !== 'production' ? invariant(false, 'Objects are not valid as a React child (found: %s),%s',
 \n 'childrenString === [object Object] ? 'object Object' : 'object keys [' + Object.keys(children).join(',') + ']').join(', '); \n 'childrenString !== [object Object] ? 'object Object' : 'object keys [' + Object.keys(children).join(',') + ']').join(', '); \n 'childrenString, addendum) : void 0; \n \n return subtreeCount; \n } \n } \n \n } \n \n } \n \n } \n \n if (ReactCurrentOwner.current) {
 \n \n if (mapsAsChildrenAddendum) {
 \n \n if (name) {
 \n addendum += ' Check the render method of `'+name+'`.\n ' + 
 \n process.env.NODE_ENV !== 'production' ? invariant(false, 'Objects are not valid as a React child (found: %s),%s',
 \n 'childrenString === [object Object] ? 'object Object' : 'object keys [' + Object.keys(children).join(',') + ']').join(', '); \n 'childrenString !== [object Object] ? 'object Object' : 'object keys [' + Object.keys(children).join(',') + ']').join(', '); \n 'childrenString, addendum) : void 0; \n \n return subtreeCount; \n } \n } \n \n \n return traverseAllChildren(children, callback, traverseContext); \n } \n \n if (children == null) {
 \n \n \n return traverseAllChildrenImpl(children, '', callback,
 traverseContext); \n \n \n module.exports = traverseAllChildren;\n /*\n * Copyright (c) 2013-present, Facebook, Inc.
 * All rights reserved.
 */

```
var iterator = iteratorFn.call(myIterable);
    ...
    }]
    return iteratorFn;
}

function getIteratorFn(maybeIterable) {
  var iteratorFn = maybeIterable &&
    (ITERATOR_SYMBOL && maybeIterable[ITERATOR_SYMBOL] ||
    maybeIterable[FAUX_ITERATOR_SYMBOL]);
  if (typeof iteratorFn === 'function') {
    return iteratorFn;
  }
  var escapedLookups = { 
    '=': ':=0',
    ':': ':2'
  };
  var escapedString = ('+' + key).replace(escapeRegExp, function (match) {
    return escapedLookups[match];
  });
  return escapedString;
}

module.exports = getIteratorFn;
createDOMFactory('picture'),
  pre: createDOMFactory('pre'),
  progress: createDOMFactory('progress'),
  q: createDOMFactory('q'),
  rp: createDOMFactory('rp'),
  rt: createDOMFactory('rt'),
  ruby: createDOMFactory('ruby'),
  s: createDOMFactory('s'),
  samp: createDOMFactory('samp'),
  script: createDOMFactory('script'),
  section: createDOMFactory('section'),
  select: createDOMFactory('select'),
  small: createDOMFactory('small'),
  source: createDOMFactory('source'),
  span: createDOMFactory('span'),
  strong: createDOMFactory('strong'),
  style: createDOMFactory('style'),
  sub: createDOMFactory('sub'),
  summary: createDOMFactory('summary'),
  sup: createDOMFactory('sup'),
  table: createDOMFactory('table'),
  tbody: createDOMFactory('tbody'),
  td: createDOMFactory('td'),
  textarea: createDOMFactory('textarea'),
  tfoot: createDOMFactory('tfoot'),
  th: createDOMFactory('th'),
  thead: createDOMFactory('thead'),
  time: createDOMFactory('time'),
  title: createDOMFactory('title'),
  tr: createDOMFactory('tr'),
  track: createDOMFactory('track'),
  u: createDOMFactory('u'),
  ul: createDOMFactory('ul'),
  'var': createDOMFactory('var'),
  video: createDOMFactory('video'),
  wbr: createDOMFactory('wbr'),
  // SVG
  circle: createDOMFactory('circle'),
  clipPath: createDOMFactory('clipPath'),
  defs: createDOMFactory('defs'),
  ellipse: createDOMFactory('ellipse'),
  g: createDOMFactory('g'),
  image: createDOMFactory('image'),
  line: createDOMFactory('line'),
  linearGradient: createDOMFactory('linearGradient'),
  mask: createDOMFactory('mask'),
  path: createDOMFactory('path'),
  pattern: createDOMFactory('pattern'),
  polygon: createDOMFactory('polygon'),
  polyline: createDOMFactory('polyline'),
  radialGradient: createDOMFactory('radialGradient'),
  rect: createDOMFactory('rect'),
  stop: createDOMFactory('stop'),
  svg: createDOMFactory('svg'),
  text: createDOMFactory('text'),
  tspan: createDOMFactory('tspan'),
}

module.exports = ReactDOMFactories;

/**
 * Copyright (c) 2013-present,
 * Facebook, Inc.
 *
 * This source code is licensed under the MIT license found in the
 * LICENSE file in the root directory of this source tree.
 */

'use strict';

var _require = require('./ReactElement'),
    isValidElement = _require.isValidElement;

var factory = require('prop-types/factory');

module.exports = factory(isValidElement);
array|bool|func|object|number|string|oneOf([...])|instanceOf(...)
   *   decl :=
   ReactPropTypes.{type}(.isRequired)?
   *
   * Each and every declaration produces a function with the same
   signature. This
   * allows the creation of custom validation functions. For example:
   *
   *  var MyLink =
   React.createClass({
   *    propTypes: {
   *      // An optional string or URI prop named "href".
   *      href:
   function(props, propName, componentName) {
   *        var propValue = props[propName];
   *        if (propValue != null && typeof propValue === 'string')
   *          return new Error
   *            ('Expected a string or an URI for ' + propName + ' in ' +
   *              componentName
   *            .
   *        }
   *      }
   *    },
   *    render: function() {...}
   *  });
   *
   * @internal
   */

  var
ANONYMOUS = '<<anonymous>>';

  // Important!
  // Keep this list in sync with production version in
`./factoryWithThrowingShims.js`.
  var ReactPropTypes = {
    array: createPrimitiveTypeChecker('array'),
    bool: createPrimitiveTypeChecker('boolean'),
    func: createPrimitiveTypeChecker('function'),
    number: createPrimitiveTypeChecker('number'),
    object: createPrimitiveTypeChecker('object'),
    string: createPrimitiveTypeChecker('string'),
  }

  /**
   * inlined Object.is polyfill to avoid requiring consumers ship their
   * own
   */
  function is(x, y) {
    // SameValue algorithm
    if (x === y) {
      // Steps
      // 1-5, 7-10
      // Steps 6.b-6.e: +0 != -0
      return x !== 0 || 1 / x === 1 / y;
    } else {
      // Step 6.a: NaN
      return x !== x && y !== y;
    }
  }

  /**
   * We use an Error-like object for backward compatibility as people may call
   * PropTypes directly and inspect their output.
   */
  function PropTypeError(message) {
    this.message = message;
    this.stack = null;
  }

  function createChainableTypeChecker(validate) {
    if (process.env.NODE_ENV !== 'production') {
      var manualPropTypeCallCache = {};
      var manualPropTypeWarningCount = 0;
    }
    function checkType(isRequired, props, propName, componentName, location, propFullName, secret) {
      componentName = componentName || ANONYMOUS;
      propFullName = propFullName || propName;
      if (secret !== ReactPropTypesSecret) {
        if (throwOnDirectAccess) {
          // New behavior only for users of
          // React.PropTypes
          var err = new Error(
            'Calling PropTypes validators directly is not supported by
            the `prop-types` package. ' +
            'Use `PropTypes.checkPropTypes()` to call them. ' +
            'Read more at http://fb.me/use-check-prop-types
          );
          err.name = 'Invariant Violation';
          throw err;
        } else
          if (process.env.NODE_ENV !== 'production') {
            var cacheKey = componentName + ':' + propName;
            if (!manualPropTypeCallCache[cacheKey] && manualPropTypeWarningCount < 3)
              printWarning(
                'You are manually calling a React.PropTypes validation ' +
                'function for the `' + propFullName + '`` in `' +
                componentName + '``. This is deprecated ' +
                'and will throw in the standalone `prop-types` package.' +
              );
            manualPropTypeCallCache[cacheKey] = true;
            manualPropTypeWarningCount++;
          }
        }
      }
      if (props[propName] == null) {
        if (isRequired) {
          if (props[propName] === null) {
            return new PropTypeError('The ' + location + ' `' + propFullName + '`` is required ' +
              'in `' + componentName + '``, but its value is `null`.');}
          return new PropTypeError('The ' + location + ' `' + propFullName + '`` is required in ' +
            `' + componentName + '``, but its value is `undefined`.'));
        }
      }
      if (typeof validate === 'function') {
        var error = validate(props, propName, componentName);
        if (error instanceof Error) {
          return error;
        }
      }
      if (typeof validate === 'object') {
        var message =
          'You are manually calling a React.PropTypes validation ' +
          'function for the `' + propFullName + '`` in `' +
          componentName + '``.
        if (process.env.NODE_ENV !== 'production') {
          if (isRequired) {
            message += '
          return new PropTypeError('The ' + location + ' `' + propFullName + '`` is marked as required ' +
            '+ ("" + componentName + ", but its value is `null`)');
        }
      }
    }
  }

  module.exports = ReactPropTypes;
function isSymbol(propType, propValue) {
    // Native Symbol.
    if (propType === 'symbol') {
        return true;
    }
    // Fallback for non-spec compliant Symbols which are polyfilled.
    if (propValue instanceof Symbol) {
        return true;
    }
    // Equivalent of 'typeof' but with special handling for array and regexp.
    function getPropType(propValue) {
        var propType = typeof propValue;
    if (Array.isArray(propValue)) {
            return 'array';
        }
        if (propValue instanceof RegExp) {
            return 'regexp';
        }
        if (isSymbol(propType, propValue)) {
            return 'symbol';
        }
        return propType;
    }
    // Returns a string that is postfixed to a warning about an invalid type.
    function getPostfixForTypeWarning(value) {
        var type = getPreciseType(value);
        switch (type) {
            case 'array':
            case 'object':
                return 'an ' + type;
            case 'boolean':
            case 'date':
            case 'regexp':
                return 'a ' + type;
            default:
                return type;
        }
    }
    // Returns class name of the object, if any.
    function getClassName(propValue) {
        if (!propValue.constructor || !propValue.constructor.name) {
            return ANONYMOUS;
        }
        return propValue.constructor.name;
    }
    ReactPropTypes.checkPropTypes = checkPropTypes;
    ReactPropTypes.resetWarningCache = checkPropTypes.resetWarningCache;
    ReactPropTypes.PropTypes = ReactPropTypes;
    return ReactPropTypes;
}
require('fbjs/lib/emptyObject');

var _invariant = require('fbjs/lib/invariant');

if (process.env.NODE_ENV !== 'production') {
  var warning = require('fbjs/lib/warning');
}

var MIXINS_KEY = 'mixins';

if (process.env.NODE_ENV !== 'production') {
  var ReactPropTypeLocationNames = {
  prop: 'prop',
  context: 'context',
  childContext: 'child context'
};
}

function toAllowComponentMixer(fn) {
  return fn;
}

var ReactPropTypeLocationNames;
if (process.env.NODE_ENV !== 'production') {
  ReactPropTypeLocationNames = {
    prop: 'prop',
    context: 'context',
    childContext: 'child context'
  };
} else {
  ReactPropTypeLocationNames = {};
}

function factory(ReactComponent, isValidElement, ReactNoopUpdateQueue) {

  /**
   * @interface ReactClassInterface
   */

  var injectedMixins = [];
transition may cause a state change, but the opposite is not true. If you need it, you are probably looking for `componentWillUpdate`.

*param {object} nextProps *optional

*param {object} nextState

*optional

This method is invoked before a component receives new props, state and/or context. Use this as an opportunity to return false when you’re certain that the transition to the new props/state/context will not require a component update.

*param {object} nextContext

*optional

ShouldComponentUpdate: function(nextProps, nextState, nextContext) {

*return isEqual(nextProps, this.props) || isEqual(nextState, this.state) || isEqual(nextContext, this.context)

*param {object} nextProps

*param {object} nextState

*optional

Invoked when the component is about to update due to a transition from this.props, this.state and this.context to nextProps, nextState and nextContext. Use this as an opportunity to perform preparation before an update occurs.

NOTE: You cannot use `this.setState()` in this method.

@optional

UPDATE: 'DEFINE_MANY_MERGED'

* return isEqual(nextProps, this.props) || isEqual(nextState, this.state) || isEqual(nextContext, this.context)

*param {object} nextProps

*param {object} nextState

*optional

Invoked when the component’s DOM representation has been updated and `useEffect` has been called. Use this as an opportunity to operate on the DOM when the component has been updated.

@optional

componentWillUnmount

*param {object} prevProps

*param {object} prevState

*param {object} prevContext

DOMElement root DOM element representing the component.

FUNCTION: 'DEFINE_MANY',

*optional

Invoked when the component is about to be removed from its parent and has a DOM representation.

*optional

by default, this implements React's rendering and reconciliation algorithm. Sophisticated clients may wish to override this method.

*param {ReactReconcileTransaction} transaction

*optional

UNSAFE_componentWillMount: 'DEFINE_MANY',

*optional

Invoked after a component is instantiated and when it receives new props. Returns true to force an update.

@optional

UNSAFE_componentWillReceiveProps: 'DEFINE_MANY',

@optional

UNSAFE_componentWillUpdate: 'DEFINE_MANY',

@optional

UNSAFE_componentWillUpdate: 'DEFINE_MANY',

*optional

Invoked after an updated DOM representation has been rendered.

*optional

Similar to ReactClassInterface but for static methods.

var ReactClassStaticInterface = {

*optional

getDerivedStateFromProps: 'DEFINE_MANY_MERGED',

*optional

Mapping from class specification keys to special processing functions.

*optional

Although these are declared like instance properties in the specification when defining classes using `React.createClass`, they are actually static and are accessible on the constructor instead of the prototype. Despite being static, they must be defined outside of the statics key under which all other static methods are defined.

var RESERVED_SPEC.Keys = {

displayName: function(Constructor, displayName) {

Constructor.displayName = displayName;

mixins: function(Constructor, mixins) {

if (mixins) {

for (var i = 0; i < mixins.length; i++) {

mixSpecIntoComponent(Constructor, mixins[i]);

}

childContextTypes: function(Constructor, childContextTypes) {

if (process.env.NODE_ENV !== 'production') {

validateTypeDef(Constructor, childContextTypes, 'childContextTypes');

}

Constructor.childContextTypes = _assign(Constructor, childContextTypes);

}

Constructor.contextTypes = _assign(Constructor, contextTypes);

}

constructorTypes: function(Constructor, contextTypes) {

if (process.env.NODE_ENV !== 'production') {

validateTypeDef(Constructor, contextTypes, 'contextTypes');

}

Constructor.contextTypes = _assign(Constructor, contextTypes);

}

constructorTypes: function(Constructor, contextTypes) {

if (process.env.NODE_ENV !== 'production') {

validateTypeDef(Constructor, contextTypes, 'contextTypes');

}

Constructor.contextTypes = _assign(Constructor, contextTypes);

}
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**Constructor.contextTypes,**

```
        contextTypes
      );
``` 

```
    /**
     * Special case getDefaultProps which should move into statics but requires automatic merging.
     */
    getDefaultProps: function(Constructor, propTypes, propTypes) {
      Constructor.getDefaultProps = function(Constructor, getDefaultProps, propTypes) {
        if (Constructor.getDefaultProps) {
          Constructor.getDefaultProps = createMergedResultFunction(Constructor, getDefaultProps, propTypes);
        } else {
          Constructor.getDefaultProps = getDefaultProps;
        }
      },
      propTypes: function(Constructor, propTypes) {
        if (process.env.NODE_ENV !== 'production') {
          var propType = (typeof propTypes === 'object') && propTypes;
        }
        Constructor.propTypes = _assign({}, Constructor.propTypes, propTypes);
      },
      statics:
```

```
    function(validateTypeDef(Constructor, propTypes, location) {
      for (var propName in propTypes) {
        if (propTypes.hasOwnProperty(propName)) {
          // use a warning instead of an _invariant so components don't show up in prod but only in __DEV__
          if (process.env.NODE_ENV !== 'production') {
            warning(
              typeof propTypes[propName] === 'function',
              '%s: %s type `%s` is invalid; it must be a function, usually from React.PropTypes.' +
              'Expected object but got %s.',
              Constructor.displayName || 'ReactClass',
              ReactPropTypeLocationNames[location],
              propName,
              typeof propTypes[propName],
            );
``` 

```
      }
    },
    autobind:
```

```
    function() {}
  };

  function validateMethodOverride(isAlreadyDefined, name) {
    var specPolicy = ReactClassInterface.hasOwnProperty(name) ? ReactClassInterface[name] : null;
    if (ReactClassInterface.hasOwnProperty(name)) {
      _invariant(specPolicy === 'OVERRIDE_BASE', 'ReactClassInterface: You are attempting to override `%s` from your component more than once. This conflict may be due to `+\n' ReactPropType_types, name);}
    else {
      if (isAlreadyDefined) {
        _invariant(specPolicy === 'DEFINE_MANY' || specPolicy === 'DEFINE_MANY_MERGED', 'ReactClassInterface: You are attempting to define `%s` on your component more than once. This conflict may be due to `+\n' ReactPropType_types, name);}
    }

    proto = Constructor.prototype;
    autoBindPairs = proto.__reactAutoBindPairs;

    for (name in spec) {
      if (spec.hasOwnProperty(name)) {
        var prop = spec[name];
        var isAlreadyDefined = proto.hasOwnProperty(name);

        if (isAlreadyDefined) {
          _invariant(propType === 'function', 'ReactClass: You're attempting to use a component or function as a mixin. Instead, just use a regular object.
``` 

```
      else {
        // Setup methods on prototype:
        // 1. Expected ReactClass methods (in the "interface").
        // 2. Overridden methods that were mixed in.
        // 3. Methods defined after once explicitly allowed.
        if (isAlreadyDefined) {
          _invariant(specPolicy === 'DEFINE_MANY' || specPolicy === 'DEFINE_MANY_MERGED', 'ReactClass: You're attempting to include a mixin that is either null or not an object. Check the mixins included by the component. `+\n' ReactPropType_types, name);}
          if (isAlreadyDefined) {
            _invariant(specPolicy === 'OVERRIDE_BASE', 'ReactClassInterface: You are attempting to override `%s` from your component more than once. This conflict may be due to `+\n' ReactPropType_types, name);}
          else {
            _invariant(specPolicy === 'DEFINE_MANY' || specPolicy === 'DEFINE_MANY_MERGED', 'ReactClass: You’re attempting to include a mixin that is either null or not an object. Check the mixins included by the component. `+\n' ReactPropType_types, name);}
``` 

```
if (isAlreadyDefined) {
  var specPolicy = ReactClassInterface[name];
  // These cases should already be caught by validateMethodOverride.
  _invariant(specPolicy === 'DEFINE_MANY_MERGED', isReactClassMethod &&
    (specPolicy === 'DEFINE_MANY_MERGED' || specPolicy === 'DEFINE_MANY'),
    'ReactClass: Unexpected spec policy %s for key %s WHEN mixing in component specs.', name,
    specPolicy,
    // For methods which are defined more than once, call the existing
    // methods before calling the new property, merging if appropriate.
    if (specPolicy === 'DEFINE_MANY_MERGED') {
      proto[name] = createMergedResultFunction(proto[name], property);
    } else if (specPolicy === 'DEFINE_MANY') {
      proto[name] = property;
    } else {
      proto[name] = property;
    }
  }
}

  function mixStaticSpecIntoComponent(Constructor, statics) {
    if (!statics) {
      return;
    }

    for (var name in statics) {
      var property = statics[name];
      if (!statics.hasOwnProperty(name)) {
        continue;
      }

      var isReserved = name in RESERVED_SPEC_KEYS;
      _invariant(!isReserved,
        'ReactClass: You are attempting to define a reserved property, `%s`, that should not be on the "statics" key. Define it as an instance property instead; it will still be accessible on the constructor.', name
      );

      var isAlreadyDefined = name in Constructor;
      if (isAlreadyDefined)
        return;

      Constructor[name] = createMergedResultFunction(Constructor[name], property);
    }
  }

  /**
   * Merge two objects, but throw if both contain the same key.
   * @param {object} one The first object, which is mutated.
   * @param {object} two The second object
   * @return {object} One after it has been mutated to contain everything in two.
   */
  function mergeIntoWithNoDuplicateKeys(one, two) {
    _invariant(one && two && typeof one === 'object' &&
      typeof two === 'object',
      'mergeIntoWithNoDuplicateKeys(): Cannot merge non-objects.'
    );

    for (var key in two) {
      if (two.hasOwnProperty(key)) {
        _invariant(one[key] === undefined,
          'mergeIntoWithNoDuplicateKeys(): Tried to merge two objects with the same key: `%s`. This conflict may be due to a mixin; in particular, this may be caused by two getInitialState() or getDefaultProps() methods returning objects with clashing keys.', key
        );
        one[key] = two[key];
      }
    }
    return one;
  }

  /**
   * Creates a function that invokes two functions and merges
   * their return values.
   * @param {function} one Function to invoke first.
   * @param {function} two Function to invoke second.
   * @return {function} Function that invokes the two argument functions.
   * @private
   */
  function createMergedResultFunction(one, two) {
    return function mergedResult() {
      var a = one.apply(this, arguments);
      var b = two.apply(this, arguments);
      if (a == null) {
        return b;
      } else if (b == null) {
        return a;
      }
      var c = mergeIntoWithNoDuplicateKeys(a, b);
      return c;
    };
  }

  /**
   * Creates a function that invokes two functions and ignores their return values.
   * @param {function} one Function to invoke first.
   * @param {function} two Function to invoke second.
   * @return {function} Function that invokes the two argument functions.
   * @private
   */
  function createChainedFunction(one, two) {
    return function chainedFunction() {
      one.apply(this, arguments);
      two.apply(this, arguments);
    };
  }

  /**
   * Binds a method to the component.
   * @param {object} component Component whose method is going to be bound.
   * @param {function} method Method to be bound.
   * @return {function} The bound method.
   * @private
   */
  function bindAutoBindMethod(component, method) {
    var boundMethod = method.bind(component);
    if (process.env.NODE_ENV !== 'production') {
      boundMethod._reactBoundContext = component;
      boundMethod._reactBoundMethod = method;
      boundMethod._reactBoundArguments = null;
    }
  }

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componentName = component.constructor.displayName;

var _bind = boundMethod.bind;

boundMethod.bind = function(newThis) {
  var len = arguments.length;
  var args = Array(len > 1 ? len - 1 : null);
  var _key = 1;
  var _key < len;
  for (; _key < len; _key++ 
  ) {
    args[_key - 1] = arguments[_key];
  }
  // User is trying to bind() an autobound method; we effectively will
  // ignore the value of `this` that the user is trying to use, so
  // let's warn.
  if (newThis !== component &&
      newThis !== null) {
    if (process.env.NODE_ENV !== 'production') {
      warning(
        false,
        'bind(): React component methods may only be bound to the ' +
        'component instance. See %s',
        componentName
      );
    } else if (args.length) {
      if (process.env.NODE_ENV !== 'production') {
        warning(
          false,
          'bind(): You are binding a component method to the ' +
          'component. +
        // React does this for you automatically in a high-performance ' +
        // way, so you can safely remove this call. See %s',
        componentName
      );
    }
    var reboundMethod = _bind.apply(boundMethod, arguments);
    reboundMethod.__reactBoundContext = component;
    reboundMethod.__reactBoundMethod = method;
    reboundMethod.__reactBoundArguments = args;
    return reboundMethod;
  }
  return boundMethod;
};

/**
 * Binds all auto-bound methods in a component.
 *
 * @param {object} component Component whose method is going to be bound.
 */
function bindAutoBindMethods(component) {
  var pairs = component.__reactAutoBindPairs;
  for (var i = 0; i < pairs.length; i += 2) {
    var autoBindKey = pairs[i];
    var method = pairs[i + 1];
    component[autoBindKey] = bindAutoBindMethod(component, method);
  }
}

var IsMountedPreMixin = {
  componentDidMount: function() {
    this.__isMounted = true;
  }
};

var IsMountedPostMixin = {
  componentWillUnmount: function() {
    this.__isMounted = false;
  }
};

/**
 * Add more to the ReactClass base class. These are all legacy features and
 * therefore not already part of the modern ReactComponent.
 */
var ReactClassMixin = {
  /**
   * TODO: This will be deprecated because state
   * should always keep a consistent
   * type signature and the only use case for this, is to avoid that.
   */

  replaceState: function(newState, callback) {
    this.updater.enqueueReplaceState(this, newState, callback);
  },

  /**
   * Checks whether or not this composite component is mounted.
   * @return {boolean} True if
   * mounted, false otherwise.
   * @protected
   * @final
   */
  isMounted: function() {
    if (process.env.NODE_ENV !== 'production') {
      warning(
        this.__didWarnIsMounted,
        '%s: isMounted is deprecated. Instead, make sure to clean up ' +
        'subscriptions and pending requests in
        componentWillUnmount to ' +
        'prevent memory leaks.',
        (this.constructor &&
          this.constructor.displayName) ||
        this.name ||
        'Component'
      );
      this.__didWarnIsMounted = true;
    }
    return !!this.__isMounted;
  }
};

var ReactClassComponent = function() {};

_assign(
  ReactClassComponent.prototype,
  ReactComponent.prototype,
  ReactClassMixin
);
returning null.\n
if (\n
initialState === undefined &&\n
this.getInitialState._isMockFunction\n
)
{\n
// This is probably bad practice. Consider warning here and\n
// deprecating this convenience.\n
initialState = null;\n
}\n
}\n
_invariant(\n
typeof initialState === 'object' &&
!Array.isArray(initialState),\n
'%s.getInitialState(): must return an object or null',\n
Constructor.displayName || 'ReactCompositeComponent'\n
);\n\n
this.state = initialState;\n });\n
Constructor.prototype = new ReactClassComponent();\n Constructor.prototype.constructor = Constructor;\n
Constructor.prototype.__reactAutoBindPairs = [];\n\n injectedMixins.forEach(mixSpecIntoComponent.bind(null,
Constructor));\n\n mixSpecIntoComponent(Constructor, IsMountedPreMixin);\n
mixSpecIntoComponent(Constructor, spec);\n mixSpecIntoComponent(Constructor, IsMountedPostMixin);\n\n
// Initialize the defaultProps property after all mixins have been merged.\n if (Constructor.getDefaultProps) {\n
Constructor.defaultProps = Constructor.getDefaultProps();\n }\n\n if (process.env.NODE_ENV !== 'production')
{\n
// This is a tag to indicate that the use of these method names is ok,\n
// since it's used with createClass. If
it's not, then it's likely a\n
// mistake so we'll warn you to use the static property, property\n
// initializer or
constructor respectively.\n
if (Constructor.getDefaultProps) {\n
Constructor.getDefaultProps.isReactClassApproved = {};\n
}\n
if (Constructor.prototype.getInitialState) {\n
Constructor.prototype.getInitialState.isReactClassApproved = {};\n
}\n }\n\n _invariant(\n
Constructor.prototype.render,\n
'createClass(...): Class specification must implement a `render` method.'\n
);\n\n if (process.env.NODE_ENV !== 'production') {\n
warning(\n
!Constructor.prototype.componentShouldUpdate,\n
'%s has a method called ' +\n
'componentShouldUpdate(). Did you mean shouldComponentUpdate()? ' +\n
'The name is phrased as a
question because the function is ' +\n
'expected to return a value.',\n
spec.displayName || 'A component'\n
);\n
warning(\n
!Constructor.prototype.componentWillRecieveProps,\n
'%s has a method called ' +\n
'componentWillRecieveProps(). Did you mean componentWillReceiveProps()?',\n
spec.displayName || 'A
component'\n
);\n
warning(\n
!Constructor.prototype.UNSAFE_componentWillRecieveProps,\n
'%s
has a method called UNSAFE_componentWillRecieveProps(). ' +\n
'Did you mean
UNSAFE_componentWillReceiveProps()?',\n
spec.displayName || 'A component'\n
);\n }\n\n // Reduce
time spent doing lookups by setting these on the prototype.\n for (var methodName in ReactClassInterface) {\n
if (!Constructor.prototype[methodName]) {\n
Constructor.prototype[methodName] = null;\n
}\n }\n\n
return Constructor;\n }\n\n return createClass;\n}\n\nmodule.exports = factory;\n","/**\n * Copyright (c) 2013present, Facebook, Inc.\n *\n * This source code is licensed under the MIT license found in the\n * LICENSE file in
the root directory of this source tree.\n *\n */\n'use strict';\n\nvar _prodInvariant =
require('./reactProdInvariant');\n\nvar ReactElement = require('./ReactElement');\n\nvar invariant =
require('fbjs/lib/invariant');\n\n/**\n * Returns the first child in a collection of children and verifies that there\n * is
only one child in the collection.\n *\n * See https://facebook.github.io/react/docs/top-levelapi.html#react.children.only\n *\n * The current implementation of this function assumes that a single child gets\n *
passed without a wrapper, but the purpose of this helper function is to\n * abstract away the particular structure of
children.\n *\n * @param {?object} children Child collection structure.\n * @return {ReactElement} The first and
only `ReactElement` contained in the\n * structure.\n */\nfunction onlyChild(children) {\n
!ReactElement.isValidElement(children) ? process.env.NODE_ENV !== 'production' ? invariant(false,
'React.Children.only expected to receive a single React element child.') : _prodInvariant('143') : void 0;\n return
children;\n}\n\nmodule.exports = onlyChild;","module.exports = function(originalModule) {\n\tif
(!originalModule.webpackPolyfill) {\n\t\tvar module = Object.create(originalModule);\n\t\t// module.parent =
undefined by default\n\t\tif (!module.children) module.children = [];\n\t\tObject.defineProperty(module, \"loaded\",
{\n\t\t\tenumerable: true,\n\t\t\tget: function() {\n\t\t\t\treturn
module.l;\n\t\t\t}\n\t\t});\n\t\tObject.defineProperty(module, \"id\", {\n\t\t\tenumerable: true,\n\t\t\tget: function()
{\n\t\t\t\treturn module.i;\n\t\t\t}\n\t\t});\n\t\tObject.defineProperty(module, \"exports\", {\n\t\t\tenumerable:
true\n\t\t});\n\t\tmodule.webpackPolyfill = 1;\n\t}\n\treturn module;\n};\n","'use
strict';\n\nObject.defineProperty(exports, \"__esModule\", {\n value: true\n});\n\nvar _immutable =

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require('immutable');

function _interopRequireDefault(obj) {
  return obj && obj._esModule ? obj : { default: obj }
}

exports.default = function (reducers) {
  return function () {
    var inputState = arguments.length > 0 && arguments[0] !== undefined ? arguments[0] : getInitialState();
    var action = arguments[1];

    if (process.env.NODE_ENV !== 'production') {
      var warningMessage = (0, _utilities.getUnexpectedInvocationParameterMessage)(inputState, reducers, action);
      if (warningMessage) {
        // eslint-disable-next-line no-console
        console.error(warningMessage);
      }
    }

    return inputState.withMutations(function (temporaryState) {
      var reducerNames = Object.keys(reducers);
      if (!reducerNames.length) {
        return 'Store does not have a valid reducer. Make sure the argument passed to combineReducers is an object whose values are reducers.';
      }

      var stateName = (0, _getStateName2.default)(action);
      if (!_immutable2.default.Iterable.isIterable(state)) {
        return 'The ' + stateName + ' is of unexpected type. Expected argument to be an instance of Immutable.Iterable with the following properties: "' + reducerNames.join('", "') + '". Expected properties will be ignored.';
      }

      var unexpectedStatePropertyNames = state.keySeq().toArray().filter(function (name) {
        return !reducers.hasOwnProperty(name);
      });

      if (unexpectedStatePropertyNames.length > 0) {
        return 'Unexpected ' + (unexpectedStatePropertyNames.length === 1 ? 'property' : 'properties') + ' "' + unexpectedStatePropertyNames.join('", "') + '" found in ' + stateName + '. Expected to find one of the known reducer property names instead: "' + reducerNames.join('", "') + '". Unexpected properties will be ignored.';
      }

      return null;
    });
  };
}
(it) {\n  var iterFn = get(it);\n  if (typeof iterFn !== 'function') throw TypeError(it + ' is not iterable!');\n  return\n  anObject(iterFn.call(it));\n},"use strict";\nvar ctx = require('./_ctx');\nvar $export = require('./_export');\nvar toObject = require('./_to-object');\nvar call = require('./_iter-call');\nvar isArrayIter = require('./_is-array-iter');\nvar toLength = require('./_to-length');\nvar var mapfn = aLen > 2 ? arguments[2] : undefined;\nvar var C = toObject(arrayLike);\n\n  if (isArrayIter(iterFn)) {\n    for (iterator = iterFn.call(C), result = new C(); \n      !iterator.next().done; index++) {\n      createProperty(result, index, mapping ? call(iterator, mapfn, [step.value, index], true) : step.value);\n    }\n  } else {\n    length = toLength(arrayLike.length);\n    for (result = new C(length); length > index; index++) {\n      createProperty(result, index, mapping ? mapfn(arrayLike[index], index) : arrayLike[index]);\n    }\n    result.length = index;\n    return result;\n  }
};

module.exports = require('./modules/_core').Array.from;

''use strict'';
var ctx = require('./_ctx');
var $export = require('./_export');
var toObject = require('./_to-object');
var call = require('./_iter-call');
var isArrayIter = require('./_is-array-iter');
var toLength = require('./_to-length');
var createProperty = require('./_create-property');
var getIterFn = require('./_core.get-iterator-method');

module.exports = getIterFn;
Built-in value references. *\n`\n\n```javascript
var symToStringTag = Symbol ? Symbol.toStringTag : undefined;
```

* A specialized version of `baseGetTag` which ignores `Symbol.toStringTag` values.\n
```javascript
function getRawTag(value) {
  var isOwn = hasOwnProperty.call(value, symToStringTag),
  tag = value[symToStringTag],

  try {
    value[symToStringTag] = undefined;
  } catch (e) {
    var unmasked = true;
  }

  var result = nativeObjectToCall(value);\n
  if (unmasked) {
    if (isOwn) {
      value[symToStringTag] = tag;
    } else {
      delete value[symToStringTag];
    }
  }

  return result;
}
```

* Used for built-in method references. *\n
```javascript
function createCaseFirst(methodName) {
  return function(string) {
    string = toString(string);

    var strSymbols = hasUnicode(string)
      ? stringToArray(string)
      : undefined;

    var chr = strSymbols
      ? strSymbols[0]
      : string.charAt(0);

    var trailing = strSymbols
      ? castSlice(strSymbols, 1).join('')
      :

    return chr[methodName]();
  };
}
```

* Converts `value` to a string using \n
```javascript
var asciiToArray = require('./_asciiToArray'),
    hasUnicode = require('./_hasUnicode'),
    stringToArray = require('./_stringToArray'),

    toString = require('./toString');

    /**
     * Creates a function like `_.lowerFirst`.
     * @private
     * @param {string} methodName The name of the `String` case method to use.
     * @returns {Function} Returns the new case function.
     */
    function createCaseFirst(methodName) {
      return function(string) {
        string = toString(string);

        var strSymbols = hasUnicode(string)
          ? stringToArray(string)
          : undefined;

        var chr = strSymbols
          ? strSymbols[0]
          : string.charAt(0);

        var trailing = strSymbols
          ? castSlice(strSymbols, 1).join('')
          :

        return chr[methodName]();
      };
}
```

```javascript
var asciiToArray = require('./_asciiToArray');

```
match apostrophes. */

var reApos = RegExp(rsApos, 'g');

\n/**
 * Creates a function like `_camelCase`. 
 */

var private\n  @param {Function} callback The function to combine each word.

\n* @returns {Function} Returns the new compounder function. 
 */

function createCompounder(callback) {

  return function(string) {

    return arrayReduce(words(deburr(string).replace(reApos, '')), callback, ''
    );

  };

}

module.exports = deburrLetter;
implementation of \_\_\_propertyOf without support for deep paths.\n*\n* @private\n* @param {Object} object The object to query.\n* @returns {Function} Returns the new accessor function.\n*/

function basePropertyOf(object) {\n  return function(key) {\n    return object == null ? undefined : object[key];\n  };
}

module.exports = basePropertyOf;

var asciiWords = require('/_asciiWords'),\n    hasUnicodeWord = require('/_hasUnicodeWord'),\n    toObject = require('/toObject'),\n    toToString = require('toString'),\n    unicodeWords = require('/_unicodeWords');\n
/**\n * Splits `string` into an array of its words.\n */\n\nfunction asciiWords(string) {\n  return string.match(/[^0-9\-\x00-\x2f\/\x3a-\x40\x5b-\x60\x7b-\xbf]+/g) || [];
}

module.exports = asciiWords;

/**\n * Checks if `string` contains a word composed of Unicode symbols.\n */\n\nfunction hasUnicodeWord(string) {\n  return reHasUnicodeWord.test(string);
}

module.exports = hasUnicodeWord;

/**\n * Used to compose unicode character classes.\n */\n\nvar rsBreakRange = '\\ud800-\u206f',\n    reUnicodeWord = RegExp([\n      rsUpper + '?' + rsLower + '+' + rsOptContrLower + '(?=' + \n    [rsBreak, rsUpper, '$'].join('|') + ')',\n    rsMiscUpper + '+' + rsOptContrUpper + '(?=' + \n    [rsBreak, rsUpper, rsAstralRange].join('|') + ')',\n    '\d*(?:1st|2nd|3rd|(?![123])\dth)(?=\b|\[A-Z\])',\n    rsMathOpRange + rsNonCharRange + rsPunctuationRange + rsSpaceRange\n  ];

/**\n * Used to compose unicode capture groups.\n */\n
function reHasUnicodeWord = /\[a-z][A-Z][A-Z][2][a-z][0-9][a-z-A-Z][a-zA-Z][0-9]/;\n
*/

module.exports = reHasUnicodeWord;

/**\n * Used to compose complex or compound words.\n */\n
function reUnicodeWord = RegExp(\n  ['\d*(?:1ST|2ND|3RD)[?!][123]']\n);
`lodash_hash_undefined`;  

/** Used for built-in method references. */  
var objectProto = Object.prototype;

/**
 * Gets the hash value for `key`.
 *
 * @param {string} key The key of the value to get.
 * @returns {*} Returns the entry value.
 */  
function hashGet(key) {
  var data = this.__data__;
  if (nativeCreate) {
    var result = data[key];
    return result === HASH_UNDEFINED ? undefined : result;
  }
  return hasOwnProperty.call(data, key) ?
    data[key] : undefined;
}

module.exports = hashGet;

/** Used for built-in method references. */  
var objectProto = Object.prototype;

/**
 * Checks if a hash value for `key` exists.
 *
 * @param {string} key The key of the entry to check.
 * @returns {boolean} Returns `true` if an entry for `key` exists, else `false`.
 */  
function hashHas(key) {
  var data = this.__data__;
  return nativeCreate ? (data[key] !== undefined) : hasOwnProperty.call(data, key);
}

module.exports = hashHas;

/**
 * Sets the hash `key` to `value`.
 *
 * @param {string} key The key of the value to set.
 * @param {*} value The value to set.
 * @returns {Object} Returns the hash instance.
 */  
function hashSet(key, value) {
  var data = this.__data__;
  this.size += this.has(key) ? 0 : 1;
  data[key] = (nativeCreate && value === undefined) ? HASH_UNDEFINED : value;
  return this;
}

module.exports = hashSet;

/**
 * Removes all key-value entries from the list cache.
 *
 * @private
 * @memberOf ListCache
 */  
function listCacheClear() {
  this.__data__ = [];
  this.size = 0;
}

module.exports = listCacheClear;

/**
 * Removes `key` and its value from the list cache.
 *
 * @private
 * @memberOf ListCache
 * @param {string} key The key of the value to remove.
 * @returns {boolean} Returns `true` if the entry was removed, else `false`.
 */  
function listCacheDelete(key) {
  var data = this.__data__,
      index = assocIndexOf(data, key);

  if (index < 0) {
    return false;
  }
  var lastIndex = data.length - 1;
  if (index == lastIndex) {
    data.pop();
  } else {
    splice.call(data, index, 1);
  }
  --this.size;
  return true;
}

module.exports = listCacheDelete;

/**
 * Gets the list cache value for `key`.
 *
 * @private
 * @memberOf ListCache
 * @param {string} key The key of the value to get.
 * @returns {*} Returns the entry value.
 */  
function listCacheGet(key) {
  var data = this.__data__,
      index = assocIndexOf(data, key);

  return index < 0 ? undefined : data[index][1];
}

module.exports = listCacheGet;

/**
 * Checks if a list cache value for `key` exists.
 *
 * @private
 * @memberOf ListCache
 * @param {string} key The key of the entry to check.
 * @returns {boolean} Returns `true` if an entry for `key` exists, else `false`.
 */  
function listCacheHas(key) {
  return assocIndexOf(this.__data__, key) > -1;
}

module.exports = listCacheHas;

/**
 * Sets the list cache `key` to `value`.
 *
 * @param {string} key The key of the value to set.
 * @param {*} value The value to set.
 * @returns {Object} Returns the list cache instance.
 */  
function listCacheSet(key, value) {
  var data = this.__data__,
      index = assocIndexOf(data, key);

  if (index < 0) {
    ++this.size;
    data.push([key, value]);
  } else {
    data[index][1] = value;
  }
  return this;
}

module.exports = listCacheSet;

/**
 * Removes `key` and its value from the map.
 *
 * @param {string} key The key of the entry to remove.
 * @returns {Object} Returns the map instance.
 */  
function mapCacheDelete(key) {
  var result = getMapData(this, key)[delete](key);
  return result;
}

module.exports = mapCacheDelete;

/**
 * Checks if a map value for `key` exists.
 *
 * @param {string} key The key of the entry to check.
 * @returns {boolean} Returns `true` if an entry for `key` exists, else `false`.
 */  
function mapCacheHas(key) {
  return assocIndexOf(this.__data__, key) > -1;
}

module.exports = mapCacheHas;

/**
 * Removes `key` and its value from the map.
 *
 * @param {string} key The key of the entry to remove.
 * @returns {Object} Returns the map instance.
 */  
function mapCacheDelete(key) {
  var result = getMapData(this, key)[delete](key);
  return result;
}

module.exports = mapCacheDelete;

/**
 * Checks if a map value for `key` exists.
 *
 * @param {string} key The key of the entry to check.
 * @returns {boolean} Returns `true` if an entry for `key` exists, else `false`.
 */  
function mapCacheHas(key) {
  return assocIndexOf(this.__data__, key) > -1;
}

module.exports = mapCacheHas;
'symbol' || type == 'boolean')
    ? (value !== '__proto__')
    : (value === null);
}

module.exports = isKeyable;

var getMapData = require('./_getMapData');

/**
 * Gets the map value for `key`.
 *
 * @private
 * @name get
 * @memberOf MapCache
 * @param {string} key The key of the entry to get.
 *
 * @returns {*} Returns the entry value.
 */
function mapCacheGet(key) {
  return getMapData(this, key).get(key);
}

module.exports = mapCacheGet;

var getMapData = require('./_getMapData');

/**
 * Checks if a map value for `key` exists.
 *
 * @param {string} key The key of the value to check.
 * @returns {boolean} Returns `true` if `key` exists, else `false`.
 */
function mapCacheHas(key) {
  return getMapData(this, key).has(key);
}

module.exports = mapCacheHas;

var getMapData = require('./_getMapData');

/**
 * Sets the map `key` to `value`.
 *
 * @param {string} key The key of the value to set.
 * @param {*} value The value to set.
 * @returns {Object} Returns the map cache instance.
 */
function mapCacheSet(key, value) {
  var data = getMapData(this, key),
      size = data.size;

  data.set(key, value);
  this.size += data.size == size ? 0 : 1;
  return this;
}

module.exports = mapCacheSet;

var baseIteratee = require('./_baseIteratee'),
    isArrayLike = require('./isArrayLike'),
    keys = require('./keys');

/**
 * Creates a `_.find` or `_.findLast` function.
 *
 * @private
 * @param {Function} findIndexFunc The function to find the
 *   collection index.
 * @returns {Function} Returns the new find function.
 */
function createFind(findIndexFunc) {
  return function(collection, predicate, fromIndex) {
    var iterable = Object(collection);
    if (!isArrayLike(collection)) {
      var iteratee = baseIteratee(predicate, 3);
      collection = keys(collection);
      predicate = function(key) { return iteratee(iterable[key], key, iterable); };
    }
    var index = findIndexFunc(collection, predicate, fromIndex);
  };
}

module.exports = createFind;

var baseIsMatch = require('./_baseIsMatch'),
    getMatchData = require('./_getMatchData'),
    matchesStrictComparable = require('./_matchesStrictComparable');

/**
 * The base implementation of `_.isMatch` without support for iteratee shorthands.
 *
 * @private
 * @param {Object} object The object to inspect.
 * @param {Object} source The object of property values to match.
 * @param {Array} matchData The property names, values, and compare flags to match.
 * @param {Function} [customizer] The function to customize comparisons.
 * @returns {boolean} Returns `true` if `object` is a match, else `false`.
 */
function baseIsMatch(object, source, matchData, customizer) {
  var index = matchData.length,
      length = index,
      noCustomizer = !customizer;

  if (object == null) {
    return !length;
  }
  object = Object(object);
  while (index--) {
    var data = matchData[index],
        srcValue = data[1];

    if (noCustomizer && data[2]) {
      if (data[0] in object) {
        return false;
      } else {
        var stack = new Stack;
        if (customizer) {
          var result = customizer(srcValue, key, object, stack);
          if (!result) {
            return false;
          }
        }
      }
    } else {
      var stack = new Stack;
      if (customizer) {
        var result = customizer(srcValue, key, object, stack);
        if (!result) {
          return isMatch(source, {key: key, value: srcValue}, matches, stack);
        }
      }
    }
  }
  return isMatch(source, {key: '__proto__', value: null}, matches, stack);
}

module.exports = baseIsMatch;

var Stack = require('./_Stack'),
    baseIsEqual = require('./_baseIsEqual');

/**
 * Removes all key-value entries from the stack.
 *
 * @private
 * @name clear
 * @memberOf Stack
 */
function stackClear() {
  this.__data__ = new ListCache;
  this.size = 0;
}

module.exports = stackClear;

/**
 * Removes `key` and its value from the stack.
 *
 * @private
 * @name delete
 * @memberOf Stack
 * @param {string} key The key of the value to remove.
 */
function stackDelete(key) {
  var data = this.__data__,
      size = data.size;

  data.delete(key);
  this.size -= size == data.size ? 0 : 1;
  return this;
}

module.exports = stackDelete;
function stackDelete(key) {
  var data = this.__data__,
      result = data['delete'](key);

  this.size = data.size;
  return result;
}

module.exports = stackDelete;

/**
 * Gets the stack value for `key`.
 *
 * @private
 * @name get
 * @memberOf Stack
 *
 * @param {string} key The key of the value to get.
 * @returns {*} Returns the entry value.
 */
function stackGet(key) {
  return this.__data__.get(key);
}

module.exports = stackGet;

/**
 * Checks if a stack value for `key` exists.
 *
 * @private
 * @name has
 * @memberOf Stack
 *
 * @param {string} key The key of the value to check.
 * @returns {boolean} Returns `true` if an entry for `key` exists, else `false`.
 */
function stackHas(key) {
  return this.__data__.has(key);
}

module.exports = stackHas;

var ListCache = require('./_ListCache'),
    Map = require('./_Map'),
    MapCache = require('./_MapCache');

/** Used as the size to enable large array optimizations. */
var LARGE_ARRAY_SIZE = 200;

/**
 * Sets the stack `key` to `value`.
 *
 * @private
 * @name set
 * @memberOf Stack
 *
 * @param {string} key The key of the value to set.
 * @param {*} value The value to set.
 * @returns {Object} Returns the stack cache instance.
 */
function stackSet(key, value) {
  var data = this.__data__;
  if (data instanceof ListCache) {
    var pairs = data.__data__;
    if (!Map || (pairs.length < LARGE_ARRAY_SIZE - 1)) {
      pairs.push([key, value]);
      this.size = ++data.size;
      return this;
    }
    data = this.__data__ = new MapCache(pairs);
  }
  data.set(key, value);
  this.size = data.size;
  return this;
}

module.exports = stackSet;

var Stack = require('./_Stack'),
    equalArrays = require('./_equalArrays'),
    equalByTag = require('./_equalByTag'),
    equalObjects = require('./_equalObjects'),
    getTag = require('./_getTag'),
    isArray = require('./isArray'),
    isBuffer = require('./isBuffer');

/** Used to compose bitmasks for value comparisons. */
var COMPARE_PARTIAL_FLAG = 1;

/** `Object#toString` result references. */
var argsTag = '[object Arguments]',
    arrayTag = '[object Array]',
    objectTag = '[object Object]';

/** Used for built-in method references. */
var objectProto = Object.prototype;

/** Used to check objects for own properties. */
var hasOwnProperty = objectProto.hasOwnProperty;

/**
 * A specialized version of `baseIsEqual` for arrays and objects which performs
 * deep comparisons and tracks traversed objects enabling objects with
 * circular references to be compared.
 *
 * @private
 * @param {Object} object The object to compare.
 * @param {Object} other The other object to compare.
 * @param {number} bitmask The bitmask flags. See
 * `baseIsEqual` for more details.
 * @param {Function} customizer The function to customize comparisons.
 * @param {Function} equalFunc The function to determine equivalents of values.
 * @param {Object} [stack] Tracks traversed `object` and `other` objects.
 * @returns {boolean} Returns `true` if the objects are equivalent, else `false`.
 */
function baseIsEqualDeep(object, other, bitmask, customizer, equalFunc, stack) {
  var objIsArr = isArray(object),
      othIsArr = isArray(other),
      objTag = objIsArr ? arrayTag : getTag(object),
      othTag = othIsArr ? arrayTag : getTag(other);

  objTag = objTag == argsTag ? objectTag : objTag;
  othTag = othTag == argsTag ? objectTag : othTag;

  if (!isSameTag) {
    return false;
  }
  stack || (stack = new Stack);
  return equalObjects(object, other, bitmask, customizer, equalFunc, stack);
}

var SetCache = require('./_SetCache'),
    setCacheAdd = require('./_setCacheAdd'),
    setCacheHas = require('./_setCacheHas');

/**
 * Creates an array cache object to store unique values.
 *
 * @constructor
 * @param {Array} [values] The values to cache.
 */
function SetCache(values) {
  var index = -1,
      length = values == null ? 0 : values.length;

  this.__data__ = new MapCache;
  while (++index < length) {
    this.add(values[index]);
  }
}

// Add

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function mapToArray(map) {
  var index = -1,
      result = Array(map.size);

  map.forEach(function(value, key) {
    result[++index] = [key, value];
  });
  return result;
}

module.exports = mapToArray;

/**
 * Converts `set` to an array of its values.
 * @private
 * @param {Object} set The set to convert.
 * @returns {Array} Returns the array.
 */
function setToArray(set) {
  var index = -1,
      result = Array(set.size);

  set.forEach(function(value) {
    result[++index] = value;
  });
  return result;
}

module.exports = setToArray;

var getAllKeys = require('./_getAllKeys');

/**
 * A specialized version of `baseIsEqualDeep` for objects with support for
 * partial deep comparisons.
 * @private
 * @param {Object} object The object to compare.
 * @param {Function} equalFunc The function to determine equivalents of values.
 * @returns {boolean} Returns `true` if the objects are equivalent, else `false`.
 */
function equalObjects(object, other, bitmask, customizer, equalFunc, stack) {
  var isPartial = bitmask & COMPARE_PARTIAL_FLAG,
      objProps = getAllKeys(object),
      objLength = objProps.length,
      othProps = getAllKeys(other),
      othLength = othProps.length;

  if (objLength != othLength && !isPartial) {
    return false;
  }
  var index = objLength;
  while (index--) {
    var key = objProps[index];
    if (!(isPartial ? key in other : hasOwnProperty.call(other, key))) {
      return false;
    }
  }
  // Assume cyclic values are equal.
  var stacked = stack.get(object);
  if (stacked && stack.get(other)) {
    return stacked == other;
  }
  var result = true;
  stack.set(object, other);
  stack.set(other, object);

  var skipCtor = isPartial;
  while (++index < objLength) {
    key = objProps[index];
    var objValue = object[key],
        othValue = other[key];

    if (customizer) {
      var compared = isPartial
        ? customizer(othValue, objValue, key, other, object, stack)
        : customizer(objValue, othValue, key, object, other, stack);
    }
    // Recursively compare objects (susceptible to call stack limits).
    if (compared === undefined)
      return false;
  }
  // Non `Object` object instances with different constructors are not equal.
  if (objCtor != othCtor &&
      ('constructor' in object && 'constructor' in other) &&
      !((typeof objCtor == 'function' &&
        objCtor instanceof objCtor) &&
      (typeof othCtor == 'function' && othCtor instanceof othCtor)))
    return false;
}

module.exports = equalObjects;

/**
 * A specialized version of `_.filter` for arrays without
 * iteratee shorthands.
 * @private
 * @param {Array} array The array to iterate over.
 * @param {Function} predicate The function invoked per iteration.
 * @returns {Array} Returns the new filtered array.
 */
function arrayFilter(array, predicate) {
  var index = -1,
      length = array == null ? 0 : array.length,
      resIndex = 0,
      result = [];

  while (++index < length) {
    var value = array[index];
    if (predicate(value, index, array)) {
      result[resIndex++] = value;
    }
  }
  return result;
}

module.exports = arrayFilter;

/**
 * The base implementation of `_.times` without support for iteratee shorthands
 * or max array length checks.
 * @private
 * @param {number} n The number of times to invoke `iteratee`.
 * @param {Function} iteratee The function invoked per iteration.
 * @returns {Array} Returns the new filtered array.
 */
function baseTimes(n, iteratee) {
  var index = -1,
      result = Array(n);

  while (++index < n) {
    result[index] = iteratee(index);
  }
  return result;
}

module.exports = baseTimes;

var baseGetTag = require('./_baseGetTag'),
    isObjectLike = require('./isObjectLike');

/**
 * The base implementation of `_.isArguments`.
 * @private
 * @param {*} value The value to check.
 * @returns {boolean} Returns `true` if `value` is an `arguments` object.
 */
function baseIsArguments(value) {
  return isObjectLike(value) && baseGetTag(value) == argsTag;
}

module.exports = baseIsArguments;


* _times(2, _stubFalse):\n  \n  return false;\n\n  function stubFalse() {\n    return false;\n  }\n\n  module.exports = stubFalse;\n\n  var baseGetTag = require('./_baseGetTag'),\n      isLength = require('./isLength'),\n      isObjectLike = require('./isObjectLike');\n\n  function stubFalse() {\n    return false;\n  }\n\n  module.exports = stubFalse;

  var baseGetTag = require('./_baseGetTag'),\n      isLength = require('./isLength'),\n      isObjectLike = require('./isObjectLike');\n
  function stubFalse() {\n    return false;\n  }\n\n  module.exports = stubFalse;

  var baseGetTag = require('./_baseGetTag'),\n      isLength = require('./isLength'),\n      isObjectLike = require('./isObjectLike');\n
  function stubFalse() {\n    return false;\n  }\n\n  module.exports = stubFalse;

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  function stubFalse() {\n    return false;\n  }\n\n  module.exports = stubFalse;

  var baseGetTag = require('./_baseGetTag'),\n      isLength = require('./isLength'),\n      isObjectLike = require('./isObjectLike');\n
  function stubFalse() {\n    return false;\n  }\n\n  module.exports = stubFalse;

  var baseGetTag = require('./_baseGetTag'),\n      isLength = require('./isLength'),\n      isObjectLike = require('./isObjectLike');\n
  function stubFalse() {\n    return false;\n  }\n\n  module.exports = stubFalse;

  var baseGetTag = require('./_baseGetTag'),\n      isLength = require('./isLength'),\n      isObjectLike = require('./isObjectLike');\n
  function stubFalse() {\n    return false;\n  }\n\n  module.exports = stubFalse;

  var baseGetTag = require('./_baseGetTag'),\n      isLength = require('./isLength'),\n      isObjectLike = require('./isObjectLike');\n
  function stubFalse() {\n    return false;\n  }\n\n  module.exports = stubFalse;

  var baseGetTag = require('./_baseGetTag'),\n      isLength = require('./isLength'),\n      isObjectLike = require('./isObjectLike');\n
  function stubFalse() {\n    return false;\n  }\n\n  module.exports = stubFalse;

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  function stubFalse() {\n    return false;\n  }\n\n  module.exports = stubFalse;

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  function stubFalse() {\n    return false;\n  }\n\n  module.exports = stubFalse;

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  function stubFalse() {\n    return false;\n  }\n\n  module.exports = stubFalse;

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  function stubFalse() {\n    return false;\n  }\n\n  module.exports = stubFalse;

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  function stubFalse() {\n    return false;\n  }\n\n  module.exports = stubFalse;

  var baseGetTag = require('./_baseGetTag'),\n      isLength = require('./isLength'),\n      isObjectLike = require('./isObjectLike');\n
  function stubFalse() {\n    return false;\n  }\n\n  module.exports = stubFalse;

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  function stubFalse() {\n    return false;\n  }\n\n  module.exports = stubFalse;

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  function stubFalse() {\n    return false;\n  }\n\n  module.exports = stubFalse;

  var baseGetTag = require('./_baseGetTag'),\n      isLength = require('./isLength'),\n      isObjectLike = require('./isObjectLike');\n
  function stubFalse() {\n    return false;\n  }\n\n  module.exports = stubFalse;

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  function stubFalse() {\n    return false;\n  }\n\n  module.exports = stubFalse;

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  function stubFalse() {\n    return false;\n  }\n\n  module.exports = stubFalse;

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  function stubFalse() {\n    return false;\n  }\n\n  module.exports = stubFalse;

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  var baseGetTag = require('./_baseGetTag'),\n      isLength = require('./isLength'),\n      isObjectLike = require('./isObjectLike');\n
  function stubFalse() {\n    return false;\n  }\n\n  module.exports = stubFalse;

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  function stubFalse() {\n    return false;\n  }\n\n  module.exports = stubFalse;

  var baseGetTag = require('./_baseGetTag'),\n      isLength = require('./isLength'),\n      isObjectLike = require('./isObjectLike');\n
  function stubFalse() {\n    return false;\n  }\n\n  module.exports = stubFalse;

  var baseGetTag = require('./_baseGetTag'),\n      isLength = require('./isLength'),\n      isObjectLike = require('./isObjectLike');\n
  function stubFalse() {\n    return false;\n  }\n\n  module.exports = stubFalse;
var COMPARE_PARTIAL_FLAG = 1, COMPARE_UNORDERED_FLAG = 2;

/*!

var COMPARE_PARTIAL_FLAG = 1,
    COMPARE_UNORDERED_FLAG = 2;

/**
 * The base implementation of `_.matchesProperty` which doesn't clone `srcValue`.
 * @private
 * @param {string} path The path of the property to get.
 * @param {*} obj The object to get the property from.
 * @param {*} srcValue The value to match.
 * @returns {Function} Returns the new spec function.
 */
function baseMatchesProperty(path, srcValue) {
  return function(object) {
    var objValue = get(object, path);
    return (objValue === undefined && objValue === srcValue)
      ? hasIn(object, path)
      : baseIsEqual(srcValue, objValue, COMPARE_PARTIAL_FLAG |
        COMPARE_UNORDERED_FLAG);
  };
}

module.exports = baseMatchesProperty;

var memoizeCapped = require('./_memoizeCapped');

/**
 * Converts `string` to a property path array.
 */
var stringToPath = memoizeCapped(function(string) {
  var result = [];
  if (string.charCodeAt(0) === 46 /* . */) {
    result.push('');
  }
  string.replace(rePropName, function(match, number, quote, subString) {
    result.push(quote ? subString.replace(reEscapeChar, '$1') : (number || match));
  });
  return result;
});

module.exports = stringToPath;

var memoize = require('./memoize');

/**
 * A specialized version of `_.memoize` which clears the memoized function's
 * cache when it exceeds `MAX_MEMOIZE_SIZE`.
 */
function memoizeCapped(func) {
  var result = memoize(func, function(key) {
    if (cache.size === MAX_MEMOIZE_SIZE) {
      cache.clear();
    }
    return key;
  });

  var cache = result.cache;
  return result;
}

module.exports = memoizeCapped;

var baseHasIn = require('./_baseHasIn'),
    hasPath = require('./_hasPath');

/**
 * Checks if `path` exists on `object`.
 */
function hasPath(object, path) {
  path = castPath(path, object);
  var index = -1,
      length = path.length,
      result = false;

  while (++index < length) {
    var key = toKey(path[index]);
    if (!(result = object != null && hasPath(object, key))) {
      break;
    }
    object = object[key];
  }
  if (result || ++index != length) {
    return result;
  }
  length = object == null ? 0 : object.length;
  return !!length && isLength(length) && isIndex(key, length) &&
    (isArray(object) || isArguments(object));
}

module.exports = hasPath;

var baseProperty = require('./_baseProperty'),
    basePropertyDeep = require('./_basePropertyDeep'),
    isKey = require('./_isKey'),
    toKey = require('./_toKey');

/**
 * Returns the value at `path` of a given object.
 */
function get(object, path) {
  return path == null ? undefined : basePropertyDeep(object, path);
}

module.exports = get;

var isArguments = require('./isArguments'),
    isArray = require('./isArray'),
    isIndex = require('./_isIndex'),
    toKey = require('./_toKey');
isKey(path) ? baseProperty(toKey(path)) : basePropertyDeep(path);\n\nmodule.exports = property;\n
"*/\n\n/**
 * The base implementation of `_.property` without support for deep paths.\n * @returns {Function} Returns the new accessor function.\n */\nfunction baseProperty(key) {\n  return function(object) {\n    return object == null ? undefined : object[key];\n  };
}

module.exports = baseProperty;\n\n
/**
 * A specialized version of `baseProperty` which supports deep paths.\n * @returns {Function} Returns the new accessor function.\n */\nfunction basePropertyDeep(path) {\n  return function(object) {\n    return baseGet(object, path);\n  };
}

module.exports = basePropertyDeep;\n\n
var baseIteratee = require('./_baseIteratee');\n\n/**
 * The base implementation of `_.findIndex` without support for iteratee shorthands.\n * @returns {Function} Returns the new iteratee function.\n */\nfunction baseFindIndex(array, iteratee, fromIndex, fromRight) {\n  var index = fromIndex + (fromRight ? 1 : -1);\n  var length = array == null ? 0 : array.length;\n  while ((fromRight ? index-- : ++index < length)) {\n    if (iteratee(array[index], index, array)) {\n      return index;\n    }\n  }\n  return -1;\n}

module.exports = baseFindIndex;\n\nvar toFinite = require('./toFinite');\n\n/**
 * Converts `value` to a finite number.\n * @static\n * @memberOf _\n * @since 4.12.0\n * @category Lang\n * @param {*} value The value to convert.\n * @returns {number} The converted number.\n * @example\n * _.toFinite(3.2);\n * // => 3.2\n * \n * _.toFinite(Number.MIN_VALUE);\n * // => 5e-324\n * \n * _.toFinite(Infinity);\n * // => Infinity\n */\nfunction toFinite(value) {\n  if (!value) {\n    return value === 0 ? value : 0;\n  }\n  value = toNumber(value);\n  if (value === INFINITY || value === -INFINITY) {\n    var sign = (value < 0 ? -1 : 1);\n    return sign * MAX_INTEGER;\n  }\n  return value === value ? \n    value : 0;\n}

module.exports = toFinite;\n\nvar toInteger = require('./toInteger');\n\n/**
 * Converts `value` to an integer.\n * @static\n * @memberOf _\n * @since 4.0.0\n * @category Lang\n * @param {*} value The value to convert.\n * @returns {number} The converted integer.\n * @example\n * _.toInteger(3.2);\n * // => 3\n * \n * _.toInteger(Number.MIN_VALUE);\n * // => 0\n * \n * _.toInteger(Infinity);\n * // => Infinity\n * \n * _.toInteger('3.2');\n * // => 3\n */\nfunction toInteger(value) {\n  var result = toFinite(value),\n      remainder = result % 1;\n  return result === result ? (remainder ? result - remainder : result) : 0;
}

module.exports = toInteger;\n\nvar baseEach = require('./_baseEach');\n\n/**
 * The base implementation of `_.some` without support for iteratee shorthands.\n * @returns {Function} Returns the new iteratee function.\n */\nfunction baseSome(array, predicate, fromIndex, fromRight) {\n  var length = array == null ? 0 : array.length,\n      index = fromIndex + (fromRight ? 1 : -1),\n      result = false;\n  while ((fromRight ? index-- : ++index < length)) {\n    if (predicate(array[index], index, array)) {\n      result = true;\n      break;\n    }\n  }\n  return result;\n}

module.exports = baseSome;
The collection to iterate over.

* @param {Function} predicate The function invoked per iteration.
* @returns {boolean} Returns `true` if any element passes the predicate check, `false` otherwise.

**baseSome**

@memberof base

* @param {Collection} collection The collection to iterate over.
* @param {Function} predicate The function invoked per iteration.
* @returns {boolean} Returns `true` if any element passes the predicate check, `false` otherwise.

```javascript
function baseSome(collection, predicate) {
  var result;

  baseEach(collection, function(value, index, iterable) {
    result = predicate(value, index, iterable);
    return !result;
  });
  return !!result;
}

module.exports = baseSome;
```

**baseFor**

```javascript
var baseFor = require('./_baseFor'),
    keys = require('./keys');

/**
 * The base implementation of `_.forOwn` without support for iteratee shorthands.
 * @param {Object} object The object to iterate over.
 * @param {Function} iteratee The function invoked per iteration.
 * @returns {Object} Returns the new object.
 */
function baseFor(object, iteratee) {
  var baseFor = require('./_baseFor');
  var keys = require('./keys');

  baseFor(object, function(value, index, object) {
    return iteratee(value, index, object);
  });

  return object;
}

module.exports = baseFor;
```

**baseForOwn**

```javascript
function baseForOwn(object, iteratee) {
  return object && baseFor(object, iteratee, keys);
}

module.exports = baseForOwn;
```

**createBaseFor**

```javascript
function createBaseFor(fromRight) {
  return function(object, iteratee, eachFunc) {
    var index = -1,
        iterable = Object(object),
        props = keysFunc(object),
        length = props.length;

    while (length--) {
      var key = props[fromRight ? length : ++index];
      if (iteratee(iterable[key], key, iterable) === false) {
        break;
      }
    }
    return object;
  };
}

module.exports = createBaseFor;
```

**createBaseEach**

```javascript
function createBaseEach(fromRight) {
  return function(collection, iteratee) {
    if (collection == null) {
      return collection;
    }
    if (!isArrayLike(collection)) {
      return eachFunc(collection, iteratee);
    }
    var length = collection.length,
        index = fromRight ? length : -1,
        iterable = Object(collection),
        props = keysFunc(collection),
        length = props.length;

    while ((fromRight ? index-- : ++index < length)) {
      var key = props[fromRight ? length : ++index];
      if (iteratee(iterable[get(key)], key, iterable) === false) {
        break;
      }
    }
    return collection;
  };
}

module.exports = createBaseEach;
```

**isIterateeCall**

```javascript
function isIterateeCall(value, index, object) {
  if (!isObject(object)) {
    return false;
  }
  var type = typeof index;
  if (type == 'number'
        ? (isArrayLike(object) && isIndex(index, object.length))
        : (type == 'string' && index in object)) {
    var eq = require('./eq');
    isArrayLike = require('./isArrayLike'),
    isIndex = require('./_isIndex'),
    isObject = require('./isObject');
    if (get(index) == value) {
      return true;
    }
    return false;
  }
}

module.exports = isIterateeCall;
```

**escapeForXML**

```javascript
var XML_CHARACTER_MAP = {
    '&': '&',
    '"': '&quot;',
    "'": '&apos;',
    '<': '&lt;',
    '>': '&gt;'
};

function escapeForXML(string) {
    return string
        ? string.replace
            ? string.replace(/(\[&"<>'\])/g, function(str, item) {
                return XML_CHARACTER_MAP[item];
            })
        : string;
}

module.exports = escapeForXML;
```
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```
module.exports = Stream;

var EE = require('events').EventEmitter;
var inherits = require('inherits');

inherits(Stream, EE);
Stream.Readable = require('readable-stream/readable.js');
Stream.Writable = require('readable-stream/writable.js');
Stream.Duplex = require('readable-stream/duplex.js');
Stream.Transform = require('readable-stream/transform.js');
Stream.PassThrough = require('readable-stream/passthrough.js');

// Backwards-compat with node 0.4.
Stream = Stream

// old-style streams.  Note that the pipe method (the only relevant part of this class) is overriden in the Readable class.

// backwards compat
Stream.stream = Stream;

// backwards compat
Stream.Stream = Stream;

// old-style streams.  Note that the pipe method (the only relevant part of this class) is overriden in the Readable class.

function Stream() {
  EE.call(this);
  var source = this;
  var destination = arguments[1];

  if (typeof options === 'function') {
    destination = arguments[0];
    options = arguments[1];
    if (!options || options.end !== false) {
      options = {
        end: true
      };
    }
  }

  function ondata(chunk) {
    if (destination.writable) {
      if (false === destination.write(chunk) && source.pause) {
        source.pause();
      }
    }
  }

  source.on('data', ondata);

  function ondrain() {
    if (source.readable && source.resume) {
      source.resume();
    }
  }

  destination.on('drain', ondrain);

  if (!destination._isStdio && options.end !== false) {
    source.on('end', onend);
    source.on('close', onclose);
  }

  var didOnEnd = false;
  function onend() {
    if (didOnEnd) return;
    didOnEnd = true;
    if (typeof source.destroy === 'function') source.destroy();
  }

  function onclose() {
    if (didOnEnd) return;
    didOnEnd = true;
    if (typeof
```
arguments
var args = new Array(arguments.length - 1);\nfor (var i = 0; i < args.length; i++) {\n    args[i] = arguments[i + 1];\n} // Store and register the task\nvar task = {\n    callback: callback,\n    args: args\n};\n\nfunction clearImmediate(handle) {\n    delete tasksByHandle[handle];\n} // \nfunction run(task) {\n    var callback = task.callback;\n    var args = task.args;\n    switch (args.length) {\n        case 0: \n            callback();\n            break;\n        case 1: \n            callback(args[0]);\n            break;\n        case 2: \n            callback(args[0], args[1]);\n            break;\n        default:\n            callback.apply(undefined, args);\n            break;\n    } \n} \n\nfunction installNextTickImplementation() {\n    registerImmediate = function(handle) {\n        process.nextTick(function () {\n            runIfPresent(handle);\n        });\n    } \n} \n\nfunction canUsePostMessage() {\n    // The test against 'importScripts' prevents this implementation from being installed inside a web worker,\n    // where 'global.postMessage' means something completely different and can't be used for this purpose.\n    if (global.postMessage && !global.importScripts) {\n        var postMessageIsAsynchronous = true;\n        var oldOnMessage = global.onmessage;\n        global.onmessage = function(event) {\n            if (event.source === global) {\n                postMessageIsAsynchronous = false;\n            } global.postMessage("", "*");\n            postMessageIsAsynchronous = true;\n            var oldOnMessage = global.onmessage;\n        } return postMessageIsAsynchronous;\n    } \n} \n\nfunction installPostMessageImplementation() {\n    // Installs an event handler on 'global' for the 'message' event: see\n    // * https://developer.mozilla.org/en/DOM/window.postMessage\n    // * http://www.whatwg.org/specs/web-apps/current-work/multipage/comms.html#crossDocumentMessages\n    var messagePrefix = "setImmediate" + Math.random() + "$";\n    var onGlobalMessage = function(event) {\n        if (event.source === global && typeof event.data === "string" && event.data.indexOf(messagePrefix) === 0) {\n            runIfPresent(+event.data.slice(messagePrefix.length));\n        } else {\n            var task = \n                arguments\n            } finally {\n                clearImmediate(handle);\n                currentlyRunningATask = false;\n            } \n} \n\nfunction installReadyStateChangeImplementation() {\n    var channel = new MessageChannel();\n    channel.port1.onmessage = function(event) {\n        var handle = event.data;\n        runIfPresent(handle);\n    } \n    var registerImmediate = function(handle) {\n        channel.port2.postMessage(handle);\n    } \n    var function installSetTimeoutImplementation() {\n        registerImmediate = function(handle) {\n            setTimeout(runIfPresent, 0, handle);\n        } \n    } \n    var function installSetImmediateImplementation() {\n        registerImmediate = function(handle) {\n            setTimeout(runIfPresent, 0, handle);\n        } \n    } // Delay by doing a setTimeout. setImmediate was tried instead, but in Firefox 7 it generated a\n    // 'too much recursion' error.\n    // SetImmediate is not as asynchronous as setTimeout.\n    // See patch linked above.\n    var running = false;\n    \n    var postMessageIsAsynchronous = true;\n    var oldOnMessage = global.onmessage;\n    global.onmessage = function(event) {\n        if (event.source === global) {\n            postMessageIsAsynchronous = false;\n        } \n    } \n    \n    var html = doc.documentElement;
    \n    html.removeChild(script);
    \n    script = null;\n}
```javascript
/**
 * Module exports.
 */

module.exports = deprecate;

/**
 * Mark that a
 * method should not be used.
 * Returns a modified function which warns once by default.
 * * `fn` - the function to deprecate
 * * `msg` - the string to print to the console when `fn` is invoked
 * * `options` - additional options
 * @param {Function} fn - the function to deprecate
 * @param {String} msg - the string to print to the console when `fn` is invoked
 * @param {Object} options - additional options
 * @returns {Function} a new "deprecated" version of `fn`
 * @api public
 */

function deprecate
```

```javascript
var isSymbol = require('./is-symbol');

module.exports = function (value) {
  if (!isSymbol(value)) throw new TypeError(value + " is not a symbol");
  return value;
};
```

```javascript
var hasOwnProperty = Object.prototype.hasOwnProperty;

module.exports = function (obj) {
  if (typeof obj !== 'function') return false;
  if (obj.length === undefined) return false;
  var i, length = obj.length;
  for (i = 0; i < length; ++i) {
    if (typeof obj[i] !== 'function') return false;
  }
  return true;
};
```

```javascript
var callable = require("es5-ext/object/valid-callable");

module.exports = function (userNormalizer) {
  var normalizer;
  if (typeof userNormalizer === "function") return { set: userNormalizer, get: userNormalizer };
  normalizer = { get: callable(userNormalizer.get),
    set: callable(userNormalizer.set),
    delete: callable(userNormalizer.delete),
    clear: callable(userNormalizer.clear) }
  return normalizer;
};
```

```javascript
var hasOwnProperty = Object.prototype.hasOwnProperty;

module.exports = function (obj) {
  if (typeof obj !== 'function') return false;
  if (obj.length === undefined) return false;
  var i, length = obj.length;
  for (i = 0; i < length; ++i) {
    if (typeof obj[i] !== 'function') return false;
  }
  return true;
};
```

```javascript
var hasOwnProperty = Object.prototype.hasOwnProperty;

module.exports = function (obj) {
  if (typeof obj !== 'function') return false;
  if (obj.length === undefined) return false;
  var i, length = obj.length;
  for (i = 0; i < length; ++i) {
    if (typeof obj[i] !== 'function') return false;
  }
  return true;
};
```

```javascript
var hasOwnProperty = Object.prototype.hasOwnProperty;

module.exports = function (obj) {
  if (typeof obj !== 'function') return false;
  if (obj.length === undefined) return false;
  var i, length = obj.length;
  for (i = 0; i < length; ++i) {
    if (typeof obj[i] !== 'function') return false;
  }
  return true;
};
```

```javascript
var hasOwnProperty = Object.prototype.hasOwnProperty;

module.exports = function (obj) {
  if (typeof obj !== 'function') return false;
  if (obj.length === undefined) return false;
  var i, length = obj.length;
  for (i = 0; i < length; ++i) {
    if (typeof obj[i] !== 'function') return false;
  }
  return true;
};
```

```javascript
var hasOwnProperty = Object.prototype.hasOwnProperty;

module.exports = function (obj) {
  if (typeof obj !== 'function') return false;
  if (obj.length === undefined) return false;
  var i, length = obj.length;
  for (i = 0; i < length; ++i) {
    if (typeof obj[i] !== 'function') return false;
  }
  return true;
};
```

```javascript
var hasOwnProperty = Object.prototype.hasOwnProperty;

module.exports = function (obj) {
  if (typeof obj !== 'function') return false;
  if (obj.length === undefined) return false;
  var i, length = obj.length;
  for (i = 0; i < length; ++i) {
    if (typeof obj[i] !== 'function') return false;
  }
  return true;
};
```
create(null), cache = create(null), promises = create(null);\n\n\tif (mode === true) {\n\t\tmode = null;\n\t} else
{\n\t\tmode = ensureString(mode);\n\t\tif (!supportedModes[mode]) {\n\t\t\tthrow new TypeError(\"'\" +
toShortString(mode) + \"' is not valid promise mode\");\n\t\t}\n\t}\n\n\t// After not from cache call\n\tconf.on(\"set\",
function (id, ignore, promise) {\n\t\tvar isFailed = false;\n\n\t\tif (!isPromise(promise)) {\n\t\t\t// Non promise
result\n\t\t\tcache[id] = promise;\n\t\t\tconf.emit(\"setasync\", id, 1);\n\t\t\treturn;\n\t\t}\n\t\twaiting[id] =
1;\n\t\tpromises[id] = promise;\n\t\tvar onSuccess = function (result) {\n\t\t\tvar count = waiting[id];\n\t\t\tif
(isFailed) {\n\t\t\t\tthrow new Error(\n\t\t\t\t\t\"Memoizee error: Detected unordered then|done & finally resolution,
which \" +\n\t\t\t\t\t\t\"in turn makes proper detection of success/failure impossible (when in \"
+\n\t\t\t\t\t\t\"'done:finally' mode)\\n\" +\n\t\t\t\t\t\t\"Consider to rely on 'then' or 'done' mode
instead.\"\n\t\t\t\t);\n\t\t\t}\n\t\t\tif (!count) return; // Deleted from cache before resolved\n\t\t\tdelete
waiting[id];\n\t\t\tcache[id] = result;\n\t\t\tconf.emit(\"setasync\", id, count);\n\t\t};\n\t\tvar onFailure = function ()
{\n\t\t\tisFailed = true;\n\t\t\tif (!waiting[id]) return; // Deleted from cache (or succeed in case of finally)\n\t\t\tdelete
waiting[id];\n\t\t\tdelete promises[id];\n\t\t\tconf.delete(id);\n\t\t};\n\n\t\tvar resolvedMode = mode;\n\t\tif
(!resolvedMode) resolvedMode = \"then\";\n\n\t\tif (resolvedMode === \"then\") {\n\t\t\tvar nextTickFailure =
function () { nextTick(onFailure); };\n\t\t\t// Eventual finally needs to be attached to non rejected promise\n\t\t\t// (so
we not force propagation of unhandled rejection)\n\t\t\tpromise = promise.then(function (result)
{\n\t\t\t\tnextTick(onSuccess.bind(this, result));\n\t\t\t}, nextTickFailure);\n\t\t\t// If `finally` is a function we attach
to it to remove cancelled promises.\n\t\t\tif (typeof promise.finally === \"function\")
{\n\t\t\t\tpromise.finally(nextTickFailure);\n\t\t\t}\n\t\t} else if (resolvedMode === \"done\") {\n\t\t\t// Not
recommended, as it may mute any eventual \"Unhandled error\" events\n\t\t\tif (typeof promise.done !==
\"function\") {\n\t\t\t\tthrow new Error(\n\t\t\t\t\t\"Memoizee error: Retrieved promise does not implement 'done' \"
+\n\t\t\t\t\t\t\"in 'done' mode\"\n\t\t\t\t);\n\t\t\t}\n\t\t\tpromise.done(onSuccess, onFailure);\n\t\t} else if
(resolvedMode === \"done:finally\") {\n\t\t\t// The only mode with no side effects assuming library does not throw
unconditionally\n\t\t\t// for rejected promises.\n\t\t\tif (typeof promise.done !== \"function\") {\n\t\t\t\tthrow new
Error(\n\t\t\t\t\t\"Memoizee error: Retrieved promise does not implement 'done' \" +\n\t\t\t\t\t\t\"in 'done:finally'
mode\"\n\t\t\t\t);\n\t\t\t}\n\t\t\tif (typeof promise.finally !== \"function\") {\n\t\t\t\tthrow new
Error(\n\t\t\t\t\t\"Memoizee error: Retrieved promise does not implement 'finally' \" +\n\t\t\t\t\t\t\"in 'done:finally'
mode\"\n\t\t\t\t);\n\t\t\t}\n\t\t\tpromise.done(onSuccess);\n\t\t\tpromise.finally(onFailure);\n\t\t}\n\t});\n\n\t// From
cache (sync)\n\tconf.on(\"get\", function (id, args, context) {\n\t\tvar promise;\n\t\tif (waiting[id])
{\n\t\t\t++waiting[id]; // Still waiting\n\t\t\treturn;\n\t\t}\n\t\tpromise = promises[id];\n\t\tvar emit = function () {
conf.emit(\"getasync\", id, args, context); };\n\t\tif (isPromise(promise)) {\n\t\t\tif (typeof promise.done ===
\"function\") promise.done(emit);\n\t\t\telse {\n\t\t\t\tpromise.then(function () { nextTick(emit); });\n\t\t\t}\n\t\t} else
{\n\t\t\temit();\n\t\t}\n\t});\n\n\t// On delete\n\tconf.on(\"delete\", function (id) {\n\t\tdelete promises[id];\n\t\tif
(waiting[id]) {\n\t\t\tdelete waiting[id];\n\t\t\treturn; // Not yet resolved\n\t\t}\n\t\tif (!hasOwnProperty.call(cache,
id)) return;\n\t\tvar result = cache[id];\n\t\tdelete cache[id];\n\t\tconf.emit(\"deleteasync\", id, [result]);\n\t});\n\n\t//
On clear\n\tconf.on(\"clear\", function () {\n\t\tvar oldCache = cache;\n\t\tcache = create(null);\n\t\twaiting =
create(null);\n\t\tpromises = create(null);\n\t\tconf.emit(\"clearasync\", objectMap(oldCache, function (data) { return
[data]; }));\n\t});\n};\n","\"use strict\";\n\nvar forEach = Array.prototype.forEach, create = Object.create;\n\n//
eslint-disable-next-line no-unused-vars\nmodule.exports = function (arg /*, …args*/) {\n\tvar set =
create(null);\n\tforEach.call(arguments, function (name) {\n\t\tset[name] = true;\n\t});\n\treturn set;\n};\n","\"use
strict\";\n\nvar ensureValue = require(\"./valid-value\")\n , stringifiable = require(\"./validatestringifiable\");\n\nmodule.exports = function (value) {\n\treturn stringifiable(ensureValue(value));\n};\n","\"use
strict\";\n\nvar isCallable = require(\"./is-callable\");\n\nmodule.exports = function (stringifiable) {\n\ttry {\n\t\tif
(stringifiable && isCallable(stringifiable.toString)) return stringifiable.toString();\n\t\treturn
String(stringifiable);\n\t} catch (e) {\n\t\tthrow new TypeError(\"Passed argument cannot be
stringifed\");\n\t}\n};\n","\"use strict\";\n\nvar safeToString = require(\"./safe-to-string\");\n\nvar reNewLine =
/[\\n\\r\\u2028\\u2029]/g;\n\nmodule.exports = function (value) {\n\tvar string = safeToString(value);\n\t// Trim if
too long\n\tif (string.length > 100) string = string.slice(0, 99) + \"…\";\n\t// Replace eventual new lines\n\tstring =

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```javascript
/*
 * A JavaScript implementation of the Secure Hash Algorithm, SHA-0, as defined
 * in FIPS PUB 180-1
 * This source code is derived from sha0.js of the same repository.
 * The difference between SHA-0 and SHA-1 is just a bitwise rotate left
 * operation was added.
 */

var inherits = require('inherits')

var Hash = require('./hash')

var Buffer = require('safe-buffer').Buffer

var K = [0x5a827999, 0x6ed9eba1, 0x8f1bbcdc | 0, 0xca62c1d6 | 0]

var W = new Array(80)

function Sha () {
  this.init()
  this._w = W

  Hash.call(this, 64, 56)
}

inherits(Sha, Hash)

Sha.prototype.init = function () {
  this._a = 0x67452301
  this._b = 0xefcdab89
  this._c = 0x98badcfe
  this._d = 0x10325476
  this._e = 0xc3d2e1f0

  return this
}

function rotl5 (num) {
  return (num << 5) | (num >>> 27)
}

function rotl30 (num) {
  return (num << 30) | (num >>> 2)
}

function ft (s, b, c, d) {
  if (s === 0) return (b & c) | ((~b) & d)
  if (s === 2) return (b & c) | (b & d) | (c & d)
  return b ^ c ^ d
}

Sha.prototype._update = function (M) {
  var W = this._w

  var a = this._a | 0
  var b = this._b | 0
  var c = this._c | 0
  var d = this._d | 0
  var e = this._e | 0

  for (var i = 0; i < 16; ++i) W[i] = M.readInt32BE(i * 4)

  for (var j = 0; j < 80; ++j) W[j] = (rotl5(a) + ft(j / 20, b, c, d) + e + W[j] + K[s]) | 0

  this._a = (a + this._a) | 0
  this._b = (b + this._b) | 0
  this._c = (c + this._c) | 0
  this._d = (d + this._d) | 0
  this._e = (e + this._e) | 0
}

module.exports = Sha
```

inherits(Sha1, Hash)

Sha1.prototype.init = function () {
  this._a = 0x67452301
  this._b = 0xEFcdab89
  this._c = 0x98badcfe
  this._d = 0x10325476
}

Sha1.prototype._update = function (M) {
  var W = this._w

  var a = this._a | 0
  var b = this._b | 0
  var c = this._c | 0
  var d = this._d | 0

  for (var i = 0; i < 16; ++i) W[i] = M.readInt32BE(i * 4)

  for (var j = 0; j < 80; ++j) {
    var s = ~~(j / 20)
    var t = (rotl5(a) + ft(s, b, c, d) + e + W[j] + K[s]) | 0

    e = d
    d = c
    c = rotl30(b)
    b = a
  }

  this._a = (a + this._a) | 0
  this._b = (b + this._b) | 0
  this._c = (c + this._c) | 0
  this._d = (d + this._d) | 0

  this._hash = function () {
    var H = Buffer.allocUnsafe(20)
    H.writeInt32BE(this._a, 0)
    H.writeInt32BE(this._b, 4)
    H.writeInt32BE(this._c, 8)
    H.writeInt32BE(this._d, 12)

    return H
  }

  module.exports = Sha1
}

/**
 * A JavaScript implementation of the Secure Hash Algorithm, SHA-256,
 * as defined in FIPS 180-2
 *
 */

var inherits = require('inherits')
var Sha256 = require('./sha256')
var Hash = require('./hash')
var Buffer = require('safe-buffer').Buffer

var W = new Array(64)

function Sha224 () {
  this.init()

  this._w = W

  Hash.call(this, 64, 56)
}

inherits(Sha224, Sha256)

Sha224.prototype.init = function () {
  this._a = 0xc1059ed8
  this._b = 0x367cd507
  this._c = 0x3070dd17
  this._d = 0xf70e5939
  this._e = 0xffc00b31
  this._f = 0x68581511
  this._g = 0x64f98fa7
  this._h = 0xbefa4fa4

  return this
}

Sha224.prototype._hash = function () {
  var H = Buffer.allocUnsafe(28)

  function writeInt64BE (h, l, offset) {
    H.writeInt32BE(h, offset)
    H.writeInt32BE(l, offset + 4)
  }

  writeInt64BE(this._ah, this._al, 0)
  writeInt64BE(this._bh, this._bl, 8)
  writeInt64BE(this._ch, this._cl, 16)
  writeInt64BE(this._dh, this._dl, 24)

  return H
}

module.exports = Sha224

/**
 * The base implementation of `_.reduce` and `_.reduceRight`, without support
 * for iteratee shorthands, which iterates over `collection` using `eachFunc`.
 *
 * @private
 * @param {Array|Object} collection The collection to iterate
 * over.
 * @param {Function} iteratee The function invoked per iteration.
 * @param {*} accumulator The initial value.
 * @param {boolean} initAccum Specify using the first or last element of
 * `collection` as the initial value.
 * @param {Function} eachFunc The function to iterate over `collection`.
 * @returns {*} Returns the accumulated value.
 */
function baseReduce(collection, iteratee, accumulator, initAccum, eachFunc) {
  eachFunc(collection, function(value, index, collection) {
    accumulator = initAccum
      ? (initAccum = false, value)
      : iteratee(accumulator, value, index, collection);
  });
  return accumulator;
}

module.exports = baseReduce;
unhandled rejections tracking support, NodeJS Promise without it fails @@species test\n return (isNode || typeof
PromiseRejectionEvent == 'function')\n && promise.then(empty) instanceof FakePromise\n
// v8 6.6 (Node
10 and Chrome 66) have a bug with resolving custom thenables\n
//
https://bugs.chromium.org/p/chromium/issues/detail?id=830565\n
// we can't detect it synchronously, so just
check versions\n
&& v8.indexOf('6.6') !== 0\n
&& userAgent.indexOf('Chrome/66') === -1;\n } catch (e) {
/* empty */ }\n}();\n\n// helpers\nvar isThenable = function (it) {\n var then;\n return isObject(it) && typeof (then
= it.then) == 'function' ? then : false;\n};\nvar notify = function (promise, isReject) {\n if (promise._n) return;\n
promise._n = true;\n var chain = promise._c;\n microtask(function () {\n var value = promise._v;\n var ok =
promise._s == 1;\n var i = 0;\n var run = function (reaction) {\n
var handler = ok ? reaction.ok :
reaction.fail;\n
var resolve = reaction.resolve;\n
var reject = reaction.reject;\n
var domain =
reaction.domain;\n
var result, then, exited;\n
try {\n
if (handler) {\n
if (!ok) {\n
if (promise._h
== 2) onHandleUnhandled(promise);\n
promise._h = 1;\n
}\n
if (handler === true) result =
value;\n
else {\n
if (domain) domain.enter();\n
result = handler(value); // may throw\n
if
(domain) {\n
domain.exit();\n
exited = true;\n
}\n
}\n
if (result ===
reaction.promise) {\n
reject(TypeError('Promise-chain cycle'));\n
} else if (then = isThenable(result))
{\n
then.call(result, resolve, reject);\n
} else resolve(result);\n
} else reject(value);\n
} catch (e)
{\n
if (domain && !exited) domain.exit();\n
reject(e);\n
}\n };\n while (chain.length > i)
run(chain[i++]); // variable length - can't use forEach\n promise._c = [];\n promise._n = false;\n if (isReject
&& !promise._h) onUnhandled(promise);\n });\n};\nvar onUnhandled = function (promise) {\n task.call(global,
function () {\n var value = promise._v;\n var unhandled = isUnhandled(promise);\n var result, handler,
console;\n if (unhandled) {\n
result = perform(function () {\n
if (isNode) {\n
process.emit('unhandledRejection', value, promise);\n
} else if (handler = global.onunhandledrejection) {\n
handler({ promise: promise, reason: value });\n
} else if ((console = global.console) && console.error) {\n
console.error('Unhandled promise rejection', value);\n
}\n
});\n
// Browsers should not trigger
`rejectionHandled` event if it was handled here, NodeJS - should\n
promise._h = isNode || isUnhandled(promise)
? 2 : 1;\n } promise._a = undefined;\n if (unhandled && result.e) throw result.v;\n });\n};\nvar isUnhandled =
function (promise) {\n return promise._h !== 1 && (promise._a || promise._c).length === 0;\n};\nvar
onHandleUnhandled = function (promise) {\n task.call(global, function () {\n var handler;\n if (isNode) {\n
process.emit('rejectionHandled', promise);\n } else if (handler = global.onrejectionhandled) {\n
handler({
promise: promise, reason: promise._v });\n }\n });\n};\nvar $reject = function (value) {\n var promise = this;\n if
(promise._d) return;\n promise._d = true;\n promise = promise._w || promise; // unwrap\n promise._v = value;\n
promise._s = 2;\n if (!promise._a) promise._a = promise._c.slice();\n notify(promise, true);\n};\nvar $resolve =
function (value) {\n var promise = this;\n var then;\n if (promise._d) return;\n promise._d = true;\n promise =
promise._w || promise; // unwrap\n try {\n if (promise === value) throw TypeError(\"Promise can't be resolved
itself\");\n if (then = isThenable(value)) {\n
microtask(function () {\n
var wrapper = { _w: promise, _d:
false }; // wrap\n
try {\n
then.call(value, ctx($resolve, wrapper, 1), ctx($reject, wrapper, 1));\n
} catch
(e) {\n
$reject.call(wrapper, e);\n
}\n
});\n } else {\n
promise._v = value;\n
promise._s = 1;\n
notify(promise, false);\n }\n } catch (e) {\n $reject.call({ _w: promise, _d: false }, e); // wrap\n }\n};\n\n//
constructor polyfill\nif (!USE_NATIVE) {\n // 25.4.3.1 Promise(executor)\n $Promise = function
Promise(executor) {\n anInstance(this, $Promise, PROMISE, '_h');\n aFunction(executor);\n
Internal.call(this);\n try {\n
executor(ctx($resolve, this, 1), ctx($reject, this, 1));\n } catch (err) {\n
$reject.call(this, err);\n }\n };\n // eslint-disable-next-line no-unused-vars\n Internal = function
Promise(executor) {\n this._c = [];
// <- awaiting reactions\n this._a = undefined;
// <- checked in
isUnhandled reactions\n this._s = 0;
// <- state\n this._d = false;
// <- done\n this._v = undefined;
// <- value\n this._h = 0;
// <- rejection state, 0 - default, 1 - handled, 2 - unhandled\n this._n = false;
// <- notify\n };\n Internal.prototype = require('./_redefine-all')($Promise.prototype, {\n // 25.4.5.3
Promise.prototype.then(onFulfilled, onRejected)\n then: function then(onFulfilled, onRejected) {\n
var reaction
= newPromiseCapability(speciesConstructor(this, $Promise));\n
reaction.ok = typeof onFulfilled == 'function' ?

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$export.R, 'Promise', { 'finally': function (onFinally) {
  var C = speciesConstructor(this, core.Promise || global.Promise);
  var isFunction = typeof onFinally === 'function';
  var returnThisThen = onFinally.isFunction ? function (x) {
    return promiseResolve(C, onFinally()).then(function () {
      return x;
    });
  } : onFinally;
  isFunction ? function (e) {
    return promiseResolve(C, onFinally()).then(function() {
      throw e;
    });
  } : onFinally
} });
''use strict'';
// https://github.com/tc39/proposal-promise-try
$export('Promise', { 'try': function (callbackfn) {
  var promiseCapability = newPromiseCapability.f(this);
  var result = perform(callbackfn);
  (result.e ? promiseCapability.reject : promiseCapability.resolve(result.v)).
    return promiseCapability.promise;
} });
/**
 * Copyright (c) 2014-present, Facebook, Inc.
 *
 * This source code is licensed under the MIT license found in the LICENSE file in the root directory of this source tree.
 */

var runtime = (function (exports) {
  "use strict";

  var Op = Object.prototype;
  var hasOwn = Op.hasOwnProperty;
  var undefined; // More compressible than void 0.
  var $Symbol = typeof Symbol === "function" ? Symbol : {};
  var iteratorSymbol = $Symbol.iterator || "@@iterator";
  var asyncIteratorSymbol = $Symbol.asyncIterator || "@@asyncIterator";
  var toStringTagSymbol = $Symbol.toStringTag || "@@toStringTag";

  function wrap(innerFn, outerFn, self, tryLocsList) {
    var protoGenerator = outerFn && outerFn.prototype instanceof Generator ? outerFn : Generator;
    var generator = Object.create(protoGenerator.prototype);
    var context = new Context(tryLocsList || []);

    generator._invoke = makeInvokeMethod(innerFn, self, context);

    return generator;
  }
  exports.wrap = wrap;

  // This implementation is very heavy.
  // Use typeof this instead of typeof this.constructor.
  // After function tryCatch(fn, obj, arg) {
  //   try {
  //     return { type: "normal", arg: fn.call(obj, arg) };
  //   } catch (err) {
  //     return { type: "throw", arg: err };
  //   }
  // } is added to the code block at the end
  function tryCatch(fn, obj, arg) {
    try {
      return { type: "normal", arg: fn.call(obj, arg) };
    } catch (err) {
      return { type: "throw", arg: err };
    }
  }

  var GenStateSuspendedStart = "suspendedStart";
  var GenStateSuspendedYield = "suspendedYield";
  var GenStateExecuting = "executing";
  var GenStateCompleted = "completed";

  // This method is included for the compatibility with other
  // implementations which are不出来 this method.
  var ContinueSentinel = {};

  // Dummy constructor functions that we use as the .constructor and .constructor.prototype properties for
  // functions that return Generator objects. For full spec compliance, you may wish to configure your
  // minifier not to mangle the names of these two functions.
  function GeneratorFunction() {}
  function GeneratorFunctionPrototype() {}

  // This is a polyfill for %IteratorPrototype% for environments that
  // don't natively support it.
  function IteratorPrototype(ctorSymbol) {
    var constructor = constructor(ctorSymbol);
    var prototype = prototype(ctorSymbol);
    function () {
      var returnThis;
    }
  ;
  }

  exports.isGeneratorFunction = function (genFun) {
    var Ctor = typeof genFun === "function" &&
  // hasOwnProperty is checked for browsers.
  // HasOwnProperty is checked for NodeJS
  // environments because it's faster with strict mode.
  return hasOwnProperty.call(genFun, "constructor");
  };
throw record.arg;
      }

      if (record.type === "break" ||
          record.type === "continue") {
        this.next = record.arg;
      } else if (record.type === "return") {
        this.rval = this.arg = record.arg;
        this.method = "return";
        this.next = "end";
      } else if (record.type === "normal" && afterLoc) {
        this.next = afterLoc;
      }

      return ContinueSentinel;
    },

    finish: function(finallyLoc) {
      for (var i = this.tryEntries.length - 1; i >= 0; --i) {
        var entry = this.tryEntries[i];
        if (entry.finallyLoc === finallyLoc) {
          this.complete(entry.completion, entry.afterLoc);
          resetTryEntry(entry);
          return ContinueSentinel;
        }
      }
    },

    "catch": function(tryLoc) {
      for (var i = this.tryEntries.length - 1; i >= 0; --i) {
        var entry = this.tryEntries[i];
        if (entry.tryLoc === tryLoc) {
          var record = entry.completion;
          if (record.type === "throw") {
            var thrown = record.arg;
            resetTryEntry(entry);
          }
          return thrown;
        }
      }

      // The context.catch method must only be called with a location
      // argument that corresponds to a known catch block.
      throw new Error("illegal catch attempt");
    },

    delegateYield: function(iterable, resultName, nextLoc) {
      this.delegate = {
        iterator: values(iterable),
        resultName: resultName,
        nextLoc: nextLoc
      };

      if (this.method === "next") {
        // Deliberately forget the last sent value so that we don't // accidentally pass it on to the
        // delegate
        this.arg = undefined;
      }

      return ContinueSentinel;
    }
  };

  // Regardless of whether
  // this script is executing as a CommonJS module
  // or not, return the runtime object so that we can declare the
  // require() method in the outer scope, which allows this module to be
  // injected easily by
  // regenerator --include-runtime script.js.

  // If this script is executing as a CommonJS
  // module, use module.exports
  // as the regeneratorRuntime namespace. Otherwise create a new empty
  // object.
  Either way, the resulting object will be used to initialize
  // the regeneratorRuntime variable at the top of this file.

  // This is the runtime environment run by the regenerator
  // module, which can be replaced non-destructively
  // during tests.

  return exports;

}(
  // If this script is executing as a CommonJS
  // module, use module.exports
  // as the regeneratorRuntime namespace. Otherwise create a new empty
  // object.

  typeof module === "object" ? module.exports : {});

try {
  regeneratorRuntime = runtime;
} catch (accidentalStrictMode) {
  // This module should not be running in strict mode, so the above
  // assignment should always work unless something is misconfigured.
  Just // in case runtime.js accidentally runs in strict mode,
  // we can escape
  // strict mode using a global Function call. This could conceivably fail
  // if a Content Security
  // Policy forbids using Function, but in that case
  // the proper solution is to fix the accidental strict mode problem.

  // If
  // you've misconfigured your bundler to force strict mode and applied
  // a CSP to forbid Function, and you're not willing to fix either of those
  // problems, please detail your unique predicament in a GitHub issue.

  Function("r", "regeneratorRuntime = r")(runtime);
}

/*eslint-disable max-len,no-use-before-define*/

var common = require('./common');
var YAMLException = require('./exception');
var Mark = require('./mark');
var DEFAULT_SAFE_SCHEMA = require('./schema/default_safe');
var

// Deprecated schema names from JS-YAML 2.0.x
module.exports.MINIMAL_SCHEMA = require('./schema/minimal');
module.exports.SAFE_SCHEMA = require('./schema/safe');
module.exports.DEFAULT_SCHEMA = require('./schema/default');
module.exports.FAILSafe_SCHEMA = require('./schema/failsafe');
module.exports.JSON_SCHEMA = require('./schema/json');
module.exports.CORE_SCHEMA = require('./schema/core');

// Deprecated functions from JS-YAML 1.x.x
module.exports.scan = deprecated('scan');
module.exports.parse = deprecated('parse');
module.exports.compose = deprecated('compose');
module.exports.addConstructor = deprecated('addConstructor');

var

// Deprecated schema
module.exports.MINIMAL_SCHEMA = require('./schema/minimal');
module.exports.SAFE_SCHEMA = require('./schema/safe');
module.exports.DEFAULT_SCHEMA = require('./schema/default');

// Deprecated functions
module.exports.scan = deprecated('scan');
module.exports.parse = deprecated('parse');
module.exports.compose = deprecated('compose');
module.exports.addConstructor = deprecated('addConstructor');
function captureSegment(state, start, end, checkJson) {
  var _position, _length, _character, _result;

  if (start < end) {
    _result = state.input.slice(start, end);

    if (checkJson) {
      for (_position = 0, _length = _result.length; _position < _length; _position += 1) {
        _character = _result.charCodeAt(_position);
        if (!(_character === 0x09 ||
              (0x20 <= _character && _character <= 0x10FFFF))) {
          throwError(state, 'expected valid JSON character');
        }
      }
    } else if (PATTERN_NON_PRINTABLE.test(_result)) {
      throwError(state, 'the stream contains non-printable characters');
    }

    state.result += _result;
  }
}

function mergeMappings(state, destination, source, overridableKeys) {
  var sourceKeys, key, index, quantity;

  if (!common.isObject(source)) {
    throwError(state, 'cannot merge mappings; the provided source object is unacceptable');
  }

  sourceKeys = Object.keys(source);

  for (index = 0, quantity = sourceKeys.length; index < quantity; index += 1) {
    key = sourceKeys[index];

    if (!_hasOwnProperty.call(destination, key)) {
      destination[key] = source[key];
      overridableKeys[key] = true;
    }
  }
}

function storeMappingPair(state, _result, overridableKeys, keyTag, keyNode, valueNode, startLine, startPos) {
  var index, quantity;

  if (_result === null) {
    _result = {};
  }

  if (keyTag === 'tag:yaml.org,2002:merge') {
    if (Array.isArray(valueNode)) {
      for (index = 0, quantity = valueNode.length; index < quantity; index += 1) {
        mergeMappings(state, _result, valueNode[index], overridableKeys);
      }
    } else {
      mergeMappings(state, _result, valueNode, overridableKeys);
    }
  } else {
    if (!state.json &&
        !_hasOwnProperty.call(overridableKeys, keyNode) &&
        _hasOwnProperty.call(_result, keyNode)) {
      state.line = startLine || state.line;
      state.position = startPos || state.position;
      throwError(state, 'duplicated mapping key');
    }
    _result[keyNode] = valueNode;
    delete overridableKeys[keyNode];
  }

  return _result;
}

function readLineBreak(state) {
  var ch;

  ch = state.input.charCodeAt(state.position);

  if (ch === 0x0A/* LF */) {
    state.position++;
  } else if (ch === 0x0D/* CR */) {
    state.position++;
    if (state.input.charCodeAt(state.position) === 0x0A/* LF */) {
      state.position++;
    } else {
      throwError(state, 'a line break is expected');
    }
  } else {
    break;
  }
}

function skipSeparationSpace(state, allowComments, checkIndent) {
  var lineBreaks = 0,
      ch = state.input.charCodeAt(state.position);

  while (ch !== 0) {
    while (is_WHITE_SPACE(ch)) {
      ch = state.input.charCodeAt(state.position);
      state.position++;
    }

    if (is_EOL(ch)) {
      readLineBreak(state);
      ch = state.input.charCodeAt(state.position);
    } else if (ch === 0x0A/* LF */) {
      state.position++;
    } else if (ch === 0x0D/* CR */) {
      state.position++;
    } else if (state.input.charCodeAt(state.position) === 0x0A/* LF */ &&
        state.position++;
    } else {
      throwError(state, 'a line break is expected');
      state.line += 1;
    }
  }

  if (checkIndent !== -1 && lineBreaks !== 0 && state.lineIndent < checkIndent) {
throwWarning(state, 'deficient indentation');

function testDocumentSeparator(state) {
  var _position = state.position;
  ch; 
  ch = state.input.charCodeAt(_position);

  // Condition state.position == state.lineStart is tested // in parent on each call, for efficiency. No needs to test here again.
  if ((ch === 0x2D/* - */ || ch === 0x2E/* . */) && ch === state.inputCharCodeAt(state.position + 1) &&
      ch === state.inputCharCodeAt(state.position + 2)) { 
    ch = state.inputCharCodeAt(state.position + 3);
    if (ch === 0 || is_WS_OR_EOL(ch)) { 
      return true;
    } else if (ch > 1) { 
      state.result += common.repeat('
', count - 1);
    } 
  } 

  return lineBreaks;
}

function testDocumentSeparator(state) {
  var _position = state.position,
      ch;

  ch = state.input.charCodeAt(_position);

  // Condition state.position === state.lineStart is tested // in parent on each call, for efficiency. No needs to test here again.
  if ((ch === 0x2D/* - */ || ch === 0x2E/* . */) && ch === state.inputCharCodeAt(state.position + 1) &&
      ch === state.inputCharCodeAt(state.position + 2)) { 
    _position += 3;
    ch = state.inputCharCodeAt(state.position + 3);
    if (ch === 0 || is_WS_OR_EOL(ch)) { 
      return false;
    } 
  }

  return false;
}

function writeFoldedLines(state, count) {
  if (count === 1) {
    state.result += ' ';
  } else if (count > 1) {
    state.result += common.repeat('
', count - 1);
  }
}


function readPlainScalar(state, nodeIndent, withinFlowCollection) {
  var preceding,
      following,
      captureStart,
      captureEnd,
      hasPendingContent,
      _line,
      _lineStart,
      _lineIndent,
      _kind = state.kind,
      _result = state.result,
      ch;

  ch = state.input.charCodeAt(state.position);

  if (is_WS_OR_EOL(ch) ||
      is_FLOW_INDICATOR(ch) ||
      ch === 0x23/* # */ ||
      ch === 0x26/* & */ ||
      ch === 0x2A/* * */ ||
      ch === 0x21/* ! */ ||
      ch === 0x7C/* | */ ||
      ch === 0x3E/* > */ ||
      ch === 0x27/* ' */ ||
      ch === 0x22/* " */ ||
      ch === 0x25/* % */ ||
      ch === 0x40/* @ */ ||
      ch === 0x60/* ` */) {
    return false;
  }

  if (ch === 0x3F/* ? */ || ch === 0x2D/* - */) {
    following = state.input.charCodeAt(state.position + 1);

    if (is_WS_OR_EOL(following) ||
        withinFlowCollection && is_FLOW_INDICATOR(following)) {
      return false;
    }
  }

  state.kind = 'scalar';
  state.result = '';
  captureStart = captureEnd = state.position;
  hasPendingContent = false;

  while (ch !== 0) {
    if (ch === 0x3A/* : */) {
      following = state.input.charCodeAt(state.position + 1);

      if (is_WS_OR_EOL(following) ||
          withinFlowCollection && is_FLOW_INDICATOR(following)) {
        break;
      } else if (ch === 0x23/* # */ ||
                  ch === 0x26/* & */ ||
                  ch === 0x2A/* * */ ||
                  ch === 0x21/* ! */ ||
                  ch === 0x7C/* | */ ||
                  ch === 0x3E/* > */ ||
                  ch === 0x27/* ' */ ||
                  ch === 0x22/* " */ ||
                  ch === 0x25/* % */ ||
                  ch === 0x40/* @ */ ||
                  ch === 0x60/* ` */) {
        return true;
      }

      fillSeparationSpace(state, false, -1);

      if (state.lineIndent >= nodeIndent) {
        hasPendingContent = true;
        ch = state.inputCharCodeAt(state.position);
        continue;
      } else {
        state.position = captureEnd;
        state.line = _line;
        state.lineStart = _lineStart;
        state.lineIndent = _lineIndent;
        break;
      }
    } else if (is_EOL(ch)) {
      preceding = state.input.charCodeAt(state.position - 1);

      if (is_WS_OR_EOL(preceding)) {
        break;
      } else if ((state.position === state.lineStart &&
                  testDocumentSeparator(state)) ||
                 withinFlowCollection &&
                 is_FLOW_INDICATOR(ch)) {
        break;
      } else if (is_EOL(ch)) {
        _line = state.line;
        _lineStart = state.lineStart;
        _lineIndent = state.lineIndent;
        skipSeparationSpace(state, false, -1);
      }

      if (state.lineIndent >= nodeIndent) {
        hasPendingContent = true;
        ch = state.inputCharCodeAt(state.position);
        continue;
      } else {
        state.position = captureEnd;
        state.line = _line;
        state.lineStart = _lineStart;
        state.lineIndent = _lineIndent;
        break;
      }
    } else if (hasPendingContent) {
      captureSegment(state, captureStart, captureEnd, false);
      writeFoldedLines(state, state.line - _line);
      captureStart = captureEnd = state.position;
      hasPendingContent = false;
    }
  }

  captureSegment(state, captureStart, captureEnd, false);
  captureStart = captureEnd = state.position;
  hasPendingContent = false;
}

function readSingleQuotedScalar(state, nodeIndent) {
  var captureStart,
      captureEnd,
      hexLength,
      hexResult,
      tmp,
      ch;

  ch = state.input.charCodeAt(state.position);

  if (ch !== 0x27/* ' */) {
    return false;
  }

  state.kind = 'scalar';
  state.result = '';
  state.position++;
  captureStart = captureEnd = state.position;
  hasPendingContent = false;

  while ((ch = state.inputCharCodeAt(state.position)) !== 0) {
    if (ch === 0x27/* ' */) {
      captureStart = captureEnd = state.position;
      hasPendingContent = true;
      ch = state.inputCharCodeAt(state.position); 
      if (ch !== 0x27/* ' */) {
        captureStart = captureEnd = state.position;
        hasPendingContent = false;
      } else if (is_EOL(ch)) {
        captureSegment(state, captureStart, captureEnd, true);
      } else if (is_WS_OR_EOL(ch)) {
        fillSeparationSpace(state, false, -1);
        captureStart = captureEnd = state.position;
        hasPendingContent = false;
      }
    } else if (state.position === state.lineStart &&
               testDocumentSeparator(state)) {
      throwWarning(state, 'unexpected end of the document within a single quoted scalar');
    } else if (state.position >= state.lineStart) {
      throwWarning(state, 'unexpected end of the stream within a single quoted scalar');
    }
  }

  captureSegment(state, captureStart, captureEnd, false);
  captureStart = captureEnd = state.position;
  hasPendingContent = false;
}

function readDoubleQuotedScalar(state, nodeIndent) {
  var captureStart,
      captureEnd,
      hexLength,
      hexResult,
      tmp,
      ch;

  ch = state.input.charCodeAt(state.position);

  if (ch !== 0x22/* " */) {
    return false;
  }

  state.kind = 'scalar';
  state.result = '';
  state.position++;
  captureStart = captureEnd = state.position;
  hasPendingContent = false;

  while ((ch = state.inputCharCodeAt(state.position)) !== 0) {
    if (ch === 0x22/* " */) {
      captureStart = captureEnd = state.position;
      hasPendingContent = true;
      ch = state.inputCharCodeAt(state.position);
      if (ch !== 0x22/* " */) {
        captureStart = captureEnd = state.position;
        hasPendingContent = false;
      } else if (is_EOL(ch)) {
        captureSegment(state, captureStart, captureEnd, true);
      } else if (is_WS_OR_EOL(ch)) {
        fillSeparationSpace(state, false, -1);
        captureStart = captureEnd = state.position;
        hasPendingContent = false;
      }
    } else if (state.position === state.lineStart &&
               testDocumentSeparator(state)) {
      throwWarning(state, 'unexpected end of the document within a single quoted scalar');
    } else if (state.position >= state.lineStart) {
      throwWarning(state, 'unexpected end of the stream within a single quoted scalar');
    }
  }

  captureSegment(state, captureStart, captureEnd, false);
  captureStart = captureEnd = state.position;
  hasPendingContent = false;
}
state.implicitTypes[typeIndex];

        // Implicit resolving is not allowed for non-scalar types, and '?'
        // non-specific tag is only assigned to plain scalars. So, it isn't
        // needed to check for 'kind' conformity.
        if (type.resolve(state.result)) {
          type.construct(state.result);
          state.tag = type.tag;
        }
      }
      else if (_hasOwnProperty.call(state.typeMap[state.kind || 'fallback'], state.tag)) {
        type = state.typeMap[state.kind || 'fallback'][state.tag];
        if (type.resolve(state.result)) {
          state.result = type.construct(state.result);
          state.tag = type.tag;
          if (state.anchor !== null) {
            state.anchorMap[state.anchor] = state.result;
          }
          break;
        }
      }
    } else if (_hasOwnProperty.call(state.typeMap[state.kind || 'fallback'], state.tag)) {
      type = state.typeMap[state.kind || 'fallback'][state.tag];
      if (!type.resolve(state.result)) { // `state.result` updated in resolver if matched
        throwError(state,
          'cannot resolve a node with !<' + state.tag + '> explicit tag');
      } else {
        state.result = type.construct(state.result);
        if (state.anchor !== null) {
          state.anchorMap[state.anchor] = state.result;
        }
      }
    } else {
      throwError(state, 'unknown tag !<' + state.tag + '>);
    }

  if (state.listener !== null) {
    state.listener('close', state);
  }
  return state.tag !== null || state.anchor !== null || hasContent;
}

function readDocument(state) {
  var documentStart = state.position,
      _position,
      directiveName,
      directiveArgs,
      hasDirectives = false,
      ch;

  state.version = null;
  state.checkLineBreaks = state.legacy;
  state.tagMap = {};
  state.anchorMap = {};

  while ((ch = state.input.charCodeAt(state.position)) !== 0) {
    skipSeparationSpace(state, true, -1);
    ch = state.input.charCodeAt(state.position);
    _position = state.position;
    while (ch !== 0 && !is_WS_OR_EOL(ch)) {
      ch = state.input.charCodeAt(++state.position);
    }
    directiveName = state.input.slice(_position, state.position);
    directiveArgs = [];
    if (directiveName.length < 1) {
      throwError(state, 'directive name must not be less than one character in length');
    }
    while (ch !== 0) {
      if (ch === 0x23/* # */) {
        do { ch = state.input.charCodeAt(++state.position); }
        while (ch !== 0 && !is_EOL(ch));
        break;
      }
      if (is_EOL(ch)) break;
      _position = state.position;
      while (ch !== 0 && !is_WS_OR_EOL(ch)) {
        ch = state.input.charCodeAt(++state.position);
      }
      directiveArgs.push(state.input.slice(_position, state.position));
    }
    if (ch !== 0) readLineBreak(state);
    if (_hasOwnProperty.call(directiveHandlers, directiveName)) {
      directiveHandlers[directiveName](state,
        directiveName, directiveArgs);
    } else {
      throwWarning(state, 'unknown document directive "' +
        directiveName + '"
      );
    }
    skipSeparationSpace(state, true, -1);
    if (state.lineIndent === 0 &&
      state.input.charCodeAt(state.position) === 0x2D/* - */ &&
      state.input.charCodeAt(state.position + 1) === 0x2D/* - */ &&
      state.input.charCodeAt(state.position + 2) === 0x2D/* - */) {
      state.position += 3;
    }
    skipSeparationSpace(state, true, -1);
  }

  throwWarning(state, 'end of the stream or a document separator is expected');
  return;
}

function loadDocuments(input, options) {
  input = String(input);
  options = options || {};

  if (input.length !== 0) {
    // Add tailing `\n` if not exists
    if (input.charCodeAt(input.length - 1) !== 0x0A/* LF */
      && state.input.charCodeAt(state.position + 2) !== 0x2D/* - */ &&
      & state.input.charCodeAt(state.position + 3) !== 0x2D/* - */) {
      state.position += 3;
    }
    skipSeparationSpace(state, true, -1);
    if (hasDirectives) {
      throwError(state,
        'directives end mark is expected');
    }
    state.documents.push(state.result);
  }

  return;
}
state.documents;


function loadAll(input, iterator, options) {
  var documents = loadDocuments(input, options),
      index, length;

  if (typeof iterator !== 'function') {
    return documents;
  }

  for (index = 0, length = documents.length; index < length; index += 1) {
    iterator(documents[index]);
  }
}


function load(input, options) {
  var documents = loadDocuments(input, options);

  if (documents.length === 0) {
    /*eslint-disable no-undefined*/
    return undefined;
  } else if (documents.length === 1) {
    return documents[0];
  } else {
    throw new YAMLException('expected a single document in the stream, but found more');
  }
}


function safeLoadAll(input, output, options) {
  if (typeof output === 'function') {
    loadAll(input, output, common.extend({ schema: DEFAULT_SAFE_SCHEMA }, options));
  } else {
    return loadAll(input, common.extend({ schema: DEFAULT_SAFE_SCHEMA }, options));
  }
}


function safeLoad(input, options) {
  return load(input, common.extend({ schema: DEFAULT_SAFE_SCHEMA }, options));
}


module.exports.loadAll     = loadAll;
module.exports.load        = load;
module.exports.safeLoadAll = safeLoadAll;
module.exports.safeLoad    = safeLoad;


result = [ ];

// Collect by 6*4 bits (3 bytes) for (idx = 0; idx < max; idx++) {
  if ((idx % 4 === 0) &&
  idx) {
    result.push((bits >> 16) & 0xFF);
    result.push((bits >> 8) & 0xFF);
    result.push(bits & 0xFF);
  }

  bits = (bits << 6) | map.indexOf(input.charAt(idx));
}

// Dump tail

if (tailbits === 0) {
  result.push((bits >> 16) & 0xFF);
  result.push((bits >> 8) & 0xFF);
  result.push(bits & 0xFF);
}

else if (tailbits === 18) {
  result.push((bits >> 10) & 0xFF);
  result.push((bits >> 2) & 0xFF);
}

else if (tailbits === 12) {
  result.push((bits >> 4) & 0xFF);
}

// Wrap into Buffer for NodeJS and leave

if (NodeBuffer) {
  // Support node 6.+ Buffer API when available
  return NodeBuffer.from(result);
}

return result;
}

function representYamlBinary(object /*, style*/) {
  var result = '', bits = 0, idx, tail,
      max = object.length,
      map = BASE64_MAP;

  // Convert every three bytes to 4 ASCII characters.

  for (idx = 0; idx < max; idx++) {
    if ((idx % 3 === 0) && idx) {
      result += map[(bits >> 18) & 0x3F];
      result += map[(bits >> 12) & 0x3F];
      result += map[(bits >> 6) & 0x3F];
      result += map[bits & 0x3F];
    }

    bits = (bits << 8) + object[idx];
  }

  // Dump tail

  tail = max % 3;

  if (tail === 0) {
    result += map[(bits >> 18) & 0x3F];
    result += map[(bits >> 12) & 0x3F];
    result += map[(bits >> 6) & 0x3F];
    result += map[bits & 0x3F];
  } else if (tail === 2) {
    result += map[(bits >> 10) & 0x3F];
    result += map[(bits >> 4) & 0x3F];
    result += map[(bits << 2) & 0x3F];
    result += map[64];
  } else if (tail === 1) {
    result += map[(bits >> 2) & 0x3F];
    result += map[(bits << 4) & 0x3F];
    result += map[64];
    result += map[64];
  }

  return result;
}

function isBinary(object) {
  return NodeBuffer && NodeBuffer.isBuffer(object);
}

module.exports = new Type('tag:yaml.org,2002:binary', {
  kind: 'scalar',
  resolve: resolveYamlBinary,
  construct: constructYamlBinary,
  predicate: isBinary,
  represent: representYamlBinary
});

function resolveYamlOmap(data) {
  if (data === null) return true;

  var objectKeys = [], index, length, pair, pairKey, pairHasKey, object = data;

  for (index = 0, length = object.length; index < length; index += 1) {
    pair = object[index];
    pairHasKey = false;

    if (_toString.call(pair) !== '[object Object]') return false;

    for (pairKey in pair) {
      if (_hasOwnProperty.call(pair, pairKey)) {
        if (!pairHasKey) pairHasKey = true;
        else return false;
      }
    }

    if (!pairHasKey) return false;

    if (objectKeys.indexOf(pairKey) === -1) objectKeys.push(pairKey);

    else return false;
  }

  return true;
}

function constructYamlOmap(data) {
  if (data === null) return data;

  var index, length, pair, keys, result,
      object = data;

  result = new Array(object.length);

  for (index = 0, length = object.length; index < length; index += 1) {
    pair = object[index];
    keys = Object.keys(pair);
    if (keys.length !== 1) return false;

    if (result[index] === undefined) return false;

    result[index] = [ keys[0], pair[keys[0]] ];
  }

  return result;
}

function isUndefined(object) {
  return typeof object === 'undefined';
}

module.exports = new
CHAR перепишите = 0x25; / * & */ var CHAR_SHARP = 0x23; / * & */ var CHAR_COMMA = 0x2C; / * & */ var CHAR_MINUS = 0x2D; / * & */ var CHAR_COLON = 0x3A; / * & */ var CHAR_GREATER_THAN = 0x3E; / * & */ var CHAR_QUESTION = 0x3F; / * & */ var CHAR_COMMERCIAL_AT = 0x40; / * & */ var CHAR_LEFT_SQUARE_BRACKET = 0x5B; / * & */ var CHAR_RIGHT_SQUARE_BRACKET = 0x5D; / * & */ var CHAR_GRAVE_ACCENT = 0x60; / * & */ var CHAR_LEFT_CURLY_BRACKET = 0x7B; / * & */ var CHAR_VERTICAL_LINE = 0x7C; / * & */ var CHAR_RIGHT_CURLY_BRACKET = 0x7D; / * & */ var ESCAPE_SEQUENCES = {'0': '0\0', 'a': 'a\a', 'b': 'b\b', 't': 't\t', 'n': 'n\n', 'v': 'v\v', 'f': 'f\f', 'r': 'r\r', 'e': 'e\e', '\': '\\\', 'N': 'N\N', '_': '_\_', 'L': 'L\L', 'P': 'P\P'}; / * & */ var DEPRECATED_BOOLEANS_SYNTAX = ['y', 'Y', 'yes', 'Yes', 'YES', 'on', 'on', 'n', 'no', 'No', 'NO', 'off', 'Off', 'OFF']; function compileStyleMap(schema, map) { var result, keys, index, length, tag, style, type; if (map === null) return {}; result = {}; keys = Object.keys(map); for (index = 0, length = keys.length; index < length; index += 1) { tag = keys[index]; style = String(map[tag]); if (tag.slice(0, 2) === '!!') { tag = 'tag:yaml.org,2002:' + tag.slice(2); } type = schema.compiledTypeMap['fallback'][tag]; if (type && _hasOwnProperty.call(type.styleAliases, style)) { style = type.styleAliases[style]; } result[tag] = style; } return result; } function encodeHex(character) { var string, handle, length; string = character.toString(16).toUpperCase(); if (character <= 0xFF) { handle = 'x'; length = 2; } else if (character <= 0xFFFF) { handle = 'u'; length = 4; } else if (character <= 0xFFFFFFFF) { throw new YAMLException('code point within a string may not be greater than 0xFFFFFFFF'); } return '\\' + handle + common.repeat('0', length - string.length) + string; } function State(options) { this.schema = options['schema'] || DEFAULT_FULL_SCHEMA; this.indent = Math.max(1, (options['indent'] || 2)); this.noArrayIndent = options['noArrayIndent'] || false; this.skipInvalid = options['skipInvalid'] || false; this.flowLevel = (common.isNothing(options['flowLevel']) ? -1 : options['flowLevel']); this.styleMap = compileStyleMap(this.schema, options['styles'] || null); this.sortKeys = options['sortKeys'] || false; this.lineWidth = options['lineWidth'] || 80; this.noRefs = options['noRefs'] || false; this.noCompatMode = options['noCompatMode'] || false; this.condenseFlow = options['condenseFlow'] || false; this.explicitTypes = this.schema.compiledImplicit; this.implicitTypes = this.schema.compiledExplicit; this.tag = null; this.result = ''; } function testImplicitResolving(state, str) { var index, length, type; for (index = 0, length = state.implicitTypes.length; index < length; index += 1) { type = state.implicitTypes[index]; if (type.resolve(str)) { return true; } } return false; } function isWhitespace(c) { return c === CHAR_SPACE || c === CHAR_TAB; }
be printed without escaping.\n// From YAML 1.2: \"any allowed characters known to be non-printable\n// should
also be escaped. [However,] This isn’t mandatory\"\n// Derived from nb-char - \\t - #x85 - #xA0 - #x2028 #x2029.\nfunction isPrintable(c) {\n return (0x00020 <= c && c <= 0x00007E)\n
|| ((0x000A1 <= c && c <=
0x00D7FF) && c !== 0x2028 && c !== 0x2029)\n
|| ((0x0E000 <= c && c <= 0x00FFFD) && c !== 0xFEFF
/* BOM */)\n
|| (0x10000 <= c && c <= 0x10FFFF);\n}\n\n// Simplified test for values allowed after the first
character in plain style.\nfunction isPlainSafe(c) {\n // Uses a subset of nb-char - c-flow-indicator - \":\" - \"#\"\n //
where nb-char ::= c-printable - b-char - c-byte-order-mark.\n return isPrintable(c) && c !== 0xFEFF\n // - c-flowindicator\n && c !== CHAR_COMMA\n && c !== CHAR_LEFT_SQUARE_BRACKET\n && c !==
CHAR_RIGHT_SQUARE_BRACKET\n && c !== CHAR_LEFT_CURLY_BRACKET\n && c !==
CHAR_RIGHT_CURLY_BRACKET\n // - \":\" - \"#\"\n && c !== CHAR_COLON\n && c !==
CHAR_SHARP;\n}\n\n// Simplified test for values allowed as the first character in plain style.\nfunction
isPlainSafeFirst(c) {\n // Uses a subset of ns-char - c-indicator\n // where ns-char = nb-char - s-white.\n return
isPrintable(c) && c !== 0xFEFF\n && !isWhitespace(c) // - s-white\n // - (c-indicator ::=\n // “-” | “?” | “:” |
“,” | “[” | “]” | “{” | “}”\n && c !== CHAR_MINUS\n && c !== CHAR_QUESTION\n && c !==
CHAR_COLON\n && c !== CHAR_COMMA\n && c !== CHAR_LEFT_SQUARE_BRACKET\n && c
!== CHAR_RIGHT_SQUARE_BRACKET\n && c !== CHAR_LEFT_CURLY_BRACKET\n && c !==
CHAR_RIGHT_CURLY_BRACKET\n // | “#” | “&” | “*” | “!” | “|” | “>” | “'” | “\"”\n && c !==
CHAR_SHARP\n && c !== CHAR_AMPERSAND\n && c !== CHAR_ASTERISK\n && c !==
CHAR_EXCLAMATION\n && c !== CHAR_VERTICAL_LINE\n && c !== CHAR_GREATER_THAN\n
&& c !== CHAR_SINGLE_QUOTE\n && c !== CHAR_DOUBLE_QUOTE\n // | “%” | “@” | “`”)\n && c
!== CHAR_PERCENT\n && c !== CHAR_COMMERCIAL_AT\n && c !==
CHAR_GRAVE_ACCENT;\n}\n\n// Determines whether block indentation indicator is required.\nfunction
needIndentIndicator(string) {\n var leadingSpaceRe = /^\\n* /;\n return leadingSpaceRe.test(string);\n}\n\nvar
STYLE_PLAIN = 1,\n STYLE_SINGLE = 2,\n STYLE_LITERAL = 3,\n STYLE_FOLDED = 4,\n
STYLE_DOUBLE = 5;\n\n// Determines which scalar styles are possible and returns the preferred style.\n//
lineWidth = -1 => no limit.\n// Pre-conditions: str.length > 0.\n// Post-conditions:\n// STYLE_PLAIN or
STYLE_SINGLE => no \\n are in the string.\n// STYLE_LITERAL => no lines are suitable for folding (or
lineWidth is -1).\n// STYLE_FOLDED => a line > lineWidth and can be folded (and lineWidth != -1).\nfunction
chooseScalarStyle(string, singleLineOnly, indentPerLevel, lineWidth, testAmbiguousType) {\n var i;\n var char;\n
var hasLineBreak = false;\n var hasFoldableLine = false; // only checked if shouldTrackWidth\n var
shouldTrackWidth = lineWidth !== -1;\n var previousLineBreak = -1; // count the first line correctly\n var plain =
isPlainSafeFirst(string.charCodeAt(0))\n
&& !isWhitespace(string.charCodeAt(string.length - 1));\n\n if
(singleLineOnly) {\n // Case: no block styles.\n // Check for disallowed characters to rule out plain and single.\n
for (i = 0; i < string.length; i++) {\n
char = string.charCodeAt(i);\n
if (!isPrintable(char)) {\n
return
STYLE_DOUBLE;\n
}\n
plain = plain && isPlainSafe(char);\n }\n } else {\n // Case: block styles
permitted.\n for (i = 0; i < string.length; i++) {\n
char = string.charCodeAt(i);\n
if (char ===
CHAR_LINE_FEED) {\n
hasLineBreak = true;\n
// Check if any line can be folded.\n
if
(shouldTrackWidth) {\n
hasFoldableLine = hasFoldableLine ||\n
// Foldable line = too long, and not
more-indented.\n
(i - previousLineBreak - 1 > lineWidth &&\n
string[previousLineBreak + 1] !== '
');\n
previousLineBreak = i;\n
}\n
} else if (!isPrintable(char)) {\n
return STYLE_DOUBLE;\n
}\n
plain = plain && isPlainSafe(char);\n }\n // in case the end is missing a \\n\n hasFoldableLine =
hasFoldableLine || (shouldTrackWidth &&\n
(i - previousLineBreak - 1 > lineWidth &&\n
string[previousLineBreak + 1] !== ' '));\n }\n // Although every style can represent \\n without escaping, prefer
block styles\n // for multiline, since they're more readable and they don't add empty lines.\n // Also prefer folding a
super-long line.\n if (!hasLineBreak && !hasFoldableLine) {\n // Strings interpretable as another type have to be
quoted;\n // e.g. the string 'true' vs. the boolean true.\n return plain && !testAmbiguousType(string)\n
?
STYLE_PLAIN : STYLE_SINGLE;\n }\n // Edge case: block indentation indicator can only have one digit.\n if
(indentPerLevel > 9 && needIndentIndicator(string)) {\n return STYLE_DOUBLE;\n }\n // At this point we

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```javascript
/**
 * Check if we're required to add a port number.
 *
 * @see

module.exports.dump     = dump;
module.exports.safeDump =

function dump(input, options) {
  options = options || {};

  var state = new State(options);

  if (state.tag !== null && state.tag !== '?') {
    state.dump = '!<' + state.tag + ' ' + state.dump;
  } else if (state.tag !== null && state.tag !== '?') {
    state.dump = '&ref_' + duplicateIndex + ' ' + state.dump;
  }
}

function getDuplicateReferences(object, state) {
  var objects = [],
      index,
      length,
      duplicateIndex,
      duplicate;

  objects.push(object);

  if (Array.isArray(object)) {
    for (index = 0, length = object.length; index < length; index += 1) {
      inspectNode(object[index], objects, duplicatesIndexes);
    }
  } else {
    objects.push(object);

    if (Object.keys(object).length !== 0) {
      writeBlockMapping(state, arrayLevel, state.dump, compact);
      if (duplicate) {
        state.dump = '&ref_' + duplicateIndex + ' ' + state.dump;
      }
    } else if (objectOrArray && duplicate && !state.usedDuplicates[duplicateIndex]) {
      false;
  }

  if (duplicate && state.usedDuplicates[duplicateIndex]) {
    state.dump = '*ref_' + duplicateIndex;
  }

  if ((state.tag !== null && state.tag !== '?') || duplicate || (state.indent !== 2 && level > 0)) {
    compact = false;
  }

  return true;
}

function writeNode(state, level, object, block, compact, iskey) {
  state.tag = null;

  if (objectOrArray) {
    duplicateIndex = state.duplicates.indexOf(object);
    duplicate = duplicateIndex !== -1;
  }

  if (detectType(state, object, false)) {
    detectType(state, object, true);
  }

  var type = detectType(state, object, true);

  if (typeof object === 'object' && object !== null) {
    var objectKeys = Object.keys(object),
        index,
        length = objectKeys.length;

    for (index = 0; index < length; index += 1) {
      inspectNode(object[objectKeyList[index]], objects, duplicatesIndexes);
    }
  } else {
    throw new YAMLException('!<' + type.tag + ' ' + type.defaultStyle + ' style');
  }

  state.dump = _result;
}

return true;
```
https://url.spec.whatwg.org/#default-port

* @param {Number|String} port Port number we need to check
* @param {String} protocol Protocol we need to check against.
* @returns {Boolean} Is it a default port for the
* given protocol

```javascript
function required(port, protocol) {
  protocol = protocol.split(':')[0];
  port = +port || 0;

  if (!port) return false;

  switch (protocol) {
    case 'http':
    case 'ws':
      return port !== 80;
    case 'https':
    case 'wss':
      return port !== 443;
    case 'ftp':
      return port !== 21;
    case 'gopher':
      return port !== 70;
    case 'file':
      return true;
  }
  return port !== 0;
}
```
newTarget]);
    var $export = require('./_export');
    var create = require('./_object-create');
    var aFunction = require('./_a-function');
    var anObject = require('./_an-object');
    var isObject = require('./_is-object');
    var fails = require('./_fails');
    var bind = require('./_bind');
    var rConstruct = (require('./_global').Reflect || {}).construct;

    // MS Edge supports only 2 arguments and argumentsList argument is optional
    // FF Nightly sets third argument as new.target, but does not create 'this' from it
    var NEW_TARGET_BUG = fails(function () {
      function F() { /* empty */ }
      return !(rConstruct(function () { /* empty */ }, [], F) instanceof F);
    });
    var ARGS_BUG = !fails(function () {
      rConstruct(function () { /* empty */ });
    });

    $export($export.S + $export.F * (NEW_TARGET_BUG || ARGS_BUG), 'Reflect', {
      construct: function construct(Target, args /* , newTarget */) {
        aFunction(Target);
        anObject(args);
        var newTarget = arguments.length < 3 ? Target : aFunction(arguments[2]);
        if (ARGS_BUG && !NEW_TARGET_BUG) return rConstruct(Target, args, newTarget);
        if (Target === newTarget) {
          switch (args.length) {
            case 0: return new Target();
            case 1: return new Target(args[0]);
            case 2: return new Target(args[0], args[1]);
            case 3: return new Target(args[0], args[1], args[2]);
            case 4: return new Target(args[0], args[1], args[2], args[3]);
          }
        }
        var proto = newTarget.prototype;
        var instance = create(isObject(proto) ? proto : Object.prototype);
        var result = Function.apply.call(Target, instance, args);
        return isObject(result) ? result : instance;
      }
    });

    require('../../modules/es6.object.create');
    var $Object = require('../../modules/_core').Object;
    module.exports = function create(P, D) {
      return $Object.create(P, D);
    };
require('./ReactDOMInvalidARIAHook');

ReactInstrumentation.debugTool.addHook(ReactDOMUnknownPropertyHook);

ReactInstrumentation.debugTool.addHook(ReactDOMNullInputValuePropHook);

ReactInstrumentation.debugTool.addHook(ReactDOMInvalidARIAHook);

module.exports = ReactDOM;

/**
 * Copyright (c) 2013-present, Facebook, Inc.
 *
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 * MIT license found in the root directory of this source tree.
 */

'use strict';

var ARIADOMPropertyConfig = require('./ARIADOMPropertyConfig');
var BeforeInputEventPlugin = require('./BeforeInputEventPlugin');
var ChangeEventPlugin = require('./ChangeEventPlugin');
var DefaultEventPluginOrder = require('./DefaultEventPluginOrder');
var EnterLeaveEventPlugin = require('./EnterLeaveEventPlugin');
var HTMLDOMPropertyConfig = require('./HTMLDOMPropertyConfig');
var ReactComponentBrowserEnvironment = require('./ReactComponentBrowserEnvironment');
var ReactDOMComponent = require('./ReactDOMComponent');
var ReactDOMComponentTree = require('./ReactDOMComponentTree');
var ReactDOMEmptyComponent = require('./ReactDOMEmptyComponent');
var ReactDOMTreeTraversal = require('./ReactDOMTreeTraversal');
var ReactDOMTextComponent = require('./ReactDOMTextComponent');
var ReactDefaultBatchingStrategy = require('./ReactDefaultBatchingStrategy');
var ReactEventListener = require('./ReactEventListener');
var ReactInjection = require('./ReactInjection');
var ReactReconcileTransaction = require('./ReactReconcileTransaction');
var SVGDOMPropertyConfig = require('./SVGDOMPropertyConfig');
var SelectEventPlugin = require('./SelectEventPlugin');
var SimpleEventPlugin = require('./SimpleEventPlugin');

var alreadyInjected = false;

function inject() {
  if (alreadyInjected) {
    // TODO: This is currently true because these injections are shared between
    // the client and the server package. They should be built independently
    // and not share any injection state. Then this
    // problem will be solved.
    return;
  }
  alreadyInjected = true;

  ReactInjection.EventEmitter.injectReactEventListener(ReactEventListener);

  /**
   * Inject modules for resolving DOM hierarchy and plugin ordering.
   */
  ReactInjection.EventPluginHub.injectEventPluginOrder(DefaultEventPluginOrder);
  ReactInjection.EventPluginUtils.injectComponentTree(ReactDOMComponentTree);
  ReactInjection.EventPluginUtils.injectTreeTraversal(ReactDOMTreeTraversal);

  /**
   * Some important event plugins included by default (without having to require
   * them).
   */
  ReactInjection.EventPluginHub.injectEventPluginsByName({
    SimpleEventPlugin: SimpleEventPlugin,
    EnterLeaveEventPlugin: EnterLeaveEventPlugin,
    ChangeEventPlugin: ChangeEventPlugin,
    SelectEventPlugin: SelectEventPlugin,
  });

  ReactInjection.HostComponent.injectGenericComponentClass(ReactDOMComponent);
  ReactInjection.HostComponent.injectTextComponentClass(ReactDOMTextComponent);
  ReactInjection.DOMProperty.injectDOMPropertyConfig(ARIADOMPropertyConfig);
  ReactInjection.DOMProperty.injectDOMPropertyConfig(HTMLDOMPropertyConfig);
  ReactInjection.DOMProperty.injectDOMPropertyConfig(SVGDOMPropertyConfig);

  ReactInjection.EmptyComponent.injectEmptyComponentFactory(function (instantiate) {
    return new ReactDOMEmptyComponent(instantiate);
  });

  ReactInjection.Updates.injectReconcileTransaction(ReactReconcileTransaction);

  ReactInjection.Updates.injectBatchingStrategy(ReactDefaultBatchingStrategy);
}

module.exports = {
  inject: inject
};

/**
 * Copyright (c) 2013-present, Facebook, Inc.
 *
 * This source code is licensed under the
 * MIT license found in the root directory of this source tree.
 */

'use strict';

var ARIADOMPropertyConfig = {
  Properties: {
    // Global States and Properties
    'aria-current': 0, // state
    'aria-details': 0, // state
    'aria-hidden': 0, // state
    'aria-invalid': 0, // state
    'aria-keyshortcuts': 0, // state
    'aria-label': 0, // state
    'aria-readonly': 0, // state
    'aria-required': 0, // state
    'aria-roles': 0, // state
    'aria-describedby': 0, // state
    'aria-disabled': 0, // state
    'aria-invalid': 0, // state
    'aria-keyshortcuts': 0, // state
    'aria-label': 0, // state
    'aria-readonly': 0, // state
  },
guess model think this event signifies that\*n * composition has begun?\*n * @param {string} topLevelType\*n * @param {object} nativeEvent\*n * @return {boolean} \*n *\n\n// Does our fallback mode think that this event is the end of composition?\*n * @param {string} topLevelType\*n * @param {object} nativeEvent\*n * @return {boolean} \*n *\n\n// Command keys insert or clear IME input.\n\n// Track the current IME composition fallback object, if any.\n\n// Events are not possible without cancelling IME.\n\n\n\n\n/**\n * Google Input Tools provides composition data via a CustomEvent,\n * with the 'data' property populated in the 'detail' object. If this\n * is available on the event object, use it. If not, this is a plain\n * composition event and we have nothing special to extract.\n *\n * @param {object} nativeEvent\n *\n * @return {?string}\n */\nfunction getDataFromCustomEvent(nativeEvent) {
  var detail = nativeEvent.detail;
  if (typeof detail === 'object' && 'data' in detail) {
    return detail.data;
  }
  return null;
}

// Track the current IME composition fallback object, if any.\n\n\n\n// Track the current IME composition fallback object, if any.\n\n\n\n/**\n * For browsers that do not provide the `textInput` event, extract the\n * appropriate string to use for SyntheticInputEvent.\n *\n * @param {string} topLevelType\n * @param {object} nativeEvent\n * @return {boolean} \n\n// For other native event types, do nothing.\n\n\n/**
 * Does our fallback mode think that this event is the end of composition?\n *\n * @param {string} topLevelType\n * @param {object} nativeEvent\n * @return {boolean}\n
/**
 * Google Input Tools provides composition data via a CustomEvent,\n * with the 'data' property populated in the 'detail' object. If this\n * is available on the event object, use it. If not, this is a plain\n * composition event and we have nothing special to extract.\n *\n * @param {object} nativeEvent\n *\n * @return {?string}\n */
function getDataFromCustomEvent(nativeEvent) {
  var detail = nativeEvent.detail;
  if (typeof detail === 'object' && 'data' in detail) {
    return detail.data;
  }
  return null;
}

// Track the current IME composition fallback object, if any.\n\n\n\n// Events are not possible without cancelling IME.\n\n\n\n/**
 * Google Input Tools provides composition data via a CustomEvent,\n * with the 'data' property populated in the 'detail' object. If this\n * is available on the event object, use it. If not, this is a plain\n * composition event and we have nothing special to extract.\n *\n * @param {object} nativeEvent\n *\n * @return {?string}\n */
function getDataFromCustomEvent(nativeEvent) {
  var detail = nativeEvent.detail;
  if (typeof detail === 'object' && 'data' in detail) {
    return detail.data;
  }
  return null;
}

// Track the current IME composition fallback object, if any.\n\n\n\n// Events are not possible without cancelling IME.\n\n\n\n/**
 * Google Input Tools provides composition data via a CustomEvent,\n * with the 'data' property populated in the 'detail' object. If this\n * is available on the event object, use it. If not, this is a plain\n * composition event and we have nothing special to extract.\n *\n * @param {object} nativeEvent\n *\n * @return {?string}\n */
function getDataFromCustomEvent(nativeEvent) {
  var detail = nativeEvent.detail;
  if (typeof detail === 'object' && 'data' in detail) {
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function getDataFromCustomEvent(nativeEvent) {
  var detail = nativeEvent.detail;
  if (typeof detail === 'object' && 'data' in detail) {
    return detail.data;
  }
  return null;
}

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function getDataFromCustomEvent(nativeEvent) {
  var detail = nativeEvent.detail;
  if (typeof detail === 'object' && 'data' in detail) {
    return detail.data;
  }
  return null;
}

// Track the current IME composition fallback object, if any.\n\n\n\n// Events are not possible without cancelling IME.\n\n\n\n/**
 * Google Input Tools provides composition data via a CustomEvent,\n * with the 'data' property populated in the 'detail' object. If this\n * is available on the event object, use it. If not, this is a plain\n * composition event and we have nothing special to extract.\n *\n * @param {object} nativeEvent\n *\n * @return {?string}\n */
function getDataFromCustomEvent(nativeEvent) {
  var detail = nativeEvent.detail;
  if (typeof detail === 'object' && 'data' in detail) {
    return detail.data;
  }
  return null;
}

// Track the current IME composition fallback object, if any.\n\n\n\n// Events are not possible without cancelling IME.\n\n\n\n/**
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function getDataFromCustomEvent(nativeEvent) {
  var detail = nativeEvent.detail;
  if (typeof detail === 'object' && 'data' in detail) {
    return detail.data;
  }
  return null;
}

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function getDataFromCustomEvent(nativeEvent) {
  var detail = nativeEvent.detail;
  if (typeof detail === 'object' && 'data' in detail) {
    return detail.data;
  }
  return null;
}

// Track the current IME composition fallback object, if any.\n\n\n\n// Events are not possible without cancelling IME.\n\n\n\n/**
 * Google Input Tools provides composition data via a CustomEvent,\n * with the 'data' property populated in the 'detail' object. If this\n * is available on the event object, use it. If not, this is a plain\n * composition event and we have nothing special to extract.\n *\n * @param {object} nativeEvent\n *\n * @return {?string}\n */
function getDataFromCustomEvent(nativeEvent) {
  var detail = nativeEvent.detail;
  if (typeof detail === 'object' && 'data' in detail) {
    return detail.data;
  }
  return null;
}

// Track the current IME composition fallback object, if any.\n\n\n\n// Events are not possible without cancelling IME.\n\n\n\n/**
 * Google Input Tools provides composition data via a CustomEvent,\n * with the 'data' property populated in the 'detail' object. If this\n * is available on the event object, use it. If not, this is a plain\n * composition event and we have nothing special to extract.\n *\n * @param {object} nativeEvent\n *\n * @return {?string}\n */
function getDataFromCustomEvent(nativeEvent) {
  var detail = nativeEvent.detail;
  if (typeof detail === 'object' && 'data' in detail) {
    return detail.data;
  }
  return null;
}

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function getDataFromCustomEvent(nativeEvent) {
  var detail = nativeEvent.detail;
  if (typeof detail === 'object' && 'data' in detail) {
    return detail.data;
  }
  return null;
}

// Track the current IME composition fallback object, if any.\n\n\n\n// Events are not possible without cancelling IME.\n\n\n\n/**
 * Google Input Tools provides composition data via a CustomEvent,\n * with the 'data' property populated in the 'detail' object. If this\n * is available on the event object, use it. If not, this is a plain\n * composition event and we have nothing special to extract.\n *\n * @param {object} nativeEvent\n *\n * @return {?string}\n */
function getDataFromCustomEvent(nativeEvent) {
  var detail = nativeEvent.detail;
  if (typeof detail === 'object' && 'data' in detail) {
    return detail.data;
  }
  return null;
}
nativeEvent Native browser event.\n * @return {?string} The fallback string for this `beforeInput` event.
 */

function getFallbackBeforeInputChars(topLevelType, nativeEvent) {
  if (currentComposition)
    if (topLevelType === 'topCompositionEnd')
      canUseCompositionEvent
      && isFallbackCompositionEnd(topLevelType, nativeEvent))
    var chars = currentComposition.getData();
    currentComposition = null;
    return chars;
  }

  switch (topLevelType) {
    case 'topPaste':
      // If a paste event occurs after a keypress,
      // throw out the input
      // chars. Paste events should not lead to BeforeInput events.
      return null;
    case 'topKeyPress':
      /**
       * As of v27, Firefox may fire keypress events even when no character
       * will be inserted. A few possibilities:
       * - `which` in `0`. Arrow keys, Esc key, etc.
       * - `which` is the pressed key code, but no char is available.
       *   Ex: 'AltGr + d' in Polish. There is no modified character
       *   for `input` this key combination and no input is inserted into the
       *   document, but FF fires the keypress for char code `100` anyway.
       * - No `input` event will occur.
       *   - `which` is the pressed key code, but a command combination
       *     is being used. Ex: 'Cmd+C'. No character is inserted, and no
       *   `input` event will occur.
       *   - `which` is not defined for native `textInput` or fallback behavior.
       * @return {?object} A SyntheticInputEvent.
       */
      if (nativeEvent.which
        && !isKeypressCommand(nativeEvent))
        return String.fromCharCode(nativeEvent.which);
      return null;
    case 'topCompositionEnd':
      return useFallbackCompositionData
        ? null
        : nativeEvent.data;
    default:
      return null;
  }
}

/**
 * Extract a SyntheticInputEvent for `beforeInput`, based on native
 * `textInput` or fallback behavior.
 *
 * @return {?object} A SyntheticInputEvent.
 */
function extractBeforeInputEvent(topLevelType, targetInst, nativeEvent, nativeEventTarget) {
  var chars = 
    getNativeBeforeInputChars(topLevelType, nativeEvent);
  if (!chars)
    return null;
  var event =
    SyntheticInputEvent.getPooled(eventTypes.beforeInput, targetInst, nativeEvent, nativeEventTarget);
  event.data = chars;
  EventPropagators.accumulateTwoPhaseDispatches(event);
  return event;
}

/**
 * Create an `onBeforeInput` event to match
 * http://www.w3.org/TR/2013/WD-DOM-Level-3-Events-20131105/#events-inputevents.
 *
 * This plugin is also responsible for emitting `composition` events, thus
 * allowing us to share composition fallback code for both
 * `beforeInput` and `composition` event types.
 */
var BeforeInputEventPlugin = {
  eventTypes: eventTypes,

  extractEvents: function (topLevelType, targetInst, nativeEvent, nativeEventTarget) {
    return [extractCompositionEvent(topLevelType, targetInst, nativeEvent, nativeEventTarget),
      extractBeforeInputEvent(topLevelType, targetInst, nativeEvent, nativeEventTarget)];
  }
};

module.exports = BeforeInputEventPlugin;
> 8);\n}\n\nfunction manualDispatchChangeEvent(nativeEvent) {\n  var event = createAndAccumulateChangeEvent(activeElementInst, nativeEvent, getEventTarget(nativeEvent));\n  // If change and propertychange bubbled, we'd just bind to it like all the others, but we have to enqueue and process the abstract event manually.\n  // Batching is necessary here in order to ensure that all event handlers run before the next rerender (including event handlers attached to ancestors instead of directly on the input). Without this, controlled components don't work properly in conjunction with event bubbling because the component is rerendered and the value reverted before all the event handlers can run. See https://github.com/facebook/react/issues/708.\n  ReactUpdates.batchedUpdates(runEventInBatch, event\n  );\n}\n\nfunction runEventInBatch(event) {\n  EventPluginHub.enqueueEvents(event);\n  EventPluginHub.processEventQueue(false);\n}\n\nfunction startWatchingForChangeEventIE8(target, targetInst) {\n  activeElement = target;\n  activeElementInst = targetInst;\n  activeElement.attachEvent('onchange', manualDispatchChangeEvent);\n  function stopWatchingForChangeEventIE8() {\n    if (!activeElement) {\n      return;\n    }\n    activeElement.detachEvent('onchange', manualDispatchChangeEvent);\n    activeElementInst = null;\n    activeElementInst = null;\n    getInstIfValueChanged(targetInst, nativeEvent) {\n      var updated = inputValueTracking.updateValueIfChanged(targetInst);\n      if (updated) {\n        return targetInst;\n      }\n    }\n    stopWatchingForChangeEventIE8(topLevelType, targetInst);\n    if (topLevelType === 'topChange') {\n      return targetInst;\n    }\n    function getTargetInstForChangeEvent(topLevelType, targetInst) {\n      if (topLevelType === 'topFocus') {\n        // stopWatching() should be a noop here but we call it just in case we missed a blur event somehow\n      }\n    }\n    startWatchingForChangeEventIE8(target, targetInst);\n  }\n}\n\nfunction stopWatchingForChangeEventIE8(target, targetInst) {\n  if (topLevelType === 'topBlur') {\n    stopWatchingForChangeEventIE8(topLevelType, targetInst);\n  }\n}\n\nvar isInputEventSupported = false;\nif (ExecutionEnvironment.canUseDOM) {\n  // IE9 claims to support the input event but fails to trigger it when\n  // deleting text, so we ignore its input events.\n  isInputEventSupported = isEventSupported('input') && (!document.documentMode || document.documentMode > 9);\n}\n\nfunction startWatchingForValueChange(target, targetInst) {\n  activeElement = target;\n  activeElementInst = targetInst;\n  activeElement.attachEvent('onpropertychange', handlePropertyChange);\n}\n\nfunction stopWatchingForValueChange() {\n  if (!activeElement) {\n    return;\n  }\n  activeElement.detachEvent('onpropertychange', handlePropertyChange);\n  handlePropertyChange.activeElement = null;\n  handlePropertyChange.activeElementInst = null;\n  getInstIfValueChanged(targetInst, nativeEvent) {\n    if (nativeEvent.propertyName !== 'value') {\n      return;\n    }\n    if (getInstIfValueChanged(activeElementInst, nativeEvent)) {\n      manualDispatchChangeEvent(nativeEvent);\n    }\n  }\n}\n\nfunction handlePropertyChange(nativeEvent) {\n  if (nativeEvent.propertyName !== 'value') {\n    return;\n  }\n  if (getInstIfValueChanged(activeElementInst, nativeEvent)) {\n    manualDispatchChangeEvent(nativeEvent);\n  }\n}\n\n/**\n * (For IE <=9) Starts tracking propertychange events on the passed-in element and overrides the value property so that we can distinguish user events from value changes in JS.\n */\nfunction startWatchingForValueChange(target, targetInst) {\n  activeElement = target;\n  activeElementInst = targetInst;\n  activeElement.attachEvent('onpropertychange', handlePropertyChange);\n}\n\n/**\n * (For IE <=9) Removes the event listeners from the currently-tracked element.\n */\nfunction stopWatchingForValueChange() {\n  if (!activeElement) {\n    return;\n  }\n  activeElement.detachEvent('onpropertychange', handlePropertyChange);\n  handlePropertyChange.activeElement = null;\n  handlePropertyChange.activeElementInst = null;\n  getInstIfValueChanged(targetInst, nativeEvent) {\n    if (nativeEvent.propertyName !== 'value') {\n      return;\n    }\n    if (getInstIfValueChanged(activeElementInst, nativeEvent)) {\n      manualDispatchChangeEvent(nativeEvent);\n    }\n  }\n}\n\n/**\n * Handles the 'input' event in IE8.\n */\nvar isInputEventSupported = false;\nif (ExecutionEnvironment.canUseDOM) {\n  // IE9 claims to support the input event but fails to trigger it when\n  // deleting text, so we ignore its input events.\n  isInputEventSupported = isEventSupported('input') && (!document.documentMode || document.documentMode > 9);\n}\n\n/**\n * (For IE <=9) Starts tracking propertychange events on the passed-in element and overrides the value property so that we can distinguish user events from value changes in JS.\n */\nfunction startWatchingForValueChange(target, targetInst) {\n  activeElement = target;\n  activeElementInst = targetInst;\n  activeElement.attachEvent('onpropertychange', handlePropertyChange);\n}\n\n/**\n * (For IE <=9) Removes the event listeners from the currently-tracked element.\n */\nfunction stopWatchingForValueChange() {\n  if (!activeElement) {\n    return;\n  }\n  activeElement.detachEvent('onpropertychange', handlePropertyChange);\n  handlePropertyChange.activeElement = null;\n  handlePropertyChange.activeElementInst = null;\n  getInstIfValueChanged(targetInst, nativeEvent) {\n    if (nativeEvent.propertyName !== 'value') {\n      return;\n    }\n    if (getInstIfValueChanged(activeElementInst, nativeEvent)) {\n      manualDispatchChangeEvent(nativeEvent);\n    }\n  }\n}\n\n/**\n * (For IE <=9) Handles the 'input' event in IE8.\n */\nfunction handleInputEventPolyfill(topLevelType, target, targetInst) {\n  if (topLevelType === 'topFocus') {\n    // In IE8, we can capture almost all value changes by adding an // propertychange handler and looking for events with propertyName // equal to 'value'. // In IE9, propertychange fires for most input events but is buggy and // doesn't fire when text is deleted, but conveniently, selectionchange // appears to fire in all of the remaining cases so we catch those and // forward the event if the value has changed. // In either case, we don't want to call the event handler if the value is changed from JS so we redefine a setter for 'value' that updates our activeElementValue variable, allowing us to ignore those changes. // stopWatching() should be a noop here but we call it just in case we missed a blur event somehow.\n  }\n  if (topLevelType === 'topBlur') {\n    stopWatchingForValueChange(topLevelType, target, targetInst);\n  }\n}\n\nfunction getTargetInstForInputEventPolyfill(topLevelType, targetInst, nativeEvent) {\n  if (topLevelType === 'topSelectionChange') {\n    targetInst = null;\n    getTargetInstForInputEventPolyfill(topLevelType, targetInst, nativeEvent);\n  }\n}\n\n/**\n * On the
selectionchange event, the target is just document which isn't helpful for us so just check activeElement instead.

99% of the time, keydown and keyup aren't necessary. IE8 fails to fire propertychange on the first input event after setting `value` from an keyboard, keypress, keyup. Catching keyup usually gets it and catching keydown lets us fire an event for the first keystroke if user does a key repeat (it'll be a little delayed: right before the second keystroke). Other input methods (e.g., paste) seem to fire selectionchange normally.

return getInstIfValueChanged(activeElementInst, nativeEvent);}

// Use the `click` event to detect changes to checkbox and radio inputs.
// This approach works across all browsers, whereas `change` does not fire
// until `blur` in IE8.
var nodeName = elem.nodeName; return nodeName && &
conditional, assign the value attribute to the current value on blur
var value = '' + node.value;
if (node.getAttribute('value') !== value) {
  node.setAttribute('value', value);
} else if (shouldUseChangeEvent(targetNode)) {
  if (isInputEventSupported) {
    getTargetInstForInputOrChangeEvent(topLevelType, targetInst, nativeEvent);}
  } else if (shouldUseClickEvent(targetNode)) {
    getTargetInstForClickEvent(topLevelType, targetInst, nativeEvent);}

isEmptyTextElement) {
  return;
}

// Fiber and ReactDOM keep wrapper state in separate places
var state = inst._wrapperState || node._wrapperState; return state || node.type !== 'number';

* Supported elements are: `* - input (see `isTextInputElement`) * - textarea

* - select

* - var ChangeEventPlugin = {\n  eventTypes: eventTypes, \n
  _allowSimulatedPassThrough: true, \n
  attachRef: function (instance, element) {
    if (element === null || typeof element !== 'object') {
      return;
    }
    var ref = element.ref;
    if (ref != null) {
      attachRef(ref, instance, element._owner);
    }
  },

  shouldUpdateRefs: function (prevElement, nextElement) {
    if (typeof ref === 'function') {
      ref(component.getPublicInstance());} else { // Legacy
      ReactOwner.addComponentAsRefTo(component, ref, owner);}
    } else if (shouldUseChangeEvent(targetNode)) {
      handleEventsForChangeEventIE8();
    } else if (isTextInputElement(targetNode)) {
      return;
    } else if (inst === null) {
      return;
    }

    if (inst !== null) {
      handleControlledInputBlur(inst, node); return;
    }

    // TODO: In IE, inst is occasionally null. Why?
    if (inst === null) {
      return;
    }

    // Fiber and ReactDOM keep wrapper state in separate places
    var state = inst._wrapperState || node._wrapperState; return state || node.type !== 'number';

    * Supported elements are: `* - input (see `isTextInputElement`) * - textarea

    * - select

    * - var ChangeEventPlugin = {\n      eventTypes: eventTypes, \n
      _allowSimulatedPassThrough: true, \n
      attachRef: function (instance, element) {
        if (element === null || typeof element !== 'object') {
          return;
        }
        var ref = element.ref;
        if (ref != null) {
          attachRef(ref, instance, element._owner);
        }
      },

      shouldUpdateRefs: function (prevElement, nextElement) {
        if (typeof ref === 'function') {
          ref(component.getPublicInstance());} else { // Legacy
          ReactOwner.addComponentAsRefTo(component, ref, owner);}
        } else if (shouldUseChangeEvent(targetNode)) {
          handleEventsForChangeEventIE8();
        } else if (isTextInputElement(targetNode)) {
          return;
        } else if (inst === null) {
          return;
        }

        if (inst !== null) {
          handleControlledInputBlur(inst, node); return;
        }

        // When blurring, set the value attribute for number inputs
        if (topLevelType === 'topBlur') {
          handleControlledInputBlur(targetInst, targetNode);
        } else {
          return;
        }

        module.exports = ChangeEventPlugin;";/**

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* This source code is licensed under the MIT license found in the LICENSE file in the root directory of this source tree.
*/

'use strict';

var ReactOwner = require('./ReactOwner');

var ReactRef = {};

function attachRef(ref, component, owner) {
  if (typeof ref === 'function') {
    ref(component.getPublicInstance());} else { // Legacy
      ReactOwner.addComponentAsRefTo(component, ref, owner);}
    } else if (typeof ref === 'function') {
      ref(null);} else { // Legacy
      ReactOwner.removeComponentAsRefFrom(component, ref, owner);}
    } else { // Legacy
      ReactOwner.addComponentAsRefTo(component, ref, owner);}
    } else { // Legacy
      ReactOwner.addComponentAsRefTo(component, ref, owner);}
    }
has forgotten the reference to 'this'. We use the element instead\n // of the public this.props because the post
processing cannot determine\n // a ref. The ref conceptually lives on the element.\n // TODO: Should this even be\npossible? The owner cannot change because\n // it's forbidden by shouldUpdateReactComponent. The ref can
change\n // if you swap the keys of but not the refs. Reconsider where this check\n // is made. It probably belongs
where the key checking and\n // instantiateReactComponent is done.\n var prevRef = null;\n var prevOwner =\n null;\n if (prevElement !== null &&\n typeof prevElement === 'object') {\n prevRef = prevElement.ref;\n prevOwner = prevElement._owner;\n }\n var nextRef = null;\n var nextOwner = null;\n if (nextElement !== null &&\n typeof nextElement === 'object') {\n nextRef = nextElement.ref;\n nextOwner = nextElement._owner;\n }\n return prevRef !== nextRef \n // If owner changes but we have an unchanged function ref, don't update
refs\n // typo of nextRef === 'string' &&\n nextOwner !== prevOwner;\n return ReactRef.detachRefs = function
// (instance, element) \n {\n if (element !== null &&\n typeof element !== 'object') \n {\n return;\n }\n var ref =\n element.ref;\n if (ref !== null) {\n detachRef(ref, instance, element._owner);\n }\n }\n module.exports = ReactRef;\n
/**
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 * 
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 * license found in the
 * LICENSE file in the root directory of this source tree.
 * @license
 */

'use strict';

var _prodInvariant = require('./reactProdInvariant');

var invariant = require('fbjs/lib/invariant');

/**
 * @param {null|*} object
 * @return {boolean} True if `object` is a valid owner.
 * @final
 */
function isValidOwner(object) {
  return !!(object && typeof object.attachRef === 'function' && typeof object.detachRef === 'function');
}

/**
 * ReactOwners are capable of storing references to owned components.\n * The named reference is known as a "ref".\n * Refs are\n * available when mounted and updated during reconciliation.\n * The named reference is known as a \`ref\`\n * @class ReactOwner
 */
var ReactOwner = {
  /**
   * Adds a component by ref to an owner component.
   *
   * @param {ReactComponent} component Component to reference.
   * @param {string} ref Name by which to refer to the
   * @final
   * @internal
   */
  addComponentAsRefTo: function (component, ref, owner) {
    !isValidOwner(owner) ? process.env.NODE_ENV !== 'production' ? invariant(false, 'addComponentAsRefTo(...): Only a ReactOwner can
have refs. You might be adding a ref to a component that was not created inside a component\'s `render` method, or
you have multiple copies of React loaded (details: https://fb.me/react-refs-must-have-owner).') : _prodInvariant('119') : void 0;
    owner.attachRef(ref, component);
  },

  /**
   * Removes a component by ref from an owner component.
   *
   * @param {ReactComponent} component Component to dereference.
   * @final
   * @internal
   * @param {null|*} ref Name of the ref to remove.
   * @param {ReactOwner} owner Component on which the ref is
   * recorded.
   * @final
   * @internal
   * @param {null|*} ref Name of the ref to remove.
   * @param {ReactOwner} owner Component on which the ref is
   * recorded.
   * @final
   * @internal
   * @param {null|*} ref Name of the ref to remove.
   * @param {ReactOwner} owner Component on which the ref is
   * recorded.
   * @final
   * @internal
   * @param {null|*} ref Name of the ref to remove.
   * @param {ReactOwner} owner Component on which the ref is
   * recorded.
   * @final
   * @internal
   */
  removeComponentAsRefFrom: function (component, ref, owner) {
    !isValidOwner(owner) ? process.env.NODE_ENV !== 'production' ? invariant(false, 'removeComponentAsRefFrom(...): Only a ReactOwner can have refs. You might be adding a ref to a component that was not created inside a component\'s `render` method, or
you have multiple copies of React loaded (details: https://fb.me/react-refs-must-have-owner).') : _prodInvariant('120') : void 0;
    var ownerPublicInstance = owner.getPublicInstance();
    if (ownerPublicInstance &&\n ownerPublicInstance.refs[ref] === component.getPublicInstance()) {
 owner.detachRef(ref);\n }\n }\n module.exports = ReactOwner;\n
/**
 * Copyright (c) 2013-present, Facebook, Inc.
 * @license
 */

'use strict';

/**
 * Module that is injectable into `EventPluginHub`, that specifies a
 * deterministic
 * ordering of `EventPlugin`s. A convenient way to reason about
 * plugins, without having to package every one of
them. This is better than * having plugins be ordered in the same order that they are injected because
* that ordering would be influenced by the packaging order.*

`ResponderEventPlugin` must occur before
`SimpleEventPlugin` so that
prevent default on events is convenient in `SimpleEventPlugin` handlers.*

```javascript
var DefaultEventPluginOrder = ['ResponderEventPlugin', 'SimpleEventPlugin', 'TapEventPlugin',
'EnterLeaveEventPlugin', 'ChangeEventPlugin', 'SelectEventPlugin', 'BeforeInputEventPlugin'];

module.exports = DefaultEventPluginOrder;
```

For almost every interaction we care about, there will be both a top-level * `mouseover` and * `mouseout` event that occurs.

Only use `mouseout` so that * we do not extract duplicate events. However, moving the mouse into the
* browser from outside will not fire a `mouseout` event. In this case, we use
* the `mouseover` top-level event.

```javascript
var eventTypes = {
  mouseEnter: {
    registrationName: 'onMouseEnter',
    dependencies: ['topMouseOut',
      'topMouseOver']
  },
  mouseLeave: {
    registrationName: 'onMouseLeave',
    dependencies: ['topMouseOut',
      'topMouseOver']
  }
};

var EnterLeaveEventPlugin = {
  eventTypes: eventTypes,

  /**
   * For almost
   * every interaction we care about, there will be both a top-level * `mouseover` and * `mouseout` event that occurs. Only use `mouseout` so that * we do not extract duplicate events. However, moving the mouse into the
   * browser from outside will not fire a `mouseout` event. In this case, we use
   * the `mouseover` top-level event.
   */
  extractEvents: function (topLevelType, targetInst, nativeEvent, nativeEventTarget) {
    if (topLevelType === 'topMouseOver') {
      return null;
    }
    if (topLevelType !== 'topMouseOut' && topLevelType !== 'topMouseOver') {
      // Must not be a mouse in or
      return null;
    }
    var win;
    if (nativeEventTarget.window === nativeEventTarget) {
      win = nativeEventTarget;
    } else {
      // TODO: Figure out why `ownerDocument` is sometimes undefined in IE8.
      var doc = nativeEventTarget.ownerDocument;
      if (doc) {
        win = doc.defaultView || doc.parentWindow;
      } else {
        win = window;
      }
    }
    var from;
    var to;
    if (topLevelType === 'topMouseOut') {
      from = targetInst;
      var related = nativeEvent.relatedTarget || nativeEvent.toElement;
      to = related ?
        ReactDOMComponentTree.getClosestInstanceFromNode(related) : null;
    } else {
      // Moving to a node from outside the window.
      from = null;
      to = targetInst;
    }
    if (from === to) {
      // Nothing pertains to our managed components.
      return null;
    }
    var fromNode = from == null ? win :
      ReactDOMComponentTree.getNodeFromInstance(from);
    var toNode = to == null ? win :
      ReactDOMComponentTree.getNodeFromInstance(to);
    var leave =
      SyntheticMouseEvent.getPooled(eventTypes.mouseLeave, from, nativeEvent, nativeEventTarget);
    leave.type = 'mouseleave';
    leave.target = fromNode;
    leave.relatedTarget = toNode;
    var enter =
      SyntheticMouseEvent.getPooled(eventTypes.mouseEnter, to, nativeEvent, nativeEventTarget);
    enter.type = 'mouseenter';
    enter.target = toNode;
    enter.relatedTarget = fromNode;
    EventPropagators.accumulateEnterLeaveDispatches(leave, enter, from, to);
    return [leave, enter];
  }
};
```

```javascript
var eventTypes = {
  mouseEnter: {
    registrationName: 'onMouseEnter',
    dependencies: ['topMouseOut',
      'topMouseOver']
  },
  mouseLeave: {
    registrationName: 'onMouseLeave',
    dependencies: ['topMouseOut',
      'topMouseOver']
  }
};

var EnterLeaveEventPlugin = {
  eventTypes: eventTypes,

  /**
   * For almost every interaction we care about, there will be both a top-level * `mouseover` and * `mouseout` event that occurs. Only use `mouseout` so that * we do not extract duplicate events. However, moving the mouse into the
   * browser from outside will not fire a `mouseout` event. In this case, we use
   * the `mouseover` top-level event.
   */
  extractEvents: function (topLevelType, targetInst, nativeEvent, nativeEventTarget) {
    if (topLevelType === 'topMouseOver') {
      return null;
    }
    if (topLevelType !== 'topMouseOut' && topLevelType !== 'topMouseOver') {
      // Must not be a mouse in or
      return null;
    }
    var win;
    if (nativeEventTarget.window === nativeEventTarget) {
      win = nativeEventTarget;
    } else {
      // TODO: Figure out why `ownerDocument` is sometimes undefined in IE8.
      var doc = nativeEventTarget.ownerDocument;
      if (doc) {
        win = doc.defaultView || doc.parentWindow;
      } else {
        win = window;
      }
    }
    var from;
    var to;
    if (topLevelType === 'topMouseOut') {
      from = targetInst;
      var related = nativeEvent.relatedTarget || nativeEvent.toElement;
      to = related ?
        ReactDOMComponentTree.getClosestInstanceFromNode(related) : null;
    } else {
      // Moving to a node from outside the window.
      from = null;
      to = targetInst;
    }
    if (from === to) {
      // Nothing pertains to our managed components.
      return null;
    }
    var fromNode = from == null ? win :
      ReactDOMComponentTree.getNodeFromInstance(from);
    var toNode = to == null ? win :
      ReactDOMComponentTree.getNodeFromInstance(to);
    var leave =
      SyntheticMouseEvent.getPooled(eventTypes.mouseLeave, from, nativeEvent, nativeEventTarget);
    leave.type = 'mouseleave';
    leave.target = fromNode;
    leave.relatedTarget = toNode;
    var enter =
      SyntheticMouseEvent.getPooled(eventTypes.mouseEnter, to, nativeEvent, nativeEventTarget);
    enter.type = 'mouseenter';
    enter.target = toNode;
    enter.relatedTarget = fromNode;
    EventPropagators.accumulateEnterLeaveDispatches(leave, enter, from, to);
    return [leave, enter];
  }
};
```

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```javascript
var DOMProperty = require('./DOMProperty');

var MUST_USE_PROPERTY =
  DOMProperty.injection.MUST_USE_PROPERTY;
var HAS_BOOLEAN_VALUE =
  DOMProperty.injection.HAS_BOOLEAN_VALUE;
var HAS_NUMERIC_VALUE =
  DOMProperty.injection.HAS_NUMERIC_VALUE;
var HAS_POSITIVE_NUMERIC_VALUE =
  DOMProperty.injection.HAS_POSITIVE_NUMERIC_VALUE;
var HAS_OVERLOADED_BOOLEAN_VALUE =
  DOMProperty.injection.HAS_OVERLOADED_BOOLEAN_VALUE;
```

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```javascript
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```javascript
var DOMProperty = require('./DOMProperty');
```
will trigger
// this function again when focus is lost.
node.setAttribute('value', '' + value);
    }
  }
};

module.exports = HTMLDOMPropertyConfig;

/**
 * Copyright (c) 2013-present, Facebook, Inc.
 *
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 * LICENSE file in the root directory of this source tree.
 * @typechecks
 */

'use strict';

var DOMChildrenOperations = require('./DOMChildrenOperations');
var ReactDOMIDOperations = require('./ReactDOMIDOperations');

/**
 * Abstracts away all functionality of the reconciler that requires knowledge of
 * the browser context. TODO: These callers should be refactored to avoid the
 * need for this injection.
 */
var ReactComponentBrowserEnvironment = {
  processChildrenUpdates: ReactDOMIDOperations.dangerouslyProcessChildrenUpdates,
  replaceNodeWithMarkup: DOMChildrenOperations.dangerouslyReplaceNodeWithMarkup
};

module.exports = ReactComponentBrowserEnvironment;

/**
 * Copyright (c) 2013-present, Facebook, Inc.
 *
 * This source code is licensed under the MIT license found in the
 * LICENSE file in the root directory of this source tree.
 * @typechecks
 */

'use strict';

var _prodInvariant = require('./reactProdInvariant');

var DOMLazyTree = require('./DOMLazyTree');
var ExecutionEnvironment = require('fbjs/lib/ExecutionEnvironment');

var createNodesFromMarkup = require('fbjs/lib/createNodesFromMarkup');
var emptyFunction = require('fbjs/lib/emptyFunction');
var invariant = require('fbjs/lib/invariant');

var Danger = {
  /**
   * Replaces a node with a string of markup at its current position within its
   * parent. The markup must render into a
   * single root node.
   * @param {DOMElement} oldChild Child node to replace.
   * @param {string} markup Markup to render in place of the child node.
   * @internal
   */
  dangerouslyReplaceNodeWithMarkup: function
    (oldChild, markup) {
    !ExecutionEnvironment.canUseDOM ? process.env.NODE_ENV !== 'production' ? invariant(false, 'dangerouslyReplaceNodeWithMarkup(...): Cannot render markup in a worker thread. Make sure
   * window and document are available globally before requiring React when unit testing or use
   * ReactDOMServer.renderToString() for server rendering.') : _prodInvariant('56') : void 0;
    !markup ?
        process.env.NODE_ENV !== 'production' ? invariant(false, 'dangerouslyReplaceNodeWithMarkup(...): Missing
   * markup.') : _prodInvariant('57') : void 0;
    !(oldChild.nodeName !== 'HTML') ? process.env.NODE_ENV !== 'production' ? invariant(false, 'dangerouslyReplaceNodeWithMarkup(...): Cannot replace markup of the <html>
   * node. This is because browser quirks make this unreliable and/or slow. If you want to render to the root you must
   * use server rendering. See ReactDOMServer.renderToString().') : _prodInvariant('58') : void 0;

    if (typeof
      markup === 'string') {
      var newChild = createNodesFromMarkup(markup, emptyFunction)[0]
      oldChild.parentNode.replaceChild(newChild, oldChild);
    } else {
      DOMLazyTree.replaceChildWithTree(oldChild, markup);
    }
  }
};

module.exports = Danger;
getMarkupWrap(nodeName);
if (wrap) {
  veniam = wrapper[1];
  while (wrapDepth--) {
    var node = node.lastChild;
  }
  var scripts = node.getElementsByTagName('script');
if (scripts.length) {
  handleScript ? process.env.NODE_ENV !== 'production' ? invariant(false, 'createNodesFromMarkup(...): Unexpected <script> element rendered.') : invariant(false) : void 0;
  createArrayFromMixed(scripts).forEach(handleScript);
}

var nodes = Array.from(node.childNodes);
while (node.lastChild) {
  node.removeChild(node.lastChild);
}
return nodes;
}

module.exports = createNodesFromMarkup;
standalone, so we wrap them, render the wrapped nodes, then extract the desired node. In IE8, certain elements cannot render alone, so wrap all elements (`*`).

```javascript
var shouldWrap = {};

var selectWrap = [1, '<select multiple="true">', '</select>'];
var tableWrap = [1, '<table>', '</table>'];
var trWrap = [3, '<table><tbody><tr>', '</tr></tbody></table>'];

var svgWrap = [1, '<svg xmlns="http://www.w3.org/2000/svg">', '</svg>'];

var markupWrap = { 'area': [1, '<area>'],
  'col': [2, '<table><tbody><colgroup>', '</colgroup></tbody></table>'],
  'legend': [1, '<fieldset>'],
  'option': selectWrap,
  'caption': tableWrap,
  'colgroup': tableWrap,
  'tbody': tableWrap,
  'tfoot': tableWrap,
  'thead': tableWrap,
  'tr': trWrap,
  'th': trWrap};

var shouldWrap = {
  '*': [1, '?<div>', '</div>'],
  'area': [1, '<area>'],
  'col': [2, '<table><tbody><colgroup>', '</colgroup></tbody></table>'],
  'legend': [1, '<fieldset>'],
  'option': selectWrap,
  'caption': tableWrap,
  'colgroup': tableWrap,
  'tbody': tableWrap,
  'tfoot': tableWrap,
  'thead': tableWrap,
  'tr': trWrap,
  'th': trWrap};

// Initialize the SVG elements since we know they'll always need to be wrapped
// consistently. If they are created inside a <div> they will be initialized
// without the right namespace (and will not display).
```

```javascript
var shouldWrap(nodeName) { return (nodeName) ? shouldWrap[nodeName] : true;
```

```javascript
var *@*param* [ string ] nodeService Lowercase 'nodeName'.

*@*return* [?] array* Markup wrap configuration, if applicable.

```javascript
function getMarkupWrap(nodeName) {
  nodeName = '*';
  if (nodeName === '*') {
    dummyNode.innerHTML = '<link />';
  } else {
    dummyNode.innerHTML = '<' + nodeName + '></' + nodeName + '>
    shouldWrap[nodeName] = true;
    return shouldWrap[nodeName] ? markupWrap[nodeName] : null;
  }
  return null;
}
```

```javascript
var DOMChildrenOperations = require('./DOMChildrenOperations');
var ReactDOMComponentTree = require('./ReactDOMComponentTree');

var ReactDOMIDOperations = {
  dangerouslyProcessChildrenUpdates: function (parentInst, updates) {
```

```javascript
var ReactDOMComponentTree = require('./ReactDOMComponentTree');

```

```javascript
var ReactDOMComponentFlags = require('./ReactDOMComponentFlags');
var ReactDOMComponentTree = require('./ReactDOMComponentTree');
var ReactDOMInput = require('./ReactDOMInput');
var ReactDOMOption = require('./ReactDOMOption');
var ReactDOMSelect = require('./ReactDOMSelect');
var ReactDOMTextarea = require('./ReactDOMTextarea');
var ReactInstrumentation = require('./ReactInstrumentation');
var ReactMultiChild = require('./ReactMultiChild');
var ReactServerRenderingTransaction = require('./ReactServerRenderingTransaction');
```

```javascript
var emptyFunction = require('fbjs/lib/emptyFunction');
var escapeTextContentForBrowser = require('./escapeTextContentForBrowser');
var invariant = require('fbjs/lib/invariant');
var isEventSupported = require('./isEventSupported');
var shallowEqual = require('fbjs/lib/shallowEqual');
var inputValueTracking = require('fbjs/lib/inputValueTracking');
transaction.getReactMountReady().enqueue(trapBubbledEventsLocal, this);
break; case 'option':
ReactDOMOption.mountWrapper(this, props, hostParent);
props = ReactDOMOption.getHostProps(this, props);
break; case 'select':
ReactDOMSelect.mountWrapper(this, props, hostParent);
props = ReactDOMSelect.getHostProps(this, props);
transaction.getReactMountReady().enqueue(trackInputValue, this);
break; case 'textarea':
ReactDOMTextarea.mountWrapper(this, props, hostParent);
props = ReactDOMTextarea.getHostProps(this, props);
transaction.getReactMountReady().enqueue(trapBubbledEventsLocal, this);
break; } }

assertValidProps(this, props);

// We create tags in the namespace of their parent container, except HTML
// tags get no namespace.
var namespaceURI;
var parentTag;
if (hostParent != null) {
  namespaceURI = hostParent._namespaceURI;
  parentTag = hostParent._tag;
} else if (hostContainerInfo._tag) {
  namespaceURI = hostContainerInfo._namespaceURI;
  parentTag = hostContainerInfo._tag;
}
if (namespaceURI == null || namespaceURI === DOMNamespaces.svg && parentTag === 'foreignobject') {
  namespaceURI = DOMNamespaces.html;
}
if (namespaceURI === DOMNamespaces.html) {
  if (this._tag === 'svg') {
    namespaceURI = DOMNamespaces.svg;
  } else if (this._tag === 'math') {
    namespaceURI = DOMNamespaces.mathml;
  }
}
this._namespaceURI = namespaceURI;

if (process.env.NODE_ENV !== 'production') {
  var parentInfo;
  if (hostParent != null) {
    parentInfo = hostParent._ancestorInfo;
  } else if (hostContainerInfo._tag) {
    parentInfo = hostContainerInfo._ancestorInfo;
  }
  if (parentInfo) {
    // parentInfo should always be present except
    // for the top-level component when server rendering
    validateDOMNesting(this._tag, null, this, parentInfo);
  }
  this._ancestorInfo = validateDOMNesting.updatedAncestorInfo(parentInfo, this._tag, this);
}

var mountImage;
if (transaction.useCreateElement) {
  var ownerDocument = hostContainerInfo._ownerDocument;
  var el;
  if (namespaceURI === DOMNamespaces.html) {
    if (this._tag === 'script') {
      // Create the script via .innerHTML so its \"parser-inserted\" flag is
      // set to true and it does not execute
      var div = ownerDocument.createElement('div');
      var type = this._currentElement.type;
      var div.innerHTML = '<' + type + '></' + type + '>
        el =
        div.removeChild(div.firstChild);
    } else if (props.is) {
      el = ownerDocument.createElement(this._currentElement.type, props.is);
    } else {
      // Separate else branch instead of using \`props.is \undefined\` above because of a Firefox bug.
      // See discussion in
      // https://github.com/facebook/react/pull/6896
      // and discussion in
      // https://bugzilla.mozilla.org/show_bug.cgi?id=1276240
      el =
      ownerDocument.createElement(this._currentElement.type);
    }
  } else {
    el = ownerDocument.createElementNS(namespaceURI, this._currentElement.type);
  }
  ReactDOMComponentTree.precacheNode(this, el);
  this._flags |= Flags.hasCachedChildNodes;
  if (!this._hostParent) {
    DOMPropertyOperations.setAttributeForRoot(el);
  }
  this._updateDOMProperties(null, props, transaction);
  var lazyTree = DOMLazyTree(el);
  this._createInitialChildren(transaction, props, context, lazyTree);
  mountImage = lazyTree;
} else {
  var tagOpen = this._createOpenTagMarkupAndPutListeners(transaction, props);
  var tagContent = this._createContentMarkup(transaction, props, context);
  if (!tagContent & omittedCloseTags[this._tag]) {
    mountImage = tagOpen + '/>'
  } else {
    mountImage = tagOpen + '>' + tagContent + ' /></' + this._currentElement.type + '>
  }
  } 
}

switch (this._tag) { case 'input':
  transaction.getReactMountReady().enqueue(inputPostMount, this);
  if (props.autoFocus) {
    transaction.getReactMountReady().enqueue(AutoFocusUtils.focusDOMComponent, this);
  }
  break;
}

} } 

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textContent when the text is empty. In IE11 setting
      // textContent on a text area will cause the placeholder to
      // show within the textarea until it has been focused and blurred again.
      //
      https://github.com/facebook/react/issues/6731#issuecomment-254874553
      if (contentToUse !== '') {
        if (process.env.NODE_ENV !== 'production') {
          setAndValidateContentChildDev.call(this, contentToUse);
        }
        DOMLazyTree.queueText(lazyTree, contentToUse);
      }
    } else if (childrenToUse != null) {
      var mountImages = this.mountChildren(childrenToUse, transaction, context);
      for (var i = 0; i < mountImages.length; i++) {
        DOMLazyTree.queueChild(lazyTree, mountImages[i]);
      }
    }
  }

  /**
   * Receives a next element and updates the component.
   *
   * @internal
   * @param {ReactElement} nextElement
   * @param {ReactReconcileTransaction|ReactServerRenderingTransaction}
   * @param {object} context
   */
  receiveComponent: function (nextElement, transaction, context) {
    var prevElement = this._currentElement;
    this._currentElement = nextElement;
    this.updateComponent(transaction, prevElement, nextElement, context);
  },

  /**
   * Updates a DOM component after it has already been allocated and
   * attached to the DOM. Reconciles the root DOM node, then
   * recurses.
   *
   * @param {object} lastProps
   * @param {object} nextProps
   * @param {?DOMElement} node
   * @return {boolean} True if the node properties changed.
   */
  _updateDOMProperties: function (lastProps, nextProps, transaction) {
    var propKey;
    var styleName;
    var styleUpdates;
    for (propKey in lastProps) {
      if (nextProps.hasOwnProperty(propKey) ||
          !lastProps.hasOwnProperty(propKey) ||
          lastProps[propKey] == null) {
        continue;
      }
      if (propKey === STYLE) {
        var lastStyle = this._previousStyleCopy;
        for (styleName in lastStyle) {
          if (lastStyle.hasOwnProperty(styleName)) {
            styleUpdates = styleUpdates || {};
            styleUpdates[styleName] = '';
          }
        }
        this._previousStyleCopy = null;
      } else if (registrationNameModules.hasOwnProperty(propKey)) {
        if (lastProps[propKey]) {
          // Only call
          deleteListener if there was a listener previously or
          // else willDeleteListener gets called when there wasn't
          // actually a
          // listener (e.g., onClick={null})
          deleteListener(this, propKey);
        }
      } else if
    }

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Open Source Used In Cisco Modeling Labs 2.2  4166
As Andi Smith suggests (http://www.andismith.com/blog/2012/02/modernizr-prefixed/), an `ms` prefix is converted to lowercase `ms`. `\n * @param {string} string\n * @return {string}\n */\nfunction camelizeStyleName(string) {\n return camelize(string.replace(msPattern, `'ms-`));}\n
module.exports = camelizeStyleName;";","\nuse strict\n\n/** Copyright (c) 2013-present, Facebook, Inc.\n *\n * This source code is licensed under the MIT license found in the\n * LICENSE file in the root directory of this source tree.\n */\n
function camelizeStyleName(string) {\n return camelize(string.replace(msPattern, 'ms-'));
}

module.exports = camelizeStyleName;","use strict";

/** Copyright (c) 2013-present, Facebook, Inc.\n *\n * This source code is licensed under the MIT license found in the\n * LICENSE file in the root directory of this source tree.\n */

var _hyphenPattern = /-(.)/g;

/**\n * Camelcases a hyphenated string, for example:\n *\n *\n * @param {string} string\n * @return {string}\n */\nfunction camelize(string) {\n  return string.replace(_hyphenPattern, function (_, character) {
    return character.toUpperCase();
  });\n}

module.exports = camelize;";","\nuse strict";

/**\n * Copyright (c) 2013-present, Facebook, Inc.\n *\n * This source code is licensed under the MIT license found in the\n * LICENSE file in the root directory of this source tree.\n */

var CSSProperty = require('./CSSProperty');
var warning = require('fbjs/lib/warning');

var isUnitlessNumber = CSSProperty.isUnitlessNumber;
var styleWarnings = {};

/**\n * Convert a value into the proper css writable value. The style name `name`\n * should be logical (no hyphens), as specified\n * in `CSSProperty.isUnitlessNumber`.
 *\n * @param {string} name CSS property name such as `topMargin`.
 * @param {*} value CSS property value such as `10px`.
 * @param {ReactDOMComponent} component\n * @return {string} Normalized style value with dimensions applied.
 *\n * This source code is licensed under the MIT license found in the\n * LICENSE file in the root directory of this source tree.\n */\n
function dangerousStyleValue(name, value, component, isCustomProperty) {
  // Note that we've removed escapeTextForBrowser() calls here since the\n  // whole string will be escaped when the attribute is injected into\n  // the markup. If you provide unsafe user data here they can inject\n  // arbitrary CSS which might be problematic (I couldn't repro this):
  // https://www.owasp.org/index.php/XSS_Filter_Evasion_Cheat_Sheet\n
  var isEmpty = value == null || typeof value === 'boolean' || value === '';
  if (isEmpty) {
    return '';
  }

  var isNonNumeric = isNaN(value);
  if (isCustomProperty || isNonNumeric || value === 0 || isUnitlessNumber.hasOwnProperty(name) && isUnitlessNumber[name]) {
    return '' + value; // cast to string
  }

  if (typeof value === 'string') {
    if (process.env.NODE_ENV !== 'production') {
      // Allow '0' to pass through without warning. 0 is already special and doesn't require units, so we don't need to warn
      // about it.\n      if (component && value !== '0') {
        var owner = component._currentElement._owner;\n        var ownerName = owner ? owner.getName() : null;\n        if (ownerName && !styleWarnings[ownerName]) {
          styleWarnings[ownerName] = {};
        }
        var warned = false;
        if (ownerName) {
          var warnings = styleWarnings[ownerName];
          warned = warnings[name];
          if (!warned) {
            warnings[name] = true;
          }
        }
      }
    }
    value = value.trim();
  }
  return value + 'px';\n
  var nummodule.exports = dangerousStyleValue;",";","\n*/\n
var hyphenate = require('./hyphenate');

var msPattern = /^ms-\n
/**\n * Hyphenates a camelcased CSS property name, for example:\n *\n *\n * @param {string} string\n * @return {string}\n */\nfunction hyphenateStyleName(string) {\n return hyphenate(string.replace(msPattern, '-ms-'));
}

module.exports = hyphenateStyleName;";","\nuse strict\n\n/** Copyright (c) 2013-present, Facebook, Inc.\n *\n * This source code is licensed under the MIT license found in the\n * LICENSE file in the root directory of this source tree.\n */\n
function hyphenateStyleName(string) {\n return hyphenate(string).replace(msPattern, '-ms-');\n}

module.exports = hyphenateStyleName;";","\nuse strict\n\n/** Copyright (c) 2013-present, Facebook, Inc.\n *\n * This source code is licensed under the MIT license found in the\n * LICENSE file in the root directory of this source tree.\n */\n
function hyphenateStyleName(string) {\n return hyphenate(string).replace(msPattern, '-ms-');\n}

module.exports = hyphenateStyleName;";","
*un *\* hyphenate('backgroundColor')*un *\* <\'background-color\'>*un *\* For CSS style names, use
*\*hyphenateStyleName* instead which works properly un *\* with all vendor prefixes, including *
*\*‘ms’.*un *\* @param
*\* [string] un *\* @return [string] un *\*If un *\*an function hyphenate(string) { un *\*return string.replace(_uppercasePattern, '-
*\*$1).toLowerCase();}un *\*module.exports = hyphenate;","/**un * Copyright (c) 2013-present, Facebook, Inc.*un *\* This source code is licensed under the MIT license found in the\*un *\* LICENSE file in the root directory of this source
tree.*un *\* @param *un *\* @typechecks static-only*un *\*an *\*use strict;\n
*\* Memoizes the return value of a function that accepts one string argument.*un *\*an function memoizeStringOnly(callback) {\n var cache = \{\};\n
*\* return function (string) {\n if (!cache.hasOwnProperty(string)) {\n cache[string] = callback.call(this, string);\n \}\n return cache[string];}\n \}un *\*module.exports = memoizeStringOnly;","/**un * Copyright (c) 2013-present, Facebook, Inc.*un *\* This source code is licensed under the MIT license found in the*un *\* LICENSE file in the root directory of this source
tree.*un *\* @param *un *\* @typechecks static-only*un *\*an *\*use strict;\n
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tree.*un *\* @param *un *\* @typechecks static-only*un *\*an *\*use strict;\n
*\* Memoizes the return value of a function that accepts one string argument.*un *\*an function memoizeStringOnly(callback) {\n var cache = \{\};\n
*\* return function (string) {\n if (!cache.hasOwnProperty(string)) {\n cache[string] = callback.call(this, string);\n \}\n return cache[string];}\n \}un *\*module.exports = memoizeStringOnly;"}
prefixMap[styleProp];

} } } function return ";\n
module.exports = getVendorPrefixedEventName;","/**\n
Copyright (c) 2013-present, Facebook, Inc.\n
This source code is licensed under the MIT license found in the\nLICENSE file in the root directory of this source tree.\n
L�L� Strict\n\nvar _prodInvariant = require('./reactProdInvariant');\n
_assign = require('object-assign');\n
var DOMPropertyOperations = require('./DOMPropertyOperations');\n
var LinkedValueUtils = require('./LinkedValueUtils');\n
var ReactDOMComponentTree = require('./ReactDOMComponentTree');\n
var ReactUpdates = require('./ReactUpdates');\n
var invariant = require('fbjs/lib/invariant');\n
var warning = require('fbjs/lib/warning');\n
var didWarnValueLink = false;\n
var didWarnCheckedLink = false;\n
var didWarnDefaultValue = false;\n
var didWarnDefaultChecked = false;\n
var didWarnControlledToUncontrolled = false;\n
var didWarnUncontrolledToControlled = false;\n
function forceUpdateIfMounted() {\n  if (this._rootNodeID) {\n    // DOM component is still mounted; update\n    ReactDOMInput.updateWrapper(this);\n  }\n}

function isControlled(props) {\n  var usesChecked = props.type === 'checkbox' || props.type === 'radio';\n  return usesChecked ? props.checked != null : props.value != null;\n}

var _assign = require('object-assign');\n
var DOMPropertyOperations = require('./DOMPropertyOperations');\n
var LinkedValueUtils = require('./LinkedValueUtils');\n
var ReactDOMComponentTree = require('./ReactDOMComponentTree');\n
var ReactUpdates = require('./ReactUpdates');\n
var invariant = require('fbjs/lib/invariant');\n
var warning = require('fbjs/lib/warning');\n
var didWarnValueLink = false;\n
var didWarnCheckedLink = false;\n
var didWarnDefaultValue = false;\n
var didWarnDefaultChecked = false;\n
var didWarnControlledToUncontrolled = false;\n
var didWarnUncontrolledToControlled = false;\n
function forceUpdateIfMounted() {\n  if (this._rootNodeID) {\n    // DOM component is still mounted; update\n    ReactDOMInput.updateWrapper(this);\n  }\n}

function isControlled(props) {\n  var usesChecked = props.type === 'checkbox' || props.type === 'radio';\n  return usesChecked ? props.checked != null : props.value != null;\n}

var _assign = require('object-assign');\n
var DOMPropertyOperations = require('./DOMPropertyOperations');\n
var LinkedValueUtils = require('./LinkedValueUtils');\n
var ReactDOMComponentTree = require('./ ReactDOMComponentTree');\n
var ReactUpdates = require('./ ReactUpdates');\n
var invariant = require('fbjs/lib/invariant');\n
var warning = require('fbjs/lib/warning');\n
var didWarnValueLink = false;\n
var didWarnCheckedLink = false;\n
var didWarnDefaultValue = false;\n
var didWarnDefaultChecked = false;\n
var didWarnControlledToUncontrolled = false;\n
var didWarnUncontrolledToControlled = false;\n
function forceUpdateIfMounted() {\n  if (this._rootNodeID) {\n    // DOM component is still mounted; update\n    ReactDOMInput.updateWrapper(this);\n  }\n}

function isControlled(props) {\n  var usesChecked = props.type === 'checkbox' || props.type === 'radio';\n  return usesChecked ? props.checked != null : props.value != null;\n}

var _assign = require('object-assign');\n
var DOMPropertyOperations = require('./DOMPropertyOperations');\n
var LinkedValueUtils = require('./LinkedValueUtils');\n
var ReactDOMComponentTree = require('./ReactDOMComponentTree');\n
var ReactUpdates = require('./ReactUpdates');\n
var invariant = require('fbjs/lib/invariant');\n
var warning = require('fbjs/lib/warning');\n
var didWarnValueLink = false;\n
var didWarnCheckedLink = false;\n
var didWarnDefaultValue = false;\n
var didWarnDefaultChecked = false;\n
var didWarnControlledToUncontrolled = false;\n
var didWarnUncontrolledToControlled = false;\n
function forceUpdateIfMounted() {\n  if (this._rootNodeID) {\n    // DOM component is still mounted; update\n    ReactDOMInput.updateWrapper(this);\n  }\n}

function isControlled(props) {\n  var usesChecked = props.type === 'checkbox' || props.type === 'radio';\n  return usesChecked ? props.checked != null : props.value != null;\n}
didWarnValueDefaultValue = true;


var defaultValue = props.defaultValue;


inst._wrapperState
= {
  initialChecked: props.checked != null ? props.checked : props.defaultChecked,
  initialValue: props.value != null ? props.value : defaultValue,
  listeners: null,
  onChange: _handleChange.bind(inst),
};

updateWrapper: function (inst) {
  var props = inst._currentElement.props;

  if (process.env.NODE_ENV !== 'production') {
    var controlled = isControlled(props);
    var owner = inst._currentElement.owner;

    if (!inst._wrapperState.controlled && & !didWarnUncontrolledToControlled) {
      process.env.NODE_ENV !== 'production' ? warning(false, '%s is changing an uncontrolled input of type %s to be controlled. ' + 'Input elements should not switch from uncontrolled to controlled (or vice versa). ' + 'Decide between using a controlled or uncontrolled input ' + 'element for the lifetime of the component. More info: https://fb.me/react-controlled-components', owner && owner.getName() || 'A component', props.type) : void 0;
      didWarnUncontrolledToControlled = true;
    }

    if (inst._wrapperState.controlled && !controlled && !didWarnControlledToUncontrolled) {
      process.env.NODE_ENV !== 'production' ? warning(false, '%s is changing a controlled input of type %s to be uncontrolled. ' + 'Input elements should not switch from controlled to uncontrolled (or vice versa). ' + 'Decide between using a controlled or uncontrolled input ' + 'element for the lifetime of the component. More info: https://fb.me/react-controlled-components', owner && owner.getName() || 'A component', props.type) : void 0;
      didWarnControlledToUncontrolled = true;
    }
  }

  // TODO: Shouldn't this be getChecked(props)?
  var checked = props.checked;
  if (checked != null) {
    DOMPropertyOperations.setValueForProperty(ReactDOMComponentTree.getNodeFromInstance(inst), 'checked', checked || false);
  }

  var node = ReactDOMComponentTree.getNodeFromInstance(inst);

  // Detach value from defaultValue. We won't do anything if we're working on
  // submit or reset inputs as those values & defaultValues are linked.
  // They aren't resetable nodes so this operation doesn't matter and actually
  // removes browser-default values (eg 'Submit Query') when no value is set.
  // provided
  // case 'submit':
  // case 'reset':

  switch (props.type) {
    case 'submit':
    case 'reset':
      break;
    case 'color':
    case 'date':
    case 'datetime':
    case 'datetime-local':
    case 'month':
    case 'time':
    case 'week':
      break;
    default:
  }

  // Normally, we'd just do `node.checked = node.checked` upon initial mount, less this bug
  // this is needed to work around a chrome bug where setting defaultChecked
  // will sometimes influence the value of checked (even after
detachment).
    // We need to temporarily unset name to avoid disrupting radio button groups.
    var name = node.name;
    if (name !== '') {
      node.name = "";
    }
    node.defaultChecked = !node.defaultChecked;
    var name = node.name;
    if (name !== '') {
      node.name = name;
    }
  }

  if (node.type === 'radio') {
    // We need to temporarily unset name to avoid disrupting radio button groups.
    var name = node.name;
    if (name !== '') {
      node.name = '';
    }
    node.defaultChecked = !node.defaultChecked;
    node.defaultChecked = !node.defaultChecked;
    if (name !== '') {
      node.name = name;
    }
  }

  function _handleChange(event) {
    var props = this._currentElement.props;

    var returnValue = LinkedValueUtils.executeOnChange(props, event);

    // Here we use asap to wait until all updates have propagated, which
    // is important when using controlled components within layers:
    // https://github.com/facebook/react/issues/1698
    ReactUpdates.asap(forceUpdateIfMounted, this);

    var name = props.name;
    if (props.type === 'radio' && name != null) {
      var rootNode = ReactDOMComponentTree.getNodeFromInstance(this);
      var queryRoot = rootNode;

      while (queryRoot.parentNode) {
        queryRoot = queryRoot.parentNode;
      }

      // If `rootNode.form` was non-null, then we could try `form.elements`.
      // but that sometimes behaves strangely in IE8. We could also try using
      // `form.getElementsByTagName` instead.
      var group = queryRoot.querySelectorAll('input\[name=' + JSON.stringify('' + name) + '\][type="radio"]');

      for (var i = 0; i < group.length; i++) {
        var otherNode = group[i];
        if (otherNode === rootNode || otherNode.form !== rootNode.form) {
          continue;
        }

        var otherInstance = ReactDOMComponentTree.getInstanceFromNode(otherNode);
        otherInstance ? process.env.NODE_ENV !== 'production' ? invariant(false, 'ReactDOMInput: Mixing React and non-React radio inputs with the same `name` is not supported.') : _prodInvariant('90') : void 0;

        ReactUpdates.asap(forceUpdateIfMounted, otherInstance);
      }
    }

    return returnValue;
  }

  module.exports = ReactDOMInput;
value or after initial mount)
    // or missing (e.g., for <datalist>) we don't change props.selected
    var selected = null;
    if (selectValue != null) {
      var value;
      if (props.value != null) {
        value = props.value + '';
      } else {
        value = flattenChildren(props.children);
      }
    selected = false; // if (Array.isArray(selectValue))
    // multiple
    for (var i = 0; i < selectValue.length; i++) {
      if ('' + selectValue[i] === value) {
        selected = true;
        break;
      }
    }
    }
    else {
    selected = '' + selectValue === value;
  }
}
}
}
inst._wrapperState = { selected: selected };

ReactDOMOption: function (inst) {
  // value="" should make a value attribute (#6219)
  var props = inst.currentElement.props;
  if (props.value != null)
    var node = ReactDOMComponentTree.getNodeFromInstance(inst);
    node.setAttribute('value', props.value);

  getHostProps: function (inst, props) {
    var hostProps = _assign({ selected: undefined, children: undefined }, props);
    // Read state only from initial mount because <select> updates value manually; we need the initial state only for server rendering
    if (inst.wrapperState.selected != null)
      hostProps.selected = inst.wrapperState.selected;

    var content = flattenChildren(props.children);

    if (content) {
      hostProps.children = content;
    }

    return hostProps;
  }
};

module.exports = ReactDOMOption;

/**
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 * 
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 * the LICENSE file in the root directory of this source tree.
 * *
 * @providesModule ReactDOMOption
 */

'use strict';

var _prodInvariant = require('./reactProdInvariant'),
    _assign = require('object-assign');

var LinkedValueUtils = require('./LinkedValueUtils');
var ReactDOMComponentTree = require('./ReactDOMComponentTree');
var ReactUpdates = require('./ReactUpdates');

var invariant = require('fbjs/lib/invariant');
var warning = require('fbjs/lib/warning');

var didWarnValueLink = false;
var didWarnValDefaultVal = false;

function forceUpdateIfMounted() {
  if (this._rootNodeID) {
    // DOM component is still mounted; update
    ReactDOMTextarea.updateWrapper(this);
  }
}

/**
 * Implements a <textarea> host component that allows
 * setting `value`, and
 * `defaultValue`. This differs from the traditional DOM API because value isn't usually set as
 * PCDATA children. If `value` is not supplied (or null/undefined), user actions that affect the
 * value will trigger updates to the element. Instead, the `value` prop must change in order for the rendered element to be updated.
 * The rendered element will be initialized with an empty value, the prop `defaultValue` if
 * specified, or the children content (deprecated).
 */
var ReactDOMTextarea = {
  getHostProps: function (inst, props) {
    !(props.dangerouslySetInnerHTML == null) ? process.env.NODE_ENV !== 'production' ? invariant(false, '`dangerouslySetInnerHTML` does not make sense on <textarea>.') : _prodInvariant('91') : void 0;

    // Always set children to the same thing. In IE9, the selection range will
    // get reset if `textContent` is mutated. We could add a check in setTextContent
    // to only set the value if/when the value differs from the node value (which would un
    // completely solve this IE9 bug), but Sebastian+Ben seemed to like this solution.
    // The value can be a boolean or object so that's why it's forced to be a string.
    // var hostProps = _assign({}, props, { value: undefined, defaultValue: undefined, children: '' + inst.wrapperState.initialValue, // instead: }, _assign(_assign({}, props), { defaultValue: undef });
    // TODO (yungsters): Remove support for children content in <textarea>,
    // only bother fetching default value if we're going to use it;
    // only go to null if (value == null) && var defaultVal = props.defaultValue;
    // and remove one of these props. More info: `+` https://fb.me/react-controlled-components`: void 0;
  }

  mountWrapper: function (inst, props) {
    if (process.env.NODE_ENV !== 'production') {
      LinkedValueUtils.checkPropTypes('textarea', props, inst.currentElement._owner);
      if (props.valueLink !== undefined && !didWarnValueLink) {
        process.env.NODE_ENV !== 'production' ? warning(false, '`valueLink` prop on `textarea` is deprecated; set `value` and `onChange` instead. : prodInvariant(91)); void 0;
      didWarnValueLink = true;
    }
    if (props.value !== undefined &&
    props.defaultValue !== undefined && !didWarnValDefaultVal) {
      process.env.NODE_ENV !== 'production'? warning(false, 'Textarea elements must be either controlled or uncontrolled' + `( specify either the value prop, or the defaultValue prop, but not ’ + both). Decide between using a controlled or uncontrolled textarea ’ + and remove one of these props. More info: `+` `: void 0;
  didWarnValDefaultVal = true;

    var value = LinkedValueUtils.getValue(props);
    var initialVal = value;
    // Only bother fetching default value if we're going to use it:
    if (value == null) {
      var defaultValue = props.defaultValue;
      // TODO (yungsters): Remove support for children content in <textarea>,
      // only children = props.children;
      if (children != null) {
    if (process.env.NODE_ENV !==='
process.env.NODE_ENV !== 'production' ? warning(false, 'Use the `defaultValue` or `value` props instead of setting `+children on <textarea>, do not pass children.') : _prodInvariant('92'); void 0; if (Array.isArray(children)) {children.length <= 1)}

if (defaultValue == null) {defaultValue = '';}

if (props.defaultValue == null) {
  props.defaultValue = props.defaultChecked;
}

if (props.defaultChecked == null) {
  props.defaultChecked = true;
}

function _handleChange(event) {
  var props = this._currentElement.props;
  var returnVal = LinkedValueUtils.executeOnChange(props, event);
  ReactUpdates.asap(forceUpdateIfMounted, this);
  return returnVal;
}

var ReactCurrentOwner = require('react/lib/ReactCurrentOwner');
var ReactReconciler = require('./ReactReconciler');
var ReactChildReconciler = require('./ReactChildReconciler');
var ReactComponentEnvironment = require('./ReactComponentEnvironment');
var ReactInstanceMap = require('./ReactInstanceMap');
var ReactInstrumentation = require('./ReactInstrumentation');
var ReactCurrentOwner = require('react/lib/ReactCurrentOwner');
var ReactReconciler = require('./ReactReconciler');
var ReactChildReconciler = require('./ReactChildReconciler');
var ReactComponentEnvironment = require('./ReactComponentEnvironment');

function _handleChange(event) {
  var props = this._currentElement.props;
  var returnVal = LinkedValueUtils.executeOnChange(props, event);
  ReactUpdates.asap(forceUpdateIfMounted, this);
  return returnVal;
}

var ReactCurrentOwner = require('react/lib/ReactCurrentOwner');
var ReactReconciler = require('./ReactReconciler');
var ReactChildReconciler = require('./ReactChildReconciler');

var ReactComponentEnvironment = require('./ReactComponentEnvironment');

var ReactCurrentOwner = require('react/lib/ReactCurrentOwner');
var ReactReconciler = require('./ReactReconciler');

var ReactChildReconciler = require('./ReactChildReconciler');

var ReactComponentEnvironment = require('./ReactComponentEnvironment');

function _handleChange(event) {
  var props = this._currentElement.props;
  var returnVal = LinkedValueUtils.executeOnChange(props, event);
  ReactUpdates.asap(forceUpdateIfMounted, this);
  return returnVal;
}

var ReactCurrentOwner = require('react/lib/ReactCurrentOwner');
var ReactReconciler = require('./ReactReconciler');
var ReactChildReconciler = require('./ReactChildReconciler');

var ReactComponentEnvironment = require('./ReactComponentEnvironment');

var ReactCurrentOwner = require('react/lib/ReactCurrentOwner');
var ReactReconciler = require('./ReactReconciler');

var ReactChildReconciler = require('./ReactChildReconciler');

var ReactComponentEnvironment = require('./ReactComponentEnvironment');
Text content to set.

```javascript
function makeTextContent(textContent) {
  // NOTE: Null values reduce hidden classes.
  return {
    type: 'TEXT_CONTENT',
    content: textContent,
    fromIndex: null,
    fromNode: null,
    toIndex: null,
    afterNode: null
  };
}

/**
 * Push an update, if any, onto the queue. Mutative.
 * @function enqueue
 * @param {object} queue
 * @param {object} update
 * @return {object} queue
 */
function enqueue(queue, update) {
  if (update) {
    queue = queue || [];
    queue.push(update);
  }
  return queue;
}

/**
 * React Native empty components are also multichild.
 * // This means they still get into this method but don't have _debugID.
 * @param {object} inst
 * @param {object} updateQueue
 */
function processQueue(inst, updateQueue) {
  ReactComponentEnvironment.processChildrenUpdates(inst, updateQueue);
}

var setChildrenForInstrumentation = emptyFunction;
if (process.env.NODE_ENV !== 'production') {
  var getDebugID = function (inst) {
    if (!inst._debugID) {
      // Check for ART-like instances. TODO: This is
      // silly/gross.
      var internal;
      if (internal = ReactInstanceMap.get(inst)) {
        inst = internal;
      }
      return inst._debugID;
    }
  };
  setChildrenForInstrumentation = function (children) {
    // TODO: React Native empty components are also multichild.
    // This means they still get into this method but don't have _debugID.
    var debugID = getDebugID(this);
    ReactInstrumentation.debugTool.onSetChildren(debugID, children ? Object.keys(children).map(function (key) {
      return children[key]._debugID
    }) : []);
  };
}

/**
 * ReactMultiChild are capable of reconciling
 * multiple children.
 *
 * @class ReactMultiChild
 * @internal
 */
var ReactMultiChild = {
  Mixin: {
    _reconcilerInstantiateChildren: function (nestedChildren, transaction, context) {
      if (process.env.NODE_ENV !== 'production') {
        var selfDebugID = getDebugID(this);
        if (this._currentElement) {
          try {
            ReactCurrentOwner.current = this._currentElement._owner;
            return ReactChildReconciler.instantiateChildren(nestedChildren, transaction, context, selfDebugID);
          } finally {
            ReactCurrentOwner.current = null;
          }
        }
      }
      return ReactChildReconciler.instantiateChildren(nestedChildren, transaction, context);
    },

    _reconcilerUpdateChildren: function (prevChildren, nextNestedChildrenElements, mountImages, removedNodes, transaction, context) {
      var selfDebugID = getDebugID(this);
      if (this._currentElement) {
        var nextChildren = flattenChildren(nextNestedChildrenElements, selfDebugID);
        ReactChildReconciler.updateChildren(prevChildren, nextChildren, mountImages, removedNodes, transaction, this, selfDebugID);
        return nextChildren;
      }
      return ReactChildReconciler.updateChildren(prevChildren, nextChildren, mountImages, removedNodes, transaction, this, selfDebugID);
    },

    /**
     * Generates a "mount image" for each of the supplied children.
     * In the case of `ReactDOMComponent`, a mount image is a
     * string of markup.
     *
     * @param {object} nestedChildren
     * @return {array} An
     * array of mounted representations.
     * @internal
     */
    mountChildren: function (nestedChildren, transaction, context) {
      var children = this._reconcilerInstantiateChildren(nestedChildren, transaction, context, selfDebugID);
      this._renderedChildren = children;

      var mountImages = [];
      for (var name in children) {
        var child = children[name];
        if (process.env.NODE_ENV !== 'production') {
          selfDebugID = getDebugID(this);
        }
        var mountImage = ReactReconciler.mountComponent(child, transaction, context, selfDebugID);
        child._mountIndex = index++;
        mountImages.push(mountImage);
        if (process.env.NODE_ENV !== 'production') {
          child._mountIndex = index++;
        }
      }
      if (process.env.NODE_ENV !== 'production') {
        setChildrenForInstrumentation.call(this, children);
      }
      return mountImages;
    },

    /**
     * Replaces any rendered children with a text content string.
     *
     * @param {string} nextContent String of content.
     * @return {array} An
     * array of mounted representations.
     * @internal
     */
    updateTextContent: function (nextContent) {
      var prevChildren = this._renderedChildren;
      // Remove any rendered children.
      ReactChildReconciler.unmountChildren(prevChildren, false);
      for (var name in prevChildren) {
        var child = prevChildren[name];
        if (child.hasOwnProperty(name)) {
          var mountIndex = index++;
          child._mountIndex = index++;
          var mountImage = ReactReconciler.mountComponent(child, transaction, context, selfDebugID);
          child._mountIndex = index++;
          mountImages.push(mountImage);
        }
      }
      if (process.env.NODE_ENV !== 'production') {
        setChildrenForInstrumentation.call(this, children);
      }
      return mountImages;
    }
  }
};
```
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(prevChildren.hasOwnProperty(name)) { 
  !false ? process.env.NODE_ENV !== 'production' ? invariant(false, 'updateTextContent called on non-empty component.'); : _prodInvariant('118') : void 0; 
} 

// Set new text content.
var updates = [makeTextContent(nextContent)];
processQueue(this, updates);

/**
 * Replaces any rendered children with a markup string.
 * @param {string} nextMarkup String of markup.
 * @param [object] prevChildren is the _renderedChildren.
 * @return {void}
 */
updateMarkup: function (nextMarkup) {
  var prevChildren = this._renderedChildren;
  // Remove any rendered children.
  ReactChildReconciler.unmountChildren(prevChildren, false);
  for (var name in prevChildren) {
    if (prevChildren.hasOwnProperty(name)) {
      !false ? process.env.NODE_ENV !== 'production' ? invariant(false, 'updateTextContent called on non-empty component.'); : _prodInvariant('118') : void 0;
    }
  }
  var updates = [makeSetMarkup(nextMarkup)];
  processQueue(this, updates);

  /**
   * Updates the rendered children with new children.
   * @param {?object} nextChildren The next children.
   * @param {ReactReconcileTransaction} transaction
   * @internal
   */
  updateChildren: function (nextChildren, transaction, context) {
    var name;
    for (name in nextChildren) {
      if (nextChildren.hasOwnProperty(name)) {
        !false ? process.env.NODE_ENV !== 'production' ? invariant(false, 'updateTextContent called on non-empty component.'); : _prodInvariant('118') : void 0;
      }
    }
    var updates = null;
    var name;
    for (name in nextChildren) {
      if (nextChildren.hasOwnProperty(name)) {
        !false ? process.env.NODE_ENV !== 'production' ? invariant(false, 'updateTextContent called on non-empty component.'); : _prodInvariant('118') : void 0;
      }
    }
    processQueue(this, updates);

    if (process.env.NODE_ENV !== 'production') {
      setChildrenForInstrumentation.call(this, nextChildren);
    }
  },

  /**
   * Unmounts all rendered children. This should be used to clean up children
   * when this component is unmounted. It does not actually perform any
   * backend operations.
   * @return {void}
   */
  unmountChildren: function (safely) {
    var renderedChildren = this._renderedChildren;
    ReactChildReconciler.unmountChildren(renderedChildren, safely);
    this._renderedChildren = null;
  },

  /**
   * Moves a child component to the supplied index.
   * @param {ReactComponent} child Component to move.
   * @param {number} toIndex Destination index of the element.
   * @return {void}
   */
  moveChild: function (child, afterNode, toIndex) {
    // If the index of `child` is less than `lastIndex`, then it needs to be moved.
    // Otherwise, we do not need to move it because a child will be inserted or moved before `child`.
    if (child._mountIndex < lastIndex) {
      return makeMove(child, afterNode, toIndex);
    }
    // 'lastIndex' will increment for each newly mounted child.
    var nextMountIndex = Math.max(prevChild._mountIndex, lastIndex);
    else {
      if (prevChild !== nextChild) {
        updates = updateChildren.call(prevChildren, this, nextChildren, transaction, context);
        var nextMountIndex = Math.max(prevChild._mountIndex, lastIndex);
        // The 'removedNodes' loop below will actually remove the child.
        // The child must be instantiated before it's mounted.
        updates = enqueue(updates, this._mountChildAtIndex(nextChild, mountImages[nextMountIndex], lastPlacedNode, lastIndex, transaction, context));
        nextMountIndex++;
        lastPlacedNode = ReactReconciler.getHostNode(nextChild);
      }
      // Remove children that are no longer present.
      for (var name in prevChildren) {
        if (prevChildren.hasOwnProperty(name)) {
          !false ? process.env.NODE_ENV !== 'production' ? invariant(false, 'updateTextContent called on non-empty component.'); : _prodInvariant('118') : void 0;
        }
      }
      processQueue(this, updates);
      this._renderedChildren = nextChildren;
      if (process.env.NODE_ENV !== 'production') {
        setChildrenForInstrumentation.call(this, nextChildren);
      }
    }
  },

  /**
   * Creates a child component.
   * @param {ReactComponent} child Component to create.
   * @return {void}
   */
  createChild: function (child) {
    // `mountImages` will increment for each newly mounted child.
    var nextMountIndex = Math.max(prevChild._mountIndex, lastIndex);
    // The 'removedNodes' loop below will actually remove the child.
    // The child must be instantiated before it's mounted.
    updates = enqueue(updates, this._mountChildAtIndex(nextChild, mountImages[nextMountIndex], lastPlacedNode, lastIndex, transaction, context));
    nextMountIndex++;
    lastPlacedNode = ReactReconciler.getHostNode(nextChild);
  },

  /**
   * Updates the rendered children with a markup string.
   * @param {string} nextMarkup String of markup.
   * @return {void}
   */
  updateMarkup: function (nextMarkup) {
    var prevChildren = this._renderedChildren;
    // Remove any rendered children.
    ReactChildReconciler.unmountChildren(prevChildren, false);
    for (var name in prevChildren) {
      if (prevChildren.hasOwnProperty(name)) {
        !false ? process.env.NODE_ENV !== 'production' ? invariant(false, 'updateTextContent called on non-empty component.'); : _prodInvariant('118') : void 0;
      }
    }
    var updates = [makeSetMarkup(nextMarkup)];
    processQueue(this, updates);
  }
}
```javascript
/**
 * Copyright (c) 2014-present, Facebook, Inc.
 * 
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 * file in the root directory of this source tree.
 */

'use strict';

var ReactChildReconciler = {
  /**
   * Generates a "mount image" for each of the supplied children. In the case
   * of `ReactDOMComponent`, a mount image is a string of markup.
   *
   * @param {?object} nestedChildNodes
   * @return {?object} A set of child instances.
   * @internal
   */
  instantiateChildren: function (nestedChildNodes, transaction, context, selfDebugID) // 0 in production and for roots
  {
    if (nestedChildNodes == null) {
      return null;
    }
    var childInstances = {};

    if (process.env.NODE_ENV !== 'production') {
      traverseAllChildren(nestedChildNodes, function (childInsts, child, name) {
        return
      }, childInstances);
    } else {
      traverseAllChildren(nestedChildNodes, instantiateChild, childInstances);
    }
    return childInstances;
  },

  /**
   * Updates the rendered children and returns a new set of children.
   *
   * @param {?object} prevChildren
   * @param {?object} nextChildren
   * @param {ReactReconcileTransaction} transaction
   * @param {object} context
   * @return {?object} A new set of child instances.
   * @internal
   */
  updateChildren: function (prevChildren, nextChildren, mountImages, removedNodes, transaction, hostParent, hostContainerInfo, context, selfDebugID) // 0 in production and for roots
  {
    // We currently don't have a way to track moves here but if we use iterators
    // instead of for..in we can zip the iterators and check if an item has
    // moved.
    // TODO: If nothing has changed, return the prevChildren
```
    // can quickly bailout if nothing has changed.
    if (nextChildren && !prevChildren) {
      return;
    }
    var name;
    var prevChild;
    for (name in nextChildren) {
      if (nextChildren.hasOwnProperty(name)) {
        prevChild = prevChildren[name];
        var prevElement = prevChild && prevChild._currentElement;
        var nextElement = nextChildren[name];
        if (prevChild !== null && shouldUpdateReactComponent(prevElement, nextElement)) {
          ReactReconciler.receiveComponent(prevChild, nextElement, transaction, context);
        }
      }
    }
    // The child must be instantiated before it's mounted.
    var nextChildInstance = instantiateReactComponent(nextElement, true);
    var nextChildren = nextChildInstance >> * * Unmounts all rendered children. This should be used to clean up children
    // when this component is unmounted.
    var removedNodes = ReactReconciler.unmountComponent(prevChild, false);
    }
  },

  /**
   * Unmounts all rendered children. This should be used to clean up children
   * when this
   * component is unmounted.
   *
   * @param {?object} renderedChildren Previously initialized set of children.
   *
   * @internal
   */
  unmountChildren: function (renderedChildren, safely) {
    for (name in renderedChildren) {
      if (renderedChildren.hasOwnProperty(name)) {
        var renderedChild = renderedChildren[name];
        ReactReconciler.unmountComponent(renderedChild, safely);
      }
    }
  }
};

module.exports = ReactChildReconciler;

/**
 * Copyright (c) 2013-present, Facebook, Inc.
 *
 * This source code is licensed
 * under the MIT license found in the
 * LICENSE file in the root directory of this source tree.
 *
 */

'use

strict';

var _prodInvariant = require('./reactProdInvariant'), _assign = require('object-assign');

var React = require('react/lib/React'); var ReactComponentEnvironment = require('./ReactComponentEnvironment'); var ReactCurrentOwner = require('react/lib/ReactCurrentOwner'); var ReactErrorUtils = require('./ReactErrorUtils'); var ReactInstanceMap = require('./ReactInstanceMap'); var ReactInstrumentation = require('./ReactInstrumentation'); var ReactNodeTypes = require('./ReactNodeTypes'); var ReactReconciler = require('./ReactReconciler');

if (process.env.NODE_ENV !== 'production') {
  var checkReactTypeSpec = require('./checkReactTypeSpec');
}

var emptyObject = require('fbjs/lib/emptyObject'); var invariant = require('fbjs/lib/invariant'); var shallowEqual = require('fbjs/lib/shallowEqual'); var shouldUpdateReactComponent = require('./shouldUpdateReactComponent'); var warning = require('fbjs/lib/warning');

var CompositeTypes = {
  ImpureClass: 0,
  PureClass: 1,
  StatelessFunctional: 2
};

function StatelessComponent(Component) {}
StatelessComponent.prototype.render = function () {
  var Component = ReactInstanceMap.get(this)._currentElement.type;
  var element = Component(this.props, this.context, this.updater);
  warnIfInvalidElement(Component, element);
  return element;
};

function warnIfInvalidElement(Component, element) {
  if (process.env.NODE_ENV !== 'production') {
    process.env.NODE_ENV !== 'production' ? warning(element === null || element === false || React.isValidElement(element), '%s(...): A valid React element (or null) must be returned. You may have ' +
    'returned undefined, an array or some other invalid object.', Component.displayName || Component.name || 'Component') : void 0;
    process.env.NODE_ENV !== 'production' ? warning(!Component.childContextTypes, '%s(...): childContextTypes cannot be defined on a functional component.', Component.displayName || Component.name || 'Component') : void 0;
    process.env.NODE_ENV !== 'production' ? warning(!Component.prototype.isPureReactComponent, 'Component.prototype.isPureReactComponent is undefined. This may happen when ' +
    'separating into a function to contain deoptimizations caused by try/finally.function.measureLifeCyclePerf(fn, debugID, timerType)');
  }
}

// Separated into a function to contain deoptimizations caused by try/finally.function.measureLifeCyclePerf(fn, debugID, timerType)
wrappers (see ReactMount) and empty components (see\n // ReactDOMEmptyComponent) are invisible to hooks and devtools.\n // Both are implementation details that should go away in the future.\n return fn();\n })\n ReactInstrumentation.debugTool.onBeginLifeCycleTimer(debugID, timerType);\n try {\n return fn();\n } finally {\n ReactInstrumentation.debugTool.onEndLifeCycleTimer(debugID, timerType);\n })\n
--- The Life-Cycle of a Composite Component ---------------

- constructor: Initialization of state. The instance is now retained.\n * - componentWillMount\n * - render\n * - [children's constructors]\n * - [children's componentWillMount and render]\n * - [children's componentDidMount]\n * - componentDidMount\n * - Update Phases: \n * - componentWillReceiveProps (only called if parent updated) \n * - shouldComponentUpdate\n * - componentWillUpdate\n * - render\n * - [children's constructors or receive props phases]\n * - componentWillUnmount\n * - [children's componentWillUnmount]\n * - [children destroyed]\n
The instance is now blank, released by React and ready for GC.\n
---

**--------------
--- The Life-Cycle of a Composite Component ------------------
 *
 * - constructor: Initialization of state. The instance is now retained.
 * - componentWillMount
 * - render
 * - [children's constructors]
 * - [children's componentWillMount and render]
 * - [children's componentDidMount]
 * - componentDidMount
 * - Update Phases:
 * - componentWillReceiveProps (only called if parent updated)
 * - shouldComponentUpdate
 * - componentWillUpdate
 * - render
 * - [children's constructors or receive props phases]
 * - componentWillUnmount
 * - [children's componentWillUnmount]
 * - [children destroyed]

The instance is now blank, released by React and ready for GC.

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

**

---

/**
 * ---------------
--- The Life-Cycle of a Composite Component ------------------
 *
 * - constructor: Initialization of state. The instance is now retained.
 * - componentWillMount
 * - render
 * - [children's constructors]
 * - [children's componentWillMount and render]
 * - [children's componentDidMount]
 * - componentDidMount
 * - Update Phases:
 * - componentWillReceiveProps (only called if parent updated)
 * - shouldComponentUpdate
 * - componentWillUpdate
 * - render
 * - [children's constructors or receive props phases]
 * - componentWillUnmount
 * - [children's componentWillUnmount]
 * - [children destroyed]

The instance is now blank, released by React and ready for GC.

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**

---

/**
 * ---------------
--- The Life-Cycle of a Composite Component ------------------
 *
 * - constructor: Initialization of state. The instance is now retained.
 * - componentWillMount
 * - render
 * - [children's constructors]
 * - [children's componentWillMount and render]
 * - [children's componentDidMount]
 * - componentDidMount
 * - Update Phases:
 * - componentWillReceiveProps (only called if parent updated)
 * - shouldComponentUpdate
 * - componentWillUpdate
 * - render
 * - [children's constructors or receive props phases]
 * - componentWillUnmount
 * - [children's componentWillUnmount]
 * - [children destroyed]

The instance is now blank, released by React and ready for GC.

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

**

---
componentName = Component.displayName || Component.name || 'Component';

      process.env.NODE_ENV
      !== 'production' ? warning(inst.props === undefined || !propsMutated, '%s(...): When calling super() in %s, make sure to pass ' +"up the same props that your component's constructor was passed."', componentName, componentName) : void 0;
    }

    // These should be set up in the constructor, but as a convenience for
    // simpler class abstractions, we set them up after the fact.
    inst.props = publicProps;
    inst.context = publicContext;
    inst.refs = emptyObject;
    inst.updater = updateQueue;
    this._instance = inst;

    // Store a reference from the instance back to the internal representation
    ReactInstanceMap.set(inst, this);

    if (process.env.NODE_ENV !== 'production') {
      // Since plain JS classes are defined without any special
      // logic, we can not catch common errors early. Therefore, we have to:
      // catch them here, at initialization time, instead.
      process.env.NODE_ENV !== 'production'? warning(!inst.getInitialState || inst.getInitialState.isReactClassApproved || inst.state, 'getInitialState was defined on %s, a plain JavaScript class. ' + 'This is only supported for classes created using React.createClass. ' + '+ Did you mean to define a state property instead?', this.getName() || 'a component') : void 0;
      process.env.NODE_ENV !== 'production' ? warning(!inst.getDefaultProps || inst.getDefaultProps.isReactClassApproved, 'getDefaultProps was defined on %s, a plain JavaScript class. ' + '+ This is only supported for classes created using React.createClass. ' + '+ 'Use a static property to define defaultProps instead.', componentName) : void 0;
      process.env.NODE_ENV !== 'production' ? warning(!inst.propTypes, 'propTypes was defined as an instance property on %s. Use a static ' + 'property to define propTypes instead.', componentName) : void 0;
      process.env.NODE_ENV !== 'production' ? warning(!inst.contextTypes, 'contextTypes was defined as an instance property on %s. Use a ' + 'static property to define contextTypes instead.', componentName) : void 0;
    }

    var initialState = inst.state;
    if (initialState === undefined) {
      inst.state = initialState = null;
    }

    if (typeof initialState === 'object' && !Array.isArray(initialState)) {
      process.env.NODE_ENV !== 'production' ? invariant(false, '%s.state: must be set to an object or null', this.getName() || 'ReactCompositeComponent') : _prodInvariant('106', this.getName() || 'ReactCompositeComponent');
    }

    this._pendingStateQueue = null;
    this._pendingReplaceState = false;
    this._pendingForceUpdate = false;

    var markup;
    if (inst.unstable_handleError) {
      markup = this.performInitialMountWithErrorHandling(renderedElement, hostParent, hostContainerInfo, transaction, context);
    } else {
      markup = this.performInitialMount(renderedElement, hostParent, hostContainerInfo, transaction, context);
    }

    if (inst.componentDidMount) {
      if (process.env.NODE_ENV !== 'production') {
        transaction.getReactMountReady().enqueue(function () {
          measureLifeCyclePerf(function () {
            return inst.componentDidMount();
          }, _this._debugID, 'componentDidMount');
        });
      } else {
        transaction.getReactMountReady().enqueue(inst.componentDidMount, inst);
      }
    }

    return markup;

  },

  _constructComponent: function (doConstruct, publicProps, publicContext, updateQueue) {
    if (process.env.NODE_ENV !== 'production') {
      return this._constructComponentWithoutOwner(doConstruct, publicProps, publicContext, updateQueue);
    } else {
      try {
        return this._constructComponentWithoutOwner(doConstruct, publicProps, publicContext, updateQueue);
      } finally {
        ReactCurrentOwner.current = null;
      }
    }

    var Component = this._currentElement.type;
    if (doConstruct) {
      var new Component(publicProps, publicContext,
updateQueue);
  } else {
    return new Component(publicProps, publicContext, updateQueue);
  }
} else {
  return Component(publicProps, publicContext, updateQueue);
}

performInitialMountWithErrorHandling: function (renderedElement, hostParent, hostContainerInfo, transaction, context) {
  var markup;
  var checkpoint = transaction.checkpoint();
  try {
    markup = this.performInitialMount(renderedElement, hostParent, hostContainerInfo, transaction, context);
  } catch (e) {
    // Roll back to checkpoint, handle error (which may add items to the transaction), and take a new
    transaction.rollback(checkpoint);
    this._instance.unstable_handleError(e);
    if (this._pendingStateQueue) {
      this._instance.state = this._processPendingState(this._instance.props, this._instance.context);
      checkpoint = transaction.checkpoint();
    }
    this._renderedComponent.unmountComponent(true);
    transaction.rollback(checkpoint);
    // Try again - we've informed the component about the error, so they can render an error message this time.
    if (process.env.NODE_ENV !== 'production') {
      markup = this.performInitialMount(renderedElement, hostParent, hostContainerInfo, transaction, context);
    } else {
      return Component(publicProps, publicContext, updateQueue);
    }
  }

  performInitialMountWithErrorHandling: function (renderedElement, hostParent, hostContainerInfo, transaction, context) {
    var instant = this._instance;

    var debugID = 0;
    if (process.env.NODE_ENV !== 'production') {
      debugID = this._debugID;
    }

    if (instant.componentWillMount) {
      if (process.env.NODE_ENV !== 'production') {
        measureLifeCyclePerf(function () {
          return instant.componentWillMount();
        }, debugID, 'componentWillMount');
      } else {
        instant.componentWillMount();
      }
      // When mounting, calls to `setState` by `componentWillMount` will set
      // `this._pendingStateQueue` without triggering a re-render.
      if (this._pendingStateQueue) {
        inst.state = this._processPendingState(inst.props, inst.context);
      }
    }

    // If not a stateless component, we now render
    if (renderedElement === undefined) {
      renderedElement = this._renderValidatedComponent();
    }

    var nodeType = ReactNodeTypes.getType(renderedElement);
    this._renderedNodeType = nodeType;
    var child = this._instantiateReactComponent(renderedElement, nodeType !== ReactNodeTypes.EMPTY /* shouldHaveDebugID */);
    this._renderedComponent = child;

    var markup = ReactReconciler.mountComponent(child, transaction, hostParent, hostContainerInfo, this._processChildContext(context), debugID);
    if (process.env.NODE_ENV !== 'production') {
      if (debugID !== 0) {
        var childDebugIDs = child._debugID !== 0 ? [child._debugID] : [];
      }
    }
    ReactInstrumentation.debugTool.onSetChildren(debugID, childDebugIDs);
    var retval = transaction.checkpoint();
    // Releases any resources allocated by `mountComponent`.
    *final* @internal *

    unmountComponent: function (safely) {
      if (!this._renderedComponent) {
        return;
      }
      var inst = this._instance;
      if (inst.componentWillUnmount && !inst._calledComponentWillUnmount) {
        inst._calledComponentWillUnmount = true;
        ReactReconciler.unmountComponent(this._renderedComponent, safely);
        this._renderedNodeType = null;
        this._renderedComponent = null;
        this._instance = null;
        // Reset pending fields
        this._pendingStateQueue = null;
        this._pendingReplaceState = false;
        this._pendingForceUpdate = false;
        this._pendingReplaceContents = null;
      }
    }
  },

  getHostNode: function () {
    return ReactReconciler.getHostNode(this._renderedComponent);
  },

  // These do not really need to be reset since this object is no
  // longer accessible.
  _context = null;
  _rootNodeID = 0;
  _topLevelWrapper = null;

  // Delete the reference from the instance to
the internal representation // which allow the internals to be properly cleaned up even if the user
  // leaks a reference to the public instance. ReactInstanceMap.remove(inst); // Some existing components rely on
inst.props even after they’ve been destroyed (in event handlers). // TODO: inst.props = null; // TODO:
inst.state = null; // TODO: inst.context = null; }, }.uell * filter
the context object to only contain keys specified in
  * `contextTypes
   * @param {object} context
   * @return {object}
   * @private
   * An

_maskContext: function (context) { var Component = this._currentElement.type; var contextTypes =
Component.contextTypes; if (!contextTypes) { return emptyObject; } var maskedContext = {}; for (var contextName in contextTypes) { var
maskedContext[contextName] = context[contextName]; } return maskedContext; },

  /**
   * Filters the context object to only contain keys specified in
   * `contextTypes`, and asserts that they are valid.
   * @param {object} context
   * @return {object}
   * @private
   */

_processContext: function (context) {
    var Component = this._currentElement.type;
    var inst = this._instance;

    if (inst.getContext) {
      for (var name in context) {
        if (name in Component.childContextTypes) { return _assign({}, currentContext, childContext); } else {
          return currentContext;
        }
      }
    }

    return context;
  },

  /**
   * @param {object} newType
   * @return {object}
   * @private
   */

_checkTypeSpec: function (typeSpecs, values, location) {
    if (process.env.NODE_ENV !== 'production') {
      checkReactTypeSpec(typeSpecs, values, location, this.getName(), null, this._debugID);
    }
  },

receiveComponent: function (nextElement, transaction, nextContext) {
    var prevElement = this._currentElement;
    var prevContext = this._context;

    this._pendingElement = null;

    this.updateComponent(transaction, prevElement, nextElement, prevContext, nextContext);
  },

  /**
   * If any
   * of `_pendingElement`, `_pendingStateQueue`, or `_pendingForceUpdate` is set, update the component.
   * @param {ReactReconcileTransaction} transaction
   * @param {ReactElement} prevElement
   * @param {ReactElement} nextElement
   * @param {object} prevContext
   * @param {object} nextContext
   * @return {null}
   */

performUpdateIfNecessary: function (transaction) {
    if (this._pendingElement != null) {
      ReactReconciler.receiveComponent(this, this._pendingElement, transaction, this._context);
    } else if (this._pendingStateQueue !== null ||
    this._pendingForceUpdate) {
      this.updateComponent(transaction, this._currentElement, this._currentElement, this._context, this._context);
    } else {
      this._updateBatchNumber = null;
    }
  },

  receiveComponent: function (nextElement, transaction, nextContext) {
    var prevElement = this._currentElement;
    var prevContext = this._context;
    var _pendingElement = null;

    this.updateComponent(transaction, prevElement, nextElement, prevContext, nextContext);
  },

  performUpdateIfNecessary: function (transaction) {
    if (this._pendingElement != null) {
      ReactReconciler.receiveComponent(this,
    this._pendingElement, transaction, this._context);
    } else if (this._pendingStateQueue !== null ||
    this._pendingForceUpdate) {
      this.updateComponent(transaction, this._currentElement, this._currentElement, this._context,
    this._context, this._context);
    } else {
      this._updateBatchNumber = null;
    }
  },

  /**
   * @param {ReactReconcileTransaction} transaction
   * @param {ReactElement} prevParentElement
   * @param {ReactElement} nextParentElement
   */
* @internal
* @overridable
* An updateComponent: function (transaction, prevParentElement, nextParentElement, prevUnmaskedContext, nextUnmaskedContext) { in var inst = this._instance; ![inst != null] ? process.env.NODE_ENV !== 'production' ? invariant(false, 'Attempted to update component %s that has already been unmounted (or failed to mount).', this.getName()) || ReactCompositeComponent) : _prodInvariant('136', this.getName()) || ReactCompositeComponent) : void 0; in var willReceive = false; in var nextContext; // Determine if the context has changed or not
if (this._context === nextUnmaskedContext) { in nextContext = inst.context; } else { in nextContext = this._processContext(nextUnmaskedContext); in var shouldUpdate = true; in var prevProps = prevParentElement.props; in var nextProps = nextParentElement.props; in // Not a simple state update but a props update
if (prevParentElement !== nextParentElement) { willReceive = true; } in var shouldUpdate = measureLifeCyclePerf(function () { return inst.componentWillReceiveProps(nextProps, nextContext); }, this._debugID, 'componentWillReceiveProps'); in } else { in inst.componentWillReceiveProps(nextProps, nextProps, context); in } in var shouldUpdate = true; in if (!this._pendingForceUpdate) { in if (inst.shouldComponentUpdate) { in if (process.env.NODE_ENV !== 'production') { measureLifeCyclePerf(function () { return inst.shouldComponentUpdate(nextProps, nextState, nextContext); }, this._debugID, 'shouldComponentUpdate'); } else { in shouldUpdate = inst.shouldComponentUpdate(nextProps, nextState, nextContext); } } else { in if (this._compositeType === CompositeTypes.PureClass) { shouldUpdate = !shallowEqual(prevProps, nextProps) || !shallowEqual(inst.state, nextState); } } }
}
if (process.env.NODE_ENV !== 'production') {
warning(shouldUpdate !== undefined, '%s.shouldComponentUpdate(): Returned undefined instead of a boolean value. Make sure to return true or false.', this.getName()); }

this._currentElement = nextParentElement;
this._context = nextUnmaskedContext;
inst props = nextProps;
inst inst = state = nextState;
inst context = nextContext;
this._processPendingState: function (props, context) { in var inst = this._instance; in var queue = this._pendingStateQueue; in var replace = this._pendingReplaceState; in this._pendingReplaceState = false; in this._pendingStateQueue = null; in if (queue) { in return inst.state; } in this._assign({ }, replace ? queue[0] : inst.state); for (var i = replace ? 1 : 0; i < queue.length; i++) { in var partial = queue[i]; in this._assign(nextState, typeof partial === 'function' ? partial.call(inst, nextState, props, context) : partial); in } in this._performComponentUpdate(nextElement, nextProps, nextState, transaction, nextUnmaskedContext); }

this._performComponentUpdate: function (nextElement, nextProps, nextState, nextContext, transaction, unmaskedContext) { in var this2 = this; in var inst = this._instance; in var hasComponentDidUpdate = Boolean(inst.componentDidUpdate); in var prevProps = inst.props; in var prevState = inst.state; in var prevContext = inst.context; in if (inst.componentWillUpdate) { in if (process.env.NODE_ENV !== 'production') { in measureLifeCyclePerf(function () { in return inst.componentWillUpdate(nextProps, nextState, nextContext); } }, this._debugID, 'componentWillUpdate'); } else { in inst.componentWillUpdate(nextProps, nextState, nextContext); in } in var this.currentElement = nextElement; in this.context = unmaskedContext;
process.env.NODE_ENV !== 'production' ? invariant(false, 'Stateless function components cannot have refs.'): _prodInvariant('110') : void 0;null var publicComponentInstance = component.getPublicInstance();null if (process.env.NODE_ENV !== 'production') {null var componentName = component && & component.getName ? component.getName : 'a component';null process.env.NODE_ENV !== 'production' ? warning(publicComponentInstance != null || component._compositeType !== CompositeTypes.StatelessFunctional, 'Stateless function components cannot be given refs' + '(See ref \"%s\" in \%s created by \%s).' + 'Attempts to access this ref will fail.\ref componentName, this.getName(): \void 0;null }\var refs = inst.refs $$===$$ emptyObject ? inst.refs = {};\n\nfunction refs[ref] = publicComponentInstance;\n\n/*\n * @param {string} ref Name to dereference.\n * @final\n */\n\nfunction(getPublicInstance() \n  * var inst = this._instance;\n  * if (this._compositeType === CompositeTypes.StatelessFunctional) {null \n    return null;\n  }\n  \n  // Stub

  // Instantiate React component.
null \n\nmodule.exports = ReactCompositeComponent;

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 *\n */

'use strict';

var KeyEscapeUtils = require('./KeyEscapeUtils');
var traverseAllChildren = require('./traverseAllChildren');
var warning = require('fbjs/lib/warning');

var ReactComponentTreeHook;

if (typeof process !== 'undefined' && process.env && process.env.NODE_ENV === 'test') {
  // Temporary hack.

  // Inline requires don’t work well with Jest:
  // https://github.com/facebook/react/issues/7240
  // Remove the inline requires when we don’t need them anymore:
  // https://github.com/facebook/react/pull/7178

  ReactComponentTreeHook = require('react/lib/ReactComponentTreeHook');
}

/**\n * @param {function} traverseContext Context passed through traversal.
 * @param {?ReactComponent} child React child component.
 * @param {!string} name String name of key path to child.
 * @param {number=} selfDebugID Optional debugID of the current internal instance.
 * @return {function flattenSingleChildIntoContext(traverseContext, child, name, \n * selfDebugID) \n * // We found a component instance.\n * if (traverseContext && typeof traverseContext === 'object')

**
var result = traverseContext;
var keyUnique = result[name] === undefined;
if (process.env.NODE_ENV !== 'production') {
  if (ReactComponentTreeHook) {
    var ReactComponentTreeHook = require('react/lib/ReactComponentTreeHook');
  } else if (keyUnique) {
    flattens children that are typically specified as `props.children`. Any null
* children will not be included in the
resulting object. * @return {object} flattened children keyed by name.
}

else {
  traverseAllChildren(children, function (traverseContext, child, name) {
    var result = flattenSingleChildIntoContext(traverseContext, child, name, selfDebugID);
  }, result);
}

/**
 * Flattens children that are typically specified as `props.children`. Any null
 * children will not be included in the
 * @return {!object} flattened children keyed by name.
 */
function flattenChildren(children, selfDebugID) {
  if (children == null) {
    return children;
  }
  var result = {};

  if (process.env.NODE_ENV !== 'production') {
    traverseAllChildren(children, function (traverseContext, child, name) {
      return flattenSingleChildIntoContext(traverseContext, child, name, selfDebugID);
    }, result);
  } else {
    traverseAllChildren(children, flattenSingleChildIntoContext, result);
  }

  return result;
}

/**
 * Executed within the scope of the `Transaction` instance. Consider these
 * @see Transaction
 * @abstract
 * @final
 * @return {array} Empty list of operation wrap procedures.
 */
getTransactionWrappers: function () {
  return TRANSACTION_WRAPPERS;
},

/**
 * @return {object} The queue to collect React async events.
 */
getUpdateQueue: function () {
  return this.updateQueue;
},

/**
 * `PooledClass` looks for this, and will invoke this before allowing this
 * instance to be reused.
 */
destructor: function () { },

checkpoint: function () { },

rollback: function () {};

_assign(ReactServerRenderingTransaction.prototype, Transaction, Mixin);

PooledClass.addPoolingTo(ReactServerRenderingTransaction);

module.exports = ReactServerRenderingTransaction;
ReactServerUpdateQueue.prototype.isMounted = function isMounted(publicInstance) {
    return false;
};

/**
 * Enqueues a callback that will be executed after all the pending updates
 * have processed.
 */

ReactServerUpdateQueue.prototype.enqueueCallback = function enqueueCallback(publicInstance, callback, callerName) {
    if (this.transaction.isInTransaction()) {
        ReactUpdateQueue.enqueueCallback(publicInstance, callback, callerName);
    }
};

/**
 * Forces an update. This should only be invoked when it is known within
 * that the state of this component has changed but `setState` was not called.
 * This will not invoke `shouldComponentUpdate`, but it will invoke
 * `componentWillUpdate` and `componentDidUpdate`. If you want to call this
 * method when you know that some deeper aspect of the component's state
 * has changed but `setState` was not called, you may want to call this when
 * you know that some deeper aspect of the component's state has changed but
 * `setState` was not called. This will not invoke `shouldComponentUpdate`,
 * but it will invoke `componentWillUpdate` and `componentDidUpdate`. You may
 * want to call this when you know that some deeper aspect of the component's
 * state has changed but `setState` was not called. This will not invoke
 * `shouldComponentUpdate`, but it will invoke `componentWillUpdate` and
 * `componentDidUpdate`. You may want to call this when you know that some
 * deeper aspect of the component's state has changed but `setState` was not
 * called. This will not invoke `shouldComponentUpdate`, but it will invoke
 * `componentWillUpdate` and `componentDidUpdate`.
 */

ReactServerUpdateQueue.prototype.enqueueForceUpdate = function enqueueForceUpdate(publicInstance) {
    if (this.transaction.isInTransaction()) {
        ReactUpdateQueue.enqueueForceUpdate(publicInstance);
    } else {
        warnNoop(publicInstance, 'forceUpdate');
    }
};

/**
 * Replaces all of the state. Always use this or `setState` to mutate state.
 * You should treat `this.state` as immutable.
 * There is no guarantee that `this.state` will be immediately updated, so
 * accessing `this.state` after calling this method may return the old value.
 */

ReactServerUpdateQueue.prototype.enqueueReplaceState = function enqueueReplaceState(publicInstance, completeState) {
    if (this.transaction.isInTransaction()) {
        ReactUpdateQueue.enqueueReplaceState(publicInstance, completeState);
    } else {
        warnNoop(publicInstance, 'replaceState');
    }
};

/**
 * Sets a subset of the state. This only exists because `_pendingState` is
 * internal. This provides a merging strategy that is not available to deep
 * properties which is confusing. TODO: Expose pendingState or don't use it
 * during the merge.
 */

ReactServerUpdateQueue.prototype.enqueueSetState = function enqueueSetState(publicInstance, partialState) {
    if (this.transaction.isInTransaction()) {
        ReactUpdateQueue.enqueueSetState(publicInstance, partialState);
    } else {
        warnNoop(publicInstance, 'setState');
    }
};
function () {
    ReactDOMComponentTree.ucacheNode(this);
  }
});

module.exports = ReactDOMEmptyComponent;

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 */

'use strict';

var _prodInvariant = require('./reactProdInvariant');

var invariant = require('fbjs/lib/invariant');

/**
 * Return the lowest common ancestor of A and B, or null if they are in\n * different trees.
 */
function getLowestCommonAncestor(instA, instB) {

  var depthA = 0;
  for (var tempA = instA; tempA; tempA = tempA._hostParent) {
    depthA++;
  }
  var depthB = 0;
  for (var tempB = instB; tempB = tempB._hostParent;) {
    depthB++;
    if (A is deeper, crawl up, while (depthA - depthB > 0) {
      instA = instA._hostParent;
      depthA--;
    } else if (B is deeper, crawl up, while (depthB - depthA > 0) {
      instB = instB._hostParent;
      depthB--;
    } while (walk in lockstep until we find a match. where depth = depthA
    while (depth--) {
      if (instA === instB) {
        return instA;
      }
      instA = instA._hostParent;
    }
    instB = instB._hostParent;
  }
  return null;
}

/**
 * Return if A is an ancestor of B.
 */
function isAncestor(instA, instB) {
  !('_hostNode' in instA) ? process.env.NODE_ENV !== 'production' ? invariant(false, 'isAncestor: Invalid argument.') : _prodInvariant('35') : void 0;
  !('_hostNode' in instB) ? process.env.NODE_ENV !== 'production' ? invariant(false, 'isAncestor: Invalid argument.') : _prodInvariant('35') : void 0;

  while (instB) {
    if (instB === instA) {
      return true;
    }
    instB = instB._hostParent;
  }
  return false;
}

/**
 * Return the parent instance of the passed-in instance.
 */
function getParentInstance(inst) {

  return inst._hostParent;
}

/**
 * Simulates the traversal of a two-phase, capture/bubble event dispatch.
 */
function traverseTwoPhase(inst, fn, arg) {
  var path = [];
  while (inst) {
    path.push(inst);
    inst = inst._hostParent;
  }
  var i;
  for (i = path.length; i-- > 0;) {
    fn(path[i], 'captured', arg);
  }
  for (i = 0; i < path.length; i++) {
    fn(path[i], 'bubbled', arg);
  }
}

/**
 * Traverses the ID hierarchy and invokes the supplied `cb` on any IDs that
 * should would receive a `mouseEnter` or `mouseLeave` event.
 */
function traverseEnterLeave(from, to, fn, argFrom, argTo) {
  var common = from && to ? getLowestCommonAncestor(from, to) : null;
  var pathFrom = [];
  while (from && from !== common) {
    pathFrom.push(from);
    from = from._hostParent;
  }
  var pathTo = [];
  while (to && to !== common) {
    pathTo.push(to);
    to = to._hostParent;
  }
  var i;
  for (i = pathTo.length; i-- > 0;) {
    fn(pathTo[i], 'bubbled', argTo);
  }
  for (i = pathFrom.length; i-- > 0;) {
    fn(pathFrom[i], 'captured', argFrom);
  }
}

module.exports = {
  isAncestor: isAncestor,
  getLowestCommonAncestor: getLowestCommonAncestor,
  getParentInstance: getParentInstance,
  traverseTwoPhase: traverseTwoPhase,
  traverseEnterLeave: traverseEnterLeave,
};
this._hostParent = null;

// Properties
this._domID = 0;
this._mountIndex = 0;
this._closingComment = null;
this._commentNodes = null;

_assign(ReactDOMTextComponent.prototype, {
  /**
   * Creates the markup for this text node. This node is not intended to have
   * any features besides containing text content.
   */
  * @param {ReactReconcileTransaction}transaction
   * @return {string}
   * Markup for this text node.
   */
  mountComponent: function (transaction, hostParent, hostContainerInfo, context) {
    if (process.env.NODE_ENV !== 'production') {
      var parentInfo;
      if (hostParent != null) {
        parentInfo = hostParent._ancestorInfo;
      } else if (hostContainerInfo != null) {
        parentInfo = hostContainerInfo._ancestorInfo;
      }
      if (parentInfo) {
        // parentInfo should always be present except for the top-level // component when server rendering
        validateDOMNesting(null, this._stringText, this, parentInfo);
      }
    }

    var domID = hostContainerInfo._idCounter++;
    var openingValue = ' react-text: ' + domID + ' ';
    var closingValue = ' /react-text ';
    this._domID = domID;
    this._hostParent = hostParent;
    if (transaction.useCreateElement) {
      var ownerDocument = hostContainerInfo.ownerDocument;
      var openingComment = ownerDocument.createComment(openingValue);
      var closingComment = ownerDocument.createComment(closingValue);
      var lazyTree =
        DOMLazyTree(ownerDocument.createDocumentFragment());
      DOMLazyTree.queueChild(lazyTree, DOMLazyTree(openingComment));
      this._stringText = '' + this._stringText;
      if (transaction.renderToStaticMarkup) {
        // Normally we’d wrap this between comment nodes for the reasons stated
        // above, but since this is a situation where React won’t take over
        // (static pages), we can simply return the text as it is.
        return escapeTextContentForBrowser(this._stringText);
      }
      var escapedText = escapeTextContentForBrowser(this._stringText);
      var nextText = this._stringText;
      var nextStringText = '' + nextText;
      if (nextStringText !== this._stringText) {
        // TODO: Save this as
        // pending props and use performUpdateIfNecessary
        // and/or updateComponent to do the actual update for
        // consistency within // other component types?
        this._stringText = nextStringText;
      }
    }
  },

  getHostNode: function () {
    var hostNode = this._commentNodes;
    if (hostNode) {
      return hostNode;
    }
    if (!this._closingComment) {
      var openingComment = ReactDOMComponentTree.getNodeFromInstance(this);
      var node = openingComment.nextSibling;
      while (true) {
        if (node.nodeType === 8 && node.nodeValue === ' /react-text ') {
          this._closingComment = node;
          break;
        }
        node = node.nextSibling;
      }
    }
    hostNode = this._closingComment;
    DOMChildrenOperations.replaceDelimitedText(commentNodes[0],
      commentNodes[1], nextText);
    // TODO: Save this as
    // pending props and use performUpdateIfNecessary
    // and/or updateComponent to do the actual update for
    // consistency within // other component types?
  },

  unmountComponent: function () {
    this._closingComment = null;
    this._commentNodes = null;
  }
});

module.exports = ReactDOMTextComponent;
null

initialize: emptyFunction,
  close: ReactUpdates.flushBatchedUpdates.bind(ReactUpdates)
};

var TRANSACTION_WRAPPERS = [FLUSH_BATCHED_UPDATES, RESTART_BATCHED_UPDATES];

function ReactDefaultBatchingStrategyTransaction() {
  this.reinitializeTransaction();
}

_assign(ReactDefaultBatchingStrategyTransaction.prototype, Transaction, {
  getTransactionWrappers: function () {
    return TRANSACTION_WRAPPERS;
  }
});

var transaction = new ReactDefaultBatchingStrategyTransaction();

var ReactDefaultBatchingStrategy = {
  isBatchingUpdates: false,
  batchedUpdates: function (callback, a, b, c, d, e) {
    var alreadyBatchingUpdates = ReactDefaultBatchingStrategy.isBatchingUpdates;
    ReactDefaultBatchingStrategy.isBatchingUpdates = true;
    try {
      if (alreadyBatchingUpdates) {
        return callback(a, b, c, d, e);
      } else {
        return transaction.perform(callback, null, a, b, c, d, e);
      }
    } finally {
      ReactDefaultBatchingStrategy.isBatchingUpdates = alreadyBatchingUpdates;
    }
  }
};

module.exports = ReactDefaultBatchingStrategy;
@internal
 */

 ReactEventListener.dispatchEvent.bind(null, topLevelType));
   }}, function (topLevelType, handlerBaseName, element) {
     return EventListener.listen(element, handlerBaseName, 
       ReactEventListener.dispatchEvent.bind(null, topLevelType));
   },

   /**
    * Traps a top-level event by using
    * event capturing.
    *
    * @param {string} topLevelType Record from 'EventConstants'.
    * @param {string} handlerBaseName Event name (e.g. 'click').
    * @param {object} element Element on which to attach listener.
    * @return {?object} An object with a remove function which will forcefully
    * remove the listener.
    * @internal
    */
   ReactEventListener.capture(event, handlerBaseName, element) {
     if (!element) {
       return null;
     }
     return EventListener.capture(event, handlerBaseName, 
       ReactEventListener.dispatchEvent.bind(null, topLevelType));
   },

   monitorScrollValue: function (refresh) {
     var callback = scrollValueMonitor.bind(null, refresh);
     EventListener.listen(window, 'scroll', callback);
   },

   dispatchEvent: function (topLevelType, nativeEvent) {
     if (!ReactEventListener._enabled) {
       return;
     }

     var bookKeeping = TopLevelCallbackBookKeeping.getPooled(topLevelType, nativeEvent);
     try {
       // Event queue being processed in the same cycle allows
       // `preventDefault`.
       ReactUpdates.batchedUpdates(handleTopLevelImpl, bookKeeping);
     } finally {
       TopLevelCallbackBookKeeping.release(bookKeeping);
     }
   }
};

module.exports = ReactEventListener;

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 *
 */

'use strict';

/**
 * Gets the scroll position of the supplied element or window.
 *
 * The return values are unbounded, unlike `getScrollPosition`. This means
 * they may be negative or exceed the element boundaries (which is possible
 * using `inertial scrolling`).
 */

function getUnboundedScrollPosition(scrollable) {
  if (scrollable.Window && scrollable instanceof scrollable.Window) {
    return {
      x: scrollable.pageXOffset || scrollable.document.documentElement.scrollLeft,
      y: scrollable.pageYOffset || scrollable.document.documentElement.scrollTop
    };
  }
  return {
    x: scrollable.scrollLeft,
    y: scrollable.scrollTop
  };
}

module.exports = getUnboundedScrollPosition;

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 *
 */

'use strict';

var _assign = require('object-assign');

var CallbackQueue = require('./CallbackQueue');
var PooledClass = require('./PooledClass');
var ReactBrowserEventEmitter = require('./ReactBrowserEventEmitter');
var ReactInputSelection = require('./ReactInputSelection');
var ReactInstrumentation = require('./ReactInstrumentation');
var Transaction = require('./Transaction');
var ReactUpdateQueue = require('./ReactUpdateQueue');

var SELECTION_RESTORATION = {
  /**
   * @return {Selection} Selection information.
   */
  initialize: ReactInputSelection.getSelectionInformation,
  /**
   * @param {Selection} sel Selection information returned
   * from `initialize`.
   */
  close: ReactInputSelection.restoreSelection
};

var EVENT_SUPPRESSION = {
  /**
   * @return {boolean} The enabled status
   */
  initialize: true,
  /**
   * @param {boolean} enabled Enables or disables
   * event suppression.
   */
  close: function (enabled) {
    if (enabled) {
      eventSuppressionListened = true;
    }
    // Cache this since it's expensive to compute
    eventSuppressionEnabled = eventSuppressionListened;
    eventSuppressionEnabled = false;
    return eventSuppressionListened;
  }
};

ReactInstrumentation._initializeWarning = true;

module.exports = ReactInstrumentation;

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of `ReactBrowserEventEmitter` before the reconciliation.

```javascript
var currentlyEnabled = ReactBrowserEventEmitter.isEnabled();
return currentlyEnabled;
```

`ReactBrowserEventEmitter` provides a queue for collecting `componentDidMount` and `componentDidUpdate` callbacks during the transaction.

```javascript
initialize: function () {
    var currentlyEnabled = ReactBrowserEventEmitter.isEnabled();
    ReactBrowserEventEmitter.setEnabled(false);
    return currentlyEnabled;
},

close: function (previouslyEnabled) {
    ReactBrowserEventEmitter.setEnabled(previouslyEnabled);
}
```

`ON_DOM_READY_QUEUEING` provides a queue for collecting `componentDidMount` and `componentDidUpdate` callbacks during the transaction.

```javascript
initialize: function () {
    this.reactMountReady.reset();
},

close: function () {
    this.reactMountReady.notifyAll();
}
```

The `Transaction` class provides a queue for collecting `componentDidMount` and `componentDidUpdate` callbacks during the transaction.

```javascript
this.reactMountReady = CallbackQueue.getPooled(null);
this.useCreateElement = useCreateElement;

.mixin(Mixin);

PooledClass.addPoolingTo(ReactReconcileTransaction);

module.exports = ReactReconcileTransaction;
```

`getNodeForCharacterOffset` and `getTextContentAccessor` are used to get the appropriate anchor and focus node/offset pairs for IE.

```javascript
function isCollapsed(anchorNode, anchorOffset, focusNode, focusOffset) {
    return anchorNode === focusNode && anchorOffset === focusOffset;
}
```
always forward.

IE text differs from modern selection in that it behaves as though block elements end with a new line. This means character offsets will differ between the two APIs.

```javascript
function getIEOffsets(node) {
  var selection = document.selection;
  var selectedRange = selection.createRange();
  var selectedLength = selectedRange.text.length;

  if (selection.rangeCount == 0) {
    return {
      start: 0,
      end: 0
    };
  }

  var anchorNode = selection.anchorNode;
  var anchorOffset = selection.focusNode;
  var focusOffset = selection.focusOffset;

  var isSelectionCollapsed = isCollapsed(anchorNode, anchorOffset, focusNode, focusOffset);

  var rangeLength = isSelectionCollapsed ? 0 : selection.toString().length;
  var startMarker = getNodeForCharacterOffset(node, start);
  var endMarker = getNodeForCharacterOffset(node, end);

  if (startMarker && endMarker) {
    var range = document.createRange();
    range.setStart(startMarker.node, startMarker.offset);
    range.setEnd(endMarker.node, endMarker.offset);
    range.select();
  }
}
```

```javascript
function getModernOffsets(node) {
  var selection = window.getSelection ? window.getSelection();

  if (!selection || selection.rangeCount === 0) {
    return null;
  }

  var anchorNode = selection.anchorNode;
  var anchorOffset = selection.focusNode;
  var anchorRange = selection.getRangeAt(0);

  var isBackward = selection.anchorNode !== selection.focusNode;
  var isSelectionCollapsed = selection.isCollapsed;

  var start = Math.min(anchorOffset, anchorRange.endOffset);
  var end = Math.max(anchorOffset, anchorRange.endOffset);

  return {
    start: start,
    end: end
  };
}
```

```javascript
function setIEOffsets(node, offsets) {
  var range = document.selection.createRange().duplicate();
  var start, end;

  if (offsets.end === undefined) {
    start = offsets.start;
    end = start;
  } else if (offsets.start > offsets.end) {
    start = offsets.end;
    end = offsets.start;
  } else {
    start = offsets.start;
    end = offsets.end;
  }

  range.moveToElementText(node);
  range.moveStart('character', start);
  range.setEndPoint('EndToStart', range);
  range.moveEnd('character', end - start);
  range.select();
}
```

```javascript
function setModernOffsets(node, offsets) {
  var selection = window.getSelection();
  var length = node[getSelectionAccessor()].length;
  var start = Math.min(offsets.start, length);
  var end = Math.max(offsets.end, length);

  if (selection.rangeCount === 0) {
    return;
  }

  var startMarker = getNodeForCharacterOffset(node, start);
  var endMarker = getNodeForCharacterOffset(node, end);

  var range = document.createRange();
  range.setStart(startMarker.node, startMarker.offset);
  range.setEnd(endMarker.node, endMarker.offset);
  range.select();
}
```
```javascript
endMarker.offset);

selection.addRange(range);

if (getSelection.rangeCount) {
      selection.addRange(range);
    }
}
}

var useIEOffsets = ExecutionEnvironment.canUseDOM &
  & ('selection' in document &
  & !('getSelection' in window));

if (ReactDOMSelection !== null && useIEOffsets) {
  var getIEOffsets = getModernOffsets;

  function getLeafNode(node) {
    if (node && node.firstChild) {
      return node;
    }
  }

  function getSiblingNode(node) {
    while (node) {
      if (node.nextSibling)
        return node.nextSibling;
      node = node.parentNode;
    }
  }

  function getNodeForCharacterOffset(root, offset) {
    var node = getLeafNode(root);
    var nodeStart = 0;
    var nodeEnd = 0;

    while (node) {
      if (node.nodeType === 3) {
        nodeEnd = nodeStart + node.textContent.length;

        if (nodeStart <= offset && nodeEnd >= offset) {
          return {
            node: node,
            offset: offset - nodeStart
          };
        }

        nodeStart = nodeEnd;
      }

      node = getLeafNode(getSiblingNode(node));
    }
  }
}
```
```

var SVGDOMPropertyConfig = {
  Properties: { },
  DOMAttributeNamespaces: { },
  DOMAttributeNames: {},
}

module.exports = SVGDOMPropertyConfig;

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 */

'use strict';

var EventPropagators = require('./EventPropagators');
var ExecutionEnvironment = require('fbjs/lib/ExecutionEnvironment');
var ReactDOMComponentTree = require('./ReactDOMComponentTree');
var ReactInputSelection = require('./ReactInputSelection');
var SyntheticEvent = require('./SyntheticEvent');

var getActiveElement = require('fbjs/lib/getActiveElement');
var isTextInputElement = require('./isTextInputElement');
var shallowEqual = require('fbjs/lib/shallowEqual');

var skipSelectionChangeEvent = ExecutionEnvironment.canUseDOM && 'documentMode' in document && document.documentMode <= 11;

var eventTypes = {
  select: {
    phasedRegistrationNames: {
      bubbled: 'onSelect',
      captured: 'onSelectCapture'
    },
    dependencies: ['topBlur', 'topContextMenu', 'topFocus', 'topKeyDown', 'topKeyUp', 'topMouseDown', 'topMouseUp', 'topSelectionChange']
  }
};

var activeElement = null;
var activeElementInst = null;
var lastSelection = null;
var mouseDown = false;

// Track whether a listener exists for this plugin. If none exist, we do not extract events. See #3639.
var hasListener = false;

/**
 * Get an object which is a unique representation of the current selection.
 *
 * The return value will not be consistent across nodes or browsers, but will two identical selections on the same node will return identical objects.
 *
 * @param {DOMElement} node
 * @return {object}
 */
function getSelection(node) {
  if ('selectionStart' in node && ReactInputSelection.hasSelectionCapabilities(node)) {
    return {
      start: node.selectionStart,
      end: node.selectionEnd
    };
  } else if (window.getSelection) {
    var selection = window.getSelection();
    return {
      anchorNode: selection.anchorNode,
      anchorOffset: selection.anchorOffset,
      focusNode: selection.focusNode,
      focusOffset: selection.focusOffset
    };
  } else if (document.selection) {
    var range = document.selection.createRange();
    return {
      parentElement: range.parentElement(),
      text: range.text,
      top: range.boundingTop,
      left: range.boundingLeft
    };
  }
}

/**
 * Construct selection event
 *
 * @param {object} nativeEvent
 * @return {?SyntheticEvent}
 */
function constructSelectEvent(nativeEvent, nativeEventTarget) {
  // Ensure we have the right element, and that the user is not dragging a selection. In HTML5, select fires only on input and textarea thus if there's no focused element we don't dispatch.
  if (mouseDown || activeElement == null || activeElement !== getActiveElement()) {
    return null;
  }

  // Only fire when selection has actually changed.
  var currentSelection = getSelection(activeElement);
  if (!lastSelection || !shallowEqual(lastSelection, currentSelection)) {
    lastSelection = currentSelection;

    var syntheticEvent = SyntheticEvent.getPooled(eventTypes.select, activeElementInst, nativeEvent, nativeEventTarget);

    syntheticEvent.type = 'select';
    syntheticEvent.target = activeElement;

    EventPropagators.accumulateTwoPhaseDispatches(syntheticEvent);

    return syntheticEvent;
  }

  return null;
}

class SelectEventPlugin {
  eventTypes: eventTypes,
  extractEvents: function (topLevelType, targetInst, nativeEvent, nativeEventTarget) {
    if (!hasListener) {
      return null;
    }

    var targetNode = targetInst ? ReactDOMComponentTree.getNodeFromInstance(targetInst) : window;

    switch (topLevelType) {
      //
    }
    return null;
  }
}
```
Track the input node that has focus.

```javascript
if (isTextInputElement(targetNode)) {
  case 'topFocus':
    activeElement = targetNode;
    activeElementInst = targetInst;
    lastSelection = null;
    break;
  case 'topBlur':
    activeElement = null;
    lastSelection = null;
    break;
  // Don't fire the event while the user is dragging.
    matched then // semantics of the native select event.
    return constructSelectEvent(nativeEvent, nativeEventTarget);
    break;
  // Chrome and IE fire non-standard event when selection is changed (and sometimes when it hasn't). IE's event fires out of order with respect to key and input events on deletion, so we discard it.
    break;
  // Firefox doesn't support selectionchange, so check selection status
    // after each key entry. The selection changes after keydown and before keyup, but we check on keydown as well in the case of holding down a key, so when multiple keydown events are fired but only one keyup is fired // This is also our approach for IE handling, for the reason above.
    if (skipSelectionChangeEvent) {
      break;
    }
    case 'topKeyDown':
      case 'topKeyUp':
        return constructSelectEvent(nativeEvent, nativeEventTarget);
    }
    return null;
  },

  didPutListener: function (inst, registrationName, listener) {
    if (registrationName === 'onSelect') {
      hasListener = true;
    }
```
```javascript
    case 'topCanPlayThrough':
    case 'topDurationChange':
    case 'topEmptied':
    case 'topEncrypted':
    case 'topEnded':
    case 'topError':
    case 'topInput':
    case 'topInvalid':
    case 'topLoad':
    case 'topLoadedData':
    case 'topLoadedMetadata':
    case 'topLoadStart':
    case 'topPlay':
    case 'topPlaying':
    case 'topProgress':
    case 'topRateChange':
    case 'topReset':
    case 'topSeeked':
    case 'topSeeking':
    case 'topStalled':
    case 'topSubmit':
    case 'topSuspend':
    case 'topTimeUpdate':
    case 'topVolumeChange':
    case 'topWaiting':
      // HTML Events
      // @see http://www.w3.org/TR/html5/index.html#events-0
      EventConstructor = SyntheticEvent;
      break;

    case 'topKeyPress':
      // Firefox creates a keypress event for function keys too. This removes the unwanted keypress events. Enter is however both printable and non-printable. One would expect Tab to be as well (but it isn't).
      if (getEventCharCode(nativeEvent) === 0) {
        return null;
      } /* falls through */
    case 'topKeyDown':
    case 'topKeyUp':
      EventConstructor = SyntheticKeyboardEvent;
      break;
    case 'topBlur':
    case 'topFocus':
      EventConstructor = SyntheticFocusEvent;
      break;

    case 'topClick':
      // Firefox creates a click event on right mouse clicks. This removes the unwanted click events if (nativeEvent.button === 2) {
        return null;
      } /* falls through */
    case 'topDoubleClick':
    case 'topMouseDown':
    case 'topMouseMove':
    case 'topMouseUp':
    case 'topDrag':
    case 'topDragEnd':
    case 'topDragEnter':
    case 'topDragLeave':
    case 'topDragOver':
    case 'topDragStart':
    case 'topDrop':
      EventConstructor = SyntheticMouseEnterEvent;
      break;
    case 'topTouchMove':
    case 'topTouchStart':
    case 'topTouchCancel':
    case 'topTouchEnd':
      EventConstructor = SyntheticTouchEvent;
      break;

    !EventConstructor ? process.env.NODE_ENV !== 'production' ? invariant(false, 'SimpleEventPlugin: Unhandled event type, `%s`.', topLevelType) : _prodInvariant('86', topLevelType) : void 0;
    var event = EventConstructor.getPooled(dispatchConfig, targetInst, nativeEvent, nativeEventTarget);
    EventPropagators.accumulateTwoPhaseDispatches(event);
    return event;
  },

  didPutListener: function (inst, registrationName, listener) {
    // Mobile Safari does not fire properly bubble click events on non-interactive elements, which means delegated click listeners do not fire. The workaround for this bug involves attaching an empty click listener on the target node.
    if (registrationName === 'onClick' && !isInteractive(inst._tag)) {
      var key = getDictionaryKey(inst);
      var node = ReactDOMComponentTree.getNodeFromInstance(inst);
      if (!onClickListeners[key]) {
        onClickListeners[key] = EventListener.listen(node, 'click', emptyFunction);
      }
    }
  },

  willDeleteListener: function (inst, registrationName) {
    if (registrationName === 'onClick' && !isInteractive(inst._tag)) {
      var key = getDictionaryKey(inst);
      delete onClickListeners[key];
    }
  }
};

module.exports = SimpleEventPlugin;`
```javascript
SyntheticAnimationEvent(dispatchConfig, dispatchMarker, nativeEvent, nativeEventTarget) {
  return SyntheticEvent.call(this, dispatchConfig, dispatchMarker, nativeEvent, nativeEventTarget);
}

module.exports = SyntheticAnimationEvent;

SyntheticEvent.augmentClass(SyntheticAnimationEvent, AnimationEventInterface);

function (event) {
  return 'clipboardData' in event ? event.clipboardData : window.clipboardData;
}

module.exports = SyntheticClipboardEvent;

function SyntheticClipboardEvent(dispatchConfig, dispatchMarker, nativeEvent, nativeEventTarget) {
  return SyntheticEvent.call(this, dispatchConfig, dispatchMarker, nativeEvent, nativeEventTarget);
}

module.exports = SyntheticClipboardEvent;

function SyntheticFocusEvent(dispatchConfig, dispatchMarker, nativeEvent, nativeEventTarget) {
  return SyntheticUIEvent.call(this, dispatchConfig, dispatchMarker, nativeEvent, nativeEventTarget);
}

module.exports = SyntheticFocusEvent;

function SyntheticKeyboardEvent(dispatchConfig, dispatchMarker, nativeEvent, nativeEventTarget) {
  return SyntheticUIEvent.call(this, dispatchConfig, dispatchMarker, nativeEvent, nativeEventTarget);
}
```

---

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```javascript
'use strict';

getEventCharCode = require('./getEventCharCode');

normalizeKey = {
  Esc: 'Escape',
  Spacebar: ' ',
  Left: 'ArrowLeft',
  Up: 'ArrowUp',
  Right: 'ArrowRight',
  Down: 'ArrowDown',
  Del: 'Delete',
  Win: 'OS',
  Menu: 'ContextMenu',
  Apps: 'ContextMenu',
  Scroll: 'ScrollLock',
  MozPrintableKey: 'Unidentified',
};

function getEventKey(nativeEvent) {
  if (nativeEvent.key) {
    // Normalize inconsistent values reported by browsers due to older
    // implementations of a working draft specification.

    // Firefox implements `key` but returns `MozPrintableKey` for all keys.
    var key = normalizeKey[nativeEvent.key] || nativeEvent.key;
    if (key !== 'Unidentified') {
      return key;
    }
  }

  // Browser does not implement `key`, polyfill as much of it as we can.
  if (nativeEvent.type === 'keypress') {
    var charCode = getEventCharCode(nativeEvent);
    return charCode === 13 ? 'Enter' : String.fromCharCode(charCode);
  }
  if (nativeEvent.type === 'keydown' || nativeEvent.type === 'keyup') {
    // While user keyboard layout determines the actual meaning of each key
    // `keyCode` value, almost all function keys have a universal value.
    return translateToKey[nativeEvent.keyCode] || 'Unidentified';
  }
  return ''
}

module.exports = getEventKey;
```

```javascript
'use strict';

function SyntheticDragEvent(dispatchConfig, dispatchMarker, nativeEvent, nativeEventTarget) {
  return SyntheticMouseEvent.call(this, dispatchConfig, dispatchMarker, nativeEvent, nativeEventTarget);
}

SyntheticMouseEvent.augmentClass(SyntheticDragEvent, DragEventInterface);

module.exports = SyntheticDragEvent;
```

```javascript
'use strict';

function SyntheticTouchEvent(dispatchConfig, dispatchMarker, nativeEvent, nativeEventTarget) {
  return SyntheticUIEvent.call(this, dispatchConfig, dispatchMarker, nativeEvent, nativeEventTarget);
}

SyntheticUIEvent.augmentClass(SyntheticTouchEvent, TouchEventInterface);

module.exports = SyntheticTouchEvent;
```

```javascript
'use strict';

function SyntheticEvent(dispatchConfig, dispatchMarker, nativeEvent, nativeEventTarget) {
  return SyntheticUIEvent.call(this, dispatchConfig, dispatchMarker, nativeEvent, nativeEventTarget);
}

SyntheticUIEvent.augmentClass(SyntheticEvent, EventInterface);

module.exports = SyntheticEvent;
```
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```javascript
var canReuseMarkup = function (markup, element) {
  var existingChecksum = element.getAttribute(ReactMarkupChecksum.CHECKSUM_ATTR_NAME);
  var markupChecksum = adler32(markup);
  return markupChecksum === existingChecksum;
};

module.exports = ReactMarkupChecksum;
```

```javascript
// Copyright (c) 2013-present, Facebook, Inc.

'use strict';

var MOD = 65521;

// adler32 is not cryptographically strong, and is only used to sanity check that markup generated on the server matches the markup generated on the client. This implementation (a modified version of the SheetJS version) has been optimized for our use case, at the expense of conforming to the adler32 specification for non-ascii inputs.

function adler32(data) {
  var a = 1;
  var b = 0;
  var i = 0;
  var l = data.length;
  var m = l & ~0x3;
  while (i < m) {
    var n = Math.min(i + 4096, m);
    for (; i < n; i += 4) {
      a += data.charCodeAt(i);
      b += a;
    }
    a %= MOD;
    b %= MOD;
  }
  for (; i < l; i++) {
    b += a += data.charCodeAt(i);
  }
  a %= MOD;
  b %= MOD;
  return a | b << 16;
}

module.exports = adler32;
```

```javascript
// Copyright (c) 2013-present, Facebook, Inc.

'use strict';

module.exports = '15.6.2';
```

```javascript
// Copyright (c) 2013-present, Facebook, Inc.

'use strict';

var _prodInvariant = require('./reactProdInvariant');

var ReactCurrentOwner = require('react/lib/ReactCurrentOwner');
var ReactDOMComponentTree = require('./ReactDOMComponentTree');
var ReactInstanceMap = require('./ReactInstanceMap');

var getHostComponentFromComposite = require('./getHostComponentFromComposite');
var invariant = require('fbjs/lib/invariant');
var warning = require('fbjs/lib/warning');

function findDOMNode(componentOrElement) {
  if (process.env.NODE_ENV !== 'production') {
    var owner = ReactCurrentOwner.current;
    if (owner !== null) {
      process.env.NODE_ENV !== 'production' ? warning(owner._warnedAboutRefsInRender, '%s is accessing findDOMNode inside its render(). render() should be a pure function of props and state. It should never access something that requires stale data from the previous `+render`, such as refs. Move this logic to componentDidMount and `+componentDidUpdate` instead.', owner.getName() || 'A component') : void 0;
      owner._warnedAboutRefsInRender = true;
    }
  }
  if (componentOrElement == null) {
    return null;
  }
  if (componentOrElement.nodeType === 1) {
    return componentOrElement;
  }

  var inst = ReactInstanceMap.get(componentOrElement);
  if (inst) {
    inst = getHostComponentFromComposite(inst);
    return inst ? ReactDOMComponentTree.getNodeFromInstance(inst) : null;
  }

  if (typeof componentOrElement.render === 'function') {
    !false ? process.env.NODE_ENV !== 'production' ? invariant(false, 'findDOMNode was called on an unmounted component.') : _prodInvariant('44') : void 0;
  } else {
    !false ? process.env.NODE_ENV !== 'production' ? invariant(false, 'Element appears to be neither ReactComponent nor DOMNode (keys: %s)', Object.keys(componentOrElement)) : _prodInvariant('45') : void 0;
  }
}

module.exports = findDOMNode;
```

```javascript
// Copyright (c) 2013-present, Facebook, Inc.

'use strict';

exports.__esModule = true;
exports['default'] = undefined;

var _react = require('react');

var _propTypes = require('prop-types');

var _propTypes2 = _interopRequireDefault(_propTypes);

var _storeShape = require('../utils/storeShape');

var _storeShape2 = _interopRequireDefault(_storeShape);

var _warning = require('../utils/warning');

var _warning2 = _interopRequireDefault(_warning);

function _interopRequireDefault(obj) { return obj && obj.__esModule ? obj : { 'default': obj }; }

function _classCallCheck(instance, Constructor) { if (!(instance instanceof Constructor)) { throw new TypeError("Cannot create abstract instances of an abstract class"); }

var exports = require('./ReactMount');

module.exports = exports.renderSubtreeIntoContainer;
require('invariant');

function _interopRequireDefault(obj) { return obj && obj.__esModule ? obj : { default: obj }; }

function _classCallCheck(instance, Constructor) { if (!instance instanceof Constructor) { throw new TypeError("Cannot call a class as a function"); }

function _possibleConstructorReturn(self, call) { if (!self) { throw new ReferenceError("this hasn't been initialised - super() hasn't been called"); } return call && (typeof call === "object" || typeof call === "function") ? call : self; }

var _inherits = function (subClass, superClass) { if (typeof superClass !== "function" && superClass !== null) { throw new TypeError("Super expression must either be null or a function, not " + typeof superClass); } subClass.prototype = Object.create(superClass && superClass.prototype, { constructor: { value: superClass, enumerable: false, writable: true, configurable: true } }); if (superClass) Object.setPrototypeOf ? Object.setPrototypeOf(subClass, superClass) : subClass.__proto__ = superClass; }

var defaultMapStateToProps = function defaultMapStateToProps(state) { return {}; }

var defaultMapDispatchToProps = function defaultMapDispatchToProps(dispatch) { return { dispatch: dispatch };

var defaultMergeProps = function defaultMergeProps(stateProps, dispatchProps, parentProps) { return _extends({}, parentProps, stateProps, dispatchProps);

function getDisplayName(WrappedComponent) { return WrappedComponent.displayName || WrappedComponent.name || 'Component'; }
mappedStateToProps = mapState(store.getState(), props);
var isFactory = typeof mapStateToProps === 'function';
this.finalMapStateToProps = isFactory ? mapStateToProps : this.finalMapStateToProps;
this.doStatePropsDependOnOwnProps = this.finalMapStateToProps.length !== 1;
if (isFactory) {
  return this.computeStateToProps(store, props);
}
connect.prototype.computeDispatchProps = function computeDispatchProps(store, props) {
  if (!!this.finalMapDispatchToProps) {
    return this.finalMapDispatchToProps(dispatch);
  }
  var dispatch = store.dispatch;
  var dispatchProps = this.doDispatchToPropsDependOnOwnProps ? this.finalMapDispatchToProps(dispatch, props) : this.finalMapDispatchToProps(dispatch);
  if (process.env.NODE_ENV !== 'production') {
    checkStateShape(dispatchProps, 'mapStateToProps');
  }
  return mapStateToProps;
};
connect.prototype.updateStatePropsIfNeeded = function updateStatePropsIfNeeded() {
  var nextStateProps = this.computeStateProps(this.store, this.props);
  if (this.stateProps && (0, _shallowEqual2['default'])(nextStateProps, this.stateProps)) {
    return false;
  }
  this.stateProps = nextStateProps;
  return true;
};
connect.prototype.updateDispatchPropsIfNeeded = function updateDispatchPropsIfNeeded() {
  var nextDispatchProps = this.computeDispatchProps(this.store, this.props);
  if (this.dispatchProps && (0, _shallowEqual2['default'])(nextDispatchProps, this.dispatchProps)) {
    return false;
  }
  this.dispatchProps = nextDispatchProps;
  return true;
};
connect.prototype.updateMergedPropsIfNeeded = function updateMergedPropsIfNeeded() {
  var nextMergedProps = computeMergedProps(this.stateProps, this.dispatchProps, this.props);
  if (this.mergedProps && checkMergedEquals && (0, _shallowEqual2['default'])(nextMergedProps, this.mergedProps)) {
    return false;
  }
  this.mergedProps = nextMergedProps;
  return true;
};
connect.prototype.isSubscribed = function isSubscribed() {
  return typeof this.unsubscribe === 'function';
};
connect.prototype.trySubscribe = function trySubscribe() {
  if (shouldSubscribe && !this.unsubscribe) {
    this.unsubscribe = this.store.subscribe(this.handleChange.bind(this));
    this.handleChange();
  }
};
connect.prototype.tryUnsubscribe = function tryUnsubscribe() {
  if (this.unsubscribe) {
    this.unsubscribe();
    this.unsubscribe = null;
  }
};
connect.prototype.handleChange = function handleChange() {
  if (!this.unsubscribe) {
    return;
  }
  var storeState = this.store.getState();
  var prevStoreState = this.prevStoreState;
  if (pure && prevStoreState === storeState) {
    return;
  }
  if (pure && !this.doStatePropsDependOnOwnProps) {
    var haveStatePropsChanged = tryCatch(this.updateStatePropsIfNeeded, this);
    if (!haveStatePropsChanged) {
      return;
    }
    if (haveStatePropsChanged === errorObject) {
      this.statePropsPrecalculationError = errorObject.value;
    }
  }
  this.prevStoreState = this.state.storeState;
  if (pure && prevStoreState === storeState) {
    return;
  }
  if (this.doStatePropsDependOnOwnProps) {
    var haveStatePropsChanged = tryCatch(this.updateStatePropsIfNeeded, this);
    if (!haveStatePropsChanged) {
      return;
    }
    if (haveStatePropsChanged === errorObject) {
      this.statePropsPrecalculationError = errorObject.value;
    }
  }
};
connect.prototype.updateMergedProps = function updateMergedProps(nextProps) {
  if (this.mergedProps && checkMergedEquals && (0, _shallowEqual2['default'])(nextProps, this.mergedProps)) {
    return;
  }
  this.mergedProps = nextProps;
  return true;
};
connect.prototype.updateDispatchProps = function updateDispatchProps(dispatch) {
  if (this.dispatchProps && (0, _shallowEqual2['default'])(dispatch, this.dispatchProps)) {
    return;
  }
  this.dispatchProps = dispatch;
  return true;
};
connect.prototype.updateStateProps = function updateStateProps(nextProps) {
  if (this.stateProps && (0, _shallowEqual2['default'])(nextProps, this.stateProps)) {
    return;
  }
  this.stateProps = nextProps;
  return true;
};
connect.prototype.updateMergedProps = function updateMergedProps(nextProps) {
  if (this.mergedProps && checkMergedEquals && (0, _shallowEqual2['default'])(nextProps, this.mergedProps)) {
    return;
  }
  this.mergedProps = nextProps;
  return true;
};
connect.prototype.updateDispatchProps = function updateDispatchProps(dispatch) {
  if (this.dispatchProps && (0, _shallowEqual2['default'])(dispatch, this.dispatchProps)) {
    return;
  }
  this.dispatchProps = dispatch;
  return true;
};
connect.prototype.updateStateProps = function updateStateProps(nextProps) {
  if (this.stateProps && (0, _shallowEqual2['default'])(nextProps, this.stateProps)) {
    return;
  }
  this.stateProps = nextProps;
  return true;
};
connect.prototype.updateMergedProps = function updateMergedProps(nextProps) {
  if (this.mergedProps && checkMergedEquals && (0, _shallowEqual2['default'])(nextProps, this.mergedProps)) {
    return;
  }
  this.mergedProps = nextProps;
  return true;
function getStatics(component) {
    if (ReactIs.isMemo(component)) {
        return MEMO_STATICS;
    }
    return TYPE_STATICS[component['$$typeof']] ||
    REACT_STATICS;
}

var defineProperty = Object.defineProperty;
var getOwnPropertyNames = Object.getOwnPropertyNames;
var getOwnPropertySymbols = Object.getOwnPropertySymbols;
var getOwnPropertyDescriptor = Object.getOwnPropertyDescriptor;
var getPrototypeOf = Object.getPrototypeOf;
var objectPrototype = Object.prototype;

function hoistNonReactStatics(targetComponent, sourceComponent, blacklist) {
    if (typeof sourceComponent !== 'string') {
        // don't hoist over string (html) components

        if (objectPrototype) {
            var inheritedComponent = getPrototypeOf(sourceComponent);
            if (inheritedComponent && inheritedComponent !==
            objectPrototype) {
                hoistNonReactStatics(targetComponent, inheritedComponent, blacklist);
            }

            var keys = getOwnPropertyNames(sourceComponent);

            if (getOwnPropertySymbols) {
                keys = keys.concat(getOwnPropertySymbols(sourceComponent));
            }

            var targetStatics = getStatics(targetComponent);
            var sourceStatics = getStatics(sourceComponent);

            for (var i = 0; i < keys.length; ++i) {
                var key = keys[i];
                if (!KNOWN_STATICS[key] && !(blacklist &&
                blacklist[key]) && !(sourceStatics && sourceStatics[key]) && !(targetStatics && targetStatics[key])) {
                    var descriptor = getOwnPropertyDescriptor(sourceComponent, key);
                    try {
                        defineProperty(targetComponent, key, descriptor);
                    } catch (e) {
                    }
            }
        }
        return targetComponent;
    }
    return targetComponent;
}

module.exports = hoistNonReactStatics;

/**
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 */

'use strict';

/**
 * Use invariant() to assert state which your program assumes to be true.
 *
 * Provide sprintf-style format (only %s is supported) and arguments to provide information about what broke and what you were expecting.
 *
 * The invariant message will be stripped in production, but the invariant will remain to ensure logic does not differ in production.
 */

var invariant = function(condition, format, a, b, c, d, e, f) {
  if (process.env.NODE_ENV !== 'production') {
    if (format === undefined) {
      throw new Error('invariant requires an error message argument');
    }

    if (!condition) {
      var error;
      if (format === undefined) {
        error = new Error(
            'Minified exception occurred; use the non-minified dev environment ' +
            'for the full error message and additional helpful warnings.'
        );
      } else {
        var args = [a, b, c, d, e, f];
        var argIndex = 0;
        error = new Error(
            format.replace(/%s/g, function() { return args[argIndex++]; })
        );
        error.name = 'Invariant Violation';
      }

      error.framesToPop = 1; // we don't care about invariant's own frame
      return error;
    }

    return targetComponent;
}


The base implementation of `_clone` and `_cloneDeep` which tracks `\n` traversed objects.

```javascript
var cloneableTags = {
  argsTag: false,
  arrayBufferTag: true,
  arrayTag: true,
  bufferTag: true,
  DataViewTag: false,
  dataViewTag: false,
  dateTag: true,
  dataTag: true,
  float32Tag: true,
  float64Tag: true,
  int8Tag: true,
  int16Tag: true,
  int32Tag: true,
  mapTag: true,
  mapTag: true,
  numberTag: true,
  objectTag: true,
  objectTag: true,
  regexpTag: true,
  regexpTag: true,
  setTag: true,
  setTag: true,
  symbolTag: true,
  symbolTag: true,
  uint8Tag: true,
  uint8ClampedTag: true,
  uint16Tag: true,
  uint32Tag: true
};

/**
 * The base implementation of `_.clone` and `_.cloneDeep` which tracks
 * traversed objects.
 *
 * @private
 * @param {*} value The value to clone.
 * @param {boolean} bitmask The bitmask flags.
 *  1 - Deep clone\n  2 - Flatten inherited properties\n  4 - Clone symbols
 * @param {Function} [customizer] The function to customize
 * @param {string} [key] The key of `value`.
 * @param {Object} [parent] The parent object of `value`.
 * @returns {*} Returns the cloned value.
 */
function baseClone(value, bitmask, customizer, key, parent) {
  var result,
      isDeep = bitmask & CLONE_DEEP_FLAG,
      isFlat = bitmask & CLONE_FLAT_FLAG,
      isFull = bitmask & CLONE_SYMBOLS_FLAG;

  if (customizer) {
    result = parent ? customizer(value, key, parent, stack) : customizer(value);
  }
  if (result !== undefined) {
    return result;
  }
  if (!isObject(value)) {
    return value;
  }
  var isArr = isArray(value);

  if (isArr) {
    result = initCloneArray(value);
    if (!isDeep) {
      return copyArray(value, result);
    }
  } else {
    var tag = getTag(value),
        isFunc = tag == funcTag || tag == genTag;

    if (isBuffer(value)) {
      return cloneBuffer(value, isDeep);
    }
    if (tag == objectTag || tag == argsTag || (isFunc && !object)) {
      result = (isFlat || isFunc) ? {} : initCloneObject(value);
      if (!isDeep) {
        return isFlat
          ? copySymbolsIn(value, baseAssignIn(result, value))
          : copySymbols(value, baseAssign(result, value));
      }
    } else {
      if (!cloneableTags[tag]) {
        return parent ? value : {};
      }
      result = initCloneByTag(value, tag, isDeep);
    }
  }
  // Check for circular references and return its
corresponding clone.

  // Recursively populate clone (susceptible
to call stack limits).

  return result;
}

module.exports = baseClone;
```

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dataViewTag = '[object DataView]',
float32Tag = '[object Float32Array]',
float64Tag = '[object Float64Array]',
int8Tag = '[object Int8Array]',
int16Tag = '[object Int16Array]',
int32Tag = '[object Int32Array]',
uint8Tag = '[object Uint8Array]',
uint8ClampedTag = '[object Uint8ClampedArray]',
uint16Tag = '[object Uint16Array]',
uint32Tag = '[object Uint32Array]',
/**
 * Initializes an object clone based on its `toStringTag`.
 * *
 * @param {string} tag The `toStringTag` of the object to clone.
 * @param {Object} object The object to clone.
 * @returns {Object} Returns the initialized cloned object.
 */
function initCloneByTag(object, tag, isDeep) {
  var Ctor = object.constructor;
  switch (tag) {
    case arrayBufferTag:
      return cloneArrayBuffer(object);

    case boolTag:
    case dateTag:
      return new Ctor(+object);

    case DataViewTag:
      return cloneDataView(object, isDeep);

    case float32Tag: case float64Tag:
    case int8Tag: case int16Tag: case int32Tag:
    case uint8Tag: case uint8ClampedTag: case uint16Tag: case uint32Tag:
      return cloneTypedArray(object, isDeep);

    case mapTag:
      return new Ctor;

    case numberTag:
    case stringTag:
      return new Ctor(object);

    case regexpTag:
      return cloneRegExp(object);

    case SetTag:
      return new Ctor;

    case symbolTag:
      return cloneSymbol(object);
  }
}

module.exports = initCloneByTag;

var cloneArrayBuffer = require('./_cloneArrayBuffer');

/**
 * Creates a clone of `dataView`.
 *
 * @param {Object} dataView The data view to clone.
 * @param {boolean} [isDeep] Specify a deep clone.
 * @returns {Object} Returns the cloned data view.
 */
function cloneDataView(dataView, isDeep) {
  var buffer = isDeep ? cloneArrayBuffer(dataView.buffer) : dataView.buffer;
  return new dataView.constructor(buffer, dataView.byteOffset, dataView.byteLength);
}

/**
 * Creates a clone of `regexp`.
 *
 * @param {Object} regexp The regexp to clone.
 * @returns {Object} Returns the cloned regexp.
 */
function cloneRegExp(regexp) {
  var result = new regexp.constructor(regexp.source, reFlags.exec(regexp));
  result.lastIndex = regexp.lastIndex;
  return result;
}

module.exports = cloneRegExp;

var Symbol = require('./_Symbol');

/**
 * Creates a clone of the `symbol` object.
 *
 * @param {Object} symbol The symbol object to clone.
 * @returns {Object} Returns the cloned symbol object.
 */
function cloneSymbol(symbol) {
  return symbolValueOf ? Object(symbolValueOf.call(symbol)) : {};
}

module.exports = cloneSymbol;

var cloneArrayBuffer = require('./_cloneArrayBuffer');

/**
 * Creates a clone of `typedArray`.
 *
 * @param {Object} typedArray The typed array to clone.
 * @param {boolean} [isDeep] Specify a deep clone.
 * @returns {Object} Returns the cloned typed array.
 */
function cloneTypedArray(typedArray, isDeep) {
  var buffer = isDeep ? cloneArrayBuffer(typedArray.buffer) : typedArray.buffer;
  return new typedArray.constructor(buffer, typedArray.byteOffset, typedArray.length);
}

var baseCreate = (function() {
  function object() {}
  return function(proto) {
    if (!isObject(proto)) {
      return {};
    }
    if (objectCreate) {
      return objectCreate(proto);
    }
    object.prototype = proto;
    var object = new object;
    object.prototype = undefined;
    return object;
  };
}());

module.exports = baseCreate;

var baseIsMap = require('./_baseIsMap'),
    baseUnary = require('./_baseUnary'),
    nodeUtil = require('./_nodeUtil');

/* Node.js helper references. */
var nodeIsMap = nodeUtil && nodeUtil.isMap;

/**
 * The base implementation of `_.create` without support for assigning
 * properties to the created object.
 *
 * @private
 * @param {Object} object The object to inherit from.
 * @returns {Object} Returns the new object.
 */
function cloneObject(object) {
  var baseCreate = (function() {
    function object() {} return function() {
      if (isObject(object)) {
        return (object);
      } else if (objectCreate) {
        return objectCreate(object);
      } else {
        var result = new object;
        object.prototype = proto;
        proto = null;
        return result;
      }
    };
  }());
  return baseCreate(object);
}

module.exports = cloneObject;
* @param {number} depth The maximum recursion depth.
* @param {boolean} [isStrict] Restricts to values that pass ‘predicate’ checks.
* @param {Array} [result=[]] The initial result value.
* @returns {Array} Returns the new flattened array.

//function baseFlatten(array, depth, predicate, isStrict, result) {
  // ... implementation...
  // returns flattened array
//}

module.exports = baseFlatten;

var Symbol = require('./_Symbol'),
    isArguments = require('./isArguments'),
    isArray = require('./isArray');

/** Built-in value references. */
var spreadableSymbol = Symbol ? Symbol.isConcatSpreadable : undefined;

/**
 * Checks if `value` is a flattenable `arguments` object or array.
 * @param {*} value The value to check.
 * @returns {boolean} Returns `true` if `value` is flattenable, else `false`.
 */
function isFlattenable(value) {
  return isArray(value) || isArguments(value) || !!(spreadableSymbol && value && value[spreadableSymbol]);
}

module.exports = isFlattenable;

var apply = require('./_apply');

/* Built-in method references for those with the same name as other 'lodash' methods. */
var nativeMax = Math.max;

/**
 * A faster alternative to `Function#apply`, this function invokes `func` with the 'this' binding of 'thisArg' and the arguments of 'args'.
 * @param {Function} func The function to apply.
 * @param {*} thisArg The `this` binding of `func`.
 * @param {Array} args The arguments to invoke `func` with.
 * @returns {*} Returns the result of `func`.
 */
function apply(func, thisArg, args) {
  switch (args.length) {
    case 0: return func.call(thisArg);
    case 1: return func.call(thisArg, args[0]);
    case 2: return func.call(thisArg, args[0], args[1]);
    case 3: return func.call(thisArg, args[0], args[1], args[2]);
  }
  return func.apply(thisArg, args);
}

module.exports = apply;

var baseSetToString = require('./_baseSetToString'),
    shortOut = require('./_shortOut');

/**
 * Sets the `toString` method of `func` to return `string`.
 * @param {Function} func The function to modify.
 * @param {*} string The `toString` result.
 * @returns {Function} Returns `func`.
 */
var setToString = shortOut(baseSetToString);

module.exports = setToString;

var constant = require('./constant'),
    defineProperty = require('./_defineProperty'),
    identity = require('./identity');

/**
 * Creates a function
 * @static
 * @memberOf _
 * @since 2.4.0
 * @category Util
 * @param {*} value The value to return from the new function.
 * @returns {Function} Returns the new constant function.
 * @example
 *
 * var objects = _.times(2, _.constant({ 'a': 1 }));
 *
 * console.log(objects);
 * // => 
 * [ { 'a': 1 }, { 'a': 1 } ]
 *
 * console.log(objects[0] === objects[1]);
 * // => true
 */
function constant(value) {
  return function() {
    return value;
  };
}

module.exports = constant;
that'll short out and invoke 'identity' instead of 'func' when it's called 'HOT_COUNT' or more times in 'HOT_SPAN'.

```javascript
function shortOut(func) {
  var count = 0,
  lastCalled = 0;

  return function() {
    var stamp = nativeNow(),
    remaining = HOT_SPAN - (stamp - lastCalled);

    lastCalled = stamp;
    if (remaining > 0) {
      if (++count >= HOT_COUNT) {
        return arguments[0];
      }
    } else {
      count = 0;
    }
    return func.apply(undef, arguments);
  }
}
```

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```javascript
(i = 0; i < parts.length; ++i) {
    if (i === skipIndex) {
        continue;
    }
    var part = parts[i];
    skipIndex = i;
    i = parts.length; // The eslint settings do not allow break;
}

for (i = 0; i < parts.length; ++i) {
    if (parts[i] === isoSentinel) {
        charset = 'iso-8859-1';
    }
    else if (parts[i] === charsetSentinel) {
        charset = 'utf8=%E2%9C%93';
    }
    else if (parts[i].indexOf('utf8=') === 0) {
        if (typeof options.charset === 'string') {
            if (options.charset.length > 1) {
                prefix += escapeString(options.charset[1]);
            }
            var chars = options.charset.slice(2).
            for (var j = 0; j < chars.length; ++j) {
                prefix += '\u' + chars[j].charCodeAt(0).toString(16);
            }
            prefix += options.charset[chars.length];
        }
        else {
            prefix += encodeURIComponent(escapeString(options.charset));
        }
    }
    else if (typeof options.charset === 'function') {
        prefix += options.charset(escapeString(options.charset));
    }
    else if (typeof options.charset === 'object') {
        if (options.charset && options.charset.utf8) {
            prefix += '\u' + options.charset.utf8;
        }
        else if (options.charset && options.charset.utf8 && options.charset.escaped) {
            prefix += '\u' + options.charset.utf8.escaped;
        }
        else if (options.charset && options.charset.escaped) {
            prefix += '\u' + options.charset.escaped;
        }
        else if (options.charset && options.charset.utf8) {
            prefix += '\u' + options.charset.utf8;
        }
        else {
            prefix += escapeString(options.charset);
        }
    }
    else {
        prefix += escapeString(options.charset);
    }
}
```

The code snippet provided is a part of JavaScript code that handles string encoding and decoding. It includes logic for handling different character encodings and ensuring that certain characters are represented correctly in the encoded string. The code uses functions like `escapeString`, `encodeURIComponent`, and `escapeString`, which are likely utility functions for escaping and encoding strings to ensure proper representation in various contexts. The snippet is part of a larger application that deals with encoding and decoding strings, possibly for URLs or other text-based data representations. The code is part of a larger module or library, indicated by the context of the code and the use of `require('./utils');`. This suggests that the code is integrated into a project where modularization is important, and utilities like `escapeString` and `encodeURIComponent` are provided elsewhere in the codebase. The `escapeString` function appears to handle specific cases of encoding, such as UTF-8 checkmarks and other entities, ensuring that the characters are properly represented in the output string. The code snippet also includes logic to handle different encoding modes and to ensure that the output string is properly constructed, possibly for serialization or transmission over a network. The code is part of a larger system that deals with manipulating and transforming strings to meet specific requirements, possibly for compatibility with different standards or protocols. The presence of comments and inline code likely indicates that the code is part of a larger context, possibly a software project that involves network communication or data serialization.
var bracketEqualsPos = part.indexOf(']=');

var pos = bracketEqualsPos == -1 ? part.indexOf('"') :
  bracketEqualsPos + 1;

var key, val;

if (pos == -1) {
  key = options.decoder(part,
    defaults.decoder, charset, 'key');

  val = options.strictNullHandling ? null : ";
} else {
  key = options.decoder(part.slice(0, pos), defaults.decoder, charset, 'key');

  val = utils.maybeMap(part.slice(pos + 1), options.decoder(encodeVal, defaults.decoder, charset, 'value'));
}

function (encodedVal) {
  return options.decoder(encodeVal, defaults.decoder, charset, 'value');
}

var parseObject = function (key, val, options, valuesParsed) {

  if (!givenKey) {
    return;
  }

  var parent = key.charAt(0) === '[' &&
    root.charAt(root.length - 1) === ']' ? root.slice(1, -1) : root;

  var index = parseInt(cleanRoot, 10);

  if (!isNaN(index) && root.charAt(root.length - 1) === ']' && options.parseArrays) {
    obj = { 0: leaf };
  } else if (!options.plainObjects && cleanRoot === '') {
    obj = { 0: leaf };
  } else if (index >= 0)
    && (options.parseArrays && index <= options.arrayLimit) {
    obj = [leaf];
  } else {
    obj[cleanRoot] = leaf;
  }

  leaf = obj;
};

var parseArrayValue = function (val, options) {
  var isArray = Array.isArray(val);

  if (!isArray) {
    return;
  }

  var key, val;
  if (pos === -1) {
    key = options.decoder(part,
      defaults.decoder, charset, 'key');

    val = options.strictNullHandling ? null : ";
  } else {
    key = part.slice(pos + 1);

    val = options.decoder(part.slice(pos + 1), defaults.decoder, charset, 'value');
  }

  if (val && !isNaN(index)) {
    var cleanRoot = root.charAt(0) === '[' &&
      root.charAt(root.length - 1) === ']' ? root.slice(1, -1) : root;

    var index = parseInt(cleanRoot, 10);

    if (obj[key] instanceof Array) {
      obj[key].push(val);
    } else {
      obj[key] = val;
    }
  }
};

var parseArray = function (givenKey, val, options) {

  if (!givenKey) {
    return;
  }

  var parent = key.charAt(0) === '[' &&
    root.charAt(root.length - 1) === ']' ? root.slice(1, -1) : root;

  var index = parseInt(cleanRoot, 10);

  if (!isNaN(index) && root.charAt(root.length - 1) === ']' && options.parseArrays) {
    obj = [leaf];
  } else if (!options.plainObjects && cleanRoot === '') {
    obj = { 0: leaf };
  } else if (index >= 0)
    && (options.parseArrays && index <= options.arrayLimit) {
    obj = [leaf];
  } else {
    obj[cleanRoot] = leaf;
  }

  leaf = obj;
"}
opts.parameterLimit : defaults.parameterLimit
parseArrays: opts.parseArrays !== false
plainObjects: typeof opts.plainObjects === 'boolean' ? opts.plainObjects : defaults.plainObjects
strictNullHandling: typeof opts.strictNullHandling === 'boolean' ? opts.strictNullHandling : defaults.strictNullHandling

module.exports = function (str, opts) {
    var options = normalizeParseOptions(opts);

    if (str === '' ||
        str === null || typeof str === 'undefined') {
        return options.plainObjects ? Object.create(null) : {};
    }

    var tempObj = typeof str === 'string' ? parseValues(str, options) : str;
    var obj = options.plainObjects ? Object.create(null) : {};

    // Iterate over the keys and setup the new object
    for (var i = 0; i < keys.length; ++i) {
        var key = keys[i];
        var newObj = parseKeys(key, tempObj[key], options, typeof str === 'string');
        obj = utils.merge(obj, newObj, options);
    }

    return utils.compact(obj);
};

var basePickBy = require('./_basePickBy'),
    hasIn = require('./hasIn');

/**
 * The base implementation of `_.pick` without support for individual
 * property identifiers.
 *
 * @private
 * @param {Object} object The source object.
 * @param {string[]} paths The property paths to pick.
 * @returns {Object} Returns the new object.
 */
function basePick(object, paths) {
  return basePickBy(object, paths, function(value, path) {
    return hasIn(object, path);
  });
}

module.exports = basePick;

var baseGet = require('./_baseGet'),
    baseSet = require('./_baseSet'),
    castPath = require('./_castPath');

/**
 * The base implementation of `_.pickBy` without support for iteratee shorthands.
 *
 * @private
 * @param {Object} object The source object.
 * @param {string[]} paths The property paths the object the `Function` object
 * The source object.
 * @param {Function} predicate Predicate function.
 * @returns {Object} Returns the new object.
 */
function basePickBy(object, paths, predicate) {
  var index = -1,
      length = paths.length,
      result = {};

  while (++index < length) {
    var path = paths[index],
        value = baseGet(object, path);

    if (predicate(value, path)) {
      baseSet(result, castPath(path, object), value);
    }
  }
  return result;
}

module.exports = basePickBy;

var Symbol = require('./_Symbol');

/** Used for built-in method references. */
var objectProto = Object.prototype;

/** Used to resolve the 
 * 
 * @private
 * @param {*} value The value to convert.
 * @returns {string} Returns the converted string.
 */
function objectToString(value) {
  return nativeObjectToString.call(value);
}

module.exports = objectToString;

var memoizeCapped = require('./_memoizeCapped');

/** Used as the maximum memoize cache size. */
var MAX_MEMOIZE_SIZE = 500;

/** Used as the maximum memoize cache size. */
var MAX_MEMOIZE_SIZE = 500;
`_.memoize` which clears the memoized function's\n * cache when it exceeds `MAX_MEMOIZE_SIZE`.\n *\n *
@private\n * @param {Function} func The function to have its output memoized.\n * @returns {Function} Returns
the new memoized function.\n */\nfunction memoizeCapped(func) {\n var result = memoize(func, function(key) {\n
if (cache.size === MAX_MEMOIZE_SIZE) {\n
cache.clear();\n }\n return key;\n });\n\n var cache =
result.cache;\n return result;\n}\n\nmodule.exports = memoizeCapped;\n","var MapCache =
require('./_MapCache');\n\n/** Error message constants. */\nvar FUNC_ERROR_TEXT = 'Expected a
function';\n\n/**\n * Creates a function that memoizes the result of `func`. If `resolver` is\n * provided, it determines
the cache key for storing the result based on the\n * arguments provided to the memoized function. By default, the
first argument\n * provided to the memoized function is used as the map cache key. The `func`\n * is invoked with
the `this` binding of the memoized function.\n *\n * **Note:** The cache is exposed as the `cache` property on the
memoized\n * function. Its creation may be customized by replacing the `_.memoize.Cache`\n * constructor with
one whose instances implement the\n * [`Map`](http://ecma-international.org/ecma-262/7.0/#sec-properties-of-themap-prototype-object)\n * method interface of `clear`, `delete`, `get`, `has`, and `set`.\n *\n * @static\n *
@memberOf _\n * @since 0.1.0\n * @category Function\n * @param {Function} func The function to have its
output memoized.\n * @param {Function} [resolver] The function to resolve the cache key.\n * @returns
{Function} Returns the new memoized function.\n * @example\n *\n * var object = { 'a': 1, 'b': 2 };\n * var other =
{ 'c': 3, 'd': 4 };\n *\n * var values = _.memoize(_.values);\n * values(object);\n * // => [1, 2]\n *\n * values(other);\n
* // => [3, 4]\n *\n * object.a = 2;\n * values(object);\n * // => [1, 2]\n *\n * // Modify the result cache.\n *
values.cache.set(object, ['a', 'b']);\n * values(object);\n * // => ['a', 'b']\n *\n * // Replace `_.memoize.Cache`.\n *
_.memoize.Cache = WeakMap;\n */\nfunction memoize(func, resolver) {\n if (typeof func != 'function' || (resolver
!= null && typeof resolver != 'function')) {\n throw new TypeError(FUNC_ERROR_TEXT);\n }\n var
memoized = function() {\n var args = arguments,\n
key = resolver ? resolver.apply(this, args) : args[0],\n
cache = memoized.cache;\n\n if (cache.has(key)) {\n
return cache.get(key);\n }\n var result =
func.apply(this, args);\n memoized.cache = cache.set(key, result) || cache;\n return result;\n };\n
memoized.cache = new (memoize.Cache || MapCache);\n return memoized;\n}\n\n// Expose
`MapCache`.\nmemoize.Cache = MapCache;\n\nmodule.exports = memoize;\n","var Hash = require('./_Hash'),\n
ListCache = require('./_ListCache'),\n Map = require('./_Map');\n\n/**\n * Removes all key-value entries from the
map.\n *\n * @private\n * @name clear\n * @memberOf MapCache\n */\nfunction mapCacheClear() {\n this.size
= 0;\n this.__data__ = {\n 'hash': new Hash,\n 'map': new (Map || ListCache),\n 'string': new Hash\n
};\n}\n\nmodule.exports = mapCacheClear;\n","var hashClear = require('./_hashClear'),\n hashDelete =
require('./_hashDelete'),\n hashGet = require('./_hashGet'),\n hashHas = require('./_hashHas'),\n hashSet =
require('./_hashSet');\n\n/**\n * Creates a hash object.\n *\n * @private\n * @constructor\n * @param {Array}
[entries] The key-value pairs to cache.\n */\nfunction Hash(entries) {\n var index = -1,\n
length = entries == null
? 0 : entries.length;\n\n this.clear();\n while (++index < length) {\n var entry = entries[index];\n
this.set(entry[0], entry[1]);\n }\n}\n\n// Add methods to `Hash`.\nHash.prototype.clear =
hashClear;\nHash.prototype['delete'] = hashDelete;\nHash.prototype.get = hashGet;\nHash.prototype.has =
hashHas;\nHash.prototype.set = hashSet;\n\nmodule.exports = Hash;\n","var nativeCreate =
require('./_nativeCreate');\n\n/**\n * Removes all key-value entries from the hash.\n *\n * @private\n * @name
clear\n * @memberOf Hash\n */\nfunction hashClear() {\n this.__data__ = nativeCreate ? nativeCreate(null) : {};\n
this.size = 0;\n}\n\nmodule.exports = hashClear;\n","var isFunction = require('./isFunction'),\n isMasked =
require('./_isMasked'),\n isObject = require('./isObject'),\n toSource = require('./_toSource');\n\n/**\n * Used to
match `RegExp`\n * [syntax characters](http://ecma-international.org/ecma-262/7.0/#sec-patterns).\n */\nvar
reRegExpChar = /[\\\\^$.*+?()[\\]{}|]/g;\n\n/** Used to detect host constructors (Safari). */\nvar reIsHostCtor =
/^\\[object .+?Constructor\\]$/;\n\n/** Used for built-in method references. */\nvar funcProto =
Function.prototype,\n objectProto = Object.prototype;\n\n/** Used to resolve the decompiled source of functions.
*/\nvar funcToString = funcProto.toString;\n\n/** Used to check objects for own properties. */\nvar
hasOwnProperty = objectProto.hasOwnProperty;\n\n/** Used to detect if a method is native. */\nvar reIsNative =
RegExp('^' +\n funcToString.call(hasOwnProperty).replace(reRegExpChar, '\\\\$&')\n

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```javascript
'func' with.

@returns {*} Returns the result of `func`. 

@function apply 

* @param {Function} func The function to modify.
* @param {Function} string The `toString` result.
* @returns {Function} Returns `func`.

var baseToString = !defineProperty ? identity : function(func, string) {
  return defineProperty(func, 'toString', {
    'configurable': true,
    'enumerable': false,
    'value': constant(string),
    'writable': true
  });

module.exports = baseToString;

/**
* The base implementation of `SetToString` without support for hot loop shortening.
*
* @private
* @param {Function} func The function to modify.
* @param {Function} string The `toString` result.
* @returns {Function} Returns `func`.
*/
function apply(func, thisArg, args) {
  switch
```
```
getMatchData = require('./_getMatchData'),
matchesStrictComparable =
require('./_matchesStrictComparable');

/**
 * The base implementation of `_.matches` without support for iteratee shorthands. 
 * @private
 * @param {Function} getMatchData The properties names, values, and compare flags to match.
 * @returns {Function} Returns the new spec function.
 */
function baseMatches(source) {
  var Stack =
require('./_Stack'),
  baseIsEqual = require('./_baseIsEqual');

  /** Used as the size to enable large array optimizations. */
  var LARGE_ARRAY_SIZE = 200;

  /**
   * Returns the stack `key` value.
   */
  function stackGet(key) {
    return this.__data__.get(key);
  }

  module.exports = stackGet;
}
```

```
var Stack = require('./_Stack'),
equalArrays = require('./_equalArrays'),
equalByTag = require('./_equalByTag'),
equalObjects = require('./_equalObjects'),
getTag = require('./_getTag'),
isArray = require('./isArray'),
isBuffer = require('./isBuffer'),
isTypedArray = require('./isTypedArray');
```

```
getMatchData = require('./_getMatchData'),
matchesStrictComparable =
require('./_matchesStrictComparable');
```
COMPARE_PARTIAL_FLAG = 1;
COMPARE_UNORDERED_FLAG = 2;

var boolTag = '[object Boolean]',
dateTag = '[object Date]',
errorTag = '[object Error]',
mapTag = '[object Map]',
numberTag = '[object Number]',
regexpTag = '[object RegExp]',
setTag = '[object Set]',
stringTag = '[object String]',
symbolTag = '[object Symbol]',

var arrayBufferTag = '[object ArrayBuffer]',
dataViewTag = '[object DataView]';

COMPARE_PARTIAL_FLAG = 1,
COMPARISON_UNORDERED_FLAG = 2;

/** `Object#toString` result references. */
var boolTag = '[object Boolean]',
dateTag = '[object Date]',
errorTag = '[object Error]',
mapTag = '[object Map]',
numberTag = '[object Number]',
regexpTag = '[object RegExp]',
setTag = '[object Set]',
stringTag = '[object String]',
symbolTag = '[object Symbol]',
arrayBufferTag = '[object ArrayBuffer]',
dataViewTag = '[object DataView]';
& COMPARE_PARTIAL_FLAG

objProps = getAllKeys(object);
objLength = objProps.length;

othProps = getAllKeys(other);
othLength = othProps.length;

if (objLength != othLength &
& isPartial) {
  return false;
}

var index = objLength;
while (index--) {
  var key = objProps[index];
  if (!isPartial &
  key in other : hasOwnProperty.call(other, key))) {
    return false;
  }

  // Assume cyclic values are equal.
  var stacked = stack.get(object);
  if (stacked &
  & stack.get(other)) {
    return false;
  }

  // Recursively compare objects (susceptible to
call stack limits).
  if (!isPartial &
  result = false;
}

skipCtor || (skipCtor = key == 'constructor');

var objCtor = object.constructor;

othCtor = other.constructor;

// Non 'Object' object instances with different constructors are not equal.

if (objCtor != othCtor &
  'constructor' in object &
  'constructor' in other) &
& (typeof objCtor ==
'function' &
& objCtor instanceof objCtor &
& othCtor instanceof othCtor)) {
  return false;
}

stack['delete'](object);
stack['delete'](other);
return true;
}

module.exports = equalObjects;

/**
 * A specialized version of `_.filter` for arrays without
 * iteratee shorthands.
 *
 * @private
 * @param {Array} [array] The array to iterate over.
 * @param {Function} predicate The function invoked per iteration.
 * @returns {Array} Returns the new filtered
 * array.
 */
function arrayFilter(array, predicate) {
  var index = -1,
  length = array == null ? 0 : array.length,
  result = [];

  while (++index < length) {
    var value = array[index];
    if (predicate(value, index, array)) {
      result[result.length] = value;
    }
  }
  return result;
}

module.exports = arrayFilter;

/**
 * This method
 * returns `false`.
 *
 * @static
 * @memberOf _
 * @since 4.13.0
 * @category Util
 * @returns {boolean}
 * @example
 *
 * _.times(2, _.stubFalse);
 * // => [false, false]
 */
function stubFalse() {
  return false;
}

module.exports = stubFalse;

var baseGetTag = require('./_baseGetTag'),
  isLength = require('./isLength'),
  isObjectLike = require('./isObjectLike');

/** `Object#toString` result references. */
var argsTag = '[object Arguments]',
arrayTag = '[object Array]',
boolTag = '[object Boolean]',
dateTag = '[object Date]',
errorTag = '[object Error]',
funcTag = '[object Function]',
mapTag = '[object Map]',
numberTag = '[object Number]',
objectTag = '[object Object]',
regexpTag = '[object RegExp]',
setTag = '[object Set]',
stringTag = '[object String]',
weakMapTag = '[object WeakMap]',

var arrayBufferTag = '[object ArrayBuffer]',
dataViewTag = '[object DataView]',
float32Tag = '[object Float32Array]',
float64Tag = '[object Float64Array]',
int8Tag = '[object Int8Array]',
int16Tag = '[object Int16Array]',
int32Tag = '[object Int32Array]',
uint8Tag = '[object Uint8Array]',
uint8ClampedTag = '[object Uint8ClampedArray]',
uint16Tag = '[object Uint16Array]',
uint32Tag = '[object Uint32Array]';

/**
 * The base implementation of

// Open Source Used In Cisco Modeling Labs 2.2 4227
`_.isTypedArray` without Node.js optimizations.

```javascript
var isPrototype = Object.prototype;

var overArg = require('./_overArg');

/* Built-in method references that are verified to be native. */
var DataView = getNative(root, 'DataView');

module.exports = DataView;

var getNative = require('./_getNative'),
    root = require('./_root');

/* Built-in method references that are verified to be native. */
var Promise = getNative(root, 'Promise');

module.exports = Promise;

var getNative = require('./_getNative'),
    root = require('./_root');

/* Built-in method references that are verified to be native. */
var Set = getNative(root, 'Set');

module.exports = Set;

var getNative = require('./_getNative'),
    root = require('./_root');

/* Built-in method references that are verified to be native. */
var WeakMap = getNative(root, 'WeakMap');

module.exports = WeakMap;

var isStrictComparable = require('./_isStrictComparable'),
    keys = require('./keys');

/**
 * Gets the property names, values, and compare flags of `object`.
 *
 * @private
 * @param {Object} object The object to query.
 * @returns {Array} Returns the match data of `object`.
 */
function getMatchData(object) {
  var result = keys(object), length = result.length;

  while (length--) {
    var key = result[length], value = object[key];

    result[length] = [key, value, isStrictComparable(value)];
  }
  return result;
}

module.exports = getMatchData;

var baseIsEqual = require('./_baseIsEqual'),
    get = require('./get'),
    hasIn = require('./hasIn'),
    isKey = require('./_isKey'),
    isKey = require('./_isStrictComparable'),
    matchesStrictComparable = require('./_matchesStrictComparable'),
    toKey = require('./_toKey');

/**
 * Creates a function that returns the value at `path` of a given object.
 *
 * @static
 * @memberOf _
 * @since 2.4.0
 * @category Util
 * @param {Array|string} path The path of the property to get.
 * @returns {Function} Returns the new accessor function.
 * @example
 *
 * var objects = [
  { 'a': { 'b': 2 } },
  { 'a': { 'b': 1 } }
 ];
 *
 * _.map(objects, function(object) {
 *   return object.a.b;
 * })
 * // => [2, 1]
 */
function property(path) {
  return isKey(path) ? baseProperty(toKey(path)) : basePropertyDeep(path);
}

module.exports = property;

var baseProperty = require('./_baseProperty'),
    basePropertyDeep = require('./_basePropertyDeep'),
    key = require('./_key'),
    toKey = require('./_toKey');

/**
 * A specialized version of `_.get` which performs deep path traversal
 * with optimizer flags set to `false`.
 *
 * @private
 * @param {Object} object The object to query.
 * @param {Array|string} path The path of the property to get.
 * @returns {*} Returns the desired value.
 */
function get(object, path, isDeep) {
  return isDeep ? basePropertyDeep(object, path) : baseProperty(object, path);
}

module.exports = get;

var nativeKeys = require('./_nativeKeys');

/**
 * The base implementation of `_.keys` which doesn't treat sparse arrays as
dense.
 *
 * @private
 * @param {Object} object The object to query.
 * @returns {Array} Returns the array of property names.
 */
function baseKeys(object) {
  if (!isPrototype(object)) {
    return nativeKeys(object);
  }
  var result = [];

  for (var key in Object(object)) {
    if (hasOwnProperty.call(object, key) && key != 'constructor') {
      result.push(key);
    }
  }
  return result;
}

module.exports = baseKeys;
```

---

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`baseProperty` which supports deep paths.

```javascript
function basePropertyDeep(path) {
  return function(object) {
    return baseGet(object, path);
  };
}

module.exports = basePropertyDeep;
```

```javascript
var baseFindIndex = require('./_baseFindIndex'),
    baseIteratee = require('./_baseIteratee'),
    toInteger = require('./toInteger');

/* Built-in method references for those with the same name as other 'lodash' methods. */

var nativeMax = Math.max;

/**
 * This method is like `_.findIndex` except that it returns the index of the first
 * element `predicate` returns truthy for instead of the element itself.
 * @private
 * @param {*} value The value to search for.
 * @param {Array} [array] The array to search.
 * @param {Function} [callback] The function invoked per iteration.
 * @param {Object} [object] The object to search lookup objects.
 * @returns {number} Returns the index of the found element, else `null`.
 */
function baseFindIndex(array, predicate, fromIndex, fromRight) {
  var length = array == null ? 0 : array.length,
      index = fromIndex + (fromRight ? 1 : -1);

  while ((fromRight ? index-- : ++index < length)) {
    if (predicate(array[index], index, array)) {
      return index;
    }
  }
  return -1;
}

module.exports = baseFindIndex;
```

```javascript
var toNumber = require('./toNumber');

/**
 * Converts `value` to a finite number.
 * @static
 * @memberOf _
 * @since 4.0.0
 * @category Lang
 * @param {*} value The value to process.
 * @returns {number} Returns the converted number.
 * @example
 * // Convert 0
 * _.toNumber(0); // => 0
 * // Convert -0
 * _.toNumber(-0); // -0
 * // Convert Infinity
 * _.toNumber(NaN); // Number
 * // Convert -Infinity
 * _.toNumber(-Infinity); // Number
 * // Convert 0.001
 * _.toNumber('0.001'); // 0.001
 */
function toNumber(value) {
  if (typeof value == 'number') {
    return value;
  }
  if (isSymbol(value)) {
    return NaN;
  }
  if (isObject(value)) {
    var other = typeof value.valueOf == 'function' ? value.valueOf() : value;
    value = isObject(other) ? (other + '') : other;
  }
  if (typeof value != 'string') {
    return value === 0 ? value : +value;
  }
  value = value.replace(reTrim, '');
  var isBinary = reIsBinary.test(value);
  return (isBinary || reIsOctal.test(value))
    ? freeParseInt(value.slice(2), isBinary ? 2 : 8)
    : (reIsBadHex.test(value) ? NAN :
      toFinite(value));
}

module.exports = toNumber;
```
+value));
}

module.exports = toNumber;

''

\n
'use strict';

var isArray = Array.isArray;
var keyList = Object.keys;
var hasProp = Object.prototype.hasOwnProperty;

module.exports = function equal(a, b) {
  if (a === b) return true;

  if (a && b && typeof a == 'object' && typeof b == 'object') {
    var arrA = isArray(a);
    var arrB = isArray(b);
    var lengthA = a.length;
    var lengthB = b.length;
    var keyListA = keyList(a);
    var keyListB = keyList(b);
    if (lengthA != lengthB) return false;
    for (var i = lengthA; i-- !== 0;) {
      if (equal(a[i], b[i])) return false;
    }
    return true;
  }

  return a !== a && b !== b;
};

var Stack = require('./_Stack'),
    arrayEach = require('./_arrayEach'),
    assignValue = require('./_assignValue'),
    baseAssign = require('./_baseAssign'),
    baseAssignIn = require('./_baseAssignIn'),
    cloneBuffer = require('./_cloneBuffer'),
    copyArray = require('./_copyArray'),
    copySymbols = require('./_copySymbols'),
    copySymbolsIn = require('./_copySymbolsIn'),
    getAllKeys = require('./_getAllKeys'),
    getAllKeysIn = require('./_getAllKeysIn'),
    getTag = require('./_getTag'),
    initCloneArray = require('./_initCloneArray'),
    initCloneByTag = require('./_initCloneByTag'),
    initCloneObject = require('./_initCloneObject'),
    isArray = require('./isArray'),
    isBuffer = require('./isBuffer'),
    isMap = require('./isMap'),
    isObject = require('./isObject'),
    isSet = require('./isSet'),
    keys = require('./keys');

/** Used to compose bitmasks for cloning. */
var CLONE_DEEP_FLAG = 1,
    CLONE_FLAT_FLAG = 2,
    CLONE_SYMBOLS_FLAG = 4;

/** `Object#toString` result references. */
var argsTag = '[object Arguments]',
    arrayTag = '[object Array]',
    boolTag = '[object Boolean]',
    dateTag = '[object Date]',
    errorTag = '[object Error]',
    funcTag = '[object Function]',
    genTag = '[object GeneratorFunction]',
    mapTag = '[object Map]',
    numberTag = '[object Number]',
    objectTag = '[object Object]',
    regexpTag = '[object RegExp]',
    setTag = '[object Set]',
    stringTag = '[object String]',
    symbolTag = '[object Symbol]',
    weakMapTag = '[object WeakMap]';

var\
    arrayBufferTag = '[object ArrayBuffer]',
    dataViewTag = '[object DataView]',
    float32Tag = '[object Float32Array]',
    float64Tag = '[object Float64Array]',
    int8Tag = '[object Int8Array]',
    int16Tag = '[object Int16Array]',
    int32Tag = '[object Int32Array]',
    uint8Tag = '[object Uint8Array]',
    uint16Tag = '[object Uint16Array]',
    uint32Tag = '[object Uint32Array]';

\n
function baseClone(value, bitmask, customizer, key, object, stack) {
  var result,
      isDeep = bitmask & CLONE_DEEP_FLAG,
      isFlat = bitmask & CLONE_FLAT_FLAG,
      isFull = bitmask & CLONE_SYMBOLS_FLAG;

  if (customizer) {
    result = object ? customizer(value, key, object, stack) : customizer(value);
  }

  return result;
return copyArray(value, result);
    }
  } else {
    var tag = getTag(value),
        isFunc = tag == funcTag || tag == argsTag || (isFunc & & !object)) ||
        result = (isFlat || isFunc) ? [] : initCloneObject(value);
      if (isDeep)
        return isFlat ? copySymbolsIn(value, baseAssignIn(result, value)) : copySymbols(value,
          baseAssign(result, value));
    }
  }

  var tag = getTag(value),
      isFunc = tag == funcTag || tag == argsTag || (isFunc & & !object)) ||
      result = (isFlat || isFunc) ? [] : initCloneObject(value);
    if (isDeep)
      return isFlat ? copySymbolsIn(value, baseAssignIn(result, value)) : copySymbols(value,
        baseAssign(result, value));
  }

  // Check for circular references and return its corresponding clone.
  stack || (stack = new Stack);
  var stacked = stack.get(value);
  if (stacked) {
    return stacked;
  }
  stack.set(value, result);

  if (isSet(value)) {
    value.forEach(function(subValue) {
      result.add(baseClone(subValue, bitmask, customizer, subValue, value, stack));
    });
  } else if (isMap(value)) {
    value.forEach(function(subValue, key) {
      result.set(key, baseClone(subValue, bitmask, customizer, key, value, stack));
    });
  }

  var keysFunc = isFull
    ? (isFlat ? getAllKeysIn : getAllKeys)
    : (isFlat ? keysIn : keys);
  var props = isArr ? undefined : keysFunc(value);
  arrayEach(props || value, function(subValue, key) {
    if (props) {
      key = subValue;
      subValue = value[key];
    }
    // Recursively populate clone (susceptible to call stack limits).
    assignValue(result, key, baseClone(subValue, bitmask, customizer, key, value, stack));
  });

  return result;
}

module.exports = baseClone;

/**
 * A specialized version of `_.forEach` for arrays without support
 * for iteratee shorthands.
 *
 * @private
 * @param {Array} 
    array The array to iterate over.
 * @param {Function} iteratee The function invoked per iteration.
 * @returns {Array} Returns `array`.
 */
function arrayEach(array, iteratee) {
  var index = -1,
      length = array == null ? 0 : array.length;

  while (++index < length) {
    if (iteratee(array[index], index, array) === false) {
      break;
    }
  }
  return array;
}

module.exports = arrayEach;

var copyObject = require('./_copyObject'),
    keys = require('./keys');

/**
 * The base implementation of `_.assign` without support for multiple sources
 * or `customizer` functions.
 *
 * @private
 * @param {Object} object The destination object.
 * @param {Object} source The source object.
 * @returns {Object} Returns `object`.
 */
function baseAssign(object, source) {
  return object && copyObject(source, keys(source), object);
}

module.exports = baseAssign;

var copyObject = require('./_copyObject'),
    keysIn = require('./keysIn');

/**
 * The base implementation of `_.assignIn` without support for multiple sources
 * or `customizer` functions.
 *
 * @private
 * @param {Object} object The destination object.
 * @param {Object} source The source object.
 * @returns {Object} Returns `object`.
 */
function baseAssignIn(object, source) {
  return object && copyObject(source, keysIn(source), object);
}

module.exports = baseAssignIn;

var isObject = require('./isObject'),
    isPrototype = require('./_isPrototype'),
    nativeKeysIn = require('./_nativeKeysIn');

/** Used for built-in method references. */
var objectProto = Object.prototype;

/** Used to check objects for own properties. */
var hasOwnProperty = objectProto.hasOwnProperty;

/**
 * Creates a clone of `buffer`.
 *
 * @private
 * @param {Buffer} buffer The buffer to clone.
 * @param {boolean} [isDeep] Specify a deep clone.
 * @returns
 */
null
*/

function cloneBuffer(buffer, isDeep) {  
  if (isDeep) {  
    return 
    buffer.slice();  
  }  
  var length = buffer.length,  
      result = allocUnsafe ? allocUnsafe(length) : new 
    buffer.constructor(length);  
  buffer.copy(result);  
  return result;  
}

module.exports = cloneBuffer;

/*

Buffer Returns the cloned buffer.
*/

function cloneBuffer(source, array) {  
  var index = -1,  
      length = source.length,  
      array || (array = 
    new 
  buffer(source));  
  while (++index < length) {  
    array[index] = source[index];  
  }  
  return 
  array;  
}

module.exports = copyArray;

var copyObject = require('./_copyObject'),
    getSymbols = require('./_getSymbols');

/**
 * Copies own symbols of `source` to `object`.
 *
 * @private
 * @param {Object} source The object to copy symbols from.
 * @param {Object} [object={}] The object to copy symbols to.
 * @returns {Object} Returns the object.
 */

function copySymbols(source, object) {  
  return 
  copyObject(source, getSymbols(source), object);
}

module.exports = copySymbols;

var copyObject = require('./_copyObject'),
    getSymbolsIn = require('./_getSymbolsIn');

/**
 * Copies own and inherited symbols of `source` to `object`.
 *
 * @private
 * @param {Object} source The object to copy symbols from.
 * @param {Object} [object={}] The object to copy symbols to.
 * @returns {Object} Returns the object.
 */

function copySymbolsIn(source, object) {  
  return 
  copyObject(source, getSymbolsIn(source), object);
}

module.exports = copySymbolsIn;

var baseGetAllKeys = require('./_baseGetAllKeys'),
    getSymbolsIn = require('./_getSymbolsIn'),
    keysIn = require('./keysIn');

/**
 * Creates an array of own and inherited enumerable property names and
 * symbols of `object`.
 *
 * @private
 * @param {Object} object The object to query.
 * @returns {Array} Returns the array of property names and symbols.
 */

function getAllKeysIn(object) {  
  return baseGetAllKeys(object, keysIn, getSymbolsIn);
}

module.exports = getAllKeysIn;

/** Used for built-in method references. */
var objectProto = Object.prototype;

/** Used to check objects for own properties. */
var hasOwnProperty = objectProto.hasOwnProperty;

/**
 * Initializes an object clone.
 *
 * @private
 * @param {Object} object The object to clone.
 * @param {boolean} [isDeep] Specify a deep clone.
 * @returns {Object} Returns the initialized clone.
 */

function initCloneByTag(object, tag, isDeep) {  
  var Ctor =  
    object.constructor;
  switch (tag) {  
    case arrayBufferTag:
      return cloneArrayBuffer(object);

    case boolTag:
    case dateTag:
      return new 
    Ctor(+object);

    case dataViewTag:
      return cloneDataView(object, isDeep);

    case float32Tag: case float64Tag:
    case int8Tag: case int16Tag: case int32Tag:
    case uint8Tag: case uint8ClampedTag: case uint16Tag: case uint32Tag:
      return 
    cloneTypedArray(object, isDeep);

    case mapTag:
      return cloneArrayBuffer(object, isDeep);

    case numberTag:
    case stringTag:
      return cloneArrayBuffer(object, isDeep);

    case regexpTag:
      return cloneArrayBuffer(object, isDeep);

    case symbolTag:
      return cloneArrayBuffer(object, isDeep);

    case mapTag:
      return cloneArrayBuffer(object, isDeep);

    case numberTag:
      return cloneArrayBuffer(object, isDeep);

    case stringTag:
      return cloneArrayBuffer(object, isDeep);

    case regexpTag:
      return cloneArrayBuffer(object, isDeep);

    case symbolTag:
      return cloneArrayBuffer(object, isDeep);

    default:
      throw new Error('Unrecognized `toStringTag` value: ' +  
    tag);
  }
}

// Add properties assigned by `RegExp#exec`.  
if (length && typeof array[0] == 'string' &&
    hasOwnProperty.call(array, 'index')) {  
  result.result = array.index;
  result.input = array.input;
}

return result;  
module.exports = initCloneByTag;
string.length,\n\t\tvalue,\n\t\textra; (counter < length) {\n\t\t\tvalue =  

string.charAt(counter++)\n\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t}\n\t\t\t\n
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```javascript
// Convert a string of Unicode symbols (e.g. a domain name label) to a Punycode string of ASCII-only symbols.

function encode(input) {
  var n, delta, handledCPCount, basicLength, bias, j, m, q, k, t, currentValue, output = [], inputLength, handledCPCountPlusOne, baseMinusT, qMinusT;

  // Handle the basic code points
  for (j = 0; j < inputLength; ++j) {
    currentValue = input[j];
    if (currentValue < 0x80) {
      output.push(stringFromCharCode(currentValue));
    }
  }

  handledCPCount = basicLength = output.length;

  // Main encoding loop:
  while (handledCPCount < inputLength) {
    // Increase 'delta' enough to advance the decoder's <n,i> state to <m,0>,
    // but guard against overflow
    for (m = maxInt, j = 0; j < inputLength; ++j) {
      currentValue = input[j];
      if (currentValue >= n && currentValue < m) {
        m = currentValue;
      }
    }

    // Represent delta as a generalized variable-length integer
    for (q = delta, k = base; /* no condition */; k += base) {
      t = k <= bias ? tMin : (k >= bias + tMax ? tMax : k - bias);
      if (q < t) {
        break;
      }
      qMinusT = q - t;
      baseMinusT = base - t;
      output.push(stringFromCharCode(digitToBasic(t + qMinusT % baseMinusT, 0)));
      q = floor(qMinusT / baseMinusT);
    }

    output.push(stringFromCharCode(digitToBasic(q, 0)));
    bias = adapt(delta, handledCPCountPlusOne, handledCPCount == basicLength);
    delta = 0;
    ++handledCPCount;
  }

  return output.join('');
}

function toUnicode(input) {
  return mapDomain(input, function(string) {
    return regexPunycode.test(string) ? decode(string.slice(4).toLowerCase()) : string;
  });
}

function toASCII(input) {
  return mapDomain(input, function(string) {
    return regexNonASCII.test(string) ? 'xn--' + encode(string) : string;
  });
}

punycode = {
  'version': '1.3.2',
  'encode': encode,
  'toUnicode': toUnicode,
  'toASCII': toASCII
};
```

Define the public API: `*punycode = { * @memberOf punycode * @type String * @function version:' + '1.3.2',* * * * * * * An object of methods to
stop the order is\n ensured that original always starts first and closes last:\n return original;\n return original;\n if (event1 == 'start' && event2 == 'start') return original;\n if (event1 == 'stop' && event2 == 'stop') return original;\n if (event1 == 'stop' && event2 == 'start') return original;\n if (event1 == 'stop' && event2 == 'start') return original;\n if (event1 == 'stop' && event2 == 'stop') return original;\n return highlighted;\n which is collapsed to:\n * return highlighted[0].event === 'start'? original: highlighted;\n function open(node) {\n    function attr_str(a) { return a.nodeName + '=' + escape(a.value).replace(\\"", &quot;);\n    }\n    \n    result += '</' + tag(node) + ArrayProto.map.call(node.attributes, attr_str).join('') + '>'\n    \n    return close(node) {\n       \n       result += '</' + tag(node) + ArrayProto.map.call(node.attributes, attr_str).join('') + '>'\n
       return highlighted;\n
       return highlighted[0].event === 'stop'? open: close(event.node);\n
       nodeStack.push(stream[0].node);\n       \n
       if (stream[0].event === 'start') {\n          stream = selectStream();\n       } while (stream !== original && stream[0].offset === processed) {\n          nodeStack.push(stream[0].node);\n          \n          if (stream[0].event === 'start') {\n             nodeStack.push(stream[0].node);\n             \n             if (stream[0].event === 'start') {\n
             } \n
             while (stream !== original) {\n                \n                close(node);\n                render(stream.splice(0, 1)[0]);\n
                if (stream[0].event === 'start') {\n
                } \n
                render(stream.splice(0, 1)[0]);\n
                render(stream.splice(0, 1)[0]);\n
                result += escape(value.substring(processed, stream[0].offset));\n
                processed = stream[0].offset;\n
                if (stream === original) {\n                    \n                    for (var key in API_REPLACES) obj[key] && (obj[API_REPLACES[key]] = obj[key]);\n
                    (obj.contains || []).concat(obj.variants || []).forEach(restoreLanguageApi);\n
                    if (API_REPLACES) restoreLanguageApi(obj);\n
                    if (API_REPLACES && !obj.langApiRestored) {\n
                        obj.langApiRestored = true;\n
                        for (var key in API_REPLACES) \n
                        var numCaptures = 0;\n
                        var var ret = '';\n
                        for (var i = 0; i < regexprs.length; i++) {\n
                            var var offset = numCaptures;\n
                            var var re = reStr(regexprs[i]);\n
                            if (i > 0) {\n
                                var var re = reStr(regexprs[i]);\n
                                if (i > 0) {\n
                                    var var match = numCaptures;\n
                                    var var re = reStr(regexprs[i]);\n
                                    var var re = reStr(regexprs[i]);\n
                                    var var re = reStr(regexprs[i]);\n
                                    if (i > 0) {\n
                                        var var match = numCaptures;\n
                                        var var re = reStr(regexprs[i]);\n
                                        var var re = reStr(regexprs[i]);\n
                                        if (i > 0) {\n
                                            var var match = numCaptures;\n
                                            var var re = reStr(regexprs[i]);\n
                                            var var re = reStr(regexprs[i]);\n
                                            if (i > 0) {\n
                                                var var match = numCaptures;\n
                                                var var re = reStr(regexprs[i]);\n
                                                var var re = reStr(regexprs[i]);\n
                                                if (i > 0) {\n
                                                    var var match = numCaptures;\n
                                                    var var re = reStr(regexprs[i]);\n
                                                    var var re = reStr(regexprs[i]);\n
                                                    if (i > 0) {\n
                                                        var var match = numCaptures;\n
                                                        var var re = reStr(regexprs[i]);\n
                                                        var var re = reStr(regexprs[i]);\n
                                                        if (i > 0) {\n
                                                            var var match = numCaptures;\n
                                                            var var re = reStr(regexprs[i]);\n
                                                            var var re = reStr(regexprs[i]);\n
                                                            if (i > 0) {\n
                                                                var var match = numCaptures;\n
                                                                var var re = reStr(regexprs[i]);\n
                                                                var var re = reStr(regexprs[i]);\n
                                                                if (i > 0) {\n
                                                                    var var match = numCaptures;\n
                                                                    var var re = reStr(regexprs[i]);\n
                                                                    var var re = reStr(regexprs[i]);\n
                                                                    if (i > 0) {\n
                                                                        var var match = numCaptures;\n
                                                                        var var re = reStr(regexprs[i]);\n
                                                                        var var re = reStr(regexprs[i]);\n
                                                                        if (i > 0) {\n
                                                                            var var match = numCaptures;\n
                                                                            var var re = reStr(regexprs[i]);\n
                                                                            var var re = reStr(regexprs[i]);\n
                                                                            if (i > 0) {\n
                                                                                var var match = numCaptures;\n
                                                                                var var re = reStr(regexprs[i]);\n
                                                                                var var re = reStr(regexprs[i]);\n
                                                                                if (i > 0) {\n
                                                                                    var var match = numCaptures;\n
                                                                                    var var re = reStr(regexprs[i]);\n
                                                                                    var var re = reStr(regexprs[i]);\n
                                                                                    if (i > 0) {\n
                                                                                        var var match = numCaptures;\n
                                                                                        var var re = reStr(regexprs[i]);\n
                                                                                        var var re = reStr(regexprs[i]);\n
                                                                                        if (i > 0) {\n
                                                                                            var var match = numCaptures;\n
                                                                                            var var re = reStr(regexprs[i]);\n
                                                                                            var var re = reStr(regexprs[i]);

                                                                                            if (i > 0) {\n
								
							
						
					
				
			
		

	


mode.begin = /\B|\b/;
        mode.beginRe = langRe(mode.begin);
        if (mode.endSameAsBegin
        mode.end = mode.begin;
        if (!mode.end && !mode.endsWithParent
          mode.end = /\B|\b/;
        if (mode.endsWithParent && parent.terminator_end
          mode.terminator_end = reStr(mode.end));
          if (mode.illegal)
            mode.illegalRe = langRe(mode.illegal);
          if (mode.relevance == null)
            mode.relevance = 1;
        if (!mode.contains)
          mode.contains = Array.prototype.concat.apply([],
          mode.contains.forEach(function(c) {
            compileMode(c, mode);});
      }
      if (mode.starts)
        compileMode(mode.starts, parent);
    }

    function compileMode(name, parent) {
      var terminators =
        mode.contains.map(function(c) {
          return c.beginKeywords ? '\\.?(?:' + c.begin + ')\\.?' : c.begin;
        }).concat([mode.terminator_end, mode.illegal])
        .map(reStr)
        .filter(Boolean);
      mode.terminators =
        terminators.length ? langRe(joinRe(terminators, '|'), true) : {exec: function(/*s*/) {return null;}};
    }

    compileMode(language);
  }

  /*
  Core highlighting function. Accepts a language name, or an alias, and a
  string with the code to highlight. Returns an object with the following
  properties:

  - relevance (int)
  - value (an HTML string with highlighting markup)

  */
  function highlight(name, value, ignore_illegals, continuation) {

    function escapeRe(value) {
      return new RegExp(value.replace(/[-\/\\^$*+?.()|\[\]{}]/g, '\\$&'), 'm');
    }

    function subMode(lexeme, mode) {
      var i, length;

      for (i = 0, length = mode.contains.length; i < length; i++) {
        if (testRe(mode.contains[i].beginRe, lexeme)) {
          if (mode.contains[i].endSameAsBegin)
            mode.contains[i].endRe = escapeRe( mode.contains[i].beginRe.exec(lexeme)[0] );
          return mode.contains[i];
        }
      }
    }

    function endOfMode(mode, lexeme) {
      if (testRe(mode.endRe, lexeme)) {
        while (mode.endsParent && mode.parent) {
          mode = mode.parent;
        }
        return mode;
      }
      if (mode.endsWithParent) {
        return endOfMode(mode.parent, lexeme);
      }
    }

    function isIllegal(lexeme, mode) {
      return !ignore_illegals && testRe(mode.illegalRe, lexeme);
    }

    function keywordMatch(mode, match) {
      var match_str = language.case_insensitive ? match[0].toLowerCase() :
      match[0];
      return mode.keywords.hasOwnProperty(match_str) && mode.keywords[match_str];
    }

    function buildSpan(classname, insideSpan, leaveOpen, noPrefix) {
      var classPrefix = noPrefix ? '' :
                        options.classPrefix,
      openSpan    = '<span class="' + classPrefix,
      closeSpan   = leaveOpen ? '' :
                        spanEndTag;

      openSpan += classname + '">';
      if (!classname) return insideSpan;
      return openSpan + insideSpan + closeSpan;
    }

    function processBuffer() {
      result += (top.subLanguage != null ? processSubLanguage() : processKeywords());

      mode_buffer = '';
    }

    function startNewMode(mode) {
      result += mode.className?
      buildSpan(mode.className, '', true): '';
      top = Object.create(mode, {parent: {value: top}});
    }

    function processLexeme(buffer, lexeme) {

      mode_buffer += buffer;

      if (lexeme == null) {
        return escape(mode_buffer);
      } else if (testRe(top.keywords, lexeme)) {
        return escape(mode_buffer);
      }
    }

    function processKeywords() {
      var keyword_match, last_index, match,
      result;

      if (!top.keywords)
        return escape(mode_buffer);

      result = '';
      last_index = 0;

      top.lexemesRe.lastIndex = 0;
      match = top.lexemesRe.exec(mode_buffer);

      while (match) {
        result += escape(mode_buffer.substring(last_index, match.index));
        keyword_match = keywordMatch(top, match);
        if (keyword_match)
          relevance += keyword_match[1];
        result += buildSpan(keyword_buffer, escape(match[0]));
        last_index =
          toTypeof(top.subLanguage == 'string'?
          function processSubLanguage() {
            var explicit =
          top.subLanguage == null ?
          function processBuffer() {
            result += toTypeof(top.subLanguage == null ?
          function highlight(top.subLanguage, mode_buffer, true, continuations[top.subLanguage]) {
          highlightAuto(mode_buffer, top.subLanguage.length ?
          top.subLanguage : undefined);
        }
  
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var formatter = require('format')

module.exports = formatter.apply(null, arguments)

var fault = create(Error)

module.exports = fault
null
function _interopRequireDefault(obj) {
  return obj && obj.__esModule ? obj : { default: obj }; }

function _objectWithoutProperties(obj, keys) { var target = {};
  for (var i in obj) { if (keys.indexOf(i) >= 0) continue; if (!Object.prototype.hasOwnProperty.call(obj, i)) continue; target[i] = obj[i]; } return target; }

function _classCallCheck(instance, Constructor) { if (!(instance instanceof Constructor)) { throw new TypeError("Cannot call a class as a function"); } }

function _possibleConstructorReturn(self, call) { if (!self) { throw new ReferenceError("this hasn't been initialised - supposely a self-contained module, ignore this message if you're reading it on the >." + " age of it - a different file, file: the parent module internal >." + " s."); } return call && (typeof call === "object" || typeof call === "function") ? call : self;
}

function _inherits(subClass, superClass) { if (typeof superClass !== "function" && superClass !== null) { throw new TypeError("Super expression must either be null or a function, not " + typeof superClass); } subClass.prototype = Object.create(superClass && superClass.prototype, { constructor: { value: subClass, enumerable: false, writable: true, configurable: true } }); if (superClass) Object.setPrototypeOf ? Object.setPrototypeOf(subClass, superClass) : subClass.__proto__ = superClass; }

var CopyToClipboard = exports.CopyToClipboard = function _React$PureComponent) {
  _inherits(CopyToClipboard, _React$PureComponent);

  function CopyToClipboard() {
    var _ref;

    var _temp, _this, _ret;

    _classCallCheck(this, CopyToClipboard);

    for (var _len = arguments.length, args = Array(_len), _key = 0; _key < _len; _key++) {
      args[_key] = arguments[_key];
    }

    return _ret = (_temp = (_this = _possibleConstructorReturn(this, (_ref = CopyToClipboard.__proto__ || Object.getPrototypeOf(CopyToClipboard)).call.apply(_ref, [this].concat(args))), _this), _this.onClick = function (event) {
      var _this$props = _this.props,
          text = _this$props.text,
          onCopy = _this$props.onCopy,
          children = _this$props.children,
          options = _this$props.options;

      var elem = _react2.default.Children.only(children);

      var result = (0, _copyToClipboard2.default)(text, options);

      if (onCopy) {
        onCopy(text, result);
      }

      // Bypass onClick if it was present.

      if (elem && elem.props && typeof elem.props.onClick === 'function') {
        elem.props.onClick(event);
      }
    }, _temp), _possibleConstructorReturn(_this, _ret);
  }

  _createClass(CopyToClipboard, [{
    key: 'render',
    value: function render() {
      var _props = this.props,
          _text = _props.text,
          _onCopy = _props.onCopy,
          _options = _props.options,
          children = _props.children,
          props = _objectWithoutProperties(_props, ['text', 'onCopy', 'options', 'children']);

      var elem = _react2.default.Children.only(children);

      return _react2.default.createElement(elem, _extends({}, props, { onClick: this.onClick }));
    }
  }]);

  return CopyToClipboard;
}(_react2.default.PureComponent);

CopyToClipboard.defaultProps = {
  onCopy: undefined,
  options: undefined
};

var clipboardToIE11Formatting = {
  "text/plain": "Text",
  "text/html": "Url",
  "default": "Text"
}

var defaultMessage = "Copy to clipboard: #{key}, Enter";

function format(message) {
  var copyKey = (/mac os
  x/i.test(navigator.userAgent) ? "" : "Ctrl") + "+C";
  return message.replace(/#{\s*key\s*}/g, copyKey);
}

function copy(text, options) {
  var debug, message,
    reselectPrevious, range,
    selection, mark,
    success = false;
  if (!options) {
    options = {};
  }
  debug = options.debug || false;
  try {
    reselectPrevious = deselectCurrent();

    var clipboardData = CopyToClipboard.options.format(message) || (message && clipboardData.format(message) || (typeof clipboardData.format === "function") ? clipboardData.format(message) : message);

    debug & console.warn("unable to use e.clipboardData");

    if (clipboardData) {
      debug & console.warn("trying IE specific stuff");
      window.clipboardData.clearData();
    } else {
      var var format = clipboardToIE11Formatting[options.format] || clipboardToIE11Formatting["default"];
      window.clipboardData.setData(format, text);
    }
  } catch (e) {
    e.preventDefault();
  }
}
(typeof call !== 'object' || typeof call !== 'function') ? call : self; }

function _inherits(subClass, superClass) {
  if (typeof superClass !== 'function' && superClass !== null) {
    throw new TypeError("Super expression must either be null or a function, not " + typeof superClass + " \n superClass");
  }
  subClass.prototype = Object.create(superClass.prototype, { constructor: { value: superClass, enumerable: false, writable: true, configurable: true } });
  if (superClass) Object.setPrototypeOf ? Object.setPrototypeOf(subClass, superClass) : subClass.__proto__ = superClass;
}

var DebounceInput = exports.DebounceInput = function (_React$PureComponent) {
  _inherits(DebounceInput, _React$PureComponent);

  function DebounceInput(props) {
    _classCallCheck(this, DebounceInput);

    var _this = _possibleConstructorReturn(this, (DebounceInput.__proto__ || Object.getPrototypeOf(DebounceInput)).call(this, props));

    _this.onChange = function (event) {
      event.persist();

      var oldValue = _this.state.value;

      _this.setState({ value: event.target.value }, function () {
        var value = _this.state.value;

        if (value.length >= _this.props.minLength) {
          _this.notify(event);
          return;
        }

        // If user hits backspace and goes below minLength consider it
        cleaning the value
        if (oldValue.length > value.length) {
          _this.notify(_extends({}, event, { value: '' }));
        }
      });
    }

    _this.onKeyDown = function (event) {
      var onKeyDown = _this.props.onKeyDown;

      if (event.key === 'Enter') {
        _this.forceNotify(event);
      }
      // Invoke original onKeyDown if present
      if (onKeyDown) {
        onKeyDown(event);
      }
    };

    _this.onBlur = function (event) {
      var onBlur = _this.props.onBlur;

      _this.forceNotify(event);
      // Invoke original onBlur if present
      if (onBlur) {
        onBlur(event);
      }
    };

    _this.createNotifier = function (debounceTimeout) {
      if (debounceTimeout < 0) {
        _this.notify = function () {
          return null;
        };
      } else if (debounceTimeout === 0) {
        _this.notify = _this.doNotify;
      } else {
        var debouncedChangeFunc = (0, _lodash2.default)(function (event) {
          _this.isDebouncing = false;
          _this.doNotify(event);
        }, debounceTimeout);

        _this.notify = function (event) {
          _this.isDebouncing = true;
          debouncedChangeFunc(event);
        };

        _this.cancel = function () {
          _this.isDebouncing = false;
          debouncedChangeFunc.cancel();
        };

        _this.flush = function () {
          return debouncedChangeFunc.flush();
        };

        _this.isDebouncing = true;
        _this.doNotify = function () {
          _this.isDebouncing = false;
          _this.doNotify = _this.doNotify;
        };
      }
    };

    _this.doNotify = function (event) {
      var onChange = _this.props.onChange;

      onChange.apply(undefined, arguments);
    };

    _this.forceNotify = function (event) {
      if (!_this.isDebouncing) {
        return;
      }

      if (_this.cancel) {
        _this.cancel();
      }

      var value = _this.state.value;
      var minLength = _this.props.minLength;

      if (value.length >= minLength) {
        _this.notify(event);
      } else {
        _this.notify(_extends({}, event, { target: _extends({}, event.target, { value: value }) }));
      }
    };

    _this.componentWillMount = function () {
      _this.createNotifier(_this.props.debounceTimeout);
    };

    _this.componentWillReceiveProps = function (nextProps) {
      var value = nextProps.value;
      var debounceTimeout = nextProps.debounceTimeout;

      _this.notify = _this.createNotifier(debounceTimeout);
    };

    _this.componentWillUnmount = function () {
      _this.notify.cancel();
    };

    _this.render = function () {
      var _props = this.props,
          _value = _props.value;

      return _createElement('input', _extends({
        type: 'text',
        value: _value
      }, _props), function (event) {
        _this.notify(event);
      });
    };

    return _this;
  }

  _createClass(DebounceInput, [
    {
      key: 'componentWillMount',
      value: function componentWillMount() {
        this.createNotifier(0);
      }
    },
    {
      key: 'componentWillReceiveProps',
      value: function componentWillReceiveProps(nextProps) {
        var value = nextProps.value;
        var debounceTimeout = nextProps.debounceTimeout;

        this.notify = this.createNotifier(debounceTimeout);
      }
    },
    {
      key: 'componentWillUnmount',
      value: function componentWillUnmount() {
        this.notify.cancel();
      }
    }
  ]);
maybeOnBlur = { onBlur: this.onBlur };

else if (onBlur) {
  maybeOnBlur = { onBlur: onBlur };
}
else {
  maybeOnBlur = {};
}

var maybeRef = inputRef ? { ref: inputRef } : {};

var maybeRef = inputRef ? { ref: inputRef } : {};

return _react2.default.createElement(element, _extends({}, props, {
  onChange: this.onChange,
  value: this.state.value
}, maybeOnKeyDown, maybeOnBlur, maybeRef));

return

DebounceInput;

DebounceInput.defaultProps = {
  element: 'input',
  type: 'text',
  onKeyDown: undefined,
  onBlur: undefined,
  value: undefined,
  minLength: 0,
  debounceTimeout: 100,
  forceNotifyByEnter: true,
  forceNotifyOnBlur: true,
  inputRef: undefined
};

/

_.debounce = function(func, wait, options) {
  var timeout = null,
      context = this,
      args = arguments,
      result;

  return function() {
    var now = +new Date(),
        remaining = wait - (now - timeout);

    timeout = null;
    if (remaining <= 0) {
      result = func.apply(context, args);
      context = args = void 0;
    }
    return remaining;
  };

};

DebounceInput = function(element, props) {
  return _react2.default.createElement(element, _extends({}, props, {
    onChange: this.onChange,
    value: this.state.value
  }, maybeOnKeyDown, maybeOnBlur, maybeRef));

  return

DebounceInput.defaultProps = {
  element: 'input',
  type: 'text',
  onKeyDown: undefined,
  onBlur: undefined,
  value: undefined,
  minLength: 0,
  debounceTimeout: 100,
  forceNotifyByEnter: true,
  forceNotifyOnBlur: true,
  inputRef: undefined
};
'trailing': false\n * }));\n *\n * // Ensure `batchLog` is invoked once after 1 second of debounced calls.\n * var
debounced = _.debounce(batchLog, 250, { 'maxWait': 1000 });\n * var source = new EventSource('/stream');\n *
jQuery(source).on('message', debounced);\n *\n * // Cancel the trailing debounced invocation.\n *
jQuery(window).on('popstate', debounced.cancel);\n */\nfunction debounce(func, wait, options) {\n var lastArgs,\n
lastThis,\n
maxWait,\n
result,\n timerId,\n
lastCallTime,\n
lastInvokeTime = 0,\n
leading =
false,\n
maxing = false,\n
trailing = true;\n\n if (typeof func != 'function') {\n throw new
TypeError(FUNC_ERROR_TEXT);\n }\n wait = toNumber(wait) || 0;\n if (isObject(options)) {\n leading =
!!options.leading;\n maxing = 'maxWait' in options;\n maxWait = maxing ?
nativeMax(toNumber(options.maxWait) || 0, wait) : maxWait;\n trailing = 'trailing' in options ? !!options.trailing :
trailing;\n }\n\n function invokeFunc(time) {\n var args = lastArgs,\n
thisArg = lastThis;\n\n lastArgs =
lastThis = undefined;\n lastInvokeTime = time;\n result = func.apply(thisArg, args);\n return result;\n }\n\n
function leadingEdge(time) {\n // Reset any `maxWait` timer.\n lastInvokeTime = time;\n // Start the timer for
the trailing edge.\n timerId = setTimeout(timerExpired, wait);\n // Invoke the leading edge.\n return leading ?
invokeFunc(time) : result;\n }\n\n function remainingWait(time) {\n var timeSinceLastCall = time lastCallTime,\n
timeSinceLastInvoke = time - lastInvokeTime,\n
result = wait - timeSinceLastCall;\n\n
return maxing ? nativeMin(result, maxWait - timeSinceLastInvoke) : result;\n }\n\n function shouldInvoke(time)
{\n var timeSinceLastCall = time - lastCallTime,\n
timeSinceLastInvoke = time - lastInvokeTime;\n\n //
Either this is the first call, activity has stopped and we're at the\n // trailing edge, the system time has gone
backwards and we're treating\n // it as the trailing edge, or we've hit the `maxWait` limit.\n return (lastCallTime
=== undefined || (timeSinceLastCall >= wait) ||\n
(timeSinceLastCall < 0) || (maxing && timeSinceLastInvoke
>= maxWait));\n }\n\n function timerExpired() {\n var time = now();\n if (shouldInvoke(time)) {\n
return
trailingEdge(time);\n }\n // Restart the timer.\n timerId = setTimeout(timerExpired, remainingWait(time));\n
}\n\n function trailingEdge(time) {\n timerId = undefined;\n\n // Only invoke if we have `lastArgs` which means
`func` has been\n // debounced at least once.\n if (trailing && lastArgs) {\n
return invokeFunc(time);\n }\n
lastArgs = lastThis = undefined;\n return result;\n }\n\n function cancel() {\n if (timerId !== undefined) {\n
clearTimeout(timerId);\n }\n lastInvokeTime = 0;\n lastArgs = lastCallTime = lastThis = timerId =
undefined;\n }\n\n function flush() {\n return timerId === undefined ? result : trailingEdge(now());\n }\n\n
function debounced() {\n var time = now(),\n
isInvoking = shouldInvoke(time);\n\n lastArgs = arguments;\n
lastThis = this;\n lastCallTime = time;\n\n if (isInvoking) {\n
if (timerId === undefined) {\n
return
leadingEdge(lastCallTime);\n
}\n
if (maxing) {\n
// Handle invocations in a tight loop.\n
timerId =
setTimeout(timerExpired, wait);\n
return invokeFunc(lastCallTime);\n
}\n }\n if (timerId === undefined)
{\n
timerId = setTimeout(timerExpired, wait);\n }\n return result;\n }\n debounced.cancel = cancel;\n
debounced.flush = flush;\n return debounced;\n}\n\n/**\n * Checks if `value` is the\n * [language
type](http://www.ecma-international.org/ecma-262/7.0/#sec-ecmascript-language-types)\n * of `Object`. (e.g.
arrays, functions, objects, regexes, `new Number(0)`, and `new String('')`)\n *\n * @static\n * @memberOf _\n *
@since 0.1.0\n * @category Lang\n * @param {*} value The value to check.\n * @returns {boolean} Returns `true`
if `value` is an object, else `false`.\n * @example\n *\n * _.isObject({});\n * // => true\n *\n * _.isObject([1, 2, 3]);\n
* // => true\n *\n * _.isObject(_.noop);\n * // => true\n *\n * _.isObject(null);\n * // => false\n */\nfunction
isObject(value) {\n var type = typeof value;\n return !!value && (type == 'object' || type == 'function');\n}\n\n/**\n
* Checks if `value` is object-like. A value is object-like if it's not `null`\n * and has a `typeof` result of \"object\".\n
*\n * @static\n * @memberOf _\n * @since 4.0.0\n * @category Lang\n * @param {*} value The value to check.\n
* @returns {boolean} Returns `true` if `value` is object-like, else `false`.\n * @example\n *\n *
_.isObjectLike({});\n * // => true\n *\n * _.isObjectLike([1, 2, 3]);\n * // => true\n *\n * _.isObjectLike(_.noop);\n *
// => false\n *\n * _.isObjectLike(null);\n * // => false\n */\nfunction isObjectLike(value) {\n return !!value &&
typeof value == 'object';\n}\n\n/**\n * Checks if `value` is classified as a `Symbol` primitive or object.\n *\n *
@static\n * @memberOf _\n * @since 4.0.0\n * @category Lang\n * @param {*} value The value to check.\n *
@returns {boolean} Returns `true` if `value` is a symbol, else `false`.\n * @example\n *\n *
_.isSymbol(Symbol.iterator);\n * // => true\n *\n * _.isSymbol('abc');\n * // => false\n */\nfunction isSymbol(value)

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Reducer function(s) in function createStoreWithMiddleware(rootReducer, initialState, getSystem) {

    let middleware = ...

    // createLoggerInterceptor
    // stateTransformer: state => state & state.toJS()

    //...

    function createStoreWithMiddleware(rootReducer, initialState, getSystem) {

        let middlewares = ...

        function createStoreWithMiddleware(rootReducer, initialState, getSystem) {

            let middlewares = ...

            const createStore = (rootReducer, initialState, getSystem) => {

                const middlewares = ...

                const createStore = (rootReducer, initialState, getSystem) {

                    const middlewares = ...

                    function createStoreWithMiddleware(rootReducer, initialState, getSystem) {

                        const createStore = (rootReducer, initialState, getSystem) {

                            const middlewares = ...

                            const createStore = (rootReducer, initialState, getSystem) {

                                const middlewares = ...

                                function createStoreWithMiddleware(rootReducer, initialState, getSystem) {

                                    const createStore = (rootReducer, initialState, getSystem) {

                                        const middlewares = ...

                                        const createStore = (rootReducer, initialState, getSystem) {

                                            const middlewares = ...

                                            function createStoreWithMiddleware(rootReducer, initialState, getSystem) {

                                                const createStore = (rootReducer, initialState, getSystem) {

                                                    const middlewares = ...

                                                    const createStore = (rootReducer, initialState, getSystem) {

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                                                                                                                                                    const createStore = (rootReducer, initialState, getSystem) {

                                                                                                                                                const middlewares = ...

                                                                                                                                                const createStore = (rootReducer, initialState, getSystem) {

                                                                                                                                                    const middleware...
throw new TypeError("wrapSelector needs to return a function that returns a new function (ie the wrapped action)\n"
) return wrappedSelector
}, selector || Function.prototype) return

return Object.keys(this.system.statePlugins).reduce((obj, key) => {
  obj[key] = state.get(key)
}, {})

getStateThunks(getState) return Object.keys(this.system.statePlugins).reduce((obj, key) => {
  obj[key] = () => getState().get(key)
}, {})

getFn() return fn: this.system.fn

getComponents(component) return const res = this.system.components[component]

if(!Array.isArray(res)) return res.reduce((ori, wrapper) => {
  return wrapper(ori, this.getSystem())
})

if(typeof component !== "undefined") return this.system.components[component]

return this.system.components

getBoundSelectors(getState, getSystem) return objMap(this.getSelectors(), (obj, key) => {
  let stateName = [key.slice(0, -9)] // selectors = 9 chars
  const getNestedState = () => getState().getIn(stateName)

  return objMap(obj, (fn) => {
    return (...args) => {
      let res = wrapWithTryCatch(fn).apply(null, [getNestedState(), ...args])
      // If a selector returns a function, give it the system - for advanced usage
      if(typeof(res) === "function")
        res = wrapWithTryCatch(res).apply(null, [getState(), ...args])

      return res
    }
  })
})

getBoundActions(dispatch) {
  dispatch = dispatch || this.getStore().dispatch

  const actions = this.getActions()

  const process = creator => {
    if( typeof( creator ) !== "function" ) {
      return objMap(creator, prop => process(prop))
    }

    return ( ...args ) => {
      var action = null
      try {
        action = creator( ...args )
      }
      catch (e) {
        action = {type: NEW_THROWN_ERR, error: true, payload: serializeError(e)}
      }
      finally {
        return action // eslint-disable-line no-unsafe-finally
      }
    }

    return objMap(actions, actionCreator => bindActionCreators( process( actionCreator ), dispatch ) )
  }

  getMapStateToProps() return () => {
    return Object.assign({}, this.getSystem())
  }

  getMapDispatchToProps(extras) return (dispatch) => {
    return deepExtend({}, this.getWrappedAndBoundActions(dispatch), this.getFn(), extras)
  }

}

function combinePlugins(plugins, toolbox) {
  if(isObject(plugins) && !isArray(plugins)) {
    return assignDeep({}, plugins)
  }

  if(isFunc(plugins)) {
    return combinePlugins(plugins(toolbox), toolbox)
  }

  if(isArray(plugins)) {
    return plugins.map(plugin => combinePlugins(plugin, toolbox))
  }

  return {}
}

function callAfterLoad(plugins, system, { hasLoaded } = {}) {
  let calledSomething = hasLoaded
  if(isObject(plugins) && !isArray(plugins)) {
    if(typeof plugins.afterLoad === "function") {
      calledSomething = true
      wrapWithTryCatch(plugins.afterLoad).call(this, system)
    }
  }

  if(isFunc(plugins))
    return callAfterLoad.call(this, plugins(system), system, { hasLoaded: calledSomething })

  if(isArray(plugins)) {
    return plugins.map(plugin => callAfterLoad(plugin, system, { hasLoaded: calledSomething }))
  }

  return calledSomething
}

// Wraps deepExtend, to account
// for certain fields, being wrappers.
// Ie: we need to convert some fields into arrays, and append to them.
// Rather
// than overwrite
function systemExtend(dest={}, src={}) {

  if(!isObject(dest)) {
    return {}
  }

  if(!isObject(src)) {
    return dest
  }

  // Wrap components
  // Parses existing components in the system, and
  // prepares them for wrapping via getComponents
  if(src.compionateComponents) {
    return src.compionateComponents.map(component => {
      const ori = dest.compionateComponents[key] || dest.components[key]
      delete ori
      delete src.compionateComponents[key]
      return ori
    }).concat(src.compionateComponents, dest.compionateComponents)
  }

  // Account for wrapActions, make it an array and append to it
  // Modifies `src` \n  // 80% of this code is just safe traversal. We need to address that ( ie: use a lib )
  const statePlugins = dest if(isObject(statePlugins)) {
    const namespaceObj = statePlugins[namespace]
    if(isObject(namespaceObj)) {
      continue
    }
  }

  // This should only
happen if dest is the first plugin, since invocations after that will ensure its an array
  if (!Array.isArray(action))
  {
    action = [action]
    wrapActions[actionName] = action // Put the value inside an array
  }

  if (src && src.statePlugins && src.statePlugins[namespace] && src.statePlugins[namespace].wrapActions &&
      src.statePlugins[namespace].wrapActions[actionName]) {
    return deepExtend(dest, src)
  }

  const actionMap = src.statePlugins[namespace].wrapActions[actionName] || src.statePlugins[namespace].wrapActions[actionName].concat(src.statePlugins[namespace].wrapActions[actionName]) || src.statePlugins[namespace].wrapActions[actionName].concat(src.statePlugins[namespace].wrapActions[actionName])

  if (Array.isArray(action))
  {
    action = action // Put the value inside an array
    wrapActions[actionName] = action // Put the value inside an array
  }

  if (src && src.statePlugins && src.statePlugins[namespace] && src.statePlugins[namespace].wrapActions &&
      src.statePlugins[namespace].wrapActions[actionName]) {
    src.statePlugins[namespace].wrapActions[actionName] =
      wrapActions[actionName].concat(src.statePlugins[namespace].wrapActions[actionName])
  }

  return deepExtend(dest, src)
}

function buildReducer(states) {
  let reducerObj = objMap(states, (val) =>
  {
    return val.reducers
  })
  return allReducers(reducerObj)
}

function allReducers(reducerSystem) {
  let reducers = Object.keys(reducerSystem).reduce((obj, key) => {
    obj[key] = makeReducer(reducerSystem[key])
    return obj
  }, {})

  if (!Object.keys(reducers).length) {
    return idFn
  }

  return combineReducers(reducers)
}

function makeReducer(reducerObj) {
  return (state = new Map(), action) => {
    if (!reducerObj)
      return state

    let redFn = (reducerObj[action.type])
    if (redFn) {
      const res =
        wrapWithTryCatch(redFn)(state, action)
        // If the try/catch wrapper kicks in, we'll get null back...
        // in that case, we want to avoid making any changes to state
        return res === null ? state : res
    }
    return state
  }
}

function wrapWithTryCatch(fn, {
  logErrors = true
} = {})
{
  if (typeof fn !== "function") {
    return fn
  }

  return function (...args) {
    try {
      return fn.call(this, ...args)
    } catch (e) {
      if (logErrors) {
        console.error(e)
      }
      return null
    }
  }
}

function configureStore(rootReducer, initialState, getSystem) {
  const store = createStoreWithMiddleware(rootReducer, initialState, getSystem)

  // if (module.hot) {
  //   // Enable Webpack hot module replacement for reducers
  //   module.hot.accept("reducers/index", () => {
  //     const nextRootReducer = require("reducers/index")
  //     store.replaceReducer(nextRootReducer)
  //   })
  // }

  return store
}

export default class OperationContainer extends PureComponent {
  constructor(props, context) {
    super(props, context)
    this.state = {
      tryItOutEnabled: false,
      executeInProgress: false
    }
  }

  static propTypes = {
    op: PropTypes.instanceOf(Iterable).isRequired,
    tag: PropTypes.string.isRequired,
    path: PropTypes.string.isRequired,
    method: PropTypes.string.isRequired,
    operationId: PropTypes.string.isRequired,
    showSummary: PropTypes.bool.isRequired,
    isShown: PropTypes.bool.isRequired,
    jumpToKey: PropTypes.string.isRequired,
    allowTryItOut: PropTypes.bool,
    displayOperationId: PropTypes.bool,
    isAuthorized: PropTypes.bool,
    displayRequestDuration: PropTypes.bool,
    response: PropTypes.instanceOf(Iterable),
    request: PropTypes.instanceOf(Iterable),
    security: PropTypes.instanceOf(Iterable),
    isDeepLinkingEnabled: PropTypes.bool.isRequired,
    specPath: ImPropTypes.list.isRequired,
    getComponent: PropTypes.func.isRequired,
    authActions: PropTypes.object,
    oas3Actions: PropTypes.object,
    oas3Selectors: PropTypes.object,
    authSelectors: PropTypes.object,
    specActions: PropTypes.object.isRequired,
    specSelectors: PropTypes.object.isRequired,
    layoutActions: PropTy
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```javascript
import React from "react"
import { compose, withProps, withState, pure } from "recompose"
import { connect } from "react-redux"
import { SpecResolvedSubtree, SpecSelectors, SpecActions } from "cml-client"
import { LayoutActions, LayoutSelectors } from "cml-client"
import { getComponent, getComponentByName, getComponentAsJS } from "cml-client"
import { App } from "cml-client"
import { getComponent, getComponentByName, getComponentAsJS } from "cml-client"
import { App } from "cml-client"

export default class App extends React.Component {

  getLayout() {
    let {
      getComponent, layoutSelectors } = this.props
    const layoutName = layoutSelectors.current()
    const Component = getComponent(layoutName, true)
    return Component ? Component : ()=> <h1> No layout defined for &quot;{layoutName}&quot; </h1>
  }

  render() {
    const Layout = this.getLayout()

    return (<Layout/>
    )

}

App.propTypes = {
  getComponent: PropTypes.func.isRequired,
  layoutSelectors: PropTypes.object.isRequired,
}

App.defaultProps = {
}
```

---

```javascript
export default class App extends React.Component {

  getLayout() {
    let {
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    const layoutName = layoutSelectors.current()
    const Component = getComponent(layoutName, true)
    return Component ? Component : ()=> <h1> No layout defined for &quot;{layoutName}&quot; </h1>
  }

  render() {
    const Layout = this.getLayout()

    return (<Layout/>
    )

}
```

---

```javascript
import React from "react"
import PropTypes from "prop-types"

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    const Component = getComponent(layoutName, true)
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  }

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    const Layout = this.getLayout()

    return (<Layout/>
    )

}
```

---

```javascript
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    const Component = getComponent(layoutName, true)
    return Component ? Component : ()=> <h1> No layout defined for &quot;{layoutName}&quot; </h1>
  }

  render() {
    const Layout = this.getLayout()

    return (<Layout/>
    )

}

App.propTypes = {
  getComponent: PropTypes.func.isRequired,
  layoutSelectors: PropTypes.object.isRequired,
}

App.defaultProps = {
}
```
from "prop-types" in \n\nexport default class AuthorizationPopup extends React.Component {
  close = () => {
    let { authActions } = this.props
    authActions.showDefinitions(false)
  }

  render() {
    let { authSelectors, authActions, getComponent, errSelectors, specSelectors, fn: { AST = [] } } = this.props
    let definitions = authSelectors.showDefinitions()
    const Auths = getComponent({ auths: true })
    return (<div className="dialog-ux">
      <div className="modal-ux">
        <div className="modal-dialog-ux">
          <div className="modal-ux-inner">
            <div className="modal-ux-header">
              <h3>Available authorizations</h3>
              <button type="button" className="close-modal" onClick={ this.close }>
                <svg width="20" height="20">
                  <use href="#close" xlinkHref="#close" />
                </svg>
              </button>
            </div>
            <div className="modal-ux-content">
              { definitions.valueSeq().map((definition, key) => {
                return <Auths key={ key } AST={AST}
                              definitions={ definition }
                              getComponent={getComponent}
                              authSelectors={authSelectors}
                              authActions={ authActions }
                              specSelectors={specSelectors} />
              })
            }
          </div>
        </div>
      </div>
    )
  }
}

import React from "react"
import PropTypes from "prop-types"

export default class AuthorizeBtn extends React.Component {
  static propTypes = {
    onClick: PropTypes.func,
    isAuthorized: PropTypes.bool,
    showPopup: PropTypes.bool,
    getComponent: PropTypes.func.isRequired
  }

  render() {
    let { isAuthorized, showPopup, onClick, getComponent } = this.props
    const AuthorizationPopup = getComponent("authorizationPopup")
    return (<div className="auth-wrapper">
      <button className={isAuthorized ? "btn authorize locked" : "btn authorize unlocked"} onClick={onClick}>
        <span>Authorize</span>
        <svg width="20" height="20">
          <use href={ isAuthorized ? "#locked" : "#unlocked" } xlinkHref={ isAuthorized ? "#locked" : "#unlocked" } />
        </svg>
      </button>
      {showPopup && <AuthorizationPopup /> }
    )
  }
}

import React from "react"
import PropTypes from "prop-types"

export default class AuthorizeBtnContainer extends React.Component {

  static propTypes = {
    specActions: PropTypes.object.isRequired,
    specSelectors: PropTypes.object.isRequired,
    authActions: PropTypes.object.isRequired,
    authSelectors: PropTypes.object.isRequired,
    getComponent: PropTypes.func.isRequired
  }

  render() {
    const { authActions, authSelectors, specSelectors, getComponent } = this.props
    const securityDefinitions = specSelectors.securityDefinitions()
    const authorizableDefinitions = authSelectors.definitionsToAuthorize()
    const AuthorizeBtn = getComponent("authorizeBtn")
    return securityDefinitions ? (<AuthorizeBtn
                             onClick={() => authActions.showDefinitions(authorizableDefinitions)}
                             isAuthorized={!!authSelectors.authorized().size}
                             showPopup={!!authSelectors.shownDefinitions()}
                             getComponent={getComponent} />
    ) : null
  }
}

import React from "react"
import PropTypes from "prop-types"

export default class AuthorizeOperationBtn extends React.Component {
  static propTypes = {
    isAuthorized: PropTypes.bool.isRequired,
    onClick: PropTypes.func
  }

  onClick = (e) => {
    e.stopPropagation()
    let { onClick } = this.props
    if(onClick) {
      onClick()
    }
  }

  render() {
    let { isAuthorized } = this.props
    return (<button className={isAuthorized ? "authorization__btn locked" : "authorization__btn unlocked"}
                    aria-label={isAuthorized ? "authorization button locked" : "authorization button unlocked"}
                    onClick={this.onClick}>
      <svg width="20" height="20">
        <use href={ isAuthorized ? "#locked" : "#unlocked" } xlinkHref={ isAuthorized ? "#locked" : "#unlocked" } />
      </svg>
    </button>)
  }
}
import React from "react"
import PropTypes from "prop-types"
import ImPropTypes from "react-immutable-proptypes"

export default class Auths extends React.Component {
  static propTypes = {
    schema: ImPropTypes.orderedMap.isRequired,
    name: PropTypes.string.isRequired,
    onAuthChange: PropTypes.func.isRequired,
    authorized: ImPropTypes.orderedMap.isRequired
  }

  render() {
    let {
      schema,
      name,
      getComponent,
      onAuthChange,
      authorized,
      errSelectors
    } = this.props
    const ApiKeyAuth = getComponent("apiKeyAuth")
    const BasicAuth = getComponent("basicAuth")

    let authEl

    const type = schema.get("type")
    switch(type) {
      case "apiKey": authEl = <ApiKeyAuth
                                        key={ name }
                                        schema={ schema }
                                        name={ name }
                                        errSelectors={ errSelectors }
                                        authorized={ authorized }
                                        getComponent={ getComponent }
                                        onChange={ onAuthChange } />
        break
      case "basic": authEl = <BasicAuth key={ name }
                                      schema={ schema }
                                      name={ name }
                                      errSelectors={ errSelectors }
                                      authorized={ authorized }
                                      getComponent={ getComponent }
                                      onChange={ onAuthChange } />
        break
      default: authEl = <div key={ name }>Unknown security definition type { type

      <p>Scopes are used to grant an application different levels of access to data on behalf of the end user. Each API may declare one or more scopes. </p>
      <p>API requires the following scopes. Select which ones you want to grant to Swagger UI.</p>
      <div
        className="scope-def">
        <p>Scopes are used to grant an application different levels of access to data on behalf of the end user. Each API may declare one or more scopes. </p>
        <p>API requires the following scopes. Select which ones you want to grant to Swagger UI.</p>
        <div
          className="scope-def">
          <p>Scopes are used to grant an application different levels of access to data on behalf of the end user. Each API may declare one or more scopes. </p>
          <p>API requires the following scopes. Select which ones you want to grant to Swagger UI.</p>
        </div>
      </div>
      <form
        className="auth-container">
        { !!nonOauthDefinitions.size && <form
          onSubmit={ this.submitAuth }
          >
          { nonOauthDefinitions.map( (schema, name) => {
            return (<AuthItem
                          key={name}
                          schema={schema}
                          name={name}
                          getComponent={getComponent}
                          onAuthChange={this.onAuthChange}
                          authorized={authorized}
                          errSelectors={errSelectors}
                          />)
          }).toArray()
          }
          <div className="auth-btn-wrapper">
            { nonOauthDefinitions.size === authorizedAuth.size ? <Button className="btn modal-btn auth" onClick={ this.logoutClick }>Logout</Button>
              : <Button type="submit" className="btn modal-btn auth authorize">Authorize</Button>
            }
            <Button className="btn modal-btn auth btn-done" onClick={ this.close }>Close</Button>
          </div>
        </form>
      </div>
    </form>
  }

  static defaultProps = {
    authorized: null
  }
}

export class AuthsContainer extends React.Component {
  static propTypes = {
    errSelectors: PropTypes.object.isRequired,
    getComponent: PropTypes.func.isRequired,
    authSelectors: PropTypes.object.isRequired,
    specSelectors: PropTypes.object.isRequired,
    authActions: PropTypes.object.isRequired,
    definitions: ImPropTypes.iterable.isRequired
  }

  constructor(props, context) {
    super(props, context)
    this.state = {}
  }

  onAuthChange =(auth) => {
    let { name } = auth
    this.setState({ [name]: auth })
  }

  submitAuth =(e) => {
    e.preventDefault()
    let { authActions } = this.props
    authActions.authorize(this.state)
  }

  logoutClick =(e) => {
    e.preventDefault()
    let { authActions, definitions } = this.props
    let auths = definitions.map( (val, key) => {
      return key
    }).toArray()
    this.setState(auths.reduce((prev, auth) => {
      prev[auth] = ""
      return prev
    }, {}))
    authActions.logout(auths)
  }

  close =(e) => {
    e.preventDefault()
    let { authActions } = this.props
    authActions.showDefinitions(false)
  }

  render() {
    let { definitions, getComponent, authSelectors,
      errSelectors } = this.props
    const AuthItem = getComponent("AuthItem")
    const Oauth2 = getComponent("oauth2", true)
    const Button = getComponent("Button")

    let authorized = authSelectors.authorized()
    let authorizedAuth = definitions.filter( schema => schema.get("type") !== "oauth2")
    let nonOauthDefinitions = definitions.filter( schema => schema.get("type") !== "oauth2")
    let oauthDefinitions = definitions.filter( schema => schema.get("type") === "oauth2")

    return (<div className="auth-container">
        { !!nonOauthDefinitions.size && <form
          onSubmit={ this.submitAuth }
          >
          { nonOauthDefinitions.map( (schema, name) => {
            return (<AuthItem
                          key={name}
                          schema={schema}
                          name={name}
                          getComponent={getComponent}
                          onAuthChange={this.onAuthChange}
                          authorized={authorized}
                          errSelectors={errSelectors}
                          />)
          }).toArray()
          }
          <div className="auth-btn-wrapper">
            { nonOauthDefinitions.size === authorizedAuth.size ? <Button className="btn modal-btn auth" onClick={ this.logoutClick }>Logout</Button>
              : <Button type="submit" className="btn modal-btn auth authorize">Authorize</Button>
            }
            <Button className="btn modal-btn auth btn-done" onClick={ this.close }>Close</Button>
          </div>
        </form>
      </div>
    )
  }

  static defaultProps = {
    errSelectors: PropTypes.object.isRequired,
    getComponent: PropTypes.func.isRequired,
    authSelectors: PropTypes.object.isRequired,
    specSelectors: PropTypes.object.isRequired,
    authActions: PropTypes.object.isRequired,
    definitions: ImPropTypes.iterable.isRequired
  }
}

export class AuthsContainer extends React.Component {
  static propTypes = {
    errSelectors: PropTypes.object.isRequired,
    getComponent: PropTypes.func.isRequired,
    authSelectors: PropTypes.object.isRequired,
    specSelectors: PropTypes.object.isRequired,
    authActions: PropTypes.object.isRequired,
    definitions: ImPropTypes.iterable.isRequired
  }

  constructor(props, context) {
    super(props, context)
    this.state = {}
  }

  onAuthChange =(auth) => {
    let { name } = auth
    this.setState({ [name]: auth })
  }

  submitAuth =(e) => {
    e.preventDefault()
    let { authActions } = this.props
    authActions.authorize(this.state)
  }

  logoutClick =(e) => {
    e.preventDefault()
    let { authActions, definitions } = this.props
    let auths = definitions.map( (val, key) => {
      return key
    }).toArray()
    this.setState(auths.reduce((prev, auth) => {
      prev[auth] = ""
      return prev
    }, {}))
    authActions.logout(auths)
  }

  close =(e) => {
    e.preventDefault()
    let { authActions } = this.props
    authActions.showDefinitions(false)
  }

  render() {
    let { definitions, getComponent, authSelectors,
      errSelectors } = this.props
    const AuthItem = getComponent("AuthItem")
    const Oauth2 = getComponent("oauth2", true)
    const Button = getComponent("Button")

    let authorized = authSelectors.authorized()
    let authorizedAuth = definitions.filter( schema => schema.get("type") !== "oauth2")
    let nonOauthDefinitions = definitions.filter( schema => schema.get("type") !== "oauth2")
    let oauthDefinitions = definitions.filter( schema => schema.get("type") === "oauth2")

    return (<div className="auth-container">
        { !!nonOauthDefinitions.size && <form
          onSubmit={ this.submitAuth }
          >
          { nonOauthDefinitions.map( (schema, name) => {
            return (<AuthItem
                          key={name}
                          schema={schema}
                          name={name}
                          getComponent={getComponent}
                          onAuthChange={this.onAuthChange}
                          authorized={authorized}
                          errSelectors={errSelectors}
                          />)
          }).toArray()
          }
          <div className="auth-btn-wrapper">
            { nonOauthDefinitions.size === authorizedAuth.size ? <Button className="btn modal-btn auth" onClick={ this.logoutClick }>Logout</Button>
              : <Button type="submit" className="btn modal-btn auth authorize">Authorize</Button>
            }
            <Button className="btn modal-btn auth btn-done" onClick={ this.close }>Close</Button>
          </div>
        </form>
      </div>
    )
  }

  static defaultProps = {
    errSelectors: PropTypes.object.isRequired,
    getComponent: PropTypes.func.isRequired,
    authSelectors: PropTypes.object.isRequired,
    specSelectors: PropTypes.object.isRequired,
    authActions: PropTypes.object.isRequired,
    definitions: ImPropTypes.iterable.isRequired
  }
}
Examples: <span>\n  Examples: </span><select
    onChange={this._onDomSelect}
    value={
      isModifiedValueAvailable && isValueModified
        ? (currentExampleKey || "\n")
        : null
    }>
        {examples
          .map((example, exampleName) => {
            return
              (<option
                key={exampleName} // for React
                value={exampleName} // for
                matching to select's `value` \n
              >
                {example.get("summary") || exampleName}
              </option>)
          })
          .valueSeq()}
    </select>
  
  </div>
); 

/*
 *
 */
import React from "react"
import { Map, List } from "immutable"
import PropTypes from "prop-types"
import ImPropTypes from "react-immutable-proptypes"

import { stringify } from "core/utils"

// This stateful component lets us avoid writing competing values (user\n// modifications vs example values) into global state, and the mess that comes\n// with that: tracking which of the two values are currently used for\n// Try-It-Out, which example a modified value came from, etc.\n
// This solution here is to retain the last user-modified value \n// ExamplesSelectValueRetainer's component state, so that our global state
// can stay\n// clean, always simply being the source of truth for what value should be both\n// displayed to the user
// and used as a value during request execution.\n// This approach/tradeoff was chosen in order to encapsulate the particular\n// logic of Examples within the Examples component tree, and to avoid\// regressions within our current implementation elsewhere (non-Examples\// definitions, OpenAPI 2.0, etc). A future refector to global state might
// make\n// this component unnecessary.\n// TL;DR: this is not our usual approach, but the choice was made consciously.\n// Note that 'currentNamespace' isn't currently used anywhere!\n// const stringifyUnlessList = input =>
// List.isList(input) ? input : stringify(input)
// export default class ExamplesSelectValueRetainer extends React.PureComponent {
// static propTypes = {
//  examples: ImPropTypes.map,
//  onSelect: PropTypes.func,
//  updateValue: PropTypes.func, // mechanism to update upstream value
//  getComponent: PropTypes.func.isRequired,
//  currentUserInputValue: PropTypes.any,
//  currentKey: PropTypes.string,
//  currentNamespace: PropTypes.string,
//  (also proxies props for Examples)
// }
// static defaultProps = {
// examples: Map({}),
// currentNamespace: "__DEFAULT__NAMESPACE__",
// onSelect: (...args) =>
// console.log( // eslint-disable-line no-console
//    "ExamplesSelectValueRetainer: no `onSelect` function was
//    provided",
//    ...args
// ),
// updateValue: (...args) =>
// console.log( // eslint-disable-line no-console
//    "ExamplesSelectValueRetainer: no 'updateValue' function was provided",
//    ...args
// ),
// constructor(props) {
// super(props)
// const valueFromExample = this._getCurrentExampleValue()
// this.state = {
//  // user edited: last value that came from the world around us, and didn't\n//  // clean: match the current example's value\n//  // internal: last value that came from user selecting an Example
//  [props.currentNamespace]: Map({
//      lastUserEditedValue: this.props.currentUserInputValue,
//      lastDownstreamValue: valueFromExample,
//      isModifiedValueSelected: null
//    }),
//    // toObject() ||
//    // stateForCurrentNamespace = () => {
//    const [ currentNamespace ] = this.props
//    return this._getStateForCurrentNamespace() ||
//    Map({}).toObject() ||
//    this.state[ currentNamespace ] ||
//    Map({}).toObject()
//  },
//  this._setStateForCurrentNamespace = () => {
//    this.props.currentNamespace = this.props.currentNamespace
//    this.state[ currentNamespace ] = new Map()
//    this.state[ currentNamespace ]
//    const valueFromExample = this._getExampleValue()
//    this.setState({
//      [currentNamespace]: Map({
//        valueFromExample: valueFromExample
//      }).toObject()
//    })
//  },
//  this._getExampleValue = () => {
//    const [ currentNamespace ] = this.props
//    return this._getExampleValue()
//    const valueFromExample = this._getExampleValue()
//    const valueFromExample = this._getExampleValue()
//    return valueFromExample
//  },
//  this._getNextProps = () => {
//    this.props
//    return this._getNextProps() ||
//    Map({})
//    this.props
//    return this._getNextProps()
//  },
//  this._getExampleValue = () => {
//    this.props
//    return this._getExampleValue()
//    const [ currentNamespace ] = this.props
//    return this._getExampleValue()
//  },
//  this._getNextProps = () => {
//    this.props
//    return this._getNextProps()
//    const [ currentNamespace ] = this.props
//    return this._getNextProps()
//  },
//  this._getExampleValue = () => {
//    this.props
//    return this._getExampleValue()
//    const [ currentNamespace ] = this.props
//    return this._getExampleValue()
//  }
// }
onExamplesSelect = (key, { isSyntheticChange } = {}, ...otherArgs) => {
const { onSelect, updateValue, currentUserInputValue } = this.props
const { lastUserEditedValue } = this._getStateForCurrentNamespace()

const valueFromExample = this._getValueForExample(key)

if (key === '__MODIFIED__VALUE__') {
  updateValue(stringifyUnlessList(lastUserEditedValue))
  return this._setStateForCurrentNamespace({
    isModifiedValueSelected: true,
  })
}

if (typeof onSelect === 'function') {
  onSelect(key, {
    isSyntheticChange, ...otherArgs
  })
}

this._setStateForCurrentNamespace({
  lastDownstreamValue: valueFromExample,
  isModifiedValueSelected: isSyntheticChange &
  currentUserInputValue !== lastUserEditedValue &
  currentUserIdInputValue !== valueFromExample,
})

// we never want to send up value updates from synthetic changes
if (isSyntheticChange) return

if (typeof updateValue === 'function') {
  updateValue(stringifyUnlessList(valueFromExample))
}
}

componentWillReceiveProps(nextProps) {
// update `lastUserEditedValue` as new currentUserInput values come in

const { currentUserInputValue: newValue, examples, onSelect } = nextProps

const {
  lastUserEditedValue,
  lastDownstreamValue,
} = this._getStateForCurrentNamespace()

const valueFromCurrentExample = this._getValueForExample(nextProps.currentKey, nextProps)

const exampleMatchingNewValue = examples.find(
  example =>
    example.get('value') === newValue ||
    // sometimes data is stored as a string (e.g. in Request Bodies), so
    // let's check against a stringified version of our example too
    stringify(example.get('value')) === newValue
)

if (exampleMatchingNewValue) {
  onSelect(examples.keyOf(exampleMatchingNewValue), {
    isSyntheticChange: true,
  })
} else if (
  newValue !== this.props.currentUserInputValue &&
  newValue !== lastUserEditedValue &
  newValue !== lastDownstreamValue // value isn't what we've seen on the
  // other side
) {
  this._setStateForCurrentNamespace(nextProps.currentNamespace, {
    lastUserEditedValue: nextProps.currentInputValue,
    isModifiedValueSelected: newValue !== valueFromCurrentExample,
  })
}

// return

this._setStateForCurrentNamespace(nextProps.currentNamespace, {
  lastDownstreamValue: newValue,
  isModifiedValueSelected: newValue !== valueFromCurrentExample,
})

return (
  <ExamplesSelect
    examples={examples}
    currentExampleKey={currentKey}
    onSelect={this._onExamplesSelect}
    isModifiedValueAvailable={
      !!lastUserEditedValue &&
      lastUserEditedValue !== lastDownstreamValue
    }
    isValueModified={
      currentUserInputValue
      !== undefined &&
      isModifiedValueSelected &&
      currentUserInputValue !== this._getCurrentExampleValue()
    }
  />
)
}

constructor(props, context) {
  super(props, context)
  let { name, schema, authorized, authSelectors } = this.props
  let auth = authorized &&
  authorized.get(name)
  let authConfigs = authSelectors.getConfigs()

  errActions.clear({authId: name, type: 'auth', source: 'auth'});
  oauth2Authorize({auth: this.state, authActions,
});

let appState = {
  appName: authConfigs.appName,
  name: name,
  schema: schema,
  scopes: scopes,
  clientId: clientId,
  clientSecret: clientSecret,
  username: username,
  password: password
};

appState = oauth2Authorize(appState);
errActions, configs, authConfigs })

// Scope change event
onScopeChange = (e) => {
  let { target } = e
  let { checked } = target
  let scope = target.dataset.value

  if ( checked && this.state.scopes.indexOf(scope) === -1 ) {
    newScopes = this.state.scopes.concat([scope])
    this.setState({
      scopes: newScopes
    })
  } else if ( !checked && this.state.scopes.indexOf(scope) > -1 ) {
    this.setState({
      scopes: this.state.scopes.filter(val => val !== scope)
    })
  }
}

// Handle input changes
onInputChange = (e) => {
  let { target : { dataset : { name }, value } } = e
  let state = {
    [name]: value
  }

  this.setState(state)
}

// Select scopes
selectScopes = (e) => {
  if (e.target.dataset.all) {
    this.setState({
      scopes: Array.from((this.props.schema.get("allowedScopes") ||
        this.props.schema.get("scopes")).keys())
    })
  } else {
    this.setState({
      scopes: []
    })
  }
}

// Log out
logout = (e) => {
  e.preventDefault()
  let { authActions, errActions, name } = this.props

  errActions.clear({authId: name, type: "auth", source: "auth"})
  authActions.logout([ name ])
}

// Render
render() {
  let {
    schema, getComponent, authSelectors, errSelectors, name, specSelectors
  } = this.props
  const
  Input = getComponent("Input")
  const Row = getComponent("Row")
  const Col =
  Button = getComponent("Button")

  // Check if client is authorized
  isAuthorized = authSelectors.authorized().get(name)
  let isAuthorized = !!isAuthorized
  let errors = errSelectors.allErrors().filter( err => err.get("authId") === name)
  let isValid = !errors.filter( err => err.get("source") === "validation").size
  let description = schema.get("description")

  return (
    <div>
      <h4>{name} (OAuth2, { schema.get("flow") }) <JumpToPath path={[ "securityDefinitions", name ]} /></h4>
      { !this.state.appName ? null : <h5>Application: { this.state.appName } </h5> }
      { description && <Markdown source={ schema.get("description") } /> }

      { isAuthorized && <h6>Authorized</h6> }

      { ( flow === IMPLICIT || flow === ACCESS_CODE ) && <p>Authorization URL: <code>{ schema.get("authorizationUrl") }</code></p> }
      { ( flow === PASSWORD || flow === ACCESS_CODE || flow === APPLICATION ) && <p>Token URL: <code>{ schema.get("tokenUrl") }</code></p> }
      <p className="flow">Flow: <code>{ schema.get("flow") }</code></p>

      { flow !== PASSWORD ? null
        : <Row>
          <Row>
            <label htmlFor="oauth_username">username:</label>
            {
              isAuthorized ? <code> {this.state.username} </code>
                : <Col tablet={10} desktop={10}>
                  <input id="oauth_username" type="text" data-name="username" onChange={ this.onInputChange }/>
            </Col>
          </Row>
          { flow !== PASSWORD ? null
            : <Row>
              <Row>
                <label htmlFor="oauth_password">password:</label>
                {
                  isAuthorized ? <code> **** </code>
                    : <Col tablet={10} desktop={10}>
                      <input id="oauth_password" type="password" data-name="password" onChange={ this.onInputChange }/>
                </Col>
              </Row>
              { flow !== PASSWORD ? null
                : <Row>
                  <label htmlFor="password_type">Client credentials location:</label>
                  {
                    isAuthorized ? <code> {this.state.passwordType} </code>
                      : <Col tablet={10} desktop={10}>
                        <select id="password_type" data-name="passwordType" onChange={ this.onInputChange }>
                          <option value="basic">Authorization header</option>
                        </select>
                  </Col>
                </Row>
              }
            </Row>
          }
        </Row>
      }
      { flow === PASSWORD ? null
        : <Row>
          <Row>
            <label htmlFor="client_id">client_id:</label>
            {
              isAuthorized ? <code> ****** </code>
                : <Col tablet={10} desktop={10}>
                  <InitializedInput id="client_id"
                                    type="text"
                                    required={ flow === PASSWORD }
                                    initialValue={ this.state.clientId }
                                    data-
sanitizeUrl(authorizationUrl)

let url = [sanitizedAuthorizationUrl, query.join("&")].join(authorizationUrl.indexOf("?") === -1 ? "?" : "&")

// pass action authorizeOauth2 and authentication data through window

let callback = authActions.preAuthorizeImplicit

else if (authConfigs.useBasicAuthenticationWithAccessCodeGrant) {
  callback = authActions.authorizeAccessCodeWithBasicAuthentication
}

win.swaggerUIRedirectOauth2 = {
  auth: auth,
  state: state,
  redirectUrl: redirectUrl,
  callback: callback,
  errCb: errActions.newAuthErr
}

win.open(url)

import React, { Component } from "react"
import PropTypes from "prop-types"

export default class Clear extends Component {

  onClick = () => {
    let { specActions, path, method } = this.props
    specActions.clearResponse(path, method)
    specActions.clearRequest(path, method)
  }

  render() {
    return (
      <button className="btn btn-clear opblock-control__btn" onClick={this.onClick}>
        Clear
      </button>
    )
  }

  static propTypes = {
    specActions: PropTypes.object.isRequired,
    path: PropTypes.string.isRequired,
    method: PropTypes.string.isRequired,
  }

import React from "react"
import PropTypes from "prop-types"
import ImPropTypes from "react-immutable-proptypes"
import { Iterable } from "immutable"

const Headers = ( { headers } ) => {
  return (
    <h5>Response headers</h5>
    <pre className="microlight">{headers}</pre>
  )
}
Headers.propTypes = {
  headers: PropTypes.array.isRequired
}

const Duration = ( { duration } ) => {
  return (
    <h5>Request duration</h5>
    <pre className="microlight">{duration} ms</pre>
  )
}
Duration.propTypes = {
  duration: PropTypes.number.isRequired
}

export default class LiveResponse extends React.Component {

  shouldComponentUpdate(nextProps) {
    return this.props.response !== nextProps.response
      || this.props.path !== nextProps.path
      || this.props.method !== nextProps.method
      || this.props.displayRequestDuration !== nextProps.displayRequestDuration
  }

  render() {
    const { response, getComponent, getConfigs, displayRequestDuration, specSelectors, path, method } = this.props
    const { showMutatedRequest } = getConfigs()

    const curlRequest = showMutatedRequest ? specSelectors.mutatedRequestFor(path, method) : specSelectors.requestFor(path, method)
    const status = response.get("status")
    const url = curlRequest.get("url")
    const headers = response.get("headers").toJS()
    const notDocumented = response.get("notDocumented")
    const isError = response.get("error")
    const body = response.get("text")
    const duration = response.get("duration")
    const headersKeys = Object.keys(headers)

    return (
      <div>
        { curlRequest && <Curl request={curlRequest} getConfigs={getConfigs} /> }
        { url && <div>
          <h4>Request URL</h4>
          <pre className="microlight">{url}</pre>
        </div> }
        <h4>Server response</h4>
        <table className="responses-table live-responses-table">
          <thead>
            <tr className="responses-header">
              <td className="col_header response-col_status">Code</td>
              <td className="col_header response-col_description">Details</td>
            </tr>
          </thead>
          <tbody>
            <tr className="response">
              <td className="response-col_status">
                { status }
                { notDocumented ? <div className="response-undocumented">
                  Undocumented
                </div> : null }
              </td>
              <td className="response-col_description">{ body }<br /
            </tr>
          </tbody>
        </table>
      </div>
    )
  }
}
Open Source Used In Cisco Modeling Labs 2.2

{\$response.get("name")}: {\$response.get("message")} 

```javascript
const propTypes = { 
  getComponent: PropTypes.func.isRequired, 
  response: ImmutablePropTypes.map 
};

const OAS3_OPERATION_METHODS = 
["get", "put", "post", "delete", "options", "head", "patch"];

export default class Operations extends React.Component {

  static propTypes = {
    specSelectors: PropTypes.object.isRequired,
    specActions: PropTypes.object.isRequired,
    oas3Actions: PropTypes.object.isRequired,
    getComponent: PropTypes.func.isRequired,
    layoutSelectors: PropTypes.object.isRequired,
    layoutActions: PropTypes.object.isRequired,
    authActions: PropTypes.object.isRequired,
    authSelectors: PropTypes.object.isRequired,
    getConfigs: PropTypes.func.isRequired,
    fn: PropTypes.func.isRequired
  };

  render() {
    let {
      specSelectors,
      getComponent,
      layoutSelectors,
      layoutActions,
      getConfigs,
      fn
    } = this.props

    let taggedOps = specSelectors.taggedOperations()

    const OperationContainer = getComponent("OperationContainer", true)
    const OperationTag = getComponent("OperationTag")

    let {
      maxDisplayedTags,
    } = getConfigs()

    let filter = layoutSelectors.currentFilter()

    if (filter) {
      if (filter !== true) {
        taggedOps = fn.opsFilter(taggedOps, filter)
      }
    }

    if (maxDisplayedTags && !isNaN(maxDisplayedTags) && maxDisplayedTags >= 0) {
      taggedOps = taggedOps.slice(0, maxDisplayedTags)
    }

    return (
        <div>
          {taggedOps.map( (tagObj, tag) => {
              const operations = tagObj.get("operations")
              return (
                <OperationTag
                    key={"operation-" + tag}
                    tagObj={tagObj}
                    tag={tag}
                    layoutSelectors={layoutSelectors}
                    layoutActions={layoutActions}
                    getConfigs={getConfigs}
                    getComponent={getComponent}>
                    {operations.map( op => {
                        const path = op.get("path")
                        const method = op.get("method")
                        const specPath = Immutable.List(["paths", path, method])

                        // FIXME: (someday) this logic should probably be in a selector,
                        // but doing so would require further opening
                        // up newcomers to the plugin system, to allow for dynamic
                        // overriding of low-level selectors that other selectors
                        // rely on. --KS, 12/17
                        const validMethods = specSelectors.isOAS3() ?
                              OAS3_OPERATION_METHODS :
                              SWAGGER2_OPERATION_METHODS

                        if(validMethods.indexOf(method) === -1) {
                          return null
                        }

                        return <OperationContainer
                                   key={`${path}://${method}`}
                                   specPath={specPath}
                                   op={op}
                                   path={path}
                                   method={method}
                                   tag={tag}
                                   />
                    }).toArray()
                }

                </OperationTag>
              )
            }).toArray()
          }

          { taggedOps.size < 1 ? <h3> No operations defined in spec! </h3> : null }
        </div>
    )
  }
}

Operations.propTypes = {
  layoutActions: PropTypes.object.isRequired,
  specSelectors: PropTypes.object.isRequired,
  specActions: PropTypes.object.isRequired,
  layoutSelectors: PropTypes.object.isRequired,
  getComponent: PropTypes.func.isRequired,
  fn: PropTypes.object.isRequired
};
```

---

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PropTypes.object.isRequired,
layoutActions: PropTypes.object.isRequired,

getConfigs: function getComponent: PropTypes.func.isRequired,
children: PropTypes.element,

render() {
  const {
    tagObj,
    tag,
    children,
    layoutSelectors,
    layoutActions,
    getConfigs,
    getComponent,
  } = this.props

  let {
    docExpansion,
    deepLinking,
  } = getConfigs

  const isDeepLinkingEnabled = deepLinking &
  const isMarkdown = getConfig("Markdown").

  return {
    docExpansion !== "false"
  }

  const getConfigs =
    tagObj.getIn(["tagDetails", "description"], null)
  let tagExternalDocsDescription =
    tagObj.getIn(["tagDetails", "externalDocs", "description"], null)
  let tagExternalDocsUrl =
    tagObj.getIn(["tagDetails", "externalDocs", "url"], null)

  let {
    docExpansion === "full" || docExpansion === "list"
    return {
      <div className={showTag ? "opblock-tag-section is-open" : "opblock-tag-section"} >

        <h4
          onClick={() => layoutActions.show(isShownKey, !showTag)}
          className={!tagDescription ? "opblock-tag no-desc" : "opblock-tag" }
          id={isShownKey.map(escapeDeepLinkPath).join("-
          ")}
          data-tag={tag}
          data-is-open={showTag}
          >
          <DeepLink

            isShown={showTag}
            path={createDeepLinkPath(tag)}

            text={tag} />
          { !tagDescription ? <small></small> :
            <small>
                <Markdown

          source={tagDescription} />
              </small>
            }

            <div>
              { tagExternalDocsDescription ? null :
                <small>
                    { tagExternalDocsDescription }

{ tagExternalDocsUrl ? ": " : null }
                      { tagExternalDocsUrl ?
                        <Link

                            onClick={(e) => e.stopPropagation()}

                            href={sanitizeUrl(tagExternalDocsUrl)}

                            target="_blank"

                        >{tagExternalDocsUrl}</Link> : null
                      }
                }
            </div>

            <button
              className="expand-operation"

              title={showTag ? "Collapse operation": "Expand operation"}
              onClick={() =>
              layoutActions.show(isShownKey, !showTag)}>

              <svg className="arrow" width="20" height="20">
                <use href={showTag ? "#large-arrow-down" : "#large-arrow"} xlinkHref={showTag ? "#large-arrow-down" : "#large-arrow"} />
              </svg>
            </button>
        </h4>

        <Collapse
          isOpened={showTag}>
          {children}
        </Collapse>
      </div>
    }
let responses = operation.get("responses")
let parameters = getList(operation, ["parameters"])
let operationScheme = specSelectors.operationScheme(path, method)
let isShownKey = ["operations", tag, operationId]
let extensions = getExtensions(operation)
const Responses = getComponent("responses")
const Parameters = getComponent("parameters")
const Execute = getComponent("execute")
const Clear = getComponent("clear")
const Collapse = getComponent("Collapse")
const Markdown = getComponent("Markdown", true)
const Schemes = getComponent("schemes")
const OperationServers = getComponent("OperationServers")
const OperationExt = getComponent("OperationExt")
const OperationSummary = getComponent("OperationSummary")
const Link = getComponent("Link")

const { showExtensions } = getConfigs()

// Merge in Live Response
if (responses && response && response.size > 0) {
  let notDocumented = !responses.get(String(response.get("status")))
  response.set("notDocumented", notDocumented)
}

let onChangeKey = [ path, method ] // Used to add values to _this_ operation ( indexed by path and method )

return (<

  <div className={deprecated ? "opblock opblock-deprecated" : isShown ? `opblock opblock-${method} is-open` : `opblock opblock-${method}">
    <OperationSummary operationProps={operationProps}
      toggleShown={toggleShown}
      getComponent={getComponent}
      authActions={authActions}
      authSelectors={authSelectors}
      specPath={specPath} />
    
    { deprecated && <h4 className="opblock-title_normal"> Warning: Deprecated </h4> }

    { description &&
      <div className="opblock-description-wrapper">
        <div className="opblock-description">
          <Markdown source={description} />
        </div>
      </div>
    }

    { externalDocs && externalDocs.url ?
      <div className="opblock-external-docs-wrapper">
        <h4 className="opblock-title_normal"> Find more details </h4>
        <div className="opblock-external-docs">
          <span className="opblock-external-docs__description">
            <Markdown source={externalDocs.description} />
          </span>
          <Link target="_blank" className="opblock-external-docs__link" href={sanitizeUrl(externalDocs.url)}>{externalDocs.url}</Link>
        </div>
      </div> : null
    }

    { !operation || !operation.size ? null :
      <Parameters
        parameters={parameters}
        specPath={specPath.push("parameters")}
        operation={operation}
        onChangeKey={onChangeKey}
        onTryoutClick = { onTryoutClick }
        onCancelClick = { onCancelClick }
        fn={fn}
        getComponent={getComponent}
        specActions={specActions}
        specSelectors={specSelectors}
        pathMethod= [ path, method ]
        getConfigs= { getConfigs }
        oas3Actions= { oas3Actions }
        oas3Selectors= { oas3Selectors }
        pathServers={specSelectors.paths().getIn([path, "servers"])}
        getSelectedServer= { oas3Selectors.selectedServer }
        setServerVariableValue={oas3Actions.setServerVariableValue}
        getServerVariable= { oas3Selectors.serverVariable }
        getEffectiveServerValue= { oas3Selectors.serverEffectiveValue } }

      <div className="opblock-schemes">
        <Schemes schemes={schemes}
          path={path}
          method={method}
          specActions={specActions}
          specSelectors={specSelectors}
          pathMethod= [ path, method ]
          getConfigs= { getConfigs }
          oas3Actions= { oas3Actions }
          oas3Selectors= { oas3Selectors } }

      <div className="opblock-schemes">

    </div> : null
  </div>

</div>
```javascript
"react" npm import PropTypes from "prop-types" npm import { Iterable } from "immutable" npm import {
createDeepLinkPath } from "core/util" npm import ImPropTypes from "react-immutable-proptypes" unexport
default class OperationSummaryPath extends PureComponent {
  static propTypes = {
    specPath:
      ImPropTypes.list.isRequired,
    operationProps:
      PropTypes.instanceOf(Iterable).isRequired,
    getComponent:
      PropTypes.func.isRequired,
  }
  onCopyCapture = (e) => {
    // strips injected zero-width spaces ("\u200b")
    e.preventDefault()
  }

  render(){
    let {
      getComponent,
      operationProps,
    } = this.props

    const DeepLink = getComponent( "DeepLink" )
    return <span className={
      isDeepLinkingEnabled ? "opblock-summary-path__deprecated" : "opblock-summary-path" }
      onCopyCapture={this.onCopyCapture}
        data-path={path} >
        <DeepLink
            enabled={isDeepLinkingEnabled}
            path={createDeepLinkPath(`${tag}/${operationId}`)}
            text={path.replace(/\//g, "\u200b/")) } />
    </span>
  }
}

export default class OperationSummaryPath extends PureComponent{

  static propTypes = {
    specPath:
      ImPropTypes.list.isRequired,
    operationProps: PropTypes.instanceOf(Iterable).isRequired,
    getComponent:
      PropTypes.func.isRequired,
  }

  onCopyCapture = (e) => {
    // strips injected zero-width spaces (`\u200b`)
    e.preventDefault()
  }

  render(){
    let {
      getComponent,
      operationProps,
    } = this.props

    const DeepLink = getComponent( "DeepLink" )
    return (<span className={
      isDeepLinkingEnabled ? "opblock-summary-path__deprecated" : "opblock-summary-path" }
      onCopyCapture={this.onCopyCapture}
        data-path={path} >
        <DeepLink
            enabled={isDeepLinkingEnabled}
            path={createDeepLinkPath(`${tag}/${operationId}`)}
            text={path.replace(/\//g, "\u200b/")) } />
    </span>
  }
}

export default function OperationExt({ extensions, getComponent }) {
    let OperationExtRow = getComponent("OperationExtRow")
    return (<
        <div className="opblock-section">
          <div
            className="opblock-section-header">
            <h4>Extensions</h4>
          </div>
          <div className="table-container">

            <table>
              <thead>
                <tr>
                  <td className="col_header">Field</td>
                  <td className="col_header">Value</td>
                </tr>
              </thead>
              <tbody>
              {
                  extensions.entrySeq().map(([, v]) => <OperationExtRow
                    key=[$tag]/$operationId) }
                </tbody>
              </table>
          </div>
        </
    )
}

export function OperationExtRow ({ xKey, xVal }) {
  const xNormalizedValue = !xVal
    ? null : xVal.toJS
      ? xVal.toJS(): xVal.toString
    return (<tr>
        <td>{ xKey }</td>
        <td>{ JSON.stringify(xNormalizedValue) }</td>
    </tr>)
}

export default function createElement({ node, stylesheet, useInlineStyles }) {
    var properties = node.properties,
        type = node.type,
        TagName = node.tagName,
        value = node.value;

    if (type === 'text') {
        return value;
    } else if (TagName) {
        var childrenCreator = createChildren(stylesheet, useInlineStyles);
        returns Nhận function createChildren(stylesheet, useInlineStyles) {
    var childrenCount = 0;
        return childrenCreator(node.children);
    }

    return createElement({
    node: child, stylesheet: stylesheet
}
        useInlineStyles: useInlineStyles,
        key: '"code-segment".concat(childCount, ",".concat(i))
    });
}
```

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import json from "react-syntax-highlighter/dist/cjs/languages/hljs/json"
import xml from "react-syntax-highlighter/dist/cjs/languages/hljs/xml"
import bash from "react-syntax-highlighter/dist/cjs/languages/hljs/bash"
import yaml from "react-syntax-highlighter/dist/cjs/languages/hljs/yaml"
import http from "react-syntax-highlighter/dist/cjs/languages/hljs/http"

import agate from "react-syntax-highlighter/dist/cjs/styles/hljs/agate"
import arta from "react-syntax-highlighter/dist/cjs/styles/hljs/arta"
import monokai from "react-syntax-highlighter/dist/cjs/styles/hljs/monokai"
import nord from "react-syntax-highlighter/dist/cjs/styles/hljs/nord"
import obsidian from "react-syntax-highlighter/dist/cjs/styles/hljs/obsidian"
import tomorrowNight from "react-syntax-highlighter/dist/cjs/styles/hljs/tomorrow-night"

SyntaxHighlighter.registerLanguage("json", json)
SyntaxHighlighter.registerLanguage("js", js)
SyntaxHighlighter.registerLanguage("xml", xml)

const styles = {agate, arta, monokai, nord, obsidian, "tomorrow-night": tomorrowNight}
export const availableStyles = Object.keys(styles)

export const getStyle = name => {
    if (!availableStyles.includes(name)) {
        console.warn(`Request style '${name}' is not available, returning default instead`)
        return agate
    }
    return styles[name]
}

export {SyntaxHighlighter, getStyle}

import React, { Component } from "react"
import PropTypes from "prop-types"
import {SyntaxHighlighter, getStyle} from "core/syntax-highlighting"
import get from "lodash/get"
import saveAs from "js-file-download"
import { CopyToClipboard } from "react-copy-to-clipboard"

export default class HighlightCode extends Component {
  static propTypes = {
    value: PropTypes.string.isRequired,
    getConfigs: PropTypes.func.isRequired,
    className: PropTypes.string,
    downloadable: PropTypes.bool,
    fileName: PropTypes.string,
    canCopy: PropTypes.bool
  }

  downloadText = () => {
    saveAs(this.props.value, this.props.fileName || "response.txt")
  }

  preventYScrollingBeyondElement = (e) => {
      const target = e.target
      var deltaY = e.nativeEvent.deltaY
      var contentHeight = target.scrollHeight
      var visibleHeight = target.offsetHeight
      var scrollTop = target.scrollTop

      const scrollOffset = visibleHeight + scrollTop
      const isElementScrollable = contentHeight > visibleHeight
      const isScrollingPastTop = scrollTop === 0 && deltaY < 0
      const isScrollingPastBottom = scrollOffset >= contentHeight && deltaY > 0

      if (isElementScrollable && isScrollingPastTop || isScrollingPastBottom) {
        e.preventDefault()
      }
  }

  render () {
    let { value, className, downloadable, getConfigs, canCopy } = this.props

    const config = getConfigs ? getConfigs() : {syntaxHighlight: {activated: true, theme: "agate"}}

    const codeBlock = get(config, "syntaxHighlight.activated")
      ? <SyntaxHighlighter
          className={className + " microlight"}
          onWheel={this.preventYScrollingBeyondElement}
          style={getStyle(get(config, "syntaxHighlight.theme"))}
          >
          {value}
        </SyntaxHighlighter>
      : <pre onWheel={this.preventYScrollingBeyondElement} className={className + " microlight"}>{value}</pre>

    return (<div className="highlight-code">
      { !downloadable ? null :
        <div className="download-contents" onClick={this.downloadText}>
          Download
        </div>
      }

      { !canCopy ? null :
        <div className="copy-to-clipboard">
          <CopyToClipboard text={value}><button/></CopyToClipboard>
        </div>
      }

      { codeBlock }
    </div>)
  }
}

import React from "react"
import { fromJS, Iterable } from "immutable"
import PropTypes from "prop-types"
import ImPropTypes from "react-immutable-proptypes"
import { defaultStatusCode, getAcceptControllingResponse } from "core/utils"

export default class Responses extends React.Component {
  static propTypes = {
    tryItOutResponse: PropTypes.instanceOf(Iterable),
    responses: PropTypes.instanceOf(Iterable).isRequired,
    produces: PropTypes.instanceOf(Iterable),
    producesValue: PropTypes.any,
    displayRequestDuration: PropTypes.bool.isRequired,
    path: PropTypes.string.isRequired,
    method: PropTypes.string.isRequired,
    getComponent: PropTypes.func.isRequired,
    getConfigs: PropTypes.func.isRequired,
    className: PropTypes.string,
    downloadable: PropTypes.bool,
    fileName: PropTypes.string,
    canCopy: PropTypes.bool,
    honorAcceptHeader: PropTypes.bool,
    encoding: PropTypes.string,
    responseType: PropTypes.string,
    requestBody: PropTypes.any,
    url: PropTypes.string
  }

  render () {
    let { tryItOutResponse, responses, produces, producesValue, displayRequestDuration, path, getComponent, getConfigs, className, downloadable, canCopy, honorAcceptHeader, encoding, responseType, requestBody, url } = this.props

    // Render the responses

    return (<div className="responses">
      { !displayRequestDuration ? null :
        <div className="response-duration">
          Response Duration: {displayRequestDuration}ms
        </div>
      }

      { !canCopy ? null :
        <div className="copy-to-clipboard">
          <CopyToClipboard text={value}><button/></CopyToClipboard>
        </div>
      }

      { renderResponses() }
    </div>)
  }

  renderResponses = () => {
    let { tryItOutResponse, responses, produces, producesValue, path, method, getComponent, getConfigs, className, downloadable, canCopy, honorAcceptHeader, encoding, responseType, requestBody, url } = this.props

    return responses.map(response => {
      let { statusCode, headers, body } = response

      // Render the response

      return (<div className="response">
        <div className="response-status-code">
          {statusCode}
        </div>

        {Produces ? null :
          <div className="produces">
            Produces:
          </div>
        }

        {ProducesValue ? null :
          <div className="produces-value">
            Acceptable Content:
          </div>
        }

        {Encoding ? null :
          <div className="encoding">
            Encoding:
          </div>
        }

        {ResponseBody ? null :
          <div className="response-body">
            Body:
          </div>
        }

        {RequestBody ? null :
          <div className="request-body">
            Request Body:
          </div>
        }

        {url ? null :
          <div className="url">
            URL:
          </div>
        }

        {renderResponseBody()}
      </div>)
    })
  }

  renderResponseBody = () => {
    let { tryItOutResponse, responses, produces, producesValue, path, method, getComponent, getConfigs, className, downloadable, canCopy, honorAcceptHeader, encoding, responseType, requestBody, url } = this.props

    return body
  }
}

// Make sure to export the component
export { RESPONSES, HiResResponses, fetchContext } from "core/responses"
from '\react\nimport PropTypes from '\prop-types\nimport ImPropTypes from '\react-immutable-prop-types\nimport cx from '\classnames\nimport { fromJS, Seq, Iterate, List, Map } from '\immutable\nimport { getSampleSchema, fromJSOrdered, stringify } from '\core\utils\n
const getExampleComponent = (sampleResponse, HighlightCode, getConfigs) => {
  if (sampleResponse !== undefined && sampleResponse !== null) {
    return <div>
      <HighlightCode className="example"
        getConfigs={getConfigs}
        value={stringify(sampleResponse)} />
    </div>
  }
  return null
}

export default class Response extends React.Component {
  constructor(props, context) {
    super(props, context)

    this.state = {
      responseContentType: '',
    }
  }

  static propTypes = {
    path: PropTypes.string.isRequired,
    method: PropTypes.string.isRequired,
    code: PropTypes.string.isRequired,
    response: PropTypes.instanceOf(Iterable),
    className: PropTypes.string,
    getComponent: PropTypes.func.isRequired,
    getConfigs: PropTypes.func.isRequired,
    specSelectors: PropTypes.object.isRequired,
    oas3Actions: PropTypes.object.isRequired,
    specPath: ImPropTypes.list.isRequired,
    fn: PropTypes.object.isRequired,
    contentType: PropTypes.string,
    activeExamplesKey: PropTypes.string,
    controlsAcceptHeader: PropTypes.bool,
    onContentTypeChange: PropTypes.func,
    inferSchema: PropTypes.func,
    isOAS3: PropTypes.bool,
  }

  static defaultProps = {
    response: fromJS({}),
    onContentTypeChange: () => {},
  }

  _onContentTypeChange = (value) => {
    const { onContentTypeChange, controlsAcceptHeader } = this.props
    this.setState({ responseContentType: value })
    onContentTypeChange({
      value: value,
      controlsAcceptHeader
    })
  }

  getTargetExamplesKey = () => {
    const { response, contentType, activeExamplesKey } = this.props
    const activeContentType = this.state.responseContentType || contentType
    const activeMediaType = response.getIn(['content', activeContentType], Map({})).get('examples', null)

    const firstExamplesKey = activeMediaType.keySeq().first()
    return activeExamplesKey || firstExamplesKey
  }

  render() {
    let {
      path,
      method,
      code,
      response,
      className,
      specPath,
      fn,
      getComponent,
      getConfigs,
      specSelectors,
      contentType,
      controlsAcceptHeader,
      oas3Actions,
    } = this.props

    let { inferSchema } = fn
    let isOAS3 = specSelectors.isOAS3()

    let
      headers = response.get('headers')
    let links = response.get('links')
    const Headers = getComponent('headers')
    const HighlightCode = getComponent('highlightCode')
    const ModelExample = getComponent('modelExample')
    const Markdown = getComponent('Markdown', true)
    const OperationLink = getComponent('operationLink')
    const ContentType = getComponent('contentType')

    const ExamplesSelect = getComponent('ExamplesSelect')
    const Example = getComponent('Example')

    var sampleResponse
    var schema, specPathWithPossibleSchema

    const activeContentType = this.state.responseContentType || contentType
    const activeMediaType = response.getIn(['content', activeContentType], Map({})).get('examples', null)

    // Goal: find a schema value for `schema`
    if(isOAS3) {
      const oas3SchemaForContentType = activeMediaType.getIn(['schema', this.state.responseContentType], Map({})).get('examples', null)
    }

    if(examplesForMediaType) {
      const targetExamplesKey = this.getTargetExamplesKey()
      const targetExample = examplesForMediaType.get(targetExamplesKey, Map({})).get('value')
      sampleResponse = stringify(targetExample)
    } else if(activeMediaType.get('example') !== undefined) {
      // use the example key's value
      sampleResponse = stringify(activeMediaType.get('value')
    } else if(inferSchema) {
      // use an example value generated based on the schema
      sampleResponse = getSampleSchema(activeMediaType.getIn(['examples', activeContentType]), this.state.responseContentType, true, () => { return un
      } else {
        sampleResponse = undefined
      }
    }
  }
}
```jsx
import React from "react"
import PropTypes from "prop-types"
import formatXml from "xml-butt-
prettier"
import toLower from "lodash/toLower"
import { extractFileNameFromContentDispositionHeader }
from "core/utils"
import win from "core/window"

export default class ResponseBody extends
  React.PureComponent {
    state = {
      parsedContent: null
    }

    static propTypes = {
      content: PropTypes.any.isRequired,
      contentType: PropTypes.string,
      getConfigs: PropTypes.func.isRequired,
      getComponent: PropTypes.func.isRequired,
      headers: PropTypes.object,
      url: PropTypes.string
    }

    updateParsedContent = (prevContent) => {
      const { content } = this.props

      if(prevContent === content) {
        return
      }

      if(content && content instanceof Blob) {
        var reader = new FileReader()
        reader.onload = () => {
          this.setState({
            parsedContent: reader.result
          })
        }
        reader.readAsText(content)
      } else {
        this.setState({
          parsedContent: content.toString()
        })
      }
    }

    componentDidMount() {
      this.updateParsedContent(null)
    }

    componentDidUpdate(prevProps) {
      this.updateParsedContent(prevProps.content)
    }

    render() {
      let { content, contentType, url, headers={}, getConfigs, getComponent } = this.props
      const { parsedContent } = this.state
      const HighlightCode = getComponent("highlightCode")
      const downloadName = "response_" + new Date().getTime()
      let body,
        bodyEl
      url = url || ""

      if (!/^application\/^test(contentType) ||
      (headers["Content-
        Disposition"]
          && headers["Content-
          Disposition"]/test("attachment\:"))) {
        body = (parsedContent
          ? (<pre>
              {parsedContent}
            </pre>)
          :
            """
          )
      }

      return (<
        tr className={ "response " + ( className || "") } data-code={code}>
          <td className="response-
            col_status">
            { code }
          </td>
          <td className="response-col_description">

            <div
              className="response-col_description__inner">
              <Markdown source={ response.get( "description" ) }

            />
          </div>

          {isOAS3 && response.get("content") ? (
            <section className="response-
                controls">
              <div
                className={cx("response-control-media-type", {
                  "response-
                    control-media-type--accept-controller": controlsAcceptHeader
                })}
              >
                <small
                  className="response-control-media-type__title">
                  Media type
                </small>

                <ContentType
                  value={this.state.responseContentType}
                  contentTypes={
                    response.get("content")
                        ? response.get("content").keySeq()
                        : Seq()
                  }

                onChange={this._onContentTypeChange}
              >
                {controlsAcceptHeader ? (
                  <small className="response-control-media-type__accept-message">
                    Controls
                  </small>
                ) : null}
              </div>

              <ExamplesSelect
                examples={examplesForMediaType}
                currentExampleKey={this.getTargetExamplesKey()}

                showLabels={false}
              >
                {examplesForMediaType ? (
                  <div className="response-control-examples">
                    <small
                      className="response-control-examples__title">
                      Examples
                    </small>

                    <ExamplesSelect
                      examples={examplesForMediaType}
                      currentExampleKey={this.getTargetExamplesKey()}
                      onSelect={key =>
                        oas3Actions.setActiveExamplesMember({
                            name: key,
                            pathMethod: [path,
                              method],
                            contextType: "responses",
                            contextName: code
                          })
                      }
                      showLabels={false}
                    >
                  </div>
                ) : null}
              </div>
            </section>
          )

          { example || schema ? (
            <ModelExample
              specPath={specPathWithPossibleSchema}
              getComponent={ getComponent }
              getConfigs={
                getConfigs
                  ? specSelectors
                  : { fromJSOrdered(schema) }
              }

              example={ example }
              includeReadOnly={ true }/>
          ) : null }

          { isOAS3 
            && examplesForMediaType ? (
              <Example
                example={examplesForMediaType.get(this.getTargetExamplesKey(), Map({}))}

                getComponent={getComponent}
                omitValue={true}
              >
            ) : null}

          { headers ?
            (<
             Headers
             headers={ headers }
             getComponent={ getComponent }
             >
              { headers }
            )
            :
              null}

        </td>
        {isOAS3 ? (<
          td className="response-col_links">
            { links ?
              links.toSeq().map((link, key) => { return <OperationLink key={key} name={key} link={ link }
                getComponent={getComponent}>
                  {link}
                </
              )})
            :
              """
          ) : null}
        </td> : null}
      </tr>
    )
  }
}
```

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<div>
  <h5>Response body</h5>
  <div>
    <HighlightCode downloadable fileName="params.txt" value={ JSON.stringify(tryItOut) } getConfigs={ getConfigs } canCopy />
  </div>
</div>

```jsx
import React, {
  Component }
import PropTypes from "prop-types"
import Im, { Map, List } from "immutable"
import ImPropTypes from "react-immutable-proptypes"

// More readable, just iterate over maps, only
const eachMap = (iterable, fn) => iterable.valueSeq().filter(Im.Map.isMap).map(fn)

export default class Parameters extends Component {

  constructor(props) {
    super(props)
    this.state = {
      callbackVisible: false,
      parametersVisible: true
    }
  }

  static propTypes = {
    parameters: ImPropTypes.list.isRequired,
    operation: PropTypes.object.isRequired,
    specActions: PropTypes.object.isRequired,
    getComponent: PropTypes.func.isRequired,
    specSelectors: PropTypes.object.isRequired,
    oas3Actions: PropTypes.object.isRequired,
    oas3Selectors: PropTypes.object.isRequired,
    fn: PropTypes.object.isRequired,
    tryItOutEnabled: PropTypes.bool,
    allowTryItOut: PropTypes.bool,
    onTryoutClick: PropTypes.func,
    onCancelClick: PropTypes.func
  }

  render() {
    // We were able to squeeze something out of content
    // in `updateParsedContent`, so let's display it
    let bodyEl = <div>
      Unrecognized response type; displaying content as text.
    </div>
    <HighlightCode downloadable fileName="params.txt" value={ JSON.stringify(tryItOut) } getConfigs={ getConfigs } canCopy />
    // We don't know the contentType, but there was some content returned
    if(parsedContent) {
      // We were able to squeeze something out of content
      // in `updateParsedContent`, so let's display it
      bodyEl = <div>
        Unrecognized response type; displaying content as text.
      </div>
      <HighlightCode downloadable fileName="params.txt" value={ parsedContent } getConfigs={ getConfigs } canCopy />
    } else if (typeof content === "string") {
      // We don't know the contentType and there was no content returned
      bodyEl = null
    } else {
      // We don't know the contentType and there was no content returned
      bodyEl = null
    }

    return ( !bodyEl ?
      null : <div>
        <h5>Response body</h5>
        { bodyEl }
      </div>
    )
  }
```
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```javascript
function onOpenServerChange(value, path) {
  return oas3Actions.setRequestContentTypes({ value, pathMethod })
}
```

```javascript
function onChangeIncludeEmpty(name, value) {
  oas3Actions.setRequestBodyIncludeOption({
    pathMethod,
    value,
    name,
  })
}
```

```javascript
<RequestBody
  specPath={specPath.slice(0, -1).push("requestBody")}
  requestBody={requestBody}
  requestBodyValue={oas3Selectors.requestBodyValue(...pathMethod)}
  requestBodyInclusionSetting={oas3Selectors.requestBodyIncludeOption(...pathMethod)}
  requestBodyErrors={oas3Selectors.requestBodyErrors(...pathMethod)}
  isExecute={isExecute}
  activeExamplesMember={
    key => {
      const lastValue = oas3Actions.lastRequestBodyValue(document.body, pathMethod)
      const usableValue = Map.isMap(lastValue) ? lastValue : Map()
      return oas3Actions.setRequestBodyValue({
        pathMethod,
        value: usableValue.setIn(path, value)
      })
    }
  }
  onChange={(value, path) => {
    if(path) {
      const lastValue = oas3Actions.lastRequestBodyValue(document.body, pathMethod)
      const usableValue = Map.isMap(lastValue) ? lastValue : Map()
      return oas3Actions.setRequestBodyValue({
        pathMethod,
        value: usableValue.setIn(path, value)
      })
    }
    oas3Actions.setRequestContentTypes({ value, pathMethod })
  }}
  onChangeIncludeEmpty={(name, value) => {
    oas3Actions.setRequestBodyIncludeOption({
      pathMethod,
      value,
      name,
    })
  }}
  onChangeConsumer={onChangeConsumes} />
</div>
</div>
```

```javascript
class ParameterIncludeEmpty extends Component {
  static propTypes = ParameterIncludeEmptyPropTypes
  static defaultProps = ParameterIncludeEmptyDefaultProps

  constructor(props) {
    super(props)
    this.state = {
      includesOptions: this.getDefaultIncludesOptions(),
      value: false,
    }
  }

  componentDidMount() {
    const { onChange } = this.props
    onChange(false)
  }

  onChange = e => {
    const { onChange } = this.props
    onChange(!this.state.value)
  }

  render() {
    return (<
      label
        className={cx("parameter__empty_value_toggle", {
          "disabled": this.props.isDisabled
        })}>
        <input
          type="checkbox"
          checked={!this.props.isDisabled && this.state.value}
          onChange={this.onChange} />
        Send empty value
      </label>)
  }
}
```

```javascript
class ParameterRow extends Component {
  static propTypes = {
    onChange: PropTypes.func.isRequired,
    param: PropTypes.object.isRequired,
    rawParam: PropTypes.object.isRequired,
    getComponent: PropTypes.func.isRequired,
    fn: PropTypes.object.isRequired,
    isExecute: PropTypes.bool,
    onChangeConsumes: PropTypes.func.isRequired,
    specSelectors: PropTypes.object.isRequired,
    specActions: PropTypes.object.isRequired,
    pathMethod: PropTypes.array.isRequired,
    getConfigs:
```
PropTypes.func.isRequired,
    specPath: ImPropTypes.list.isRequired,
    oas3Actions:
PropTypes.object.isRequired,
    oas3Selectors: PropTypes.object.isRequired,
  }:

  constructor(props, context)
  {
    super(props, context)

    this.setDefaultValue()
  }

  componentWillReceiveProps(props) {
    let { specSelectors, pathMethod, rawParam } = props
    let isOAS3 = specSelectors.isOAS3()

    let parameterWithMeta = specSelectors.parameterWithMetaByIdentity(pathMethod, rawParam) || new Map() // fallback, if the meta lookup fails
    parameterWithMeta = parameterWithMeta || new Map()

    let paramValue = parameterWithMeta.get("value")
    let paramSelector = parameterWithMeta.get("selector")
    let paramType = parameterWithMeta.get("type")
    let parameterMediaType = parameterWithMeta.get("content")
    let parameterName = parameterWithMeta.get("name")
    let parameterIn = parameterWithMeta.get("in")

    let initialValue = undefined
    let isSyntheticChange = false

    if(initialValue !== undefined && !isSyntheticChange) {
      if(paramValue !== undefined) {
        initialValue = paramValue
      } else {
        initialValue = getSampleSchema(schema.toJS(), parameterMediaType, { includeWriteOnly: true })
      }
    }

    if(initialValue !== undefined) {
      this.onChangeWrapper(initialValue)
    } else if(isOAS3) {
      initialValue = getSampleSchema(schema.toJS(), parameterMediaType, { includeWriteOnly: true })
      this.onChangeWrapper(initialValue)
    }

    if(!isSyntheticChange) {
      this.setDefaultValue()
    }

    if(paramValue !== undefined) {
      this.onChangeWrapper(paramValue)
    }

    if(specSelector.isOAS3) {
      return
    }

    if(specSelector.isSwagger2) {
      initialValue = paramWithMeta.get("x-example") || paramWithMeta.getIn(["schema", "example"]) || (schema && schema.getIn(["default"], undefined))
    } else if(specSelector.isOAS3) {
      initialValue = paramWithMeta.getIn(["schema", "default"]) || paramWithMeta.get("default")
    }

    return initialValue
  }

  onChangeWrapper = (value, isXml = false) => {
    let { onChange, rawParam } = this.props
    let valueForUpstream

    // Coerce empty strings and empty
    if(value === "" || (value && value.size === 0)) {
      valueForUpstream = null
    } else {
      valueForUpstream = value
    }

    return onChange(rawParam, valueForUpstream, isXml)
  }

  _onExampleSelect = (key, /* { isSyntheticChange } = {} */) => {
    this.props.oas3Actions.setActiveExamplesMember({
      name: key,
      pathMethod: this.props.pathMethod,
      contextType: "parameters",
      contextName: this.getParamKey()
    })
  }

  onChangeIncludeEmpty = (newValue) => {
    let { specActions, param, pathMethod } = this.props
    const paramName = param.get("name")
    const paramIn = param.get("in")
    return specActions.updateEmptyParamInclusion(pathMethod, paramName, paramIn, newValue)
  }

  setDefaultValue = () => {
    let { specSelectors, pathMethod, rawParam, oas3Selectors } = this.props

    const paramWithMeta = specSelectors.parameterWithMetaByIdentity(pathMethod, rawParam) || Map()
    const { schema } = getParameterSchema(paramWithMeta, { isOAS3: specSelectors.isOAS3() })
    const parameterMediaType = paramWithMeta.get("content")
    const keySeq = keySeq
    const first = first
    const generateSampleSchema = () => {
      const generatedSampleValue = schema ? getSampleSchema(schema.toJS(), parameterMediaType, { includeWriteOnly: true }) : null
      const initialValue = paramWithMeta.get("value")
      return initialValue
    }

    if(initialValue !== undefined) {
      this.onChangeWrapper(initialValue)
    } else if(isOAS3) {
      initialValue = paramWithMeta.getIn(["schema", "default"]) || paramWithMeta.get("default")
    }

    this.setDefaultValue()
  }

  getParamKey() {
    const { param } = this.props
    if(!param) return null

    return `${param.get("name")}-${param.get("in")}`
  }

  render()
let { param, rawParam, getComponent, isExecute, fn, onChangeConsumes, consumes, specSelectors, pathMethod, specPath, oas3Selectors } = this.props

let isOAS3 = specSelectors.isOAS3()

const { showExtensions, showCommonExtensions } = getComponent()

if (param) {
  param = rawParam
}

if (!rawParam) return null

const JsonSchemaForm = getComponent("JsonSchemaForm")
const ParamBody = getComponent("ParamBody")

let inType = param.get("in")
let bodyParam = inType !== "body" ? null : <ParamBody
  getComponent={getComponent}
  getConfigs={ getConfigs }
  fn={fn}
  param={param}
  consumes={ specSelectors.consumesOptionsFor(pathMethod) }
  consumesValue={ specSelectors.contentTypeValues(pathMethod).get("requestContentType") }
  onChange={this.onChangeWrapper}
  onChangeConsumes={onChangeConsumes}
  isExecute={ isExecute }
  specSelectors={ specSelectors }
  pathMethod={ pathMethod }
/>

const ModelExample = getComponent("modelExample")
const Markdown = getComponent("Markdown", true)
const ParameterExt = getComponent("ParameterExt")
const ParameterIncludeEmpty = getComponent("ParameterIncludeEmpty")
const ExamplesSelectValueRetainer = getComponent("ExamplesSelectValueRetainer")
const Example = getComponent("Example")

let {
  schema
} = getParameterSchema(param, { isOAS3 })

let paramWithMeta = specSelectors.parameterWithMetaByIdentity(pathMethod, rawParam) || Map()

let format = schema ? schema.get("format") : null
let type = schema ? schema.get("type") : null
let itemType = schema ? schema.getIn(["items", "type"]) : null

let isFormData = inType === "formData"
let isFormDataSupported = "FormData" in win
let required = param.get("required")

let value = paramWithMeta ? paramWithMeta.get("value") : ""
let commonExt = showCommonExtensions ? getCommonExtensions(schema) : null
let extensions = showExtensions ? getExtensions(param) : null

let paramItems // undefined
let paramEnum // undefined
let paramDefaultValue // undefined
let paramExample // undefined

if (param !== undefined && schema) {
  paramItems = schema.get("items")
}

if (paramItems !== undefined) {
  paramEnum = paramItems.get("enum")
  paramDefaultValue = paramItems.get("default")
}

if (paramEnum && paramEnum.size && paramEnum.size > 0) {
  isDisplayParamEnum = true
}

// Default and Example Value for readonly doc
if (param !== undefined) {
  if (schema) {
    paramDefaultValue = schema.get("default")
  }
  if (paramDefaultValue === undefined) {
    paramDefaultValue = param.get("default")
  }

  paramExample = param.get("example")
}

if (paramExample === undefined) {
  paramExample = param.get("x-example")
}

return (<tr data-param-name={param.get("name")} data-param-in={param.get("in")}>
  <td className="parameters-col_name">
    <div className={required ? "parameter__name required" : "parameter__name"}>
      { param.get("name") }
      { !required ? null : <span>&nbsp;*</span> }
    </div>
    <div className="parameter__type">
      { type }
      { itemType && `[${itemType}]` }
      { format && <span className="prop-format">(${format})</span> }
    </div>
    <div className="parameter__deprecated">
      { isOAS3 && param.get("deprecated") ? "deprecated": null }
    </div>
    <div className="parameter__in">({ param.get("in") })</div>
    { !showCommonExtensions || !commonExt.size ? null : commonExt.entrySeq().map(([key, v]) => <ParameterExt key={`${key}-${v}`} xKey={key} xVal={v} />) }
    { !showExtensions || !extensions.size ? null : extensions.map((v, key) => <ParameterExt key={`${key}-${v}`} xKey={key} xVal={v} />) }
  </td>

  <td className="parameters-col_description">
    { param.get("description") ? <Markdown source={ param.get("description") }/> : null }

    { (bodyParam || !isExecute) && isDisplayParamEnum ?
      <Markdown className="parameter__enum" source={
        "<i>Available values</i> : " + paramEnum.map(function(item) {
                    return item
                  })
                  .toArray().join(", "") }"/>
    : null }

    { (bodyParam || !isExecute) && paramDefaultValue !== undefined ?
      <Markdown className="parameter__default" source={"<i>Default value</i> : " + paramDefaultValue}/>
    : null }

    { (bodyParam || !isExecute) && paramExample !== undefined ?
      <Markdown className="parameter__example" source={paramExample}/>
    : null }

  </td>
</tr>);
specActions.clearValidateParams([path, method])
    setTimeout(() => {
      specActions.validateParams([path, method])
    }, 40)
  }

  handleValidationResult = (isPass) => {
    if (isPass) {
      this.handleValidationResultPass()
    } else {
      this.handleValidationResultFail()
    }
  }

  onClick = () => {
    let paramsResult = this.handleValidateParameters()
    let requestBodyResult = this.handleValidateRequestBody()
    let isPass = paramsResult && requestBodyResult
    this.handleValidationResult(isPass)
  }

  onChangeProducesWrapper = (val) => {
    this.props.specActions.changeProducesValue([this.props.path, this.props.method], val)
  }

export default class Headers extends React.Component {
  static propTypes = {
    headers: PropTypes.object.isRequired,
    getComponent: PropTypes.func.isRequired
  }

  render() {
    let { headers, getComponent } = this.props

    const Property = getComponent("Property")
    const Markdown = getComponent("Markdown", true)

    if (!headers || !headers.size) {
      return null
    }

    return (
      <div className="headers-wrapper">
        <h4 className="headers__title">Headers:</h4>
        <table className="headers">
          <thead>
            <tr className="header-row">
              <th className="header-col">Name</th>
              <th className="header-col">Description</th>
              <th className="header-col">Type</th>
            </tr>
          </thead>
          <tbody>
            {headers.entrySeq().map(([key, header]) => {
              if (!Im.Map.isMap(header)) {
                return null
              }

              const description = header.get("description")
              const type = header.getIn(["schema", "type"])
              const schemaExample = header.getIn(["schema", "example"])

              return (<tr key={key}>
                <td className="header-col">{key}</td>
                <td className="header-col">{ !description ? null : <Markdown source={description} /> }</td>
                <td className="header-col">{type} {schemaExample ? <Property propKey="Example" propVal={schemaExample} propClass={propClass} /> : null}</td>
              </tr>)
            }).toArray()}
          </tbody>
        </table>
      </div>
    )
  }
}

import React from "react"
import PropTypes from "prop-types"
import { List } from "immutable"

export default class Errors extends React.Component {
  static propTypes = {
    editorActions: PropTypes.object,
    errSelectors: PropTypes.object.isRequired,
    layoutSelectors: PropTypes.object.isRequired,
    layoutActions: PropTypes.object.isRequired,
    getComponent: PropTypes.func.isRequired
  }

  render() {
    let { editorActions, errSelectors, layoutSelectors, layoutActions, getComponent } = this.props

    const Collapse = getComponent("Collapse")

    if (editorActions && editorActions.jumpToLine) {
      var jumpToLine = editorActions.jumpToLine
    }

    let errors = errSelectors.allErrors()

    // all thrown errors, plus error-level everything else
    let allErrorsToDisplay = errors.filter(err => err.get("type") === "thrown" ? true : err.get("level") === "error")

    if (!allErrorsToDisplay || allErrorsToDisplay.count() < 1) {
      return null
    }

    let isVisible = layoutSelectors.isShown(["errorPane"], true)
    let toggleVisibility = () => layoutActions.show(["errorPane"], !isVisible)

    let sortedJSErrors = allErrorsToDisplay.sortBy(err => err.get("line"))

    return (
      <pre className="errors-wrapper">
        <hgroup className="error">
          <h4 className="errors__title">Errors</h4>
          <button className="btn errors__clear-btn" onClick={toggleVisibility}>{isVisible ? "Hide" : "Show"}</button>
        </hgroup>
        <Collapse isOpened={isVisible} animated={true}>
          <div className="errors">
            {sortedJSErrors.map((err, i) => {
              let type = err.get("type")
              if (type === "thrown") {
                return null
              } else {
                return (<ThrownErrorItem key={i} error={err.get("error") || err} jumpToLine={jumpToLine} />)
              }
            })}
          </div>
        </Collapse>
      </pre>
    )
  }
}

const ThrownErrorItem = (props) => {
  if (!props.error) {
    return null
  }
  let errorLine = props.error.get("line")

  return (
    <div className="error-wrapper">
      { !errorLine ? null :
        <div>
          <h4>{(errorLine && errorLine.getSource() && errorLine.getSource().originalSource) || "Error"}</h4>
          <pre className="error">
            <code>{errorLine ? errorLine.getSource().code : ""}</code>
          </pre>
        </div>
      } else {
        <div className="error-line">
          <h4 className="error-line__title">Line {errorLine.get("line")}</h4>
          <pre className="error-line__content">
            <code>{errorLine.getSource().code}</code>
          </pre>
        </div>
      }
    </div>
  )
}

class ThrownErrorItem extends React.Component {
  render() {
    let { errorLine, jumpToLine, isShadowed } = this.props

    return (
      <div className="thrown-error">
        <h4>Thrown Error</h4>
        <pre>{errorLine ? errorLine.getSource().code : ""}</pre>
        {isShadowed ? null :
          <button className="btn thrown-error__clear-btn" onClick={ () => errorLine.clear() }></button>
        }
      </div>
    )
  }
}

class SpecErrorItem extends React.Component {
  render() {
    let { error, jumpToLine } = this.props

    return (
      <div className="spec-error">
        <h4>Spec Error</h4>
        <pre>{error ? error.getSource().code : ""}</pre>
        {jumpToLine ? null :
          <button className="btn spec-error__jump-btn" onClick={ () => jumpToLine }></button>
        }
      </div>
    )
  }
}
export class Row extends React.Component {

  render() {
    return <div {...this.props} className={xclass(this.props.className, "wrapper")} />
  }
}

Col.propTypes = {
  hide: PropTypes.bool,
  keepContents: PropTypes.bool,
  mobile: PropTypes.number,
  tablet: PropTypes.number,
  desktop: PropTypes.number,
  large: PropTypes.number,
  className: PropTypes.string
}

export class Row extends React.Component {

  render() {
    return <div {...this.props} className={xclass(this.props.className, "wrapper")} />
  }
}

Col.propTypes = {
  hide: PropTypes.bool,
  keepContents: PropTypes.bool,
  mobile: PropTypes.number,
  tablet: PropTypes.number,
  desktop: PropTypes.number,
  large: PropTypes.number,
  className: PropTypes.string
}

export class Row extends React.Component {

  render() {
    return <div {...this.props} className={xclass(this.props.className, "wrapper")} />
  }
}

Col.propTypes = {
  hide: PropTypes.bool,
  keepContents: PropTypes.bool,
  mobile: PropTypes.number,
  tablet: PropTypes.number,
  desktop: PropTypes.number,
  large: PropTypes.number,
  className: PropTypes.string
}

export class Row extends React.Component {

  render() {
    return <div {...this.props} className={xclass(this.props.className, "wrapper")} />
  }
}

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  hide: PropTypes.bool,
  keepContents: PropTypes.bool,
  mobile: PropTypes.number,
  tablet: PropTypes.number,
  desktop: PropTypes.number,
  large: PropTypes.number,
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    return <div {...this.props} className={xclass(this.props.className, "wrapper")} />
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  keepContents: PropTypes.bool,
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  desktop: PropTypes.number,
  large: PropTypes.number,
  className: PropTypes.string
}

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  render() {
    return <div {...this.props} className={xclass(this.props.className, "wrapper")} />
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  keepContents: PropTypes.bool,
  mobile: PropTypes.number,
  tablet: PropTypes.number,
  desktop: PropTypes.number,
  large: PropTypes.number,
  className: PropTypes.string
}

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  render() {
    return <div {...this.props} className={xclass(this.props.className, "wrapper")} />
  }
}

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  hide: PropTypes.bool,
  keepContents: PropTypes.bool,
  mobile: PropTypes.number,
  tablet: PropTypes.number,
  desktop: PropTypes.number,
  large: PropTypes.number,
  className: PropTypes.string
}

export class Row extends React.Component {

  render() {
    return <div {...this.props} className={xclass(this.props.className, "wrapper")} />
  }
}

Col.propTypes = {
  hide: PropTypes.bool,
  keepContents: PropTypes.bool,
  mobile: PropTypes.number,
  tablet: PropTypes.number,
  desktop: PropTypes.number,
  large: PropTypes.number,
  className: PropTypes.string
}

export class Row extends React.Component {

  render() {
    return <div {...this.props} className={xclass(this.props.className, "wrapper")} />
  }
}

Col.propTypes = {
  hide: PropTypes.bool,
  keepContents: PropTypes.bool,
  mobile: PropTypes.number,
  tablet: PropTypes.number,
  desktop: PropTypes.number,
  large: PropTypes.number,
  className: PropTypes.string
}

export class Row extends React.Component {

  render() {
    return <div {...this.props} className={xclass(this.props.className, "wrapper")} />
  }
}

Col.propTypes = {
  hide: PropTypes.bool,
  keepContents: PropTypes.bool,
  mobile: PropTypes.number,
  tablet: PropTypes.number,
  desktop: PropTypes.number,
  large: PropTypes.number,
  className: PropTypes.string
}

export class Row extends React.Component {

  render() {
    return <div {...this.props} className={xclass(this.props.className, "wrapper")} />
  }
}

Col.propTypes = {
  hide: PropTypes.bool,
  keepContents: PropTypes.bool,
  mobile: PropTypes.number,
  tablet: PropTypes.number,
let { path, method, id } = op.toObject() // toObject is shallow
let showOpId = id
let shown = layoutSelectors.isShown([showOpIdPrefix, showOpId])
return <OperationLink key={id} id={method + `\-` + id} path={path} showOpId={showOpId}
  showOpIdPrefix={showOpIdPrefix}
  href={`#operation-${showOpId}`} />
</div>

<h3> No operations defined in spec! </h3>

export class OperationLink extends React.Component {
  _onClick() {
    let { showOpId, showOpIdPrefix, onClick, shown } = this.props
    onClick([showOpIdPrefix, showOpId], !shown)
  }

  render() {
    let { id, method, shown, href } = this.props
    return (<Link href={href} onClick={this._onClick} className={`block opblock-link ${shown ? "shown" : ""}`}>
      <div>
        <small className={`bold-label-${method}`}>{method.toUpperCase()}</small>
        <span className="bold-label">{id}</span>
      </div>
    </Link>)
  }
}

InitializeInput.propTypes = {
  initialValue: PropTypes.string
}

import React from "react"
import PropTypes from "prop-types"
import { fromJS } from "immutable"
import ImPropTypes from "react-immutable-proptypes"
import { sanitizeUrl } from "core/utils"

export class InfoBasePath extends React.Component {
  static propTypes = {
    host: PropTypes.string,
    basePath: PropTypes.string
  }

  render() {
    let { host, basePath } = this.props
    return (<pre className="base-url">
        [ Base URL: {host}{basePath} ]
      </pre>)
  }
}

class Contact extends React.Component {
  static propTypes = {
    data: PropTypes.object,
    getComponent: PropTypes.func.isRequired
  }

  render() {
    let { data, getComponent } = this.props
    let name = data.get("name") || "the developer"
    let url = data.get("url")
    let email = data.get("email")

    const Link = getComponent("Link")

    return (<div className="info__contact">
        { url && <div><Link href={ sanitizeUrl(url) } target="_blank">{ name } - Website</Link></div> }
        { email && <Link href={sanitizeUrl(`mailto:${email}`)}>
          { url ? `Send email to ${name}` : `Contact ${name}`}
        </Link> }
      </div>)
  }
}

class License extends React.Component {
  static propTypes = {
    license: PropTypes.object,
    getComponent: PropTypes.func.isRequired
  }

  render() {
    let { license, getComponent } = this.props
    const Link =
```
getComponent("Link")

    let name = license.get("name") || "License"
    let url = license.get("url")

return (
      <div className="info__license">
        {
          url ? <Link target="_blank" href={
            sanitizeUrl(url) }
            >{ name }</Link>
        : <span>{ name }</span>
        }
      </div>
    )
}

export class InfoUrl extends React.PureComponent {
  static propTypes = {
    url: PropTypes.string.isRequired,
    getComponent: PropTypes.func.isRequired
  }

  render() {
    const { url, getComponent } = this.props

    return <Link target="_blank" href={
      sanitizeUrl(url) }
      >{ url }</Link>
  }
}

export default class Info extends React.Component {
  static propTypes = {
    info: PropTypes.object,
    url: PropTypes.string,
    host: PropTypes.string,
    basePath: PropTypes.string,
    externalDocs: ImPropTypes.map,
    getComponent: PropTypes.func.isRequired,
  }

  render() {
    let { info, url, host, basePath, getComponent, externalDocs } = this.props
    let version = info.get("version")
    let description = info.get("description")
    let title = info.get("title")
    let termsOfService = info.get("termsOfService")
    let contact = info.get("contact")
    let license = info.get("license")
    const { url:externalDocsUrl, description:externalDocsDescription } = (externalDocs ||
      fromJS({})).toJS()

    const Markdown = getComponent("Markdown", true)
    const Link = getComponent("Link")
    const VersionStamp = getComponent("VersionStamp")
    const InfoUrl = getComponent("InfoUrl")
    const InfoBasePath = getComponent("InfoBasePath")

    return (
      <div className="info">
        <hgroup className="main">
          <h2 className="title" >{ title }
            { version && <VersionStamp version={version}></VersionStamp> }
          </h2>
          { host || basePath ? <InfoBasePath host={ host } basePath={ basePath } /> : null }
          { url && <InfoUrl
            getComponent={getComponent} url={url} /> }
        </hgroup>

        <div className="description">
          <Markdown source={ description } />
        </div>

        { termsOfService && <div className="info__tos">
            <Link target="_blank" href={
              sanitizeUrl(termsOfService) }
            >Terms of service</Link>
          </div>
        }

        {contact && contact.size ? <Contact
          getComponent={getComponent} data={ contact } /> : null }
        {license && license.size ? <License
          getComponent={getComponent} license={ license } /> : null }
        { externalDocsUrl ?
            <Link
              className="info__extdocs" target="_blank" href={
              sanitizeUrl(externalDocsUrl) }
            >{externalDocsDescription ||
              externalDocsUrl}</Link>
        : null }

      </div>
    )
  }
}

Info.propTypes = {
  title: PropTypes.any,
  description: PropTypes.any,
  version: PropTypes.any,
  url: PropTypes.string
}
```

Open Source Used In Cisco Modeling Labs 2.2 4291

import React, { PureComponent } from "react"
import PropTypes from "prop-types"
import { fromJS, List } from "immutable"
import { getSampleSchema } from "core/utils"

const NOOP = Function.prototype

export default class ParamBody extends PureComponent {

  static propTypes = {
    param: PropTypes.object,
    onChange: PropTypes.func,
    onChangeConsumes: PropTypes.func,
    consumes: PropTypes.object,
    consumesValue: PropTypes.string,
    fn: PropTypes.object.isRequired,
    getConfigs: PropTypes.func.isRequired,
    getComponent: PropTypes.func.isRequired,
    isExecute: PropTypes.bool,
    specSelectors: PropTypes.object.isRequired,
    pathMethod: PropTypes.array.isRequired
  }

  static defaultProp = {
    consumes: fromJS(["application/json"])
  };

  constructor(props, context) {
    super(props, context)

    this.state = {
      isEditBox: false,
      value: ""
    }

    this.updateValues.call(this, this.props)
  }

  componentDidMount() {
    this.updateValues.call(this, this.props)
  }

  componentWillReceiveProps(nextProps) {
    this.updateValues.call(this, nextProps)
  }

  updateValues = (props) => {
    let { param, isExecute,
        consumesValue="" } = props
    let isXml = /xml/i.test(consumesValue)
    let isJson = /json/i.test(consumesValue)
    let paramValue = isXml ? param.get("value_xml") : param.get("value")

    if (paramValue !== undefined) {
      let val = !paramValue && isJson ? "{}" : paramValue
      this.setState({
        value: val
      })
      this.onChange(val, {isXml: isXml, isEditBox: isExecute})
    } else {
      if (isXml) {
        this.onChange(this.sample("xml"), {isXml: isXml, isEditBox: isExecute})
      } else {
        this.onChange(this.sample(), {isEditBox: isExecute})
      }
    }
  }

  sample = (xml) => {
    let { param,
        fn:{inferSchema} } = this.props
    let schema = inferSchema(param.toJS())

    return getSampleSchema(schema, xml, {
      includeWriteOnly: true
    })
  }

  onChange = (value, { isEditBox,
    isXml }) => {
    this.setState({
      value, isEditBox
    })
    this._onChange(value, isXml)
  }

  _onChange = (val,
    isXml) => {
    this.props.onChange(val, isXml)
  }

  handleOnChange = e => {
    const {consumesValue} = this.props
    const isXml = /xml/i.test(consumesValue)
    const inputValue = e.target.value
    this.onChange(inputValue, {isXml})
  }

  toggleIsEditBox = () => this.setState( state => ({isEditBox:
    !state.isEditBox}))

  render() {
    let {
      onChangeConsumes,
      param,
      isExecute,
      specSelectors,
      pathMethod,
      getConfigs,
      getComponent,
    } = this.props

    const Button = getComponent("Button")
    const TextArea = getComponent("TextArea")
    const HighlightCode = getComponent("highlightCode")
    const ContentType = getComponent("contentType")
    // for domains
    let parameter = specSelectors ? specSelectors.parameterWithMetaByIdentity(pathMethod, param) : param
    let errors = parameter.get("errors", List())
    let consumesValue = specSelectors.contentTypesValues(pathMethod).get("requestContentType")
    let consumes = this.props.consumes & this.props.consumes.size ? this.props.consumes :
    ParamBody.defaultProp.consumes
    let { value, isEditBox } = this.state
    return (<div className="body-param" data-param-name={param.get("name")} data-param-in={param.get("in")}>
      <div isEditBox &
        isExecute?
          
          TextArea className="body-param__text"
          value={
            value
          } handleOnChange={
            this.handleOnChange
          } onInvalid={
            this.handleOnInvalid
          } />
          <label htmlFor="">
            <span>Parameter type</span>
            <ContentType value={
              consumesValue
          } contentTypes={
            consumes
          } onChange={
            onChangeConsumes
          } /><button className="btn cancel body-
          param__example-edit" />
        </button>
    </div>"
      <label htmlFor="">
        Parameter content type
      </label>
    </div>"
      <span>Parameter content type</span>
    </div>"
  }
win from `/\<\text{window}\>`\n\*\*\*\nif duplicate key name existed from FormData entries,\n\* \nwe mutated the key name by appending a hashIdx\n\* at param [String] k - possibly mutated key name\n\* @return [String] - src key name\n\* \n\n
```javascript
const extractKey = (k) => {
  const hashIdx = '_**
    ]\n  if (k.indexOf(hashIdx) < 0) {
    return k
  }
  return k.split(hashIdx)[0].trim()
}

/**
 * if duplicate key name existed from FormData entries,
 * we mutated the key
 * @param {String} k - possibly mutated key name
 * @return {String} - src key name
 */
```

```javascript
const extractKey = (k) => {
  const hashIdx = '_**
    ]\n  if (k.indexOf(hashIdx) < 0) {
    return k
  }
  return k.split(hashIdx)[0].trim()
}

export default function curl( request ){
  let curlified = [
    "curl", request.get("headers")
  ]
  let headers = request.get("headers")
  for(let [ h,v ] of headers.entries()) {
    curlified.push(`"${h}: ${v}"` )
  }
  if (request.get("body") )
    curlified.push( "-d" )
    curlified.push( JSON.stringify( request.get("body") ).replace(/\\n/g, "")
```
import React, { Component } from 'react'
import PropTypes from 'prop-types'
import Immutable from 'immutable'

export default class ModelCollapse extends Component {
  static propTypes = {
    collapsedContent: PropTypes.any,
    expanded: PropTypes.bool,
    children: PropTypes.any,
    title: PropTypes.element,
    modelName: PropTypes.string,
    classes: PropTypes.string,
    onToggle: PropTypes.func,
    hideSelfOnExpand: PropTypes.bool,
    layoutActions: PropTypes.object.isRequired,
    layoutSelectors: PropTypes.object.isRequired
  }

  static defaultProps = {
    collapsedContent: '{...}',
    expanded: false,
    title: null,
    onToggle: () => {},
    hideSelfOnExpand: false
  }

  constructor(props, context) {
    super(props, context)

    let { expanded, collapsedContent } = this.props

    this.state = { expanded: expanded, collapsedContent: collapsedContent || ModelCollapse.defaultProps.collapsedContent }
  }

  componentDidMount() {
    const { hideSelfOnExpand, expanded, modelName } = this.props

    if(hideSelfOnExpand && expanded) {
      // We just mounted pre-expanded, and we won't be going back.
      // So let's give our parent an `onToggle` call.
      // Since otherwise it will never be called.
      this.props.onToggle(modelName, expanded)
    }
  }

  componentWillReceiveProps(nextProps) {
    if(this.props.expanded !== nextProps.expanded) {
      this.setState({ expanded: nextProps.expanded })
    }
  }

  toggleCollapsed() {
    if(this.props.onToggle) {
      this.props.onToggle(this.props.modelName, !this.state.expanded)
    }

    this.setState({ expanded: !this.state.expanded })
  }

  onLoad = (ref) => {
    if(ref) {
      const name = this.props.modelName
      const scrollToKey = this.props.layoutSelectors.getScrollToKey()

      if(Im.is(scrollToKey, Im.fromJS(['models', name]))) this.toggleCollapsed()
      this.props.layoutActions.readyToScroll(['models', name], ref.parentElement)
    }
  }

  render() {
    const { title, classes } = this.props

    if(this.state.expanded) {
      return <span className={classes || ''}>{this.props.children}</span>
    }

    return (<span className={classes || ''}>
      {title && <span onClick={this.toggleCollapsed} className="pointer">{title}</span>}
      <span onClick={this.toggleCollapsed} className="pointer">
        <span className={"model-toggle" + (this.state.expanded ? '' : ' collapsed')}></span>
      </span>
      {this.state.expanded ? this.props.children : this.state.collapsedContent}
    </span>)
  }
}

import React from 'react'
import PropTypes from 'prop-types'
import ImmutablePropTypes from 'react-immutable-proptypes'

export default class ModelExample extends React.Component {
  static propTypes = {
    getComponent: PropTypes.func.isRequired,
    specSelectors: PropTypes.object.isRequired,
    schema: PropTypes.object.isRequired,
    example: PropTypes.any.isRequired,
    isExecute: PropTypes.bool,
    getConfigs: PropTypes.func.isRequired,
    specPath: ImmutablePropTypes.list.isRequired,
    includeReadOnly: PropTypes.bool,
    includeWriteOnly: PropTypes.bool,
  }

  constructor(props, context) {
    super(props, context)
    let { getConfigs, isExecute } = this.props
    let { defaultModelRendering } = getConfigs()

    let activeTab = defaultModelRendering

    if(defaultModelRendering !== 'example' && defaultModelRendering !== 'model') {
      activeTab = 'example'
    }

    if(isExecute) {
      activeTab = 'example'
    }

    this.state = { activeTab: activeTab }
  }

  activeTab = (e) => {
    let { target: { dataset: { name } } } = e

    this.setState({ activeTab: name })
  }

  componentWillReceiveProps(nextProps) {
    if (nextProps.isExecute && !this.props.isExecute && this.props.example) {
      this.setState({ activeTab: 'example' })
    }
  }

  render() {
    let { getComponent, specSelectors, schema, isExecute, getConfigs, specPath, includeReadOnly, includeWriteOnly } = this.props
    let { defaultModelExpandDepth } = getConfigs()
    const ModelWrapper = getComponent('ModelWrapper')
    const HighlightCode = getComponent('highlightCode')

    let isOAS3 = specSelectors.isOAS3()

    return <div className="model-example">
      <ul className="tab">
        <li className="tabitem" + (this.state.activeTab === 'example' ? ' active' : '') + (this.state.activeTab === 'model' ? ' inactive' : '') + (this.state.activeTab === 'example' ? ' inactive' : '')><a className="tablinks" data-name="example" onClick={this.activeTab}>Example Value</a></li>
        <li className="tabitem" + (this.state.activeTab === 'model' ? ' active' : '') + (this.state.activeTab === 'example' ? ' inactive' : '') + (this.state.activeTab === 'model' ? ' inactive' : '')><a className="tablinks" data-name="model" onClick={this.activeTab}>Model Value</a></li>
      </ul>
    </div>
  }
}
const displayName = schema.get("title") || rawSchema.get("title") || name
const isShown = layoutSelectors.isShown(["models", name], false)
if (isShown && (schema.size === 0 && rawSchema.size > 0)) {
  // Firing an action in a container renderer is not great,
  // but it works for now.
  this.props.specActions.requestResolvedSubtree([...this.getSchemaBasePath(), name])
}

const specPath = Im.List([...specPathBase, name])

const content = (<ModelWrapper name={name}
  expandDepth={defaultModelsExpandDepth}
  schema={schema || Im.Map()}
  displayName={displayName}
  specPath={specPath}
  getComponent={getComponent}
  specSelectors={specSelectors}
  getConfigs={getConfigs}
  layoutSelectors={layoutSelectors}
  layoutActions={layoutActions}
  includeReadOnly={true}
  includeWriteOnly={true}/>

const title = (<span className="model-box">
  <span className="model model-title">
    {displayName}
  </span>
</span>)

return (<div id={`model-${name}`} className="model-container" key={`models-section-${name}`}
  data-name={name} ref={this.onLoad}>
  <span className="models-jump-to-path"><JumpToPath specPath={specPath} /></span>
  <ModelCollapse
    classes="model-box"
    collapsedContent={this.getCollapsedContent(name)}
    onToggle={this.handleToggle}
    title={title}
    displayName={displayName}
    modelName={name}
    hideSelfOnExpand={true}
    expanded={defaultModelsExpandDepth > 0 && isShown}
    >
    {content}
  </ModelCollapse>
</div>)
}).toArray()
Open Source Used In Cisco Modeling Labs 2.2  4297

```jsx
import React, { Component } from "react"
import PropTypes from "prop-types"

const propClass = "property"

export default class ArrayModel extends Component {
  static propTypes = {
    schema: PropTypes.object.isRequired,
    getComponent: PropTypes.func.isRequired,
    getConfigs: PropTypes.func.isRequired,
    specSelectors: PropTypes.object.isRequired,
    name: PropTypes.string,
    depth: PropTypes.number,
    expandDepth: PropTypes.number,
    includeReadOnly: PropTypes.bool,
    includeWriteOnly: PropTypes.bool,
    required: PropTypes.bool,
    expandDepth: PropTypes.number,
  }

  render(){
    let { getComponent, getConfigs, schema, depth, expandDepth, name, displayPath, specPath } =
      this.props
    let description = schema.get("description")
    let items = schema.get("items")
    let title =
      schema.get("title") || displayPath || name
    let properties = schema.filter( ( v, key) => 
      ["type", "items", 
      "description", 
      "$ref"].indexOf(key) === -1 )
    const Markdown = getComponent("Markdown", true)
    const ModelCollapse = getComponent("ModelCollapse")
    const Model = getComponent("Model")
    const Property = getComponent("Property")

    return <span className="model">
      <ModelCollapse title={titleEl}
        expanded={ depth <= expandDepth } collapsedContent="[...]
        >[
          {
            properties.size ? properties.entrySeq().map( ( [ key, v] ) => <Property key={key} propKey={key} propVal={v}
              propClass={propClass} />
          } : null
          {
            !description ? (properties.size ? <div
              className="markdown"></div> : null) :
                <Markdown source={ description } />
          }

          <span>
            <Model
              { ...this.props }
              getConfigs={ getConfigs }
              specPath={specPath.push("items")}
              name={null}
              schema={ items }
              required={ false }
              depth={ depth + 1 }
            /&gt;
          </span>
        ]
      </ModelCollapse>
    </span>
  }
}
```

```jsx
const propClass = "property primitive"

export default class Primitive extends Component {
  static propTypes = {
    schema: PropTypes.object.isRequired,
    getComponent: PropTypes.func.isRequired,
    getConfigs: PropTypes.func.isRequired,
    name: PropTypes.string,
    displayName: PropTypes.string,
    depth: PropTypes.number
  }

  render(){
    let { schema, getComponent,
      getConfigs, name, displayName, depth } = this.props

    const { showExtensions } = getConfigs()

    if(!schema || !schema.get) {
      // don't render if schema isn't correctly formed
      return <div></div>
    }

    let type = schema.get("type")
    let format = schema.get("format")
    let xml = schema.get("xml")
    let
    enumArray = schema.get("enum")
    let title = schema.get("title") || displayName || name
    let description =
      schema.get("description")
    let extensions = getExtensions(schema)
    let properties = schema
      .filter( ( v,
      key) => 
      ["enum", "type", "format", "description", 
      "$ref"].indexOf(key) === -1 )
      .filterNot( (v, key) =>
        extensions.has(key)
      )
    const Markdown = getComponent("Markdown", true)
    const EnumModel =
      getComponent("EnumModel")
    const Property = getComponent("Property")

    return <span className="model">
      <span className="prop">
        { name && <span className={{depth === 1 && "model-title"}}>
          name={null}
          schema={ items }
          required={ false }
          // don't render if schema isn't correctly formed
          return <div/>
        }
      </span>
      { type }
      {
        properties.size ? properties.entrySeq().map( ( [ key, v] ) => <Property key={key} propKey={key} propVal={v}
          propClass={propClass} />
        } : null
        {
          !description ? null :
            <Markdown source={ description } />
          }
        {
          xml && xml.size ? (<span><br/>
            xml:
          </span>): null
        }
        {
          enumArray && <EnumModel value={ enumArray } getComponent={ getComponent } />
        }
      </span>
    </span>
}
```
import JumpToPath from "core/components/jump-to-path"
import Footer from "core/components/footer"
import ParamBody from "core/components/param-body"
import Curl from "core/components/curl"
import Schemes from "core/components/schemes"
import ModelCollapse from "core/components/model-collapse"
import ModelExample from "core/components/model-example"
import ModelWrapper from "core/components/model-wrapper"
import Model from "core/components/model"
import Models from "core/components/models"
import EnumModel from "core/components/enum-model"
import ObjectModel from "core/components/object-model"
import ArrayModel from "core/components/array-model"
import PrimitiveModel from "core/components/primitive-model"
import Property from "core/components/property"
import TryItOutButton from "core/components/try-it-out-button"
import VersionPragmaFilter from "core/components/version-pragma-filter"
import VersionStamp from "core/components/version-stamp"
import DeepLink from "core/components/deep-link"
import SvgAssets from "core/components/svg-assets"

import Markdown from "core/components/providers/markdown"

import BaseLayout from "core/components/layouts/base"

import * as LayoutUtils from "core/components/layout-utils"
import * as JsonSchemaComponents from "core/json-schema-components"

export default function() {

  let coreComponents = {
    components: {
      App,
      authorizationPopup: AuthorizationPopup,
      authorizeBtn: AuthorizeBtn,
      AuthorizeBtnContainer,
      authorizeOperationBtn: AuthorizeOperationBtn,
      auths: Auths,
      AuthItem: AuthItem,
      authError: AuthError,
      oauth2: Oauth2,
      apiKeyAuth: ApiKeyAuth,
      basicAuth: BasicAuth,
      clear: Clear,
      liveResponse: LiveResponse,
      InitializedInput,
      info: Info,
      InfoContainer,
      JumpToPath,
      onlineValidatorBadge: OnlineValidatorBadge,
      operations: Operations,
      operation: Operation,
      OperationSummary,
      OperationSummaryMethod,
      OperationSummaryPath,
      highlightCode:
      HighlightCode,
      responses: Responses,
      response: Response,
      responseBody: ResponseBody,
      parameters: Parameters,
      parameterRow: ParameterRow,
      execute: Execute,
      headers: Headers,
      errors: Errors,
      contentType: ContentType,
      overview: Overview,
      footer: Footer,
      FilterContainer,
      ParamBody: ParamBody,
      curl: Curl,
      schemes: Schemes,
      SchemesContainer,
      modelExample: ModelExample,
      ModelWrapper,
      ModelCollapse,
      Model,
      Models,
      EnumModel,
      ObjectModel,
      ArrayModel,
      PrimitiveModel,
      Property,
      TryItOutButton,
      markdown,
      BaseLayout,
      VersionPragmaFilter,
      VersionStamp,
      OperationExt,
      OperationExtRow,
      ParameterExt,
      ParameterIncludeEmpty,
      OperationTag,
      OperationContainer,
      DeepLink,
      InfoUrl,
      InfoBasePath,
      SvgAssets,
      Example,
      ExamplesSelect,
      ExamplesSelectValueRetainer,
    }
  }

  let formComponents = {
    components: LayoutUtils
  }

  let jsonSchemaComponents = {
    components: JsonSchemaComponents
  }

  return [
    configsPlugin,
    util,
    logs,
    view,
    spec,
    err,
    layout,
    samples,
    coreComponents,
    formComponents,
    jsonSchemaComponents,
    auth,
    downloadUrlPlugin,
    deepLinkingPlugin,
    filter,
    onComplete
  ]
}

import deepExtend from "deep-extend"

import System from "./system"
import ApisPreset from "./presets/apis"
import AllPlugins from "./plugins/all"
import { parseSearch } from "./utils"
import win from "./window"

if (process.env.NODE_ENV !== "production"
  && typeof window !== "undefined") {
  win.Perf = require("react-dom/lib/ReactPerf")
}

// eslint-disable-next-line no-undef
const { GIT_DIRTY, GIT_COMMIT, PACKAGE_VERSION, HOSTNAME, BUILD_TIME } = buildInfo

export default function SwaggerUI(opts) {

  win.versions = win.versions || {}
  win.versions.swaggerUi = {
    version: PACKAGE_VERSION,
    gitRevision: GIT_COMMIT,
    gitDirty: GIT_DIRTY,
    buildTimestamp: BUILD_TIME,
    machine: HOSTNAME
  }

  const defaults = {
    // Some general settings, that we floated to the top
    dom_id: null,
    domNode: null,
    spec: {},
    url: "",
    urls: null,
    layout: "BaseLayout",
    docExpansion: "list",
    maxDisplayedTags: null,
    filter: null,
    validatorUrl: "https://validator.swagger.io/validator"
  }
No license file was found, but licenses were detected in source scan.

/*! 
 * https://github.com/es-shims/es5-shim
 * @license es5-shim Copyright 2009-2015 by contributors, MIT License
 * see https://github.com/es-shims/es5-shim/blob/master/LICENSE
 */

// object is free to use the argument key to filter its
// for more details.

/**
 * Sets metadata for `func`.
 *
 * **Note:** If this function becomes hot, i.e. is invoked a lot in a short
 * period of time, it will trip its breaker and transition to an identity function
 * to avoid garbage collection pauses in V8. See [V8 issue 2070](https://code.google.com/p/v8/issues/detail?id=2070)
 * for more details.
 *
 * @private
 * @param {Function} func The function to associate metadata with.
 * @param {*} data The metadata.
 * @returns {Function} Returns `func`.
 */

/*!
 *
 * Copyright 2009-2012 Kris Kowal under the terms of the MIT
 * license found at http://github.com/kriskowal/q/raw/master/LICENSE
 *
 * With parts by Tyler Close
 * Copyright 2007-2009 Tyler Close under the terms of the MIT X license found
 * at http://www.opensource.org/licenses/mit-license.html
 * Forked at ref_send.js version: 2009-05-11
 *
 * With parts by Mark Miller
 * Copyright (C) 2011 Google Inc.
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 */
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["version":3,"sources":[]]
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BAF, GAeC, gCAE1D, SAAK, GAAu1D, GAEB, /D, IAAl+o/E, SAAw0o/E, IAA+o/E, UAAy, GAC/B/o/E, IAA+o/E, SAA52nC, UAAy, CACvB3hG, QAAShG, GACTK, YAAnA, GACBo, SAuAT, GACVU, eAqgBl, GACtBM, QASp, IAGX, IAMMQ, EAAW, CAEC, OAAQ, KACTv6E, QAAS, KACTyjB, KAAm, GACNnj, IAAl, GACfK, IAAM, GACNnF, OAAQ, aACvRwpE, YAAnA, OACd+G, iBAAbk, KACiB35F, OAAQ, KACr+6B, aAAbc, YAACvDw8k, dBAAbk, GAfA, OAAkt+G, OAA085, SAAAS4C, SAAaB, aAAkC1Cy, OAA085, SAA4a, KAAIdy, BACjBo4, QAAS, GACTmlE, OAAQ, GACr7b, OBAAB, EACpBC, wBAAbw, EACvB1M, dAAaA, EACvB6k, mBAAbk, QAAS8L, GAAcAIA, GAC1B8LO, OBAAS, SAA9IL, GAAcAIA, GAC3ByyF, oBAAbk, EACpB6OS, BAAbU, UACvBC, wBAAbY, EACzBk, YAAb0E, EAClBn, gBAAbG, EACvBhoD, sBAAsB, EACvBjQ, BAAb17C, EACvBf+uB, AAAbw, CACB, CACB, MACA, MACA, OACA, SACA, UACA, SACA, SAKF4b, QAAS, GACtBC, IAAM, YAAhG, YAAhG, YAAY, GAAAnI, EAAoBtgB, IAAW, GAAI+f, EAAUhuD, EAAuB1D, GAEnDE, EAAe, CACNnFhG, OAAQ, 4C8N78b, QAAS7uE, EAAEkB1e, SAE7Bsf, QAASSimD, EAAEkBh, QAC3B3vF, mAA, EACBPcE, OAAQ, CACNA, OAAQollF, EAAEkB1f, OAC1Bpp, OAAQ8uG, EAAEkB9uG, QAE5BwQ, KAAm, CACJA, KAAm, GACNnj, IAAlKunG, EAAEkBvM, MAEXBuG, EAAEkBc/eA,GvB, GAAC+G, eAAbk/c, aAAInb, IAAl, IAAln3F, KAAkoK0G, GAAAI+o/E, KAAAI+kE, EAAAI+f, EAAE, GACod, GACvB3fE, EAAEkM03E, SAA5, CACAcG, EAAEkBmD, QAQFtiT, WACjB, MAAO, CACLjD, GAAkIwG, EAAEkBlwG, GACBw4c, VAAwAS, dEAAAbkD, WAC9BxwB, MAAO85, EAAEkBv9f, UA07B, EAAIvR, EAAg5G, EAManY, YAYEhB2vG, EAAe, SAAAC, GACBPcE, IAAlC, EAAe, IAAlhG, EAAEOc, eAAckD, eAAiBnD, EAAEOc, eAAckD, iBBAAmB, GAC5Fw8c8EAAe5gB, IAIAW, GAAI2gB, EAAAl, EAAJI, GAAIaIb, GAAI, GAqBvF, GAI7B6E, IACD07E, EAAaP7E, QAuAe, GAGzBvC, EAAE43F, WAwA, GACtB3hG, EAAAh6B, EAAEvGf, SAAEA, OAAAlBmgF, KACGCL, EAYhN, KAAcA, CAAW, IAAl0nG, EAAAh5f, OAAQb, IAAY+f, EAAa5f, MAAMvU, QAC9FwR, EAAOWd, YAAY1J, UAuA, IAAC7Bpd, EAAOWd, YAAYy6wB, oBAAbO, WACvC, BAAAwO, YAAYy6W, WAAAY, WAAAY, WAAAY, EAAAh6B+fEAAaA5+f, QACjD/C, EAAOWd, YAAYy6B, IAAYy6E, EAAan7G, MAAX6nG, EAAeXO, OAA1eHhG, EAAOWd, YAAY1J, UAuA+f, EAAa7nG, KAC1ICg, EAAOWd, YAAYy6B, SAAAS6jE, EAAa7nG, OAI1C6nG, EAAaP7E, QAQoBvM, OAAo7E, EAAaP7E, QAAS, YAC/G, BAAAg07E, EAAaZ, OAAQ, QAC7B, IAAIs6E, EAAu7D, SSAso/E, cAAcH, EAAAzQ, QACD/gG, EAAOqM, OAAOE, EAA5, YAAY, OAAxBo7E, EAAeZQ, OAAAz7B, EAAaP7E, SAAhrDzB, QAQQC, MAAM, 6DAghB, OAAoWm, GAGH+hG, EAAAYX, EAAAYzpG, QAQQopG, EAAEBU, UAI1D, OAALK, GAAc/hG, EAAOWd, dAAgBxD, EAAOWd, YAAYy7k, bBAAbk1B, EAAOWd, YAAYy7k, gBAAbmB1+b, EAAOWd, YAAYy7k, eAAc, CACTri5C, IAAlKioG, EACLcL, jBAAbk, EACtBp9f, mBAAbOy8F, EABAkBz8, FAmBACtCC, oBAAbQw8F, EACvBxwB, QAQtC28F, KAGDxhG, EAAOWd, YAAYy7k, eAAeqF, EAAWP, GAGx, CxhG, GALEwhG, IASXbH, GAAUw, QAAlE, CACBcE, KAAmd, IAIRX, GAAuPlD, QAASU8mD, c", "file": "swagger-ui.js", "sourcesContent": ["(function webpackUniversalModuleDefinition(root, factory) {
	if(typeof exports === 'object' && typeof module === 'object')
		module.exports = factory();
	else if(typeof define === 'function' && define.amd)
		define([], factory);
	else if(typeof exports === 'object')
		exports['SwaggerUICore'] = factory();
	else
		root['SwaggerUICore'] = factory();
})(window, function() {
return
// The module cache
var installedModules = {};

// The require function
function __webpack_require__(moduleId) {

// Check if module is in cache
if(installedModules[moduleId]) {
return installedModules[moduleId].exports;
}
// Create a new module (and put it into the cache)
var module = installedModules[moduleId] = {
	i: moduleId,
	l: false,
	exports: {}
};

// Execute the module function
modules[moduleId].call(module.exports, module, module.exports, __webpack_require__);

// Flag the module as loaded
module.l = true;

// Return the exports of the module
return module.exports;
}

// expose the modules object (__webpack_modules__)
__webpack_require__.m = modules;

// expose the module cache
__webpack_require__.c = installedModules;

// define getter function for harmony exports
function getModuleExports(moduleId) {
var module = installedModules[moduleId];
if(module.exports && module.exports.__esModule) {
return module.exports['default'];
}
return module.exports;
}

// check if the module is in cache
var cacheName = 'builtinsModule';
var installedModulesInCache = installedModules;
var moduleId;
return false
} export function objectify (thing) {
  if(!isObject(thing))
    return {}
  if(isImmutable(thing))
    return thing
  if(thing.isArray)
    return thing.toArray()
  return normalizeArray(thing)
}

export function objectify (thing) {
  if(!isObject(thing))
    return {}
  if(isImmutable(thing))
    return thing.toJS()
  return thing
}

export function arrayify (thing) {
  if(!thing)
    return []

  if(thing.toArray)
    return thing.toArray()

  return normalizeArray(thing)
}

export function fromJSOrdered(js) {
  if (isImmutable(js)) {
    return js // Can't do much here
  }
  if (js instanceof win.File) {
    return js
  }
  if (!isObject(js)) {
    return js
  }
  if (Array.isArray(js)) {
    return Im.Seq(js).map(fromJSOrdered).toList()
  }
  if (isFunction(js.entries)) {
    // handle multipart/form-data
    const objWithHashedKeys = createObjWithHashedKeys(js)
    return Im.OrderedMap(objWithHashedKeys).map(fromJSOrdered)
  }
  return fromJSOrdered(js)
}

/**
 * Convert a FormData object into plain object
 * Append a hashIdx and counter to the key name, if multiple exists * if single, key name = <original>
 * if multiple, key name = <original><hashIdx><count>
 * @example <caption>single entry for vegetable</caption>
 * fdObj.entries.vegetables: \"carrot\"
 * // returns newObj.vegetables: \"carrot\" * @example <caption>multiple entries for fruits</caption>
 * fdObj.entries.fruits: [\"apple\", \"banana\"]
 * // returns newObj.fruits[['**']1 : \"apple\" * fdObj.entries.fruits: [\"grape\", \"banana\"]
 * // returns newObj.fruits[['**']2 : \"banana\"
 * // returns newObj.fruits[['**']3 : \"grape\"
 * @param {FormData} fdObj - a FormData object *
 * @return {Object} - a plain object
 */
export function createObjWithHashedKeys (fdObj) {
  if (!isFunction(fdObj.entries)) {
    return fdObj // not a FormData object with iterable
  }
  const newObj = {}
  const hashIdx = "_**" // our internal identifier
  const trackKeys = {}
  for (let pair of fdObj.entries()) {
    if (!newObj[pair[0]] && !trackKeys[pair[0]].containsMultiple) {
      newObj[pair[0]] = pair[1] // first key name: no hash required
    } else {
      if (!trackKeys[pair[0]]) {
        // initiate tracking key for multiple
        trackKeys[pair[0]] = {
          containsMultiple: true,
          length: 1
        }
        // "reassign" first key to matching hashed format for multiple
        let hashedKeyFirst = `$[pair[0]]$\{hashIdx}$\{trackKeys[pair[0]].length}`
        newObj[hashedKeyFirst] = newObj[pair[0]]
        // remove non-hashed key of multiple
        delete newObj[pair[0]] // first
      }
      trackKeys[pair[0]].length += 1
      let hashedKeyCurrent = `$[pair[0]]$\{hashIdx}$\{trackKeys[pair[0]].length}`
      newObj[hashedKeyCurrent] = pair[1]
      return newObj
    }
    if(Array.isArray(pair[1]))
      return arr
    newObj = Im.Map.js(pair[1], fromJSOrdered(pair[1]))
    return newObj
  }
}

export function bindToState(obj, state) {
  var newObj = {}
  Object.keys(obj).filter(key => typeof obj[key] === "function")
  .forEach(key => newObj[key] = obj[key].bind(null, state))
  return newObj
}

export function normalizeArray(arr) {
  if(Array.isArray(arr))
    return arr
  return [arr]
}

export function isFunc(thing) {
  return typeof(thing) === "function"
}

export function isArray(thing) {
  return Array.isArray(thing)
}

export const memoize = _memoize

export function objMap(obj, fn) {
  return Object.keys(obj).reduce((newObj, key) => {
    newObj[key] = fn(obj[key], key)
    return newObj
  }, { })
}

export function objReduce(obj, fn) {
  return Object.keys(obj).reduce((newObj, key) => {
    let res = fn(obj[key], key)
    if(res && typeof res === "object")
      Object.assign(newObj, res)
    return newObj
  }, { })
}

/**
 * Returns an Immutable List, safely
 * @param {Immutable.Iterable} iterable the iterable to get the key from
 * @param {String|[String]} key either an array of keys, or a single key
 * @returns {Immutable.List} either iterable.get(keys) or an empty Immutable.List
 */
export function getList(iterable, keys) {
  if(!Im.Iterable.isIterable(iterable)) {
    return Im.List()
  }
  let val = iterable.get(Array.isArray(keys) ? keys : [keys])
  return Im.List.isList(val) ? val : Im.List()
}

export function defaultStatusCode ( responses ) {
  let codes = responses.keySeq()
  return codes.contains(DEFAULT_RESPONSE_KEY) ? DEFAULT_RESPONSE_KEY : codes.filter(key =>
    key.startsWith("2")
  ).sort().first() || null
}

export function defaultStatusCode ( responses ) {
  let codes = responses.keySeq()
  return codes.contains(DEFAULT_RESPONSE_KEY) ? DEFAULT_RESPONSE_KEY : codes.filter(key =>
    key.startsWith("2")
  ).sort().first() || null
}

return Im.List.isList(val) ? val : Im.List()
return Im.List.isList(val) ? val : Im.List()

{Immutable.Map} map, the map to convert\n * @param {String} key the key to use, when merging the `key`\n *
@returns {Immutable.List}\n */\nexport function mapToList(map, keyNames=\"key\", collectedKeys=Im.Map())
{\n if(!Im.Map.isMap(map) || !map.size) {\n return Im.List()\n }\n\n if(!Array.isArray(keyNames)) {\n
keyNames = [ keyNames ]\n }\n\n if(keyNames.length < 1) {\n return map.merge(collectedKeys)\n }\n\n // I
need to avoid `flatMap` from merging in the Maps, as well as the lists\n let list = Im.List()\n let keyName =
keyNames[0]\n for(let entry of map.entries()) {\n let [key, val] = entry\n let nextList = mapToList(val,
keyNames.slice(1), collectedKeys.set(keyName, key))\n if(Im.List.isList(nextList)) {\n
list =
list.concat(nextList)\n } else {\n
list = list.push(nextList)\n }\n }\n\n return list\n}\n\nexport function
extractFileNameFromContentDispositionHeader(value){\n let patterns = [\n
/filename\\*=[^']+'\\w*'\"([^\"]+)\";?/i,\n /filename\\*=[^']+'\\w*'([^;]+);?/i,\n /filename=\"([^;]*);?\"/i,\n
/filename=([^;]*);?/i\n ]\n \n let responseFilename\n patterns.some(regex => {\n responseFilename =
regex.exec(value)\n return responseFilename !== null\n })\n \n if (responseFilename !== null &&
responseFilename.length > 1) {\n try {\n
return decodeURIComponent(responseFilename[1])\n } catch(e) {\n
console.error(e)\n }\n }\n\n return null\n}\n\n// PascalCase, aka UpperCamelCase\nexport function
pascalCase(str) {\n return upperFirst(camelCase(str))\n}\n\n// Remove the ext of a filename, and pascalCase
it\nexport function pascalCaseFilename(filename) {\n return pascalCase(filename.replace(/\\.[^./]*$/, \"\"))\n}\n\n//
Check if ...\n// - new props\n// - If immutable, use .is()\n// - if in explicit objectList, then compare using _.eq\n// else use ===\nexport const propChecker = (props, nextProps, objectList=[], ignoreList=[]) => {\n\n
if(Object.keys(props).length !== Object.keys(nextProps).length) {\n return true\n }\n\n return (\n some(props,
(a, name) => {\n
if(ignoreList.includes(name)) {\n
return false\n
}\n
let b = nextProps[name]\n\n
if(Im.Iterable.isIterable(a)) {\n
return !Im.is(a,b)\n
}\n\n
// Not going to compare objects\n
if(typeof a
=== \"object\" && typeof b === \"object\") {\n
return false\n
}\n\n
return a !== b\n })\n ||
objectList.some( objectPropName => !eq(props[objectPropName], nextProps[objectPropName])))\n}\n\nexport
const validateMaximum = ( val, max ) => {\n if (val > max) {\n return \"Value must be less than Maximum\"\n
}\n}\n\nexport const validateMinimum = ( val, min ) => {\n if (val < min) {\n return \"Value must be greater than
Minimum\"\n }\n}\n\nexport const validateNumber = ( val ) => {\n if (!/^-?\\d+(\\.?\\d+)?$/.test(val)) {\n return
\"Value must be a number\"\n }\n}\n\nexport const validateInteger = ( val ) => {\n if (!/^-?\\d+$/.test(val)) {\n
return \"Value must be an integer\"\n }\n}\n\nexport const validateFile = ( val ) => {\n if ( val && !(val instanceof
win.File) ) {\n return \"Value must be a file\"\n }\n}\n\nexport const validateBoolean = ( val ) => {\n if ( !(val
=== \"true\" || val === \"false\" || val === true || val === false) ) {\n return \"Value must be a boolean\"\n
}\n}\n\nexport const validateString = ( val ) => {\n if ( val && typeof val !== \"string\" ) {\n return \"Value must
be a string\"\n }\n}\n\nexport const validateDateTime = (val) => {\n if (isNaN(Date.parse(val))) {\n
return
\"Value must be a DateTime\"\n }\n}\n\nexport const validateGuid = (val) => {\n val =
val.toString().toLowerCase()\n if (!/^[{(]?[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9af]{12}[)}]?$/.test(val)) {\n
return \"Value must be a Guid\"\n }\n}\n\nexport const validateMaxLength = (val,
max) => {\n if (val.length > max) {\n return \"Value must be less than MaxLength\"\n }\n}\n\nexport const
validateMinLength = (val, min) => {\n if (val.length < min) {\n
return \"Value must be greater than
MinLength\"\n }\n}\n\nexport const validatePattern = (val, rxPattern) => {\n var patt = new RegExp(rxPattern)\n
if (!patt.test(val)) {\n
return \"Value must follow pattern \" + rxPattern\n }\n}\n\n// validation of parameters
before execute\nexport const validateParam = (param, value, { isOAS3 = false, bypassRequiredCheck = false } =
{}) => {\n \n let errors = []\n\n let paramRequired = param.get(\"required\")\n\n let { schema: paramDetails,
parameterContentMediaType } = getParameterSchema(param, { isOAS3 })\n\n if(!paramDetails) return errors\n\n
let required = paramDetails.get(\"required\")\n let maximum = paramDetails.get(\"maximum\")\n let minimum =
paramDetails.get(\"minimum\")\n let type = paramDetails.get(\"type\")\n let format =
paramDetails.get(\"format\")\n let maxLength = paramDetails.get(\"maxLength\")\n let minLength =
paramDetails.get(\"minLength\")\n let pattern = paramDetails.get(\"pattern\")\n\n /*\n If the parameter is required
OR the parameter has a value (meaning optional, but filled in)\n then we should do our validation routine.\n
Only bother validating the parameter if the type was specified.\n */\n if ( type && (paramRequired || required ||

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value) {
    // These checks should evaluate to true if there is a parameter
    let stringCheck = type === "string" && value
    let arrayCheck = type === "array" && Array.isArray(value) && value.length
    let listCheck = type === "list" && Im.List.isList(value) && value.count() !== 0
    let stringCheck = type === "string" && typeof value === "string" && value
    let objectCheck = type === "object" && typeof value === "object" && value !== null
    let numberCheck = type === "number" && typeof value === "number" && value
    let booleanCheck = type === "boolean" && (value || value === false)
    let arrayStringCheck = type === "array" && Array.isArray(value) && value.length
    let fileCheck = type === "file" && value instanceof win.File
    let maxLength = type === "string" && value.length
    let minLength = type === "string" && value.length

    const allChecks = [stringCheck, arrayCheck, listCheck, stringCheck, fileCheck, objectCheck, numberCheck, booleanCheck, arrayStringCheck, fileCheck]

    const passedAnyCheck = allChecks.some(v => !!v)

    if ((paramRequired || required) && !passedAnyCheck && !bypassRequiredCheck) {
      errors.push("Required field is not provided")
      return errors
    }

    if (type === "object" && typeof value === "string" && parameterContentMediaType === null || parameterContentMediaType === "application/json") {
      try {
        JSON.parse(value)
      } catch (e) {
        errors.push("Parameter string value must be valid JSON")
        return errors
      }
    }

    if (pattern) {
      let err = validatePattern(value, pattern)
      if (err) errors.push(err)
    }

    if (maxLength || maxLength === 0) {
      let err = validateMaxLength(value, maxLength)
      if (err) errors.push(err)
    }

    if (minimum || minimum === 0) {
      let err = validateMinimum(value, minimum)
      if (err) errors.push(err)
    }

    if (maximum || maximum === 0) {
      let err = validateMaximum(value, maximum)
      if (err) errors.push(err)
    }

    if (type === "string") {
      let err
      if (format === "date-time") {
        err = validateDateTime(value)
      } else if (format === "uuid") {
        err = validateGuid(value)
      } else {
        err = validateString(value)
      }
      if (!err) return errors
      errors.push(err)
    } else if (type === "boolean") {
      let err = validateBoolean(value)
      if (!err) return errors
      errors.push(err)
    } else if (type === "number") {
      let err = validateNumber(value)
      if (!err) return errors
      errors.push(err)
    } else if (type === "integer") {
      let err = validateInteger(value)
      if (!err) return errors
      errors.push(err)
    } else if (type === "array") {
      let itemType
      if (!arrayListCheck || value.count() === 0) return errors
      itemType = paramDetails.getIn(["items", "type"])
      value.forEach((item, index) => {
        let err
        if (itemType === "number") {
          err = validateNumber(item)
        } else if (itemType === "integer") {
          err = validateInteger(item)
        } else if (itemType === "string") {
          err = validateString(item)
        }
        if (err) errors.push({ index: index, error: err})
      })
    } else if (type === "file") {
      let err = validateFile(value)
      if (!err) return errors
      errors.push(err)
    }
  }

  return errors
}

export const getSampleSchema = (schema, contentType="", config={}) => {
  if (/xml/.test(contentType)) {
    if (!schema.xml || !schema.xml.name) {
      schema.xml = schema.xml || {}
      if (schema.$$ref) {
        let match = schema.$$ref.match(/\S*\/(\S+)$/)
        schema.xml.name = match[1]
      } else if (schema.type || schema.items || schema.properties || schema.additionalProperties) {
        return "<?xml version=\"1.0\" encoding="UTF-8"?>\n<!-- XML example cannot be generated; root element name is undefined -->"
      } else {
        return null
      }
    }
    return memoizedCreateXMLExample(schema, config)
  }

  const res = memoizedSampleFromSchema(schema, config)
  return typeof res === "object" ? JSON.stringify(res, null, 2) : res
}

export const parseSearch = () => {
  let map = {}
  let search = win.location.search
  if (!search)
    return {}
  if (search != "") {
    let params = search.substr(1).split("&")
    for (let i in params) {
      if (!params.hasOwnProperty(i)) {
        continue
      } = params[i].split("=")
      map[decodeURIComponent(i)] = (i[1] && decodeURIComponent(i[1]))
    }
  }

  return map
}

export const serializeSearch = (searchMap) => {
  return Object.keys(searchMap).map(k => {
    return encodeURIComponent(k) + "=" + encodeURIComponent(searchMap[k])
  }).join("&")
}

export const btoa = (str) => {
  let buffer
  if (str instanceof Buffer) {
    buffer = str
  } else {
    buffer = new Buffer(str.toString(), "utf-8")
  }
  return buffer.toString("base64")
}
a.getMethod().localeCompare(b.getMethod())

```
export const buildFormData = (data) => {
  let formArr = []
  for (let name in data) {
    let val = data[name]
    if (val !== undefined & & val !== '') {
      formArr.push([name, val]) // Is this really required as a helper? Perhaps. TODO: expose the system of presets.apis in docs, so we know what is supported}
  }

  return formArr.join('
')
}

export function shallowEqualKeys(a, b, keys) => {
  return !!find(keys, (key) => {
    return eq(a[key], b[key])
  })
}

export function sanitizeUrl(url) {
  if (typeof url !== 'string' || url === '') {
    return ''
  }

  return braintreeSanitizeUrl(url)
}

// suitable for use in CSS classes and ids
export function escapeDeepLinkPath(str) => {
  return cssEscape(createDeepLinkPath(str).replace(/\s/g, '_')
}

// Deeply strips a specific key from an object.
// `predicate` can be used to discriminate the stripping further, by preserving the key's place in the object based on its value.
export function deeplyStripKey(input, keyToStrip, predicate = () => true) {
  if (typeof input !== 'object' || Array.isArray(input) || input === null || !keyToStrip) {
    return input
  }

  const obj = Object.assign({}, input)
  Object.keys(obj).forEach(k => {
    if (k === keyToStrip && predicate(obj[k], k)) {
      delete obj[k]
      return
    }
    obj[k] = deeplyStripKey(obj[k], keyToStrip, predicate)
  })
  return obj
}

export function stringify(thing) {
  if (typeof thing === 'string') {
    return thing
  }

  if (thing && thing.toJS) {
    thing = thing.toJS()
  }

  if (typeof thing === 'object' && thing !== null) {
    try {
      return JSON.stringify(thing, null, 2)
    } catch (e) {
      return String(thing)
    }
  }

  if (thing === null || thing === undefined) {
    return ''
  }

  return thing.toString()
}

export function numberToString(thing) {
  if (typeof thing === 'number') {
    return thing.toString()
  }

  return thing
}

// adapted from https://auth0.com/docs/flows/guides/auth-code-pkce/includes/create-code-verifier
export function generateCodeVerifier() {
  return b64toB64UrlEncoded(randomBytes(32).toString('base64'))
}

export function createCodeChallenge(codeVerifier) {
  return b64toB64UrlEncoded(shaJs('sha256').update(codeVerifier).digest('base64'))
}
```

---

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"spec_update_param"

export const UPDATE_EMPTY_PARAM_INCLUSION = 
"spec_update_empty_param_inclusion"
export const VALIDATE_PARAMS = "spec_validate_param"

export const SET_RESPONSE = "spec_set_response"
export const SET_REQUEST = "spec_set_request"
export const LOG_REQUEST = "spec_log_request"
export const CLEAR_RESPONSE = "spec_clear_response"
export const CLEAR_REQUEST = "spec_clear_request"
export const CLEAR_VALIDATE_PARAMS = "spec_clear_validate_param"
export const UPDATE_OPERATION_META_VALUE = "spec_update_operation_meta_value"
export const UPDATE_RESOLVED = "spec_update_resolved"
export const UPDATE_RESOLVED_SUBTREE = "spec_update_resolved_subtree"
export const SET_SCHEME = "set_scheme"

const toStr = (str) => isString(str) ? str : ""

export function updateSpec(spec) {
  const cleanSpec = (toStr(spec)).replace(/\t/g, "  ")
  if(typeof spec === "string") {
    return {
      type: UPDATE_SPEC,
      payload: cleanSpec
    }
  }
}

export function updateResolved(spec) {
  return {
    type: UPDATE_RESOLVED,
    payload: spec
  }
}

export function updateUrl(url) {
  return {type: UPDATE_URL, payload: url}
}

export function updateJsonSpec(json) {
  return {type: UPDATE_JSON, payload: json}
}

export const parseToJson = (str) => ({specActions, specSelectors, errActions}) => {
  let {
    specStr } = specSelectors

  let json = null
  try {
    str = str || specStr()
    errActions.clear({
      source: "parser"
    })
    json = YAML.safeLoad(str)
  } catch(e) {
    // TODO: push error to state
    console.error(e)
    return
  }
  if(json && typeof json === "object") {
    return specActions.updateJsonSpec(json)
  }
  return {}
}

let hasWarnedAboutResolveSpecDeprecation = false

export const resolveSpec = (json, url) => ({specActions, specSelectors, errActions, fn: { fetch, resolve,
    AST = {} }, getconfigs}) => {
  if(!hasWarnedAboutResolveSpecDeprecation) {
    console.warn("specActions.resolveSpec is deprecated since v3.10.0 and will be removed in v4.0.0; use
requestResolvedSubtree instead!")
    hasWarnedAboutResolveSpecDeprecation = true
  }

  const {
    modelPropertyMacro,
    parameterMacro,
    requestInterceptor,
    responseInterceptor
  } = fn.getConfigs()

  if(typeof(json) === "undefined") {
    json = specSelectors.specJson()
  }
  if(typeof(url) === "undefined") {
    url = specSelectors.url()
  }

  let getLineNumberForPath = AST.getLineNumberForPath ? AST.getLineNumberForPath : () => undefined

  let specStr = specSelectors.specStr()

  const {
    modelPropertyMacro,
    parameterMacro,
    requestInterceptor,
    responseInterceptor
  } = fn.getConfigs()

  try {
    var batchResult = await requestBatch.reduce(async (prev, path) => {
      const { resultMap, specWithCurrentSubtrees } = await prev
      const { errors, spec } = await resolveSubtree(specWithCurrentSubtrees, path, {
        baseDoc: specSelectors.url(),
        modelPropertyMacro,
        parameterMacro,
        requestInterceptor,
        responseInterceptor
      })

      if(errSelectors.allErrors().size) {
        errActions.clearBy(err => err.get("type")
      }
      return specActions.updateResolved(spec)
    })(spec, url)
  }
  return {}
}

let requestBatch = [ ]

const debResolveSubtrees = debounce(async () => {
  const system = requestBatch.system // Just a reference to the "latest" system

  if(!system) {
    console.error("debResolveSubtrees: don't have a system to operate on, aborting.")
    return
  }

  const {
    errActions,
    errSelectors,
    fn: {
      requestBatch,
      AST = {} },

    specSelectors,
  } = system

  if(!resolveSubtree) {
    console.error("Error: Swagger-Client

    did not provide a `resolveSubtree` method, doing nothing.")
    return
  }

  let getLineNumberForPath = AST.getLineNumberForPath : () => undefined

  let specStr = specSelectors.specStr()

  const {
    modelPropertyMacro,
    parameterMacro,
    requestInterceptor,
    responseInterceptor
  } = system.getConfigs()

  try {
    var batchResult = await requestBatch.reduce(async (prev, path) => {
      const { resultMap, specWithCurrentSubtrees } = await prev
      const { errors, spec } = await resolveSubtree(specWithCurrentSubtrees, path, {
        baseDoc: specSelectors.url(),
        modelPropertyMacro,
        parameterMacro,
        requestInterceptor,
        responseInterceptor
      })

      if(errSelectors.allErrors().size) {
        errActions.clearBy(err => err.get("type")
      }
      return specActions.updateResolved(spec)
    })(spec, url)
  }
  return {}
}
Object.defineProperty(err, "message", { enumerable: true, value: err.message })

if(Array.isArray(errors) && errors.length > 0) {
  let preparedErrors = errors
    .map(err => {
      err.line = err.fullPath ? getLineNumberForPath(specStr, err.fullPath) : null
      err.path = err.fullPath ? err.fullPath.join(".") : null
      err.level = "error"
      err.type = "thrown"
      err.source = "resolver"
      Object.defineProperty(err, "message", { enumerable: true, value: err.message })
      let errActions = errActions.newThrownErrBatch(preparedErrors)
      let resultMap, path, spec
      set(specWithCurrentSubtrees, path, spec)
      return { resultMap, specWithCurrentSubtrees }
    })
  errActions.newThrownErrBatch(preparedErrors)
}

if(Array.isArray(batchResult) && batchResult.length > 0) {
  let batchResult = batchResult
    .map(batch => {
      batch.path = path
      batch.level = "error"
      batch.type = "thrown"
      batch.source = "resolver"
      Object.defineProperty(batch, "message", { enumerable: true, value: batch.message })
      return batch
    })
  specActions.newThrownErrBatch(batchResult)
}

return {
  resultMap,
  specWithCurrentSubtrees
}

set(resultMap, path, spec)
set(specWithCurrentSubtrees, path, spec)

return {
  resultMap: specSelectors.specResolvedSubtree([]) || Map().toJS(),
  specWithCurrentSubtrees: specSelectors.specJson().toJS()
}

export const invalidateResolvedSubtreeCache = () => {
  return {
    type: UPDATE_RESOLVED_SUBTREE,
    payload: {
      path: [],
      value: Map()
    }
  }
}

export const validateParams = (payload, isOAS3) => {
  return {
    type: VALIDATE_PARAMS,
    payload: {
      pathMethod: payload,
      isOAS3
    }
  }
}

export const updateEmptyParamInclusion = (pathMethod, paramName, paramIn, includeEmptyValue) => {
  return {
    type: UPDATE_EMPTY_PARAM_INCLUSION,
    payload: {
      pathMethod,
      paramName,
      paramIn,
      includeEmptyValue
    }
  }
}

export function clearValidateParams(payload) {
  return {
    type: CLEAR_VALIDATE_PARAMS,
    payload: { pathMethod: payload }
  }
}

export function changeConsumesValue(path, value) {
  return {
    type: UPDATE_OPERATION_META_VALUE,
    payload: { path, value, key: "consumes_value" }
  }
}

export function changeProducesValue(path, value) {
  return {
    type: UPDATE_OPERATION_META_VALUE,
    payload: { path, value, key: "produces_value" }
  }
}

export const setResponse = (path, method, res) => {
  return {
    payload: { path, method, res },
    type: SET_RESPONSE
  }
}

export const setRequest = (path, method, req) => {
  return {
    payload: { path, method, req },
    type: SET_REQUEST
  }
}

export const setMutatedRequest = (path, method, req) => {
  return {
    payload: { path, method, req },
    type: SET_MUTATED_REQUEST
  }
}

export const logRequest = (req) => {
  return {
    payload: req,
    type: LOG_REQUEST
  }
}

export const executeRequest = (req) => {
  ({fn, specActions, specSelectors, getConfigs, oas3Selectors}) => {
    let { pathName, method, operation } = req
    let { requestInterceptor, responseInterceptor } = getConfigs()

    let op = operation.toJS()

    // ensure that explicitly-included params are in the request
    if (operation && operation.get("parameters")) {
      let params = operation.get("parameters")
        .filter(param => param && param.get("allowEmptyValue") === true)
        .forEach(param => {
          let key = param.getName()
          set(req.params, key, param.getValue())
          set(req.body, key, param.getValue())
        })
    }

    // if url is relative, parseUrl makes it absolute by inferring from window.location
    req.contextUrl = parseUrl(req.url, window.location)

    // let Swagger Client treat it as present but empty
    req.params = req.params || {}
    req.body = req.body || {}

    // if url is relative, parseUrl makes it absolute by inferring from window.location
    req.contextUrl = parseUrl(req.url, window.location)

    // let Swagger Client treat it as present but empty
    req.params = req.params || {}
    req.body = req.body || {}
```javascript
parseUrl(specSelectors.url()).toString()

    if(op && op.operationId) {
      req.operationId = op.operationId
    } else if(specSelectors.isOAS3()) {
      const namespace = `{pathName}:${method}`
      req.server = oas3Selectors.selectedServer(namespace)
      oas3Selectors.serverVariables({
        server: req.server, namespace
      }).toJS()
    }

    if(specSelectors.isOAS3()) {
      const namespace = `{pathName}:${method}`
      req.server = oas3Selectors.selectedServer(namespace)
      oas3Selectors.serverVariables({
        server: req.server, namespace
      }).toJS()
    }

    const globalVariables = Object.keys(namespaceVariables).length
    req.requestContentType = oas3Selectors.requestContentType(pathName, method)
    req.responseContentType = oas3Selectors.responseContentType(pathName, method)
    const requestBody = oas3Selectors.requestBodyValue(pathName, method)
    const requestBodyInclusionSetting = oas3Selectors.requestBodyInclusionSetting(pathName, method)

    if(isJSONObject(requestBody)) {
      req.requestBody = JSON.parse(requestBody)
    } else if(requestBody && requestBody.toJS) {
      req.requestBody = requestBody
        .map(val => {
          if (Map.isMap(val)) {
            return val.get("value")
          }
          return val
        })
        .filter(value, key => !isEmptyValue(value) || requestBodyInclusionSetting.get(key))
        .toJS()
    } else {
      req.requestBody = requestBody
    }

    let parsedRequest = Object.assign({}, req)
    parsedRequest = fn.buildRequest(parsedRequest)

    specActions.setRequest(req.pathName, req.method, parsedRequest)

    let requestInterceptorWrapper = function(r) {
      let mutatedRequest = requestInterceptor.apply(this, [r])
      let parsedMutatedRequest = Object.assign({}, mutatedRequest)
      specActions.setMutatedRequest(req.pathName, req.method, parsedMutatedRequest)
      return mutatedRequest
    }

    req.requestInterceptor = requestInterceptorWrapper
    req.responseInterceptor = responseInterceptor

    // track duration of request
    const startTime = Date.now()

    return fn.execute(req)
      .then(res => {
        res.duration = Date.now() - startTime
        specActions.setResponse(req.pathName, req.method, res)
      })
      .catch(err => {
        console.error(err)
        specActions.setResponse(req.pathName, req.method, {
          error: true, err: serializeError(err)
        })
      })

// I'm using extras as a way to inject properties into the final, 'execute' method - It's not great. Anyone have a better idea? @ponelat
export const execute = ( { path, method, ...
```
they might not line up

var obj = opList[0]; // eslint-disable-next-line no-underscore-dangle

obj.__originalOperationId = obj.__originalOperationId || operation.operationId;

if (method !== 'parameters') {
  // Add inherited consumes, produces, parameters, securities
  var inheritsList = [];
  var toBeInHerit = {};

  // Global-levels
  // eslint-disable-next-line no-restricted-syntax
  for (var key in spec) {
    if (key === 'produces' || key === 'consumes' || key === 'security') {
      toBeInHerit[key] = spec[key];
    }
  }

  // eslint-disable-next-line no-underscore-dangle
  inheritsList.push(toBeInHerit);

  // Path-levels
  if (pathParameters) {
    toBeInherit.parameters = pathParameters;
    inheritsList.push(toBeInherit);
  }

  if (inheritsList.length) {
    // eslint-disable-next-line no-restricted-syntax
    var _iterator = _createForOfIteratorHelper(inheritsList),
        _step;

    try {
      for (_iterator.s(); !(_step = _iterator.n()).done;) {
        var inherits = _step.value;

        // eslint-disable-next-line no-restricted-syntax
        for (var inheritName in inherits) {
          if (!operation[inheritName]) {
            operation[inheritName] = inherits[inheritName];
          } else if (inheritName === 'parameters') {
            // eslint-disable-next-line no-restricted-syntax
            var _iterator2 = _createForOfIteratorHelper(inherits[inheritName]),
                _step2;

            try {
              var _loop2 = function _loop2() {
                var param = _step2.value;

                var exists = operation[inheritName].some(function (opParam) {
                  return opParam.name && opParam.name === param.name || opParam.$ref && opParam.$ref === param.$ref || opParam.$$ref && opParam.$$ref === param.$$ref || opParam === param;
                });

                if (!exists) {
                  operation[inheritName].push(param);
                }
              };

              for (_iterator2.s(); !(_step2 = _iterator2.n()).done;) {
                _loop2();
              }
            } catch (err) {
              _iterator2.e(err);
            } finally {
              _iterator2.f();
            }
          }
        }
      }
    } catch (err) {
      _iterator.e(err);
    } finally {
      _iterator.f();
    }
  }
}

// Actions

export const UPDATE_SELECTED_SERVER = "oas3_set_servers"
export const UPDATE_REQUEST_BODY_VALUE = "oas3_set_request_body_value"
export const UPDATE_REQUEST_BODY_INCLUSION = "oas3_set_request_body_inclusion"
export const UPDATE_REQUEST_CONTENT_TYPE = "oas3_set_request_content_type"
export const UPDATE_RESPONSE_CONTENT_TYPE = "oas3_set_response_content_type"
export const UPDATE_SERVER_VARIABLE_VALUE = "oas3_set_server_variable_value"
export const UPDATE_ACTIVE_EXAMPLES_MEMBER = "oas3_set_active_examples_member"
export const UPDATE_REQUEST_CONTENT_TYPE = "oas3_set_request_content_type"
export const UPDATE_SERVER_VARIABLE_VALUE = "oas3_set_server_variable_value"
export const UPDATE_RESPONSE_CONTENT_TYPE = "oas3_set_response_content_type"
UPDATE_REQUEST_BODY_VALUE,
payload: { value, pathMethod } | return

export function setRequestBodyInclusion({ value, pathMethod, name }) {
  return {
    type: UPDATE_REQUEST_BODY_INCLUSION,
    payload: { value, pathMethod, name }
  }
}

export function setActiveExamplesMember({ name, pathMethod, contextType, contextName }) {
  return {
    type: UPDATE_ACTIVE_EXAMPLES_MEMBER,
    payload: { name, pathMethod, contextType, contextName }
  }
}

export function setRequestContentType({ value, pathMethod }) {
  return {
    type: UPDATE_REQUEST_CONTENT_TYPE,
    payload: { value, pathMethod }
  }
}

export function setResponseContentType({ value, path, method }) {
  return {
    type: UPDATE_RESPONSE_CONTENT_TYPE,
    payload: { value, path, method }
  }
}

export function setServerVariableValue({ server, namespace, key, val }) {
  return {
    type: UPDATE_SERVER_VARIABLE_VALUE,
    payload: { server, namespace, key, val }
  }
}

export const setRequestBodyValidateError = ({ path, method, validationErrors }) => {
  return {
    type: SET_REQUEST_BODY_VALIDATE_ERROR,
    payload: { path, method, validationErrors }
  }
}

export const clearRequestBodyValidateError = ({ path, method }) => {
  return {
    type: CLEAR_REQUEST_BODY_VALIDATE_ERROR,
    payload: { path, method }
  }
}

var isObject = require('./_is-object');
module.exports = function (it) {
  if (!isObject(it)) throw
  TypeError(it + ' is not an object!');
  return it;
};

/**
 * Checks if `value` is classified as an `Array` object.
 * @static
 * @memberOf _
 * @since 0.1.0
 * @category Lang
 * @param {*} value The value to check.
 * @returns {boolean} Returns `true` if `value` is an array, else `false`.
 * @example
 * _.isArray(
 *   [1, 2, 3]
 * );
 * // => true
 * .
 * _.isArray(document.body.children);
 * // => false
 */
var isArray = Array.isArray;

module.exports = isArray;

/**
 * Checks if `value` is the language type of `Object`.
 * (e.g. arrays, functions, objects, regexes, `new Number(0)`, and `new String('')`)
 * @static
 * @memberOf _
 * @since 0.1.0
 * @category Lang
 * @param {*} value The value to check.
 * @returns {boolean} Returns `true` if `value` is an object, else `false`.
 * @example
 * _.isObject({});
 * // => true
 * .
 * _.isObject(
 *   [1, 2, 3]
 * );
 * // => true
 * .
 * _.isObject(_.noop);
 * // => true
 * .
 * _.isObject(null);
 * // => false
 */
function isObject(value) {
  var type = typeof value;
  return value != null && (type == 'object' || type == 'function');
}

module.exports = isObject;

module.exports = require("classnames");

var baseGet = require('./_baseGet');

/**
 * Gets the value at `path` of `object`. If the resolved value is `undefined`, the `defaultValue` is
 * returned in its place.
 * @static
 * @memberOf _
 * @since 3.7.0
 * @category Object
 * @param {Object} object The object to query.
 * @param {Array|string} path The path of the property to get.
 * @param {*} [defaultValue] The value returned for `undefined` resolved
 * values.
 * @returns {*} Returns the resolved value.
 * @example
 * var object = { 'a': { 'b': { 'c': 3 } } };
 * _.get(object, 'a.b.c');
 * // => 3
 * .
 * _.get(object, 
 *   'a[0].b.c'
 * );
 * // => 3
 * .
 * _.get(object, 'a.b.c', 'default');
 * // => default
 */
function get(object, path, defaultValue) {
  var isObject = require('./_is-object');
  module.exports = function (it) {
    if (!isObject(it)) throw
    TypeError(it + ' is not an object!');
    return it;
  };
function isObject(value) {
  var type = typeof value;
  return value != null
    && (type == 'object' || type == 'function');
}

module.exports = isObject;

var freeGlobal = require('./_freeGlobal');

/** Detect free variable 'self'. */
var freeSelf = typeof self == 'object' && self
  && self.Object === Object && self;

/** Used as a reference to the global object. */
var root = freeGlobal || freeSelf
  || Function('return this')();

module.exports = root;

module.exports = require("core-js/library/fn/array/from");
module.exports = require("core-js/library/fn/object/get-own-property-descriptors");
module.exports = require("deep-extend");
var _getIterator = require("../core-js/get-iterator");

var _Array$isArray = require("../core-js/array/is-array");
var _Symbol$iterator = require("../core-js/symbol/iterator");
var _Symbol = require("../core-js/symbol");

function _createForOfIteratorHelper(o, allowArrayLike) {
  var it;

  if (typeof _Symbol === "undefined" || o[_Symbol$iterator] == null) {
    if (_Array$isArray(o) || (it = unsupportedIterableToArray(o)) || allowArrayLike
      && o && typeof o.length === "number") {
      if (it) o = it;
      var i = 0;

      var F = function F() {};

      return {
        s: F,
        n: function n() {
          if (i >= o.length) return {
            done: true
          };

          return {
            done: false,
            value: o[i++]
          };
        },
        e: function e(_e) {
          throw _e;
        },
        f: F
      };
    }

    throw new TypeError("Invalid attempt to iterate non-iterable instance.\nIn order
    to be iterable, non-array objects must have a 
    [Symbol.iterator]() method.\n")
  }

  var normalCompletion = true,
      didErr = false,
      err;
  return {
    s: function s() {
      it = _getIterator(o);
    },
    n: function n() {
      var step = it.next();
      normalCompletion = step.done;
      return step;
    },
    e: function e(_e2) {
      didErr = true;
      err = _e2;
    },
    f: function f() {
      try {
        if (!normalCompletion && &if(!returnValue) !==
          null || IOError) throw err;
      } finally {
        if (didErr) throw err;
      }
    }
  };
}

module.exports = _createForOfIteratorHelper;

var hasOwnProperty = {}.hasOwnProperty;
module.exports = function (it, key) {
  return hasOwnProperty.call(it, key);
};

// to indexed object, toObject with fallback for non-array-like ES3
strings
var IObject = require('./_iobject');
var defined = require('./_defined');
module.exports = function (it) {
  return IObject(defined(it));
};

// optional / simple context binding
var aFunction = require('./_a-function');
module.exports = function (fn, that, length) {
  aFunction(fn);
  if (that === undefined) return fn;
  switch (length) {
    case 1: return function (a) {
      return fn.call(that, a);
    };
    case 2: return function (a, b) {
      return fn.call(that, a, b);
    };
    case 3: return function (a, b, c) {
      return fn.call(that, a, b, c);
    };
  }
  return function (/* ...args */) {
    return fn.apply((that, arguments));
  };
}

function _createForOfIteratorHelperLoose(o, allowArrayLike) {
  var it;

  if (typeof _Symbol === "undefined" || o[_Symbol$iterator] == null) {
    if (_Array$isArray(o) || (it = unsupportedIterableToArray(o)) || allowArrayLike
      && o && typeof o.length === "number") {
      if (it) o = it;
      var i = 0;

      var F = function F() {};

      return {
        s: F,
        n: function n() {
          if (i >= o.length) return {
            done: true
          };

          return {
            done: false,
            value: numericCast([i++])
          };
        },
        e: function e(_e) {
          throw _e;
        },
        f: F
      };
    }

    throw new TypeError("Invalid attempt to iterate non-iterable instance.\nIn order
    to be iterable, non-array objects must have a 
    [Symbol.iterator]() method.\n")
  }

  var normalCompletion = true,
      didErr = false,
      err;
  return {
    s: function s() {
      it = _getIterator(o);
    },
    n: function n() {
      var step = it.next();
      normalCompletion = step.done;
      return step;
    },
    e: function e(_e2) {
      didErr = true;
      err = _e2;
    },
    f: function f() {
      try {
        if (!normalCompletion && &if(!returnValue) !==
          null || IOError) throw err;
      } finally {
        if (didErr) throw err;
      }
    }
  };
}

module.exports = _createForOfIteratorHelperLoose;
createSelector(
  state,
  spec => spec.get("json", Map())
)

export const specResolved = createSelector(
  state,
  spec => spec.get("resolved", Map())
)

export const specResolvedSubtree = (state, path) => {
  let res = specJson(state)

  if (Map.isMap(res) && Map.isMap(path)) {
    let newVal = spec.get("$ref")
    const mergerFn = (oldVal, newVal) => {
      if(Map.isMap(oldVal) && Map.isMap(newVal)) {
        if(newVal.get("$$ref")) {
          // resolver artifacts indicated
          // that this key was directly resolved
          // so we should drop the value entirely
          return newVal
        }
        return OrderedMap().mergeWith(mergerFn, oldVal, newVal)
      }
      return newVal
    }
    return OrderedMap().mergeWith(mergerFn, spec.get("json"), spec.get("resolvedSubtrees"))
  }
  return state
}

export const specResolvedSubtree = (state, path) => {
  return state.getIn(["resolvedSubtrees", ...path], undefined)
}

const mergerFn = (oldVal, newVal) => {
  if(Map.isMap(oldVal) && Map.isMap(newVal)) {
    if(newVal.get("$$ref")) {
      // resolver artifacts indicated
      // that this key was directly resolved
      // so we should drop the value entirely
      return newVal
    }
    return OrderedMap().mergeWith(mergerFn, oldVal, newVal)
  }
  return newVal
}

export const specJsonWithResolvedSubtrees = createSelector(
  state,
  spec => OrderedMap().mergeWith(mergerFn, spec.get("json"), spec.get("resolvedSubtrees"))
)

// Default Spec
export const spec = state => {
  let res = specJson(state)
  return res
}

export const operationsWithRootInherited = createSelector(
  operations,
  consumes,
  produces,
  (operations, consumes, produces) => {
    return operations.map(ops => {
      if(ops) {
        if(!Map.isMap(ops)) { return }
        return ops.withMutations(ops => {
          if(!ops.get("consumes")) {
            ops.update("consumes", a => Set(a).merge(consumes))
          }
          if(!ops.get("produces")) {
            ops.update("produces", a => Set(a).merge(produces))
          }
          return ops
        })
      } else {
        // return something with Immutable methods
        return Map()
      }
    })
  }
)

export const operationsWithTags = createSelector(
  operationsWithRootInherited,
  tags,
  (operations, tags) => {
    return operations.reduce((taggedMap, op) => {
      let tags = Set(op.getIn(["operation","tags"], []))
      if(tags.count() < 1) {
        return taggedMap.update(DEFAULT_TAG, List(), ar => ar.push(op))
      }
      return tags.reduce((res, tag) => res.update(tag, List(), (ar) => ar.push(op)), taggedMap)
    }, () => OrderedMap())
  }
)

// Export selectors and utilities

export const findDefinition = (state, name) => {
  const resolvedRes = state.getIn(["resolvedSubtrees", "definitions", name], null)
  const unresolvedRes = state.getIn(["json", "definitions", name], null)
  return resolvedRes || unresolvedRes || null
}

export const definitions = createSelector(
  spec,
  spec => Map.isMap(spec) ? spec : Map()
)

export const basePath = createSelector(
  spec,
  spec => spec.get("basePath")
)

export const host = createSelector(
  spec,
  spec => spec.get("host")
)

export const schemes = createSelector(
  spec,
  spec => spec.get("schemes", Map())
)

export const operationsWithTags = createSelector(
  operationsWithRootInherited,
  tags,
  (operations, tags) => {
    return operations.reduce((taggedMap, op) => {
      let tags = Set(op.getIn(["operation","tags"], []))
      if(tags.count() < 1) {
        return taggedMap.update(DEFAULT_TAG, List(), ar => ar.push(op))
      }
      return tags.reduce((res, tag) => res.update(tag, List(), (ar) => ar.push(op)), taggedMap)
    }, () => OrderedMap())
  }
)

// Export selectors and utilities
operationsSorter } = getConfigs()

return operationsWithTags(state)

.sortBy((val, key) => key) // get the name of the tag to be passed to the sortern

(tagA, tagB) => {
  let sortFn = (typeof tagsSorter === "function" ? tagsSorter : sorters.tagsSorter)

  return (sortFn ? sortFn(tagA, tagB) : tagA.toString().localeCompare(tagB.toString()))

})

.map(ops, tag) => {
  let sortFn = (typeof operationsSorter === "function" ? operationsSorter : sorters.operationsSorter)

  return Map({
    tagDetails: tagDetails(state, tag),
    operations: operations: operations )
  })

  .sortBy(
    (val, key) => key, // get the name of the tag to be passed to the sorter
    (tagA, tagB) => {
      let sortFn = (typeof tagsSorter === "function" ? tagsSorter : sorters.tagsSorter[tagsSorter])

      return (sortFn ? sortFn(tagA, tagB) : tagA.toString().localeCompare(tagB.toString()))
    }
  )

  .map((ops, tag) => {
    let sortFn = (typeof operationsSorter === "function" ? operationsSorter : sorters.operationsSorter)

    let operations = (!sortFn ? ops : ops.sort(sortFn))

    return Map({
      tagDetails: tagDetails(state, tag),
      operations: operations
    })
  })
}

export const responses = createSelector(
  state,
  state => state.get("responses", Map())
)

export const requests = createSelector(
  state,
  state => state.get("requests", Map())
)

export const mutatedRequests = createSelector(
  state,
  state => state.get("mutatedRequests", Map())
)

export const responseFor = (state, path, method) => {
  return responses(state).getIn([path, method], null)
}

export const requestFor = (state, path, method) => {
  return requests(state).getIn([path, method], null)
}

export const mutatedRequestFor = (state, path, method) => {
  return mutatedRequests(state).getIn([path, method], null)
}

export const allowTryItOutFor = () => {
  // This is just a hook for now.
  return true
}

export const parameterWithMetaByIdentity = (state, pathMethod, param) => {
  const opParams = specJsonWithResolvedSubtrees(state).getIn(["paths", ...pathMethod,
    "parameters"], OrderedMap())
  const metaParams = state.getIn(["meta", "paths", ...pathMethod,
    "parameters"], OrderedMap())

  const mergedParams = opParams.map((currentParam) => {
    const inNameKeyedMeta = metaParams.get(`${param.get("in")}.${param.get("name")}`)
    const hashKeyedMeta = metaParams.get(`${param.get("in")}.${param.get("name")}.hash-${param.hashCode()}`)

    return OrderedMap().merge(
      currentParam,
      inNameKeyedMeta,
      hashKeyedMeta)
  })

  return mergedParams.find(curr => curr.get("in") === param.get("in") && curr.get("name") === param.get("name"), OrderedMap())
}

export const parameterInclusionSettingFor = (state, pathMethod, paramName, paramIn) => {
  const paramKey = `${paramIn}.${paramName}`

  return state.getIn(["meta", "paths", ...pathMethod,
    "parameter_inclusions", paramKey], false)
}

export const parameterWithMeta = (state, pathMethod, paramName, paramIn) => {
  const opParams = specJsonWithResolvedSubtrees(state).getIn(["paths", ...pathMethod,
    "parameters"], List())
  const currentParam = opParams.find(param => param.get("in") === paramIn)

  return parameterWithMetaByIdentity(state, [path, method], currentParam)
}

export const operationWithMeta = (state, path, method) => {
  const op = specJsonWithResolvedSubtrees(state).getIn(["paths", path, method], fromJS({}))
  const meta = state.getIn(["meta", "paths", path, method], fromJS({}))

  let mergedParams = op.get("parameters", List()).map((param) => {
    return parameterWithMetaByIdentity(state, [path, method], param)
  })

  return OrderedMap().merge(op, meta)
    .set("parameters", mergedParams)
    .toJS()
}

export function getParameter(state, pathMethod, name, inType) {
  pathMethod = pathMethod || 

  let params = state.getIn(["meta", "paths", ...pathMethod,
    "parameters"], fromJS({}))

  return params.find( (p) => {
    return Map.isMap(p) &&
    p.get("name") === name && p.get("in") === inType
  }) || Map() // Always return a map
}

export const hasHost = createSelector(
  spec,
  spec => {
    const host = spec.get("host")

    return typeof host === "string" && host.length > 0 && host[0] !== "/"
  }
)

// Get the consumes/produces value that the user selected
export function contentTypeValues(state, pathMethod) {
  pathMethod = pathMethod || 

  let op = specJsonWithResolvedSubtrees(state).getIn(["paths", ...pathMethod,
    "parameters"], fromJS({}))

  let contentTypes = op.get("consumes", List()).map((param) => {
    return contentType(state, [path, method], param)
  })

  return contentTypes.reduce((hash, p) => {
    let value = p.get("value")
    return hash.set(paramToIdentifier(p, allowHashes: false), value)
  }, fromJS({})).toJS()
}

// True if any parameter includes `in: ?`
export function parametersIncludeIn(parameters, inValue="") {
  if(List.isList(parameters)) {
    return parameters.some( p => Map.isMap(p) &&
    p.get("in") === inValue)
  }
}

// True if any parameter includes `type: ?`
export function parametersIncludeType(parameters, typeValue="") {
  if(List.isList(parameters)) {
    return parameters.some( p => Map.isMap(p) &&
    p.get("type") === typeValue)
  }
}

// Get the consumes/produces value that the user selected
export function contentTypeValues(state, pathMethod) {
  pathMethod = pathMethod || 

  let op = specJsonWithResolvedSubtrees(state).getIn(["paths", ...pathMethod], fromJS({}))

  let contentTypes = op.get("consumes", List()).map((param) => {
    return contentType(state, [path, method], param)
  })

  return contentTypes.reduce((hash, p) => {
    let value = p.get("value")
    return hash.set(paramToIdentifier(p, allowHashes: false), value)
  }, fromJS({})).toJS()
}

// True if any parameter includes `in: ?`
export function parametersIncludeIn(parameters, inValue="") {
  if(List.isList(parameters)) {
    return parameters.some( p => Map.isMap(p) &&
    p.get("in") === inValue)
  }
}

// True if any parameter includes `type: ?`
export function parametersIncludeType(parameters, typeValue="") {
  if(List.isList(parameters)) {
    return parameters.some( p => Map.isMap(p) &&
    p.get("type") === typeValue)
  }
}
producesValue = currentProducesFor(state, pathMethod) || new List().

const requestContentType = (meta.get("consumes_value") || meta.get("consumes_value"))

parametersIncludeType(parameters, "file") ? paramsIncludeType(parameters, "formData") ? "/application/x-www-form-urlencoded" : undefined

return fromJS(

responseContentType: producesValue
)

// Get the currently selected produces value for an operation
export function currentProducesFor(state, pathMethod) {

  pathMethod = pathMethod || []

  const operation = specJsonWithResolvedSubtrees(state).getIn(["paths", ..., pathMethod], null)

  if (operation === null) {
    // return nothing if the operation does not exist
    return
  }

  const currentProducesValue = state.getIn(["meta", "paths", ..., pathMethod, "produces_value"], null)

  return currentProducesValue

}

// Get the produces options for an operation
export function producesOptionsFor(state, pathMethod) {

  pathMethod = pathMethod || []

  const spec = specJsonWithResolvedSubtrees(state)

  const operation = specJsonWithResolvedSubtrees(state).getIn(["paths", ..., pathMethod], null)

  if (operation === null) {
    // return nothing if the operation does not exist
    return
  }

  const pathItemProduces = specJsonWithResolvedSubtrees(state).getIn(["paths", ..., pathMethod], null)

  return pathItemProduces || currentProducesValue || "application/json"

}

// Get the consumes options for an operation
export function consumesOptionsFor(state, pathMethod) {

  pathMethod = pathMethod || []

  const spec = specJsonWithResolvedSubtrees(state)

  const operation = specJsonWithResolvedSubtrees(state).getIn(["paths", ..., pathMethod], null)

  if (operation === null) {
    // return nothing if the operation does not exist
    return
  }

  const consumesOptions = operation.get("consumes", null)

  return consumesOptions || pathItemConsumes || globalConsumes

}

// Get the consumes options for an operation
export function consumesOptionsFor(state, pathMethod) {

  pathMethod = pathMethod || []

  const spec = specJsonWithResolvedSubtrees(state)

  const operation = specJsonWithResolvedSubtrees(state).getIn(["paths", ..., pathMethod], null)

  if (operation === null) {
    // return nothing if the operation does not exist
    return
  }

  const consumesOptions = operation.get("consumes", null)

  return consumesOptions || pathItemConsumes || globalConsumes

}

export const operationScheme = (state, path, method) => {

  let url = state.get("url")

  let matchResult = url.match(/^([a-z][a-z0-9+\- .]*):/)

  let urlScheme = Array.isArray(matchResult) ? matchResult[1] : null

  return state.get(["scheme", path, method])

}

export const canExecuteScheme = (state, path, method) => {

  return ["http", "https"].indexOf(operationScheme(state, path, method)) > -1

}

export const validateBeforeExecute = (state, pathMethod) => {

  pathMethod = pathMethod || []

  let paramValues = state.get(["meta", "paths", ..., pathMethod, "parameters"], fromJS([]))

  let isValid = true

  paramValues.forEach((p) => {

    let errors = p.get("errors")

    if (errors && errors.count()) {

      isValid = false
    }

  })

  return isValid

}

export const getOAS3RequiredRequestBodyContentType = (state, pathMethod) => {

  let requiredObj = {

    requestBody: false,

    requestContentType: {}

  }

  let requestBody = state.get(["resolvedSubtrees", "paths", ..., pathMethod, "requestBody"], fromJS([]))

  if (requestBody.size < 1) {

    return requiredObj

  }

  if (requestBody.getIn(["required"], true)) {

    requiredObj.requestBody = requestBody.getIn(["required"], true)

  }

  requestBody.getIn(["content"]).entrySeq().forEach((contentType) => { // e.g application/json

    const key = contentType[0]

    if (contentType[1].get("schema", "required")) {

      requiredObj.requestContentType[key] = contentType[1].get("schema", "required")

    }

  })

  return requiredObj

}

function returnSelfOrNewMap(obj) {

  return Map.isMap(obj) ? obj : new Map()

}

function asyncGeneratorStep(gen, resolve, reject, _next, _throw, key, arg) {

  try {

    var info = gen[key](arg);

    var value = info.value;

  } catch (error) {

    reject(error);

    return;

  }

  if (info.done) {

    resolve(value);

  } else {

    _Promise.resolve(value).then(_next, _throw);

  }

  _next(undefined);
}

function _asyncToGenerator(fn) {

  return function () {

    var self = this,

    var args = arguments;

    var returnNext = this._return;

    var thisFunction = thisFunction.bind(this);

    var functionNext = thisFunction.next;

    var functionValue = thisFunction.value;

    var functionArg = thisFunction.arg;

    thisFunction = thisFunction.bind(this);

    functionNext = functionNext.bind(this);

    functionValue = functionValue.bind(this);

    functionArg = functionArg.bind(this);

    return {

      _return: function () {

        var next = function () {

          var val = this.returnValue;

          if (val.done) {

            return {

              value: val.value,

              done: val.done

            }

          } else {

            var _function = thisFunction.bind(this, val.value);

            _next = function _next(throwValue) {

              var _next = functionNext.bind(this);

              var _val = functionValue.bind(this);

              var _arg = functionArg.bind(this);

              var _next = _next.bind(this);

              var _throw = function _throw(err) {

                var _arg = functionArg.bind(this, err);

                var _next = _next(throwValue);

                return {

                  value: _val(err),

                  done: throwValue

                }

              }

              var _next = _next.bind(this);

              var _return = function _return(err) {

                var _arg = functionArg.bind(this, err);

                var _next = _next(throwValue);

                return {

                  value: _val(err),

                  done: throwValue

                }

              }

              var _next = _next.bind(this);

              var _throw = _throw.bind(this);

              var _next = _next.bind(this);

              var _return = _return.bind(this);

              var _throw = _throw.bind(this);

              var _next = _next.bind(this);

              var _return = _return.bind(this);

              var _throw = _throw.bind(this);

              var _next = _next.bind(this);

              var _return = _return.bind(this);

              var _throw = _throw.bind(this);

              var _next = _next.bind(this);

              var _return = _return.bind(this);

              var _throw = _throw.bind(this);

              var _next = _next.bind(this);

              var _return = _return.bind(this);

              var _throw = _throw.bind(this);

              var _next = _next.bind(this);

              var _return = _return.bind(this);

              var _throw = _throw.bind(this);

              var _next = _next.bind(this);

              var _return = _return.bind(this);

              var _throw = _throw.bind(this);

              var _next = _next.bind(this);

              var _return = _return.bind(this);

              var _throw = _throw.bind(this);

              var _next = _next.bind(this);

              var _return = _return.bind(this);

              var _throw = _throw.bind(this);

              var _next = _next.bind(this);

              var _return = _return.bind(this);

              var _throw = _throw.bind(this);

              var _next = _next.bind(this);

              var _return = _return.bind(this);

              var _throw = _throw.bind(this);

              var _next = _next.bind(this);

              var _return = _return.bind(this);

              var _throw = _throw.bind(this);

              var _next = _next.bind(this);

              var _return = _return.bind(this);

              var _throw = _throw.bind(this);

              var _next = _next.bind(this);

              var _return = _return.bind(this);

              var _throw = _throw.bind(this);

              var _next = _next.bind(this);

              var _return = _return.bind(this);

              var _throw = _throw.bind(this);

              var _next = _next.bind(this);

              var _return = _return.bind(this);

              var _throw = _throw.bind(this);

              var _next = _next.bind(this);

              var _return = _return.bind(this);

              var _throw = _throw.bind(this);

              var _next = _next.bind(this);

              var _return = _return.bind(this);

              var _throw = _throw.bind(this);

              var _next = _next.bind(this);

              var _return = _return.bind(this);

              var _throw = _throw.bind(this);

              var _next = _next.bind(this);

              var _return = _return.bind(this);

              var _throw = _throw.bind(this);

              var _next = _next.bind(this);

              var _return = _return.bind(this);

              var _throw = _throw.bind(this);

              var _next = _next.bind(this);

              var _return = _return.bind(this);

              var _throw = _throw.bind(this);

              var _next = _next.bind(this);

              var _return = _return.bind(this);

              var _throw = _throw.bind(this);

              var _next = _next.bind(this);

              var _return = _return.bind(this);

              var _throw = _throw.bind(this);

              var _next = _next.bind(this);

              var _return = _return.bind(this);

              var _throw = _throw.bind(this);

              var _next = _next.bind(this);

              var _return = _return.bind(this);

              var _throw = _throw.bind(this);

              var _next = _next.bind(this);

              var _return = _return.bind(this);

              var _throw = _throw.bind(this);

              var _next = _next bind...
Checks if `value` is classified as a `Function` object.

```javascript
function isFunction(value) {
  if (!isObject(value)) {
    return false;
  }
  // The use of `Object#toString` avoids issues with the `typeof` operator
  // in Safari 9 which returns `object` for typed arrays and other
  // constructors.
  var tag = baseGetTag(value);
  return tag == funcTag || tag == genTag || tag == asyncTag || tag == proxyTag;
}
```

```javascript
module.exports = isFunction;
```

The `get` function is described as follows:

```javascript
function get(object, path, defaultValue) {
  var result = object == null ? undefined : baseGet(object, path);
  return result === undefined ? defaultValue : result;
}
```

```javascript
module.exports = get;
```

The `showDefinitions` function is defined as:

```javascript
export function showDefinitions(payload) {
  return {
    type: SHOW_AUTH_POPUP,
    payload: payload
  }
}
```

The `authorize` function is defined as:

```javascript
export function authorize(payload) {
  return {
    type: AUTHORIZE,
    payload: payload
  }
}
```

The `logout` function is defined as:

```javascript
export function logout(payload) {
  return {
    type: LOGOUT,
    payload: payload
  }
}
```

The `preAuthorizeImplicit` function is defined as:

```javascript
export const preAuthorizeImplicit = (payload) => ( { authActions, errActions } ) => {
  let { auth, token, isValid } = payload
  let { schema, name } = auth
  let flow = schema.get("flow")

  // remove oauth2 property from window after redirect from authentication
  delete win.swaggerUIRedirectOauth2

  if ( flow !== "accessCode" && !isValid ) {
    errActions.newAuthErr( {
      authId: name,
      source: "auth",
      level: "warning",
      message: "Authorization may be unsafe, passed state was changed in server Passed state wasn't returned from auth server"
    })
  }

  if ( token.error ) {
    errActions.newAuthErr({
      authId: name,
      source: "auth",
      level: "error",
      message: JSON.stringify(token)
    })
    return
  }

  authActions.authorizeOauth2({ auth, token })
}
```

The `authorizePassword` function is defined as:

```javascript
export const authorizePassword = ( auth ) => ( { authActions } ) => {
  let { schema, name, username, password, passwordType, clientId, clientSecret } = auth
  let form = {
    grant_type: "password",
    scope: auth.scopes.join(scopeSeparator),
    username,
    password
  }
  let query = {}
  let headers = {}

  switch (passwordType) {
    case "request-body":
      setClientIdAndSecret(form, clientId, clientSecret)
      break

    case "basic":
      headers.Authorization = "Basic " + btoa(clientId + ":" + clientSecret)
      break
    default:
      console.warn(`Warning: invalid passwordType ${passwordType} was passed, not including client id and secret`)
  }

  return authActions.authorizeRequest({ body: buildFormData(form), name, url: schema.get("tokenUrl"), headers, query, auth })
}
```

The `authorizeApplication` function is defined as:

```javascript
export const authorizeApplication = ( auth ) => ( { authActions } ) => {
  let { schema, scopes, name, clientId, clientSecret } = auth
  let headers = {
    Authorization: "Basic " + btoa(clientId + ":" + clientSecret)
  }

  return authActions.authorizeRequest({ body: buildFormData(form), name, url: schema.get("tokenUrl"), headers, query, auth })
}
```

The `authorizeAccessCodeWithFormParams` function is defined as:

```javascript
export const authorizeAccessCodeWithFormParams = ( { auth, redirectUrl } ) => {
  let { schema, name, clientId, clientSecret, codeVerifier } = auth
  let form = {
    grant_type: "authorization_code",
    redirect_uri: redirectUrl
  }
  return authActions.authorizeRequest({ body: buildFormData(form), name, url: schema.get("tokenUrl"), headers, query, auth })
}
```
auth.code,
    client_id: clientId,
    client_secret: clientSecret,
    redirect_uri: redirectUrl,
    code_verifier: codeVerifier
  })

return authActions.authorizeRequest({
  body: buildFormData(form),
  name, url: schema.get("tokenUrl"), auth
})
}

export const authorizeAccessCodeWithBasicAuthentication = ( { auth, 
  redirectUrl } ) => ( { authActions } ) => {
  let { schema, name, clientId, clientSecret } = auth
  let headers = {
    "Authorization": "Basic " + btoa(clientId + "":" + clientSecret)
  }

  let form = {
    grant_type: "authorization_code",
    code: auth.code,
    client_id: clientId,
    redirect_uri: redirectUrl
  }

  return authActions.authorizeRequest({body: buildFormData(form), name, url: schema.get("tokenUrl"), auth, 
  headers})
}

export const authorizeAccessCodeWithCodeVerifierParams = ( { auth, 
  redirectUrl } ) => ( { authActions } ) => {
  let { schema, name, clientId, clientSecret } = auth
  let form = {
    grant_type: "authorization_code",
    code: auth.code,
    client_id: clientId,
    code_verifier: codeVerifier
  }

  return authActions.authorizeRequest({body: buildFormData(form), name, url: schema.get("tokenUrl"), auth, 
  form, headers})
}

module.exports = {
  authorizeRequest, 
  authorizeAccessCodeWithBasicAuthentication, 
  authorizeAccessCodeWithCodeVerifierParams
};

Open Source Used In Cisco Modeling Labs 2.2  4485
`undefined` values. The sign of `-0` is preserved.

```javascript
function toString(value) {
  return value == null ? '' : baseToString(value);
}

module.exports = toString;
```

```
export const UPDATE_LAYOUT = "layout_update_layout"
export const UPDATE_FILTER = "layout_update_filter"
export const SHOW = "layout_show"

export function updateLayout(layout) {
  return {
    type: UPDATE_LAYOUT,
    payload: layout
  }
}

export function updateFilter(filter) {
  return {
    type: UPDATE_FILTER,
    payload: filter
  }
}

export function show(thing, shown=true) {
  thing = normalizeArray(thing)
  return {
    type: SHOW,
    payload: {thing, shown}
  }
}

export function changeMode(thing, mode="") {
  thing = normalizeArray(thing)
  return {
    type: UPDATE_MODE,
    payload: {thing, mode}
  }
}
```

```
var dP = require('./_object-dp');
var createDesc = require('./_property-desc');
module.exports = require('./_descriptors') ? function (object, key, value) {
  return dP.f(object, key, createDesc(1, value));
} : function (object, key, value) {
  object[key] = value;
  return object;
};
```

```
var defined = require('./_defined');
module.exports = function (it) {
  return Object(defined(it));
};
```

```
module.exports = function (it) {
  if (typeof it != 'function') throw TypeError(it + ' is not a function!');
  return it;
};
```

```
var baseIsNative = require('./_baseIsNative'),
    getValue = require('./_getValue');

/**
 * Gets the native function at `key` of `object`.
 *
 * @private
 * @param {Object} object The object to query.
 * @param {string} key The key of the method to get.
 * @returns {*} Returns the function if it's native, else `undefined`.
 */
function getNative(object, key) {
  var value = getValue(object, key);
  return baseIsNative(value) ? value : undefined;
}
```

```
/**
 * Performs a
 * 
 * [SameValueZero](http://ecma-international.org/ecma-262/7.0/#sec-samevaluezero)
 * comparison between two values to determine if they are equivalent.
 * @static
 * @memberOf _
 * @since 4.0.0
 * @category Lang
 * @param {*} value The value to compare.
 * @param {*} other The other value to compare.
 * @returns {boolean} Returns `true` if the values are equivalent, else `false`.
 * @example
 * isSameValueZero(1, 1.0);
 * // returns true
 */
function isSameValueZero(value, other) {
return fn(schema)

  return "Unknown Type: " + schema.type
}


export const sampleFromSchema = (schema, config={}) => {
  let { type, properties, additionalProperties, items, example } = objectify(schema)
  let { includeReadOnly, includeWriteOnly } = config
  let
  if(example !== undefined) {
    return
  }
  if(!type) {
    if(properties) {
      type = "object"
    } else if(items) {
      type = "array"
    } else {
      return
    }
  }
  name = name || "notagname"
  // add prefix to name if exists
  let displayName = (prefix ? prefix + ":" : "") + name
  if (namespace) {
    // add prefix to namespace if exists
    let namespacePrefix = ("xmlns:" + namespace)
    _attr[namespacePrefix] = namespace
  }
  if (type === "array") {
    if (items) {
      items.xml = items.xml || {}
      items.xml.name = items.xml.name || xml.name
      // add prefix to namespace if exists
      displayNamespace = (prefix ? prefix + ":" : ":") + name
      let itemsExample = (typeof example === "object" && example !== null) ? example : example
      let itemsDefault = (typeof default === "object" && default !== null) ? default : default
      _attr = (typeof itemsDefault === "object" ? objectify(itemsDefault) : itemsDefault)
      let res = 
        if (Array.isArray(items.anyOf)) {
          return items.anyOf.map(i => sampleFromSchema(i, config))
        }
        if (Array.isArray(items.oneOf)) {
          return items.oneOf.map(i => sampleFromSchema(i, config))
        }
        return [sampleFromSchema(items, config)]
      return sampleFromSchema(items, config)
    }
  }
  if (type === "object") {
    let props = objectify(properties)
    res[displayName] = 
    example = example || {}
    for (let propName in props) {
      if (!props.hasOwnProperty(propName)) {
        continue
      }
      if (props[propName].readOnly && !includeReadOnly) {
        continue
      }
      if (props[propName].writeOnly && !includeWriteOnly) {
        continue
      }
      props[propName].xml = props[propName].xml || {}
      let enumAttrVal = Array.isArray(props[propName].enum) ? props[propName].enum[0] : props[propName].enum
      let attrExample = props[propName].example
      let attrDefault = props[propName].default
      _attr[propName].xml.attribute = enumAttrVal
      let enumAttr = (typeof enumAttrVal === "object" ? objectify(enumAttrVal) : enumAttrVal)
      if (props.hasOwnProperty(propName)) {
        _attr[propName].xml.attribute = enumAttr
        let res = (typeof example === "object" && example !== null) ? example : example
        let itemsExample = (typeof res === "object" && res !== null) ? res : res
        let itemsDefault = (typeof default === "object" && default !== null) ? default : default
        _attr = (typeof itemsDefault === "object" ? objectify(itemsDefault) : itemsDefault)
        let res = 
        if (Array.isArray(items.anyOf)) {
          return items.anyOf.map(i => sampleFromSchema(i, config))
        }
        if (Array.isArray(items.oneOf)) {
          return items.oneOf.map(i => sampleFromSchema(i, config))
        }
        return [sampleFromSchema(items, config)]
      }
    }
  }
  if (type === "file") {
    return
  }
  return primitive(schema)
}

export const inferSchema = (thing) => {
  if (thing.schema)
    thing = thing.schema
  if (thing.properties) {
    thing.type = "object"
  }
  return thing // Hopefully this will have something schema like in it... `type` for example
}


export const sampleXmlFromSchema = (schema, config={}) => {
  let objectifySchema = deepAssign({}, objectify(schema))
  let { type, properties, additionalProperties, items, example } = objectifySchema
  let { includeReadOnly, includeWriteOnly } = config
  let defaultValue = objectifySchema.default
  let res = {}
  let _attr = {}
  let { xml } = schema
  let { name, prefix, namespace } = xml
  let enumValue = objectifySchema.enum
  let displayName, value
  if (!type) {
    if (properties || additionalProperties) {
      type = "object"
    } else if (items) {
      type = "array"
    } else {
      return
    }
  }
  name = name || "notagname"
  // add prefix to name if exists
  displayName = (prefix ? prefix + ":" : "") + name
  if (namespace) {
    // add prefix to namespace if exists
    let namespacePrefix = ("xmlns:" + namespace)
    _attr[namespacePrefix] = namespace
  }
  if (type === "array") {
    if (items) {
      items.xml = items.xml || {}
      items.xml.name = items.xml.name || xml.name
      if (xml.wrapped) {
        res[displayName] = []
        if (Array.isArray(example)) {
          example.forEach((v) => {
            items.example = v
            res[displayName].push(sampleXmlFromSchema(items, config))
          })
        } else if (Array.isArray(defaultValue)) {
          defaultValue.forEach((v) => {
            items.default = v
            res[displayName].push(sampleXmlFromSchema(items, config))
          })
        } else {
          res[displayName] = [sampleXmlFromSchema(items, config)]
        }
      }
      let _res = []
      if (Array.isArray(example)) {
        example.forEach((v) => {
          items.example = v
          _res.push(sampleXmlFromSchema(items, config))
        })
        return _res
      } else if (Array.isArray(defaultValue)) {
        defaultValue.forEach((v) => {
          items.default = v
          _res.push(sampleXmlFromSchema(items, config))
        })
        return _res
      }
      return sampleXmlFromSchema(items, config)
    }
  }
  if (type === "object") {
    let props = objectify(properties)
    res[displayName] = []
    example = example || {}
    for (let propName in props) {
      if (!props.hasOwnProperty(propName)) {
        continue
      }
      if (props[propName].readOnly && !includeReadOnly) {
        continue
      }
      if (props[propName].writeOnly && !includeWriteOnly) {
        continue
      }
      let enumAttrVal = Array.isArray(props[propName].enum) ? props[propName].enum[0] : props[propName].enum
      let attrExample = props[propName].example
      let attrDefault = props[propName].default
      _attr[propName].xml.attribute = enumAttrVal
      let enumAttr = (typeof enumAttrVal === "object" ? objectify(enumAttrVal) : enumAttrVal)
      if (props.hasOwnProperty(propName)) {
        _attr[propName].xml.attribute = enumAttr
        let res = (typeof example === "object" && example !== null) ? example : example
        let itemsExample = (typeof res === "object" && res !== null) ? res : res
        let itemsDefault = (typeof default === "object" && default !== null) ? default : default
        _attr = (typeof itemsDefault === "object" ? objectify(itemsDefault) : itemsDefault)
        let res = 
        if (Array.isArray(items.anyOf)) {
          return items.anyOf.map(i => sampleXmlFromSchema(i, config))
        }
        if (Array.isArray(items.oneOf)) {
          return items.oneOf.map(i => sampleXmlFromSchema(i, config))
        }
        return [sampleXmlFromSchema(items, config)]
      }
    }
  }
  if (type === "file") {
    return
  }
  return primitive(schema)
}

return fn(schema)

  return "Unknown Type: " + schema.type
}

export const sampleFromSchema = (schema, config={}) => {
  let { type, example, properties, additionalProperties, items, schema } = objectify(schema)
  let includeReadOnly, includeWriteOnly = config
  if (example !== undefined) {
    return
  }
  if (!type) {
    if (properties) {
      type = "object"
    } else if (items) {
      type = "array"
    } else {
      return
    }
  }
  name = name || "notagname"
  // add prefix to name if exists
  let displayName = (prefix ? prefix + ":" : "") + name
  if (namespace) {
    // add prefix to namespace if exists
    let namespacePrefix = ("xmlns:" + namespace)
    _attr[namespacePrefix] = namespace
  }
  if (type === "array") {
    if (items) {
      items.xml = items.xml || {}
      items.xml.name = items.xml.name || xml.name
      if (xml.wrapped) {
        res[displayName] = []
        if (Array.isArray(example)) {
          example.forEach((v) => {
            items.example = v
            res[displayName].push(sampleXmlFromSchema(items, config))
          })
        } else if (Array.isArray(defaultValue)) {
          defaultValue.forEach((v) => {
            items.default = v
            res[displayName].push(sampleXmlFromSchema(items, config))
          })
        } else {
          res[displayName] = [sampleXmlFromSchema(items, config)]
        }
      }
      let _res = []
      if (Array.isArray(example)) {
        example.forEach((v) => {
          items.example = v
          _res.push(sampleXmlFromSchema(items, config))
        })
        return _res
      } else if (Array.isArray(defaultValue)) {
        defaultValue.forEach((v) => {
          items.default = v
          _res.push(sampleXmlFromSchema(items, config))
        })
        return _res
      }
      return sampleXmlFromSchema(items, config)
    }
  }
  if (type === "object") {
    let props = objectify(properties)
    res[displayName] = []
    example = example || {}
    for (let propName in props) {
      if (!props.hasOwnProperty(propName)) {
        continue
      }
      if (props[propName].readOnly && !includeReadOnly) {
        continue
      }
      if (props[propName].writeOnly && !includeWriteOnly) {
        continue
      }
      let enumAttrVal = Array.isArray(props[propName].enum) ? props[propName].enum[0] : props[propName].enum
      let attrExample = props[propName].example
      let attrDefault = props[propName].default
      _attr[propName].xml.attribute = enumAttrVal
      let enumAttr = (typeof enumAttrVal === "object" ? objectify(enumAttrVal) : enumAttrVal)
      if (props.hasOwnProperty(propName)) {
        _attr[propName].xml.attribute = enumAttr
        let res = (typeof example === "object" && example !== null) ? example : example
        let itemsExample = (typeof res === "object" && res !== null) ? res : res
        let itemsDefault = (typeof default === "object" && default !== null) ? default : default
        _attr = (typeof itemsDefault === "object" ? objectify(itemsDefault) : itemsDefault)
        let res = 
        if (Array.isArray(items.anyOf)) {
          return items.anyOf.map(i => sampleXmlFromSchema(i, config))
        }
        if (Array.isArray(items.oneOf)) {
          return items.oneOf.map(i => sampleXmlFromSchema(i, config))
        }
        return [sampleXmlFromSchema(items, config)]
      }
    }
  }
  if (type === "file") {
    return
  }
  return primitive(schema)
attrExample
  || example[propName] !== undefined && example[propName] || attrDefault !== undefined &
attrDefault
  || enumAttrVal || primitive(props[propName])} else {
  props[propName].xml.name = props[propName].xml.name || propName
  if (Array.isArray(example)) {
    res[displayName].concat(t)[] else {
      res[displayName].push(t)[] in undefined if
    (additionalProperties === true) {
      res[displayName].push({additionalProp:
        \"Anything can be here\")}[] else
    (additionalProperties) {
      res[displayName].push({additionalProp:primitive(additionalProperties)})}
  }[] in undefined if
  (_attr) { res[displayName].push({_attr: _attr})}[] in undefined if
  (example !== undefined &&
example[propName] !== undefined) {
    props[propName].example = example[propName]
  }[] else {
    let t = sampleXmlFromSchema(props[propName])[] else {
      res[displayName].push(t)[] in undefined if
    (example !== undefined) {
      props[propName].example = example[propName]
    }[] else if (defaultValue !== undefined) {
      props[propName].example = defaultValue
    } else if (Array.isArray(enumValue)) {
      value = enumValue[0]
    } else {
      value = primitive(schema)
    }
  }[] else {
    value = primitive(schema)
  }
  res[displayName] = _attr ? 
    [{_attr: _attr}, value] : value
  return res
}

export function createXMLExample(schema, config) {
  let json = sampleXmlFromSchema(schema, config)
  if (!json) { return }
  return XML(json, { declaration: true, indent: \"\" })
}

export const memoizedCreateXMLExample = memoizee(createXMLExample)

export const memoizedSampleFromSchema = memoizee(sampleFromSchema)

export const UPDATE_CONFIGS = \"configs_update\"
export const TOGGLE_CONFIGS = \"configs_toggle\"

// Update the configs, with a merge (not deep)
export function update(configName, configValue) {
  return {
    type: UPDATE_CONFIGS,
    payload: {
      [configName]: configValue
    },
  }
}

// Toggle's the config, by name/export function toggle(confi
export function toggle(configName) {
  return {
    type: TOGGLE_CONFIGS,
    payload: configName,
  }
}


// Hook
export const loaded = () => () => {}

/**
 * @prettier
 */

import Im from "immutable"

const swagger2SchemaKeys = Im.Set.of(
  \"type\", \"format\", \"items\", \"default\", \"maximum\", \"exclusiveMaximum\", \"minimum\", \"exclusiveMinimum\", \"maxLength\", \"minLength\", \"pattern\", \"maxItems\", \"minItems\", \"uniqueItems\", \"enum\", \"multipleOf\")*/

@typedef {Object} ParameterSchemaDescriptor
  @property {Immutable.Map} schema - the parameter schema
  @property {string|null} parameterContentMediaType - the effective media type, for \"content\"-based OpenAPI 3.0 Parameters, or \"null\" otherwise
  @property {object} config
    @param {boolean} config.isOAS3 Whether the parameter is from an OpenAPI 2.0\n or OpenAPI 3.0 definition
  @return {ParameterSchemaDescriptor} Information about the parameter schema
*/

export default function getParameterSchema(parameter, { isOAS3 } = {}) {
  // Return empty Map if
  if (!Im.Map.isMap(parameter)) {
    return {
      schema: Im.Map(),
      parameterContentMediaType: null,
    }
  }

  if (!isOAS3) {
    // Swagger 2.0
    if (parameter.get(\"in\") === \"body\") {
      return {
        schema: parameter.get(\"schema\", Im.Map()),
        parameterContentMediaType: null,
      }
    }
  }

  // If we've reached here, the parameter is OpenAPI 3.0\n  if (parameter.get(\"content\")) {
    const parameterContentMediaTypes = parameter.get(\"content\", Im.Map())
    return {
      schema: parameter.getIn(\"\"keySeq(\"content\"),\"constant\"");
      parameterContentMediaTypes = parameterContentMediaTypes.first()
    }
  }

  // Thank's IE8 for his funny defineProperty\n  module.exports = function
  return Object.defineProperty({}, \"\", { get: () => { return 7; } })
}
function castPath(value, object) {
  if (isArray(value)) {
    return value;
  }
  return isKey(value, object) ? [value] : stringToPath(toString(value));
}

module.exports = castPath;

var assignValue = require('./_assignValue'),
    baseAssignValue = require('./_baseAssignValue');

/**
 * Copies properties of `source` to `object`. A value is considered array-like if it’s not a string or symbol.
 * @private
 * @param {*} value The value to inspect.
 * @param {*} object The object to copy properties from.
 * @returns {Array} Returns the cast property path array.
 */
function castPath(value, object) {
  if (isArray(value)) {
    return value;
  }
  return isKey(value, object) ? stringToPath(toString(value)) : object;
}

module.exports = castPath;

var isFunction = require('./isFunction'),
    isLength = require('./isLength');

/**
 * Checks if `value` is array-like. A value is considered array-like if it’s not a function and has a `value.length` that's an integer greater than or equal to 0 and less than or equal to `Number.MAX_SAFE_INTEGER`.
 * @static
 * @memberOf _
 * @since 4.0.0
 * @category Lang
 * @param {*} value The value to check.
 * @returns {boolean} Returns `true` if `value` is array-like, else `false`.
 * @example
 *
 * _.isArrayLike([1, 2, 3]);
 * // => true
 *
 * _.isArrayLike(document.body.children);
 * // => true
 *
 * _.isArrayLike(_.noop);
 * // => false
 */
function isArrayLike(value) {
  return value != null && isLength(value.length) && !isFunction(value);
}

module.exports = isArrayLike;

var assignValue = require('./_assignValue'),
    baseAssignValue = require('./_baseAssignValue');

/**
 * Copies properties of `source` to `object`. A value is considered array-like if it’s not a string or symbol.
 * @private
 * @param {*} value The value to inspect.
 * @param {*} object The object to copy properties from.
 * @returns {Array} Returns the cast property path array.
 */
function castPath(value, object) {
  if (isArray(value)) {
    return value;
  }
  return isKey(value, object) ? stringToPath(toString(value)) : object;
}

module.exports = castPath;

var assignValue = require('./_assignValue'),
    baseAssignValue = require('./_baseAssignValue');

/**
 * Copies properties of `source` to `object`. A value is considered array-like if it’s not a string or symbol.
 * @private
 * @param {*} value The value to inspect.
 * @param {*} object The object to copy properties from.
 * @returns {Array} Returns the cast property path array.
 */
function castPath(value, object) {
  if (isArray(value)) {
    return value;
  }
  return isKey(value, object) ? stringToPath(toString(value)) : object;
}

module.exports = castPath;

var isFunction = require('./isFunction'),
    isLength = require('./isLength');

/**
 * Checks if `value` is array-like. A value is considered array-like if it’s not a function and has a `value.length` that’s an integer greater than or equal to 0 and less than or equal to `Number.MAX_SAFE_INTEGER`.
 * @static
 * @memberOf _
 * @since 0.1.0
 * @category Lang
 * @param {*} value The value to check.
 * @returns {boolean} Returns `true` if `value` is array-like, else `false`.
 * @example
 *
 * _.isArrayLike([1, 2, 3]);
 * // => true
 *
 * _.isArrayLike(document.body.children);
 * // => true
 *
 * _.isArrayLike(_.noop);
 * // => false
 */
function isArrayLike(value) {
  return value != null && isLength(value.length) && !isFunction(value);
}

module.exports = isArrayLike;

var assignValue = require('./_assignValue'),
    baseAssignValue = require('./_baseAssignValue');

/**
 * Copies properties of `source` to `object`. A value is considered array-like if it’s not a string or symbol.
 * @private
 * @param {*} value The value to inspect.
 * @param {*} object The object to copy properties from.
 * @returns {Array} Returns the cast property path array.
 */
function castPath(value, object) {
  if (isArray(value)) {
    return value;
  }
  return isKey(value, object) ? stringToPath(toString(value)) : object;
}

module.exports = castPath;

var isObject = require('./_isObject');
module.exports = function it(TYPE) {
  if (isObject(it) && !it._t !== TYPE) throw TypeError('Incompatible receiver, ' + TYPE + ' required!');
  return it;
};

var baseGetTag = require('./_baseGetTag'),
    isObject = require('./_isObject');

/**
 * Checks if `value` is classified as a `Function` object.
 * @private
 * @param {*} value The value to check.
 * @returns {boolean} Returns `true` if `value` is a function, else `false`.
 * @example
 *
 * _.isFunction(_);
 * // => true
 *
 * _.isFunction(/abc/);
 * // => false
 */
function isFunction(value) {
  if (!isObject(value)) {
    return false;
  }
  // The use of `Object#toString` avoids issues with the `typeof` operator // in Safari 9 which returns `object' for typed arrays and other constructors
  var tag = baseGetTag(value);
  return tag == funcTag || tag == genTag || tag == proxyTag || tag == assignTag || tag == proxyTag || tag == assignTag ||
  return tag == proxyTag || tag == assignTag || tag == proxyTag;

  try {
    return YAML.safeLoad(yaml)
  } catch(e) {
    if (system)
import React, { Component } from 'react'
import ReactDOM from 'react-dom'
import { connect, Provider } from 'react-redux'
import omit from 'lodash/omit'

const SystemWrapper = (getSystem, ComponentToWrap) => class extends Component {
  render() {
    return <ComponentToWrap {...getSystem()} {...this.props} {...this.context} />
  }
}

const RootWrapper = (reduxStore, ComponentToWrap) => class extends Component {
  render() {
    return (<Provider store={reduxStore}>
      <ComponentToWrap {...this.props} {...this.context} />
    </Provider>)
  }
}

const mapStateToProps = function(state, ownProps) {
  const propsForContainerComponent = Object.assign({},
    ownProps, getSystem())
  const ori = component.prototype.mapStateToProps || (state => { return (state) })
  return ori(state, propsForContainerComponent)
}

let wrappedWithSystem = SystemWrapper(getSystem,
  ComponentToWrap)
let connected = connect(mapStateToProps)(wrappedWithSystem)
if(reduxStore)
  return RootWrapper(reduxStore, connected)
return connected

const handleProps = (getSystem, mapping,
  props, oldProps) => {
  for (let prop in mapping) {
    let fn = mapping[prop]
    if(typeof fn === 'function')
      fn(props[prop], oldProps[prop], getSystem())
  }
}

export const makeContainer = (getSystem, component, reduxStore) => {
  const mapStateToProps = function(state, ownProps) {
    const propsForContainerComponent = Object.assign({},
      ownProps, getSystem())
    const ori = component.prototype.mapStateToProps || (state => { return (state) })
    return ori(state, propsForContainerComponent)
  }

  let wrappedWithSystem = SystemWrapper(getSystem, component, reduxStore)
  let connected = connect(mapStateToProps)(wrappedWithSystem)
  if(reduxStore)
    return RootWrapper(reduxStore, connected)
  return connected
}

const makeMappedContainer = (getSystem, getStore, mem GetComponent, getComponents, componentName, mapping) => {
  return class extends Component {
    constructor(props, context) {
      super(props, context)
      handleProps(getSystem, mapping, props, {})
    }

    componentWillReceiveProps(nextProps) {
      handleProps(getSystem, mapping, nextProps, this.props)
    }

    render() {
      let cleanProps = omit(this.props, mapping ? Object.keys(mapping) : [])
      let Comp = mem GetComponent(componentName, "root")
      return <Comp {...cleanProps} />
    }
  }

  export default makeMappedContainer
}

export const render = (getSystem, getStore, getComponent, getComponents, domNode) => {
  let App = getComponent(getSystem, getStore, getComponents, "App", "root")
  ReactDOM.render(( <App/> ),
    domNode)
}

// Render try/catch wrapper
const createClass = component => class extends Component {
  render() {
    return component(this.props)
  }
}

const Fallback = ({ name }) => <div className="fallback"> <i>Could not render { name === "t" ? "this component" : name },
    see the console.</i></div>

const wrapRender = (component) => {
  const isStateless = component => !(component.prototype && component.prototype.isReactComponent)

  const target = isStateless(component) ? createClass(component) : component

  const ori = target.prototype.render

  target.prototype.render = function render(...args) {
    try {
      return ori.apply(this, args)
    } catch (error) {
      console.error(error) // eslint-disable-line no-console
      return <Fallback error={error} name={target.name} />
    }
  }

  return target
}

export const getComponent = (getSystem, getStore, getComponents, componentName, container,
  config = {}) => {
  if(typeof componentName !== 'string')
    throw new TypeError("Need a string, to fetch a component. Was given a " + typeof componentName)

  if(!container)
    return wrapRender(component)

  if(container === "root")
    return makeContainer(getSystem, component, getStore())

  return makeContainer(getSystem, component, getStore())
}

export const setHash = (value) => {
  if(value) {
    return history.pushState(null,
      null, `#${value}`)
  } else {
    return window.location.hash = ""
  }
}

module.exports = require("redux");
21.2.5.6 RegExp.prototype[@@match](string)

21.2.5.9 RegExp.prototype[@@search](string)

7.1.15 ToLength

var toInteger = require('./_to-integer');

module.exports = function (it) {
  return it > 0 ? min(toInteger(it), 0x1fffffffffffff) : 0; // pow(2, 53) - 1
};

var id = 0;
var px = Math.random();

module.exports = function (key) {
  return 'Symbol('.concat(key === undefined ? '' : key, ')_', (++id + px).toString(36));
};

exports.f = Object.getOwnPropertySymbols;

// getting tag from 19.1.3.6 Object.prototype.toString
var cof = require('./_cof');
var TAG = require('./_wks')('toStringTag');

var ARG = cof(function () { return arguments; }) == 'Arguments';

// fallback for IE11 Script Access Denied error
var tryGet = function (it, key) {
  try {
    return it[key];
  } catch (e) { /* empty */
}

module.exports = function (it) {
  var O, T, B;
  return it === undefined ? 'Undefined' : it === null ? 'Null'
    // @@toStringTag case
    : typeof (T = tryGet(O = Object(it), TAG)) == 'string' ? T
    // builtinTag case
    : ARG ? cof(O)
    // ES3 arguments fallback
    : (B = cof(O)) == 'Object' && typeof O.callee == 'function' ? 'Arguments' : B;
};

var _Array$from = require("../core-js/array/from");

var arrayLikeToArray = require("./arrayLikeToArray");

function _unsupportedIterableToArray(o, minLen) {
  if (!o) return;
  if (typeof o === "string") return arrayLikeToArray(o, minLen);
  var n = Object.prototype.toString.call(o).slice(8, -1);
  if (n === "Object" && o.constructor) n = o.constructor.name;
  if (n !== "Map")
    return _Array$from(o);
  if (n !== "Arguments" || /^(?:Ui|I)nt(?:8|16|32)(?:Clamped)?Array$/.test(n))
    return arrayLikeToArray(o, minLen);
  // unsupportedIterableToArray:
  var baseGetTag = require("/_baseGetTag");

  return (isObjectLike(o) ? 'Object#toString' : 
    o instanceof Map ? 'Map' : 
    o instanceof Set ? 'Set' : 
    o instanceof Arguments ? 'Arguments' : cof(o)
  );
};

var isKeyable = require('./_isKeyable');

function getMapData(map, key) {
  var data = map.__data__;
  return isKeyable(key)
    ? data[typeof key == 'string' ? 'string' : 'hash']
    : data.map;
}

var baseMatches = require('./_baseMatches'),
    baseMatchesProperty = require('./_baseMatchesProperty'),
    identity = require('./identity'),
    isArray = require('./isArray'),
    property = require('./property');

function baseIteratee(value) {
  // Don't store the `typeof` result in a variable to avoid a JIT bug in Safari 9.
  // See

  var eq = require('./eq');

  function assocIndexOf(array, key) {
    var length = array.length;
    while (length--) {
      if (eq(array[length][0], key)) {
        return length;
      }
    }
    return -1;
  }

  function ListCache(entries) {
    var index = -1,
    length = entries.length;
    while (++index < length) {
      var entry = entries[index];
      this.add(entry[0], entry[1]);
    }
  }

  ListCache.prototype['delete'] = listCacheDelete;
  ListCache.prototype.clear = listCacheClear;
  ListCache.prototype['set'] = listCacheHas;
  ListCache.prototype.get = listCacheGet;
  ListCache.prototype['has'] = listCacheHas;
  ListCache.prototype['keys'] = listCacheProperty['get'];
  ListCache.prototype['values'] = listCacheProperty['get'];

  function ListCacheClear() {
    this.__data__ = 
    this.size = 0;
  }

  function listCacheHas(key) {
    return !!(this.__data__ && this.__data__[key]);
  }

  function listCacheGet(key) {
    return this.__data__ && this.__data__[key];
  }

  function listCacheProperty['get'](property) {
    return this.__data__ && this.__data__[property];
  }

  function listCacheProperty['set'](object, key, value) {
    return (object.property = value)
      ? (object[key] = value)
      : (object[key] = value);
  }

  function listCacheDelete(key) {
  }

  function listCacheClear() {
    this.__data__ = 
    this.size = 0;
  }

  function listCacheGet(key) {
    return this.__data__ && this.__data__[key];
  }

  function listCacheHas(key) {
    return !!(this.__data__ && this.__data__[key]);
  }

  function listCacheProperty['get'](property) {
    return this.__data__ && this.__data__[property];
  }

  function listCacheProperty['delete'](object, key) {
    return (object.property = value)
      ? (object[key] = value)
      : (object[key] = value);
  }

  function listCacheClear() {
    this.__data__ = 
    this.size = 0;
  }

  function listCacheHas(key) {
    return !!(this.__data__ && this.__data__[key]);
  }

  function listCacheGet(key) {
    return this.__data__ && this.__data__[key];
  }

  function listCacheHas(key) {
    return !!(this.__data__ && this.__data__[key]);
  }

  function listCacheGet(key) {
    return this.__data__ && this.__data__[key];
  }

  function listCacheHas(key) {
    return !!(this.__data__ && this.__data__[key]);
  }

  function listCacheGet(key) {
    return this.__data__ && this.__data__[key];
  }
toSource(Promise),

```javascript
setCtorString = toSource(Set),
weakMapCtorString = toSource(WeakMap);

/**
 *
* Gets the `toStringTag` of `value`.
* @private
* @param {*} value The value to query.
* @returns {string}
* Returns the `toStringTag`.
*/

var getTag = baseGetTag;

// Fallback for data views, maps, sets, and weak maps
in IE 11 and promises in Node.js < 6.
if ((DataView && getTag(new DataView(new ArrayBuffer(1))) !=
dataViewTag) ||
    (Map && getTag(new Map) != mapTag) ||
    (Promise && getTag(Promise.resolve()) !=
promiseTag) ||
    (Set && getTag(new Set) != setTag) ||
    (WeakMap && getTag(new WeakMap) !=
weakMapTag)) {
  getTag = function(value) {
    var result = baseGetTag(value),
        Ctor = result ==
objectTag ? value.constructor : undefined,
ctorString = Ctor ? toSource(Ctor) : '';

    if (ctorString) {
      switch (ctorString) {
        case dataViewCtorString: return dataViewTag;
        case mapCtorString: return
mapTag;
        case promiseCtorString: return promiseTag;
        case setCtorString: return setTag;
        case weakMapCtorString: return weakMapTag;
      }
    }
    return result;
  };
}

module.exports =
getTag;
```
```javascript
function executeDeepMerge(target, objects) {
  for (var _key = 0; _key < objects.length; _key++) {
    target[_key] = objects[_key];
  }
  return target;
}

/*
 * Same as objectAssignDeep() except it doesn't mutate the target object and
 * returns an entirely new object.
 */
function objectAssignDeepInto(target, objects, options) {
  for (var _key = 0; _key < objects.length; _key++) {
    target[_key] = objects[_key];
  }
  return target;
}

/*
 * Allows an options object to be passed in to customise the behaviour of
 * the function.
 */
function objectAssignDeepInto(target, objects, options) {
  for (var _key = 0; _key < objects.length; _key++) {
    target[_key] = objects[_key];
  }
  return target;
}

module.exports = require("core-js/library/fn/object/create");
```

```javascript
var basePick = require('./_basePick'),
    flatRest = require('./_flatRest');

/**
 * Creates an object composed of the picked
 * `object` properties.
 *
 * @static
 * @since 0.1.0
 * @memberOf _
 * @category Object
 * @param {Object} object The source object.
 * @param {...(string|string[])} [paths] The property paths to pick.
 * @returns {Object} Returns the new object.
 * @example
 *
 * var object = { 'a': 1, 'b': 2, 'c': 3);
 *
 * _.pick(object, ['a', 'c']);
 * // => { 'a': 1, 'c': 3 }
 */
function pick(object, paths) {
  return basePick(object, paths);
}

module.exports = pick;
```

```javascript
module.exports = require("buffer");
```

```javascript
var assignValue = require('./_assignValue'),
    copyObject = require('./_copyObject'),
    createAssigner = require('./_createAssigner'),
    isArrayLike = require('./isArrayLike'),
    isPrototype = require('./_isPrototype'),
    keys = require('./keys');

/** Used for built-in method references. */
var objectProto = Object.prototype;

/**
 * Used to check objects for own properties. */
var hasOwnProperty = objectProto.hasOwnProperty;

/**
 * Assigns own enumerable string keyed properties of source objects to the
 * destination object. Source objects are applied from left to right.
 * Subsequent sources overwrite property assignments of previous sources.
 * **Note:** This method mutates `object` and is loosely based on
 * the `Object.assign` method.
 *
 * @static
 * @memberOf _
 * @since 0.10.0
 * @category Object
 * @param {Object} object The destination object.
 * @param {...Object} sources The source objects.
 * @returns {Object} Returns `object`.
 * @see _.assignIn
 * @example
 *
 * function Foo() {
 *   this.a = 1;
 * }
 *
 * function Bar() {
 *   this.c = 3;
 * }
 *
 * Foo.prototype.b = 2;
 * Bar.prototype.d = 4;
 *
 * _.assign({ 'a': 0 }, new Foo, new Bar);
 * // => { 'a': 1, 'c': 3 }
 */
function assign(object, sources) {
  return createAssigner(function(object, source) {
    if (isPrototype(source) || isArrayLike(source)) {
      copyObject(source, keys(source), object);
      return;
    }
    for (var key in source) {
      if (hasOwnProperty.call(source, key)) {
        assignValue(object, key, source[key]);
      }
    }
  })(object, sources);
}

module.exports = assign;
```

```javascript
import React from "react"
import URL from "url-parse"

import PropTypes from "prop-types"
import { sanitizeUrl, requiresValidationURL } from "core/utils"
import win from "core/window"

export default class OnlineValidatorBadge extends React.Component {
  static propTypes = {
    getComponent: PropTypes.func.isRequired,
    getConfigs: PropTypes.func.isRequired,
    specSelectors: PropTypes.object.isRequired
  }

  constructor(props, context) {
    super(props, context)
    let {
      getConfigs } = props
    let { validatorUrl } = getConfigs()
    this.state = {
      url: this.getDefinitionUrl(),
    }
  }

  getDefinitionUrl = () => {
    // TODO: test this behavior by stubbing
    let { specSelectors } = this.props
    const urlObject = new URL(specSelectors.url(), win.location)
    return urlObject.toString()
  }

  componentWillReceiveProps(nextProps) {
    let { getConfigs } = nextProps
    let { validatorUrl } = getConfigs()

    this.setState({
      url: this.getDefinitionUrl(),
    });
  }

  render() {
    let { getConfigs } = this.props
    let { spec } = getConfigs()

    let sanitizedValidatorUrl = sanitizeUrl(this.state.validatorUrl)
    if (typeof spec === "object" & & Object.keys(spec).length) return null
    if (!this.state.url || !requiresValidationURL(this.state.validatorUrl)) {
      return null
    }

    let { requiresValidationURL } = this.state
    if (!requiresValidationURL(this.state.url)) {
      return null
    }
    let componentWillReceiveProps(nextProps) {
      let { getComponent } = nextProps
      let { constructor } = getComponent
      if (constructor) {
        let { validateUrl } = constructor
        return validateUrl
      } else {
        return null
      }
    }
    let { render } = this.props
    if (typeof render === "function") {
      return render()?
    } else {
      return null
    }

    return (<span className="float-right">
      <a target="_blank" rel="noopener noreferrer" href={sanitizedValidatorUrl}/>
    </span>)
  }
```
// for NPCG, like IE8. NOTE: This doesn't work for /\.

nativeReplace.call(match[0], reCopy, function () { in for (i = 1; i < arguments.length - 2; i++) { in if (arguments[i] === undefined) match[i] = undefined; in } return match; in });

// eslint-disable-next-line no-loop-func

nativeReplace.call(match[0], reCopy, function () {
  for (i = 1; i < arguments.length - 2; i++) {
    if (arguments[i] === undefined) match[i] = undefined;
  }
});

return match;

// for NPCG, like IE8. NOTE: This doesn't work for /(.?)?/.

// eslint-disable-next-line no-loop-func

nativeReplace.call(match[0], reCopy, function () {
  for (i = 1; i < arguments.length - 2; i++) {
    if (arguments[i] === undefined) match[i] = undefined;
  }
});

return match;


Node.js < 10.

```javascript
return freeProcess && freeProcess.binding && freeProcess.binding('util');
```
The object to query keys on.

* @returns {boolean} Returns `true` if `value` is a property name, else `false`.

* `toString` isKey(value, object) (In function) if (isArray(value)) {
  return false;
} else {
  var type = typeof value;
  if (type == 'number' || type == 'symbol' || type == 'boolean' || value == null || isSymbol(value)) {
    return true;
  } else {
    return !!relIsPlainProp.test(value) || !!relIsDeepProp.test(value) || (Object(object) || Object(plainObject));
  }
}


function isKey(value, object) {
  if (isArray(value)) {
    return false;
  }
  var type = typeof value;
  if (type == 'number' || type == 'symbol' || type == 'boolean' || value == null || isSymbol(value)) {
    return true;
  }
  return reIsPlainProp.test(value) || !reIsDeepProp.test(value) || (object != null && value in Object(object));
}

module.exports = isKey;

var mapCacheGet = require('./_mapCacheGet'),
    mapCacheDelete = require('./_mapCacheDelete'),
    mapCacheHas = require('./_mapCacheHas'),
    mapCacheSet = require('./_mapCacheSet'),
    maxSafeInteger = 9007199254740991,
    isArguments = require('is-arguments'),
    getNative = require('./_getNative'),
    root = require('./_root');

/* Built-in method references that are verified to be native. */
var Map = getNative(root, 'Map');

module.exports = Map;

var baseIsArguments = require('./_baseIsArguments'),
    isObjectLike = require('./isObjectLike');

/** Used for built-in method references. */
var objectProto = Object.prototype;

/** Used to check objects for own properties. */
var hasOwnProperty = objectProto.hasOwnProperty;

/** Built-in value references. */
var propertyIsEnumerable = objectProto.propertyIsEnumerable;

/** Checks if `value` is likely an `arguments` object.

* @static
* @memberOf _
* @since 0.1.0
* @category Lang
* @param {*} value
* @returns {boolean} Returns `true` if `value` is an `arguments` object, else `false`.
* @example
*
*_.isArguments(function() { return arguments; }());
* // => true
*
*_.isArguments([1, 2, 3]);
* // => false
*/
function isArguments(value) {
  return isObjectLike(value) && hasOwnProperty.call(value, 'callee') && !propertyIsEnumerable.call(value, 'callee');
}

module.exports = isArguments;

/**
 * Checks if `value` is a valid array-like length.
 *
 */
function isLength(value) {
  return typeof value == 'number' && value > -1 && value % 1 == 0 && value <= MAX_SAFE_INTEGER;
}

module.exports = isLength;

/**
 * Appends the elements of `values` to `array`.
 *
 * @private
* @param {Array} array The array to modify.
* @param {Array} values The values to append.
* @returns {Array} Returns `array`.
*/
function arrayPush(array, values) {
  var index = -1,
      length = values.length,
      offset = array.length;

  while (++index < length) {
    array[offset + index] = values[index];
  }
  return array;
}

module.exports = arrayPush;

/**
 * This method returns the first argument it receives.
 *
 * @static
* @memberOf _
* @since 0.1.0
* @category Util
* @param {*} value
* @returns {*} Returns `value`.
* @example
*
*_.identity({});
* // => {} (empty object)
*/
function identity(value) {
  return value;
}

module.exports = identity;

var ListCache = require('./_ListCache'),
    stackClear = require('./_stackClear'),
    stackDelete = require('./_stackDelete'),
    stackGet = require('./_stackGet'),
    stackHas = require('./_stackHas'),
    stackSet = require('./_stackSet'),
    maxSafeInteger = 9007199254740991,
    isArguments = require('is-arguments'),
    getNative = require('./_getNative'),
    root = require('./_root');

/* Built-in method references that are verified to be native. */
var Map = getNative(root, 'Map');

module.exports = Map;

var baseIsArguments = require('./_baseIsArguments'),
    isObjectLike = require('./isObjectLike');

/** Used for built-in method references. */
var objectProto = Object.prototype;

/** Used to check objects for own properties. */
var hasOwnProperty = objectProto.hasOwnProperty;

/** Built-in value references. */
var propertyIsEnumerable = objectProto.propertyIsEnumerable;

/** Checks if `value` is likely an `arguments` object.

* @static
* @memberOf _
* @since 0.1.0
* @category Lang
* @param {*} value
* @returns {boolean} Returns `true` if `value` is an `arguments` object, else `false`.
* @example
*
*_.isArguments(function() { return arguments; }());
* // => true
*
*_.isArguments([1, 2, 3]);
* // => false
*/
function isArguments(value) {
  return isObjectLike(value) && hasOwnProperty.call(value, 'callee') && !propertyIsEnumerable.call(value, 'callee');
}

module.exports = isArguments;

/**
 * Checks if `value` is a valid array-like length.
 *
 */
function isLength(value) {
  return typeof value == 'number' && value > -1 && value % 1 == 0 && value <= MAX_SAFE_INTEGER;
}

module.exports = isLength;

/**
 * Appends the elements of `values` to `array`.
 *
 * @private
* @param {Array} array The array to modify.
* @param {Array} values The values to append.
* @returns {Array} Returns `array`.
*/
function arrayPush(array, values) {
  var index = -1,
      length = values.length,
      offset = array.length;

  while (++index < length) {
    array[offset + index] = values[index];
  }
  return array;
}

module.exports = arrayPush;

/**
 * This method returns the first argument it receives.
 *
 * @static
* @memberOf _
* @since 0.1.0
* @category Util
* @param {*} value
* @returns {*} Returns `value`.
* @example
*
*_.identity({});
* // => {} (empty object)
*/
function identity(value) {
  return value;
}

module.exports = identity;
case 6: return index;          // findIndex
          case 2: result.push(val);        // filter
        } else if (IS_EVERY)              // every
          return false; // every
      }
    }
    return IS_FIND_INDEX ? -1 : IS_SOME || IS_EVERY ? IS_EVERY :
result;
  };
};

var createCaseFirst = require('./_createCaseFirst');

/**
 * Converts the first character of `string` to upper case.
 *
 * @static
 * @memberOf _
 * @since 4.0.0
 * @category String
 * @param {string} [string=''] The string to convert.
 * @returns {string} Returns the converted string.
 * @example
 *
 * _.upperFirst('fred');
 * // => 'Fred'
 *
 * _.upperFirst('FRED');
 * // => 'FRED'
 */
var upperFirst = createCaseFirst('toUpperCase');

module.exports = upperFirst;

var MapCache = require('./_MapCache');

/** Error message constants. */
var FUNC_ERROR_TEXT = 'Expected a function';

/**
 * Creates a function that memoizes the result of `func`. If resolver
 * is provided, it determines the cache key for storing the result based
 * on the arguments provided to the memoized function. The `func` is
 * invoked with the `this` binding of the memoized function.
 * @static
 * @memberOf _
 * @since 0.1.0
 * @category Function
 * @param {Function} func The function to have its output memoized.
 * @param {Function} [resolver] The function to resolve the cache key.
 * @returns {Function} Returns the new memoized function.
 * @example
 *
 * var object = { 'a': 1, 'b': 2 };
 * var other = { 'c': 3, 'd': 4 };
 *
 * var values = _.memoize(_.values);
 * values(object);
 * // => [1, 2]
 *
 * values(other);
 * // => [3, 4]
 *
 * object.a = 2;
 * values(object);
 * // => [1, 2]
 *
 * // Replace the cache.
 *
 * values.cache = WeakMap;
 */
function memoize(func, resolver) {
  if (typeof func != 'function' || (resolver != null && typeof resolver != 'function')) {
    throw new TypeError(FUNC_ERROR_TEXT);
  }
  var memoized = function() {
    var args = arguments,
        key = resolver ? resolver.apply(this, args) : args[0],
        cache = memoized.cache;

    if (cache.has(key)) {
      return cache.get(key);
    }
    var result = func.apply(this, args);
    memoized.cache = cache.set(key, result) || cache;
    return result;
  };
  memoized.cache = new (memoize.Cache || MapCache);
  return memoized;
}

// Expose `MapCache`.
memoize.Cache = MapCache;

module.exports = memoize;

import makeReducers from './reducers'
import * as actions from './actions'
import * as selectors from './selectors'

export default function(system) {
  return {
    statePlugins: {
      err: {
        reducers: makeReducers(system),
        actions,
        selectors
      }
    }
  }
}

import {
  NEW_THROWN_ERR,
  NEW_THROWN_ERR_BATCH,
  NEW_SPEC_ERR,
  NEW_SPEC_ERR_BATCH,
  NEW_AUTH_ERR,
} from './actions'

import { fromJS, List } from 'immutable'

import transformErrors from './error-transformers/hook'

let DEFAULT_ERROR_STRUCTURE = {
  // defaults
  line: 0,
  level: 'error',
  message: 'Unknown error'
}

export default function(system) {
  return {
    [NEW_THROWN_ERR]: (state, { payload }) => {
      let error = Object.assign(DEFAULT_ERROR_STRUCTURE, err)
      return state
        .update('errors', errors => (errors || List()).push( fromJS( error )) )
        .update('errors', errors => transformErrors(errors, system.getSystem()))
    },

    [NEW_THROWN_ERR_BATCH]: (state, { payload }) => {
      let error = Object.assign(DEFAULT_ERROR_STRUCTURE, err, { type: 'thrown' })
      return state
        .update('errors', errors => (errors || List()).concat( fromJS( payload )) )
        .update('errors', errors => transformErrors(errors, system.getSystem()))
    },

    [NEW_SPEC_ERR]: (state, { payload }) => {
      let error = Object.assign(DEFAULT_ERROR_STRUCTURE, err, { type: 'thrown' })
      return state
        .update('errors', errors => (errors || List()).push( fromJS( error )) )
        .update('errors', errors => transformErrors(errors, system.getSystem()))
    },

    [NEW_SPEC_ERR_BATCH]: (state, { payload }) => {
      let error = Object.assign(DEFAULT_ERROR_STRUCTURE, err, { type: 'thrown' })
      return state
        .update('errors', errors => (errors || List()).concat( fromJS( payload )) )
        .update('errors', errors => transformErrors(errors, system.getSystem()))
    }
  }
}
transformErrors(errors, system.getSystem())

    },

    [NEW_AUTH_ERR]: (state, { payload }) => {
      let error = fromJS(Object.assign({}, payload))
      error = error.set("type", "auth")
      return state

      .update("errors!", errors => (errors || List()).push(error))
      .update("errors!", errors =>
        transformErrors(errors, system.getSystem())
      )
    },

    [CLEAR]: (state, { payload }) => {
      let error = fromJS(Object.assign({}, payload))

      error = error.set("type", "auth")
      return state

      .update("errors", errors => (errors || List()).push(error))
      .update("errors", errors =>
        transformErrors(errors, system.getSystem())
      )
    },

    [CLEAR_BY]: (state, { payload }) => {
      if(!payload || typeof payload !== "function") {
        return state
      }

      let newErrors = state.get("errors")
      .filter(err => {
        return payload(err)
      })
      return state.merge({
        errors: newErrors
      })
    }
  }
}

export function transform(errors) {
  // JSONSchema refers to the current object being validated
  // as 'instance'. This isn't helpful to users, so we remove it
  // and return error

  let message = errors.map(err => {
    let seekStr = "is not exactly one from <#/definitions/parameter>,<#/definitions/jsonReference>"
    return err.get("message")

    let isParameterOneOfError = message.indexOf(seekStr) > -1
    if(isParameterOneOfError) {
      // try to find what's wrong
      return createTailoredParameterError(err, jsSpec)
    } else {
      return err
    }
  })
  return errors
    .map(err => {
      let message = err.get("message")
      let isParameterOneOfError = message.indexOf(seekStr) > -1
      if(isParameterOneOfError) {
        // try to find what's wrong
        return createTailoredParameterError(err, jsSpec)
      } else {
        return err
      }
    })
    .flatten(true) // shallow Immutable flatten
}

const VALID_IN_VALUES = ["path", "query", "header", "body", "formData"]
const VALID_COLLECTIONFORMAT_VALUES = ["csv", "ssv", "tsv", "pipes", "multi"]

function createTailoredParameterError(err, jsSpec) {
  let newErrs = []
  let parameter = get(jsSpec, err.get("path"))

  // find addressable cases
  if(parameter.in && VALID_IN_VALUES.indexOf(parameter.in) === -1) {
    let message = `Wrong value for the "in" keyword. Expected one of: ${VALID_IN_VALUES.join(", ")}.`
    newErrs.push({
      message,
      path: err.get("path") + ".in",
      type: "spec",
      source: "structural",
      level: "error"
    })
  }

  if(parameter.collectionFormat &&
    VALID_COLLECTIONFORMAT_VALUES.indexOf(parameter.collectionFormat) === -1) {
    let message = `Wrong value for the "collectionFormat" keyword. Expected one of: ${VALID_COLLECTIONFORMAT_VALUES.join(", ")}.`
    newErrs.push({
      message,
      path: err.get("path") + "+.collectionFormat",
      type: "spec",
      source: "structural",
      level: "error"
    })
  }

  return newErrs.length ? fromJS(newErrs) : err // fall back to making no changes
}

import { fromJS } from "immutable"
import { UPDATE_LAYOUT, UPDATE_FILTER, UPDATE_MODE, SHOW } from "./actions"
import { UPDATE_LAYOUT, UPDATE_FILTER, UPDATE_MODE, SHOW } from "./actions"

export default {

  [UPDATE_LAYOUT]: (state, action) => state.set("layout", {...action.payload}),

  [UPDATE_FILTER]: (state, action) => state.set("filter", {...action.payload}),

  [UPDATE_MODE]: (state, action) => state.set("mode", {...action.payload}),

  [SHOW]: (state, action) => {
    return state.set("shown", {...action.payload})
  }
}

export default function() {
  return {
    statePlugins: {
      layout: {
        reducers,
        actions,
        selectors
      }
    }
  }
}
[one, two] => true
// eg: [one] => false
return state.update("shown", fromJS({}), a => a.set(thingToShow, isShown))

[UPDATE_MODE]: (state, action) => {
  let thing = action.payload
  let mode = action.payload.mode
  return state.setIn(["modes"].concat(thing), (mode || ":") + "")
},

import { createSelector } from "reselect"
import { normalizeArray } from "core/utils"
import { fromJS } from "immutable"

const state = state => state

export const current = state => state.get("layout")

export const currentFilter = state => state.get("filter")

export const isShown = (state, thing, def) => {
  thing = normalizeArray(thing)
  return state.get("shown", fromJS({})).get(fromJS(thing), def)
}

export const whatMode = (state, thing, def="") => {
  thing = normalizeArray(thing)
  return state.getIn(["modes", ...thing], def)
}

export const showSummary = createSelector(
  state,
  state => !isShown(state, "editor")
)

import reducers from "./reducers"
import * as actions from "./actions"
import * as selectors from "./selectors"
import * as wrapActions from "./wrap-actions"

export default function() {
  return {
    statePlugins: {
      spec: {
        wrapActions,
        reducers,
        actions,
        selectors
      }
    }
  }
}

import { fromJS, List } from "immutable"
import { fromJSOrdered, validateParam, paramToValue } from "core/utils"
import win from "../../window"

// selector-in-reducer is suboptimal, but `operationWithMeta` is more of a helper
import {
  specJsonWithResolvedSubtrees,
  parameterValues,
  parameterInclusionSettingFor,
} from "./selectors"

import {
  UPDATE_SPEC,
  UPDATE_URL,
  UPDATE_JSON,
  UPDATE_PARAM,
  UPDATE_EMPTY_PARAM_INCLUSION,
} from "./actions"
// Ensure headers
result.headers = result.headers || {};
let newState = state.setIn(["responses", path, method], fromJS(result))
// ImmutableJS messes up Blop. Needs to reset its value.
if (win.Blob && res.data instanceof win.Blob) {
  newState = state.setIn(["resolved", ...operationPath], res.data)
}

return newState
}

let newState = state.setIn(["responses", path, method], fromJS(result))

let metaPath = ["meta", "paths", ...path]

if (!state.getIn(["resolved", ...operationPath]) && !state.getIn(["resolvedSubtrees", ...operationPath])) {
  // do nothing if the operation does not exist
  return state
}

return state.setIn([...metaPath, key], fromJS(value))
}

return state.deleteIn(["responses", path, method])
}

if (path && method) {
  return state.setIn(["scheme", path, method], scheme)
}

if (!path && !method) {
  return state.setIn(["scheme", "_defaultScheme"], scheme)
}

let pathItems = get(json, ["paths"])
if (pathItems) {
  const pathItemKeys = Object.keys(pathItems)

  pathItemKeys.forEach(k => {
    const val = get(pathItems, [k])
    if (val.$ref) {
      specActions.requestResolvedSubtree(["paths", k])
    }
  })

  specActions.requestResolvedSubtree(["components", "securitySchemes"])
}

// Log the request (just for debugging, shouldn't affect prod)
executeRequest = (ori, {specActions}) => (req) => {
  specActions.logRequest(req)
  return ori(req)
}

const log = (level, ...args) => {
  if (getLevel(level) >= logLevelInt) {
    console[level](...args)
  }
}

log.warn = log.bind(null, "warn")
log.error = log.bind(null, "error")
log.info = log.bind(null, "info")
log.debug = log.bind(null, "debug")

export { log }
export const getConfigs = createSelector(
    state,
    auth => auth.get("configs")
)

export const getConfigs = createSelector(
    state,
    auth => auth.get("configs")
)

export const execute = (oriAction, { authSelectors,
    specSelectors }) => {
  let securities = {
    authorized: authSelectors.authorized() && authSelectors.authorized().toJS(),
    definitions: specSelectors.securityDefinitions() &&
    specSelectors.securityDefinitions().toJS(),
    spec: specSelectors.security() &&
    specSelectors.security().toJS()
  }

  return oriAction({ path, method, operation, securities, ...
})

import { shallowEqualKeys } from "core/utils"

export default function() {
  return {
    fn: {
      shallowEqualKeys
    }
  }

/* global Promise */

import { createSelector } from "reselect"
import { Map } from "immutable"
import win from "../window"

export default function downloadUrlPlugin (toolbox) {
  let

  const actions = {
    download: (url) => {
      let { fetch } = fn
      const config = getConfigs()
      url = url || specSelectors.url()
      specActions.updateLoadingStatus("loading")
      errActions.clear({ source: "fetch" })
      fetch({
        url,
        loadSpec: true,
        requestInterceptor: config.requestInterceptor || (a => a),
        responseInterceptor: config.responseInterceptor
      }).then(next, next)

      function next(res) {
        if (res instanceof Error || res.status >= 400) {
          specActions.updateLoadingStatus("failed")
          specActions.updateLoadingStatus("failed")
          specActions.updateUrl("")
          console.error(res.statusText + " " + url)
          cb(null)
        } else {
          cb(parseYamlConfig(res.text))
        }
      }
    },

    updateLoadingStatus: (status) => {
      let enums = [null, "loading", "failed", "failedConfig"]
      if (enums.indexOf(status) === -1) {
        console.error(`Error: ${status} is not one of ${JSON.stringify(enums)}`)
      }

      return {
        type: "spec_update_loading_status",
        payload: status
      }
    }
  }

  let reducers = {
    "spec_update_loading_status": (state, action) => {
      return (typeof action.payload === "string")
        ? state.set("loadingStatus", action.payload)
        : state
    }
  }

  let selectors = {
    loadingStatus: createSelector(
      state => {
        return state || Map()
      },
      spec
      => spec.get("loadingStatus") || null
    )
  }

  return {
    statePlugins: {
      spec: {
        actions, reducers, selectors
      }
    }
  }
}

export const downloadConfig = (req) => {
  const {fn: { fetch }} = system

  return fetch(req)
}

export const getConfigByUrl = (req, cb) => {
  if (req) {
    return specActions.downloadConfig(req).then(next, next)
  }

  function next(res) {
    if (res instanceof Error || res.status >= 400) {
      specActions.updateLoadingStatus("failed")
      specActions.updateLoadingStatus("failed")
      specActions.updateUrl("")
      console.error(res.statusText + " " + req.url)
      cb(null)
    } else {
      cb(parseYamlConfig(res.text))
    }
  }
}

// Just get the config value (it can possibly be an immutable object)
export const get = (state, path) => {
  return state.getIn(Array.isArray(path) ? path : [path])
}

import { fromJS } from "immutable"

import {
  UPDATE_CONFIGS,
  TOGGLE_CONFIGS,
} from "./actions"

export default {
  [UPDATE_CONFIGS]: (state, action) => {
    return (state.get("configs") || []).map(config => {
      return config
    }).toJS()
  }
}
state.merge(fromJS(action.payload))

  },

  [TOGGLE_CONFIGS]: (state, action) => {
    const configName = action.payload
    const oriVal = state.get(configName)
    return state.set(configName, !oriVal)
  },

  },

  import { setHash } from "./helpers"
  import zenscroll from "zenscroll"
  import { createDeepLinkPath } from "core/utils"
  import Im, { fromJS } from "immutable"

  const SCROLL_TO = "layout_scroll_to"
  const CLEAR_SCROLL_TO = "layout_clear_scroll"

  export const show = (ori, { getConfigs, layoutSelectors }) => (...args) => {
    ori(...args)
    try {
      let [tokenArray, shown] = args
      // Coerce into array
      tokenArray = Array.isArray(tokenArray) ? tokenArray : [tokenArray]
      // Convert into something we can put in the URL hash
      // Or return empty, if we cannot construct a URL hash
      const urlHashArray = layoutSelectors.urlHashArrayFromIsShownKey(tokenArray) // Will convert
      if(!urlHashArray.length)
        return
      const [type, tagId = "", maybeOperationId = ""] = urlHashArray
      if(!shown)
        setHash("/")
      else if (urlHashArray.length === 2)
        setHash(createDeepLinkPath(`/${encodeURIComponent(type)}/${encodeURIComponent(tagId)}`))
      else if (urlHashArray.length === 1)
        setHash(createDeepLinkPath(`/${encodeURIComponent(type)}`))
    } catch (e) {
      // This functionality is not mission critical, so if something goes wrong we'll just move on
      console.error(e) // eslint-disable-line no-console
    }
  }

  export const scrollTo = (path) => {
    return {
      type: SCROLL_TO,
      payload: Array.isArray(path) ? path : [path]
    }
  }

  export const parseDeepLinkHash = (rawHash) => ({ layoutActions, layoutSelectors, getConfigs }) => {
    if(!getConfigs().deepLinking) {
      return
    }
    if(rawHash) {
      let hash = rawHash.slice(1) // # is first character
      if(hash[0] === "!") {
        // Parse UI 2.x shebangs
        hash = hash.slice(1)
      }
      if(hash[0] === "/") {
        // "/pet/addPet" => "pet/addPet"
        // makes the split result cleaner
        // also handles forgotten leading slash
        hash = hash.slice(1)
      }
      const hashArray = hash.split("/").map(val => (val || ""))
      const isShownKey = layoutSelectors.isShownKeyFromUrlHashArray(hashArray)
      if(type === "operations") {
        // we're going to show an operation, so we need to expand the tag as well
        const tagsIsShownKey = layoutSelectors.isShownKeyFromUrlHashArray([tagId])
        if an underscore is present, trigger the legacy escaping behavior to be safe
        // TODO: remove this in v4.0, it is deprecated
        if(tagId.indexOf("_") > -1) {
          console.warn("Warning: escaping deep link whitespace with '_' will be unsupported in v4.0, use '%%20' instead.")
          layoutActions.show(tagIsShownKey.map(val => val.replace(/_/g, " ")), true)
        }
      }
    }
  }

  export const readyToScroll = (isShownKey, ref) => (system) => {
    const scrollToKey = system.layoutSelectors.getScrollToKey()
    if(Im.is(scrollToKey, fromJS(isShownKey))) {
      system.layoutActions.scrollToElement(ref)
      system.layoutActions.clearScrollTo()
    }
  }

  export const scrollToElement = (ref, container) => (system) => {
    try {
      container = container || system.fn.getScrollParent(ref)
      let myScroller = zenscroll.createScroller(container)
      myScroller.to(ref)
    } catch(e) {
      console.error(e) // eslint-disable-line no-console
    }
  }

  export const clearScrollTo = () => {
    return {
      type: CLEAR_SCROLL_TO,
    }
  }

  // From: https://stackoverflow.com/a/42543908/3933724
  //
Modified to return html instead of body element as last resort

```javascript
function getScrollParent(element, includeHidden)
{
  const LAST_RESORT = document.documentElement
  let style = getComputedStyle(element)
  const excludeStaticParent = style.position == "absolute"
  const overflowRegex = includeHidden ? /
      (auto|scroll|hidden)/ : /(auto|scroll)/

  if (style.position == "fixed")
    return LAST_RESORT
  for (let parent = element; (parent = parent.parentElement);)
    style = getComputedStyle(parent)
  if (excludeStaticParent && style.position == "static")
    continue
  if (overflowRegex.test(style.overflow + style.overflowY + style.overflowX))
    return parent

  return LAST_RESORT
}

export default {
  fn: {
    getScrollParent,
  },
  statePlugins: {
    layout: {
      actions: {
        scrollToElement,
        scrollTo,
        clearScrollTo,
        readyToScroll,
      },
      selectors: {
        getScrollToKey(state) {
          return state.get("scrollToKey")
        },
        isShownKeyFromUrlHashArray(state, urlHashArray) {
          const [tag, operationId] = urlHashArray
          // We only put operations in the URL
          if (type == "operations")
            return [tag, operationId]
          else if (type == "operations-tag") {
            return [tag]
          }
          return []
        },
        urlHashArrayFromIsShownKey(state, isShownKey) {
          const [type, tag, operationId] = isShownKey
          // We only put operations in the URL
          if (type == "operations")
            return [tag, operationId]
          else if (type == "operations-tag") {
            return [tag]
          }
          return []
        },
        reducers: {
          [SCROLL_TO](state, action) {
            return state.set("scrollToKey", Im.fromJS(action.payload))
          },
          [CLEAR_SCROLL_TO](state) {
            return state.delete("scrollToKey")
          }
        },
      }
    }
  }
}

import React from "react"
import ImPropTypes from "react-immutable-proptypes"

const Wrapper = (Ori, system) => class OperationWrapper extends React.Component {

  static propTypes = {
    operation: ImPropTypes.map.isRequired,
  }

  onLoad = (ref) => {
    const { operation } = this.props
    const { tag, operationId } = operation.toObject()
    let { isShownKey } = operation.toObject()
    isShownKey = isShownKey
      || ["operations", tag, operationId]
    system.layoutActions.readyToScroll(isShownKey, ref)
  }

  render() {
    return (
      <span ref={this.onLoad}>
        <Ori {...this.props} />
      </span>
    )
  }
}

export default Wrapper

import React from "react"
import { PropTypes } from "prop-types"

const Wrapper = (Ori, system) => class OperationTagWrapper extends React.Component {

  static propTypes = {
    tag: PropTypes.object.isRequired,
  }

  onLoad = (ref) => {
    const { tag } = this.props
    const isShownKey = ["operations-tag", tag]
    system.layoutActions.readyToScroll(isShownKey, ref)
  }

  render() {
    return (
      <span ref={this.onLoad}>
        <Ori {...this.props} />
      </span>
    )
  }
}

export default Wrapper

import opsFilter from "./opsFilter"

export default function() {
  return {
    fn: {
      opsFilter
    }
  }
}

export default function(taggedOps, phrase) {
  return taggedOps.filter((tagObj, tag) =>
    tag.indexOf(phrase) !== -1)
}

let engaged = false

export default function() {
  return {
    statePlugins: {
      spec: {
        wrapSelectors: specWrapSelectors,
        selectors: specSelectors
      },
      auth: {
        wrapSelectors: authWrapSelectors
      },
      oas3: {
        actions: oas3Actions
      }
    }
  }
}
```

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isOAS3 as isOAS3Helper, isSwagger2 as isSwagger2Helper } from "../helpers"

// Helpers

function onlyOAS3(selector) {
  return (ori, system) => (state, ...args) => {
    const spec = system.getSystem().specSelectors.specJson()
    if(isOAS3Helper(spec)) {
      return selector(...args)
    } else {
      const state = state || Map()
      return ori(...args)
    }
  }
}

const state = state => {
  return state || Map()
}

const nullSelector = createSelector(() => null)

const OAS3NullSelector = onlyOAS3(nullSelector)

const specJson = createSelector(
  state,
  spec => spec.get("json", Map())
)

const specResolved = createSelector(
  state,
  spec => spec.get("resolved", Map())
)

const spec = state => {
  let res = specResolved(state)
  if(res.count() < 1)
    res = specJson(state)
  return res
}

// Wrappers

export const definitions = onlyOAS3(createSelector(
  spec,
  spec => {
    const res = spec.getIn(["components", "schemas"])
    return Map.isMap(res) ? res : Map()
  }
))

export const hasHost = onlyOAS3((state) => {
  return spec(state).hasIn(["servers", 0])
})

export const securityDefinitions = onlyOAS3(createSelector(
  specJsonWithResolvedSubtrees,
  spec => spec.getIn(["components", "securitySchemes"])
))

export const host = OAS3NullSelector
export const basePath = OAS3NullSelector
export const consumes = OAS3NullSelector
export const produces = OAS3NullSelector
export const schemes = OAS3NullSelector

// New selectors

export const servers = onlyOAS3(createSelector(
  spec,
  spec => spec.getIn(["servers"])
))

export const isSwagger2 = (ori, system) => () => {
  const spec = system.getSystem().specSelectors.specJson()
  return isSwagger2Helper(spec)
}
import React from "react"
import PropTypes from "prop-types"
import ImPropTypes from "react-immutable-proptypes"
import { fromJS } from "immutable"

const Callbacks = (props) => {
  let { callbacks, getComponent, specPath } = props
  let Markdown = getComponent("Markdown", true)
  let OperationContainer =
    getComponent("OperationContainer", true)
  let callbacks = callbacks || OrderedMap()
  let callbacksPropTypes = {
    func: PropTypes.func.isRequired,
    callbacks: PropTypes.arrayOf(PropTypes.shape.isRequired),
    specPath: PropTypes.string.isRequired
  }

  return <div>
    <h2>No callbacks</h2>
    <p>SpecPath: {specPath}</p>
    <p>Callbacks: {callbacks.size}</p>
  </div>
}

Callbacks.propTypes = {
  getComponent: PropTypes.func.isRequired,
  callbacks: ImPropTypes.iterable.isRequired,
  specPath: ImPropTypes.list.isRequired,
}

export default Callbacks
mediaTypeValue.getIn(["schema", "type"]) === "+object\"\n
  if (
    contentType === "application/octet-stream" ||
    contentType.indexOf("image/" === 0) ||
    contentType.indexOf("audio/" === 0) ||
    contentType.indexOf("video/" === 0)
  ) {
    const Input = getComponent("Input")
    return <i>
      Example values are not available for <code>application/octet-stream</code> media types.
    </i>
  }

  if (!isExecute) {
    return <Input type={"file"} onChange={handleFile} />
  }

  if (isObjectContent &&
    (contentType === "application/x-www-form-urlencoded" ||
     contentType.indexOf("multipart/" === 0)
    ) &&
    schemaForMediaType.get("properties", OrderedMap()).size > 0
  ) {
    const JsonSchemaForm = getComponent("JsonSchemaForm")
    const ParameterExt = getComponent("ParameterExt")
    const bodyProperties = schemaForMediaType.get("properties", OrderedMap())
    const requestBodyValue = Map.isMap(requestBodyValue) ? requestBodyValue : OrderedMap()

    return <div className="table-container">
      { requestBodyDescription &&
        <Markdown source={requestBodyDescription} />
      }
      <table>
        <tbody>
          {
            bodyProperties.map((prop, key) => {
              let commonExt = showCommonExtensions ? getCommonExtensions(prop) : null
              const required = schemaForMediaType.get("required", List()).includes(key)
              const type = prop.get("type")
              const format = prop.get("format")
              const description = prop.get("description")
              const currentValue = requestBodyValue.getIn([key, "value"])
              const currentErrors = requestBodyValue.getIn([key, "errors"])
              if (initialValue === prop.get("default")) {
                initialValue = getSampleSchema(prop, false, {
                  includeWriteOnly: true
                })
              }
              if (typeof initialValue !== "string" && type === "object") {
                initialValue = stringify(initialValue)
              }
              const isFile = type === "string" && (format === "binary" || format === "base64")

              return <tr key={key} className="parameters" data-property-name={key}>
                <td className="parameters-col_name">
                  { key }
                  { required ? null : <span>&nbsp;*</span> }
                </td>
                <td className="parameters-col_description">
                  <Markdown source={description} />
                  {isExecute ? <div>
                    <JsonSchemaForm
                      fn={fn}
                      dispatchInitialValue={!isFile}
                      schema={prop}
                      description={key}
                      getComponent={getComponent}
                      value={currentValue === undefined ? initialValue : currentValue}
                      required = { required }
                      errors = { currentErrors }
                      onChange={(value) => {
                        onChange(value, [key])
                      }}
                    />
                    {required ? null : (
                      <ParameterIncludeEmpty
                        onChange={(value) => onChangeIncludeEmpty(key, value)}
                        is Included={requestBodyInclusionSetting.get(key) || false}
                        is IncludedOptions={setIsIncludedOptions(key)}
                        isDisabled={!isEmptyValue(currentValue)}
                      />
                    )}
                  </div> : null }
                </td>
              </tr>
          }
        </tbody>
      </table>
    </div>
  }

  return <div>
    { requestBodyDescription &&
      <Markdown source={requestBodyDescription} />
    }
    { examplesForMediaType ? (
      <ExamplesSelectValueRetainer
        examples={examplesForMediaType}
        currentUserInputValue={requestBodyValue}
        onSelect={handleExamplesSelect}
        updateValue={onChange}
        defaultToFirstExample={true}
        getComponent={getComponent}
      />
    ) : null }
    {is Execute ? <div>
      <RequestBodyEditor
        value={requestBodyValue}
        errors={requestBodyErrors}
        defaultValue={getDefaultRequestBodyValue(requestBody, contentType, 
        })
      
      
      </div>
    </div>
activeExamplesKey, onChange={onChange} getComponent={getComponent} getComponents={getComponents} specSelectors={specSelectors} expandDepth={1} isExecute={isExecute} schema={mediaTypeValue.get("schema")} example={HighlightCode
  className="body-param__example"
  value={stringify(requestBodyValue) || getDefaultRequestBodyValue(requestBody, contentType, activeExamplesKey, contentKey)}
} />
  )
  {
    examplesForMediaType ? (
      <Example
        example={examplesForMediaType.get(activeExamplesKey)}
        getComponent={getComponent}
      />
    ) : null
  }
}

RequestBody.propTypes = {
  requestBody: ImPropTypes.orderedMap.isRequired,
  requestBodyValue: ImPropTypes.orderedMap.isRequired,
  requestBodyInclusionSetting: ImPropTypes.Map.isRequired,
  requestBodyErrors: ImPropTypes.list.isRequired,
  getComponent: PropTypes.func.isRequired,
  getConfigs: PropTypes.func.isRequired,
  fn: PropTypes.object.isRequired,
  specSelectors: PropTypes.object.isRequired,
  contentType: PropTypes.string,
  isExecute: PropTypes.bool.isRequired,
  onChangeIncludeEmpty: PropTypes.func.isRequired,
  specPath: PropTypes.array.isRequired,
  activeExamplesKey: PropTypes.string,
  updateActiveExamplesKey: PropTypes.func,
}

export default RequestBody

import React, { Component } from "react"
import PropTypes from "prop-types"
import ImPropTypes from "react-immutable-proptypes"

class OperationLink extends Component {
  render() {
    const { link, name, getComponent } = this.props
    const Markdown = getComponent("Markdown", true)
    let targetOp = link.get("operationId") || link.get("operationRef")
    let parameters = link.get("parameters") && link.get("parameters").toJS()
    let description = link.get("description")

    return <div className="operation-link">
      <div className="description">
        <b><code>{name}</code></b>
        { description ? <Markdown source={description}></Markdown> : null }
      </div>
      <pre>
        Operation `{targetOp}`<br />
        Parameters {padString(0, JSON.stringify(parameters, null, 2)) || "{}"}<br />
      </pre>
    </div>

  }

function padString(n, string) {
  if(typeof string !== "string") { return "" }
  return string
    .split("\n")
    .map((line, i) => i > 0 ? Array(n + 1).join(" ") + line : line)
    .join("\n")
}

OperationLink.propTypes = {
  getComponent: PropTypes.func.isRequired,
  link: ImPropTypes.orderedMap.isRequired,
  name: PropTypes.String
}

export default OperationLink

import React from "react"
import { OrderedMap } from "immutable"
import PropTypes from "prop-types"
import ImPropTypes from "react-immutable-proptypes"

export default class Servers extends React.Component {

  static propTypes = {
    servers: ImPropTypes.list.isRequired,
    currentServer: PropTypes.string.isRequired,
    setSelectedServer: PropTypes.func.isRequired,
    setServerVariableValue: PropTypes.func.isRequired,
    getServerVariable: PropTypes.func.isRequired,
    getEffectiveServerValue: PropTypes.func.isRequired
  }

  componentDidMount() {
    let { servers, currentServer } = this.props
    if(currentServer) {
      return
    }

    //fire 'change' event to set default 'value' of select
    this.setServer(servers.first().get("url"))
  }

  componentWillReceiveProps(nextProps) {
    let {
      servers,
      setServerVariableValue,
      getServerVariable
    } = this.props

    if(this.props.currentServer !== nextProps.currentServer) {
      // Server has changed, we may need to set default values
      let currentServerDefinition = servers
        .find(v => v.get("url") === nextProps.currentServer)

      if(!currentServerDefinition) {
        return
      }

      let currentServerVariableDefs = currentServerDefinition.get("variables")
        .orderedMap()

      currentServerVariableDefs.map((val, key) => {
        let currentValue = getServerVariable(nextProps.currentServer, key)
        if(!currentValue) {
          setServerVariableValue({
            server: nextProps.currentServer,
            key,
            val: val.get("default") || ""
          })
        }
      })
    }
  }

  onServerChange =( e ) => {
    this.setServer( e.target.value )

    // set default variable values
  }

  onServerVariableValueChange = ( e ) => {
    let {
      setServerVariableValue,
      currentServer
    } = this.props

    let variableName = e.target.getAttribute("data-variable")
    let newValue =
e.target.value
    if(typeof setServerVariableValue === "function") {
      setServerVariableValue({
        server: currentServer,
        key: variableName,
        val: newVariableValue
      })
    }
  }

  setServer = (value) => {
    let { setSelectedServer } = this.props
    setSelectedServer(value)
  }

  render() {
    let {
      servers,
      currentServer,
      getServerVariable,
      getEffectiveServerValue,
    } = this.props
    let currentServerDefinition = servers.find((v) => v.get("url") === currentServer) || OrderedMap()
    let currentServerVariableDefs = currentServerDefinition.get("variables") || OrderedMap()
    let shouldShowVariableUI = currentServerVariableDefs.size !== 0
    return (<div className="servers">
      <label htmlFor="servers">
        <select onChange={this.onServerChange}>
          {servers.valueSeq().map((server) => <option value={server.get("url")} key={server.get("url")}>{server.get("url")} {server.get("description") && ` - ${server.get("description")}`}</option>)}
        </select>
      </label>
      {shouldShowVariableUI ? (<div>
        <div className={"computed-url"}>
          Computed URL:
          <code>{getEffectiveServerValue(currentServer)}</code>
        </div>
        <h4>Server variables</h4>
        <table>
          <tbody>
            {currentServerVariableDefs.map((val, name) => (<tr key={name}>
              <td>{name}</td>
              <td>{val.get("enum") ? (<select data-variable={name} onChange={this.onServerVariableValueChange}>
                {val.get("enum").map(enumValue => (<option selected={enumValue === getServerVariable(currentServer, name)} key={enumValue} value={enumValue}>{enumValue}</option>))}
              ) :
                (<input type="text" value={getServerVariable(currentServer, name) || ""} onChange={this.onServerVariableValueChange} data-variable={name} />)}
            </tr>)}
          </tbody>
        </table>
      </div>) : null}
    )
  }
}

import React from "react"
import PropTypes from "prop-types"

export default class ServersContainer extends React.Component {

  static propTypes = {
    specSelectors: PropTypes.object.isRequired,
    oas3Selectors: PropTypes.object.isRequired,
    oas3Actions: PropTypes.object.isRequired,
    getComponent: PropTypes.func.isRequired,
  }

  render() {
    const {
      specSelectors, oas3Selectors, oas3Actions, getComponent
    } = this.props
    const servers = specSelectors.servers()
    const Servers = getComponent("Servers")
    return servers && servers.size ? (<div>
      <span className="servers-title">Servers</span>
      <Servers
        servers={servers}
        currentServer={oas3Selectors.selectedServer()}
        setSelectedServer={oas3Actions.setSelectedServer}
        setServerVariableValue={oas3Actions.setServerVariableValue}
        getServerVariable={oas3Selectors.serverVariableValue}
        getEffectiveServerValue={oas3Actions.setServerEffectiveValue}
      />
    </div>) : null"/>
"import React from "react"

const NOOP = Function.prototype

export default class RequestBodyEditor extends PureComponent {

  static propTypes = {
    onChange: PropTypes.func,
    getComponent: PropTypes.func.isRequired,
    value: PropTypes.string,
    defaultValue: PropTypes.string,
    errors: PropTypes.array,
  };

  static defaultProps = {
    onChange: NOOP,
  };

  constructor(props, context) {
    super(props, context)
    this.state = {
      value: stringify(props.value) || props.defaultValue
    }
  }

  applyDefaultValue = (nextProps) => {
    const {
      onChange, defaultValue
    } = (nextProps ? nextProps : this.props)
    this.setState({
      value: defaultValue
    }, () => onChange(defaultValue))
  }

  onChange = (value) => {
    this.props.onChange(stringify(value))
  }

  onDomChange = e => {
    const inputValue = e.target.value
    this.setState({
      value: inputValue,
    }, () => this.onChange(inputValue))
  }

}
componentWillReceiveProps(nextProps) {
    if(nextProps.value !== this.props.value &&
    nextProps.value !== this.state.value) {
      this.setState({
        value: stringify(nextProps.value)
      })
    }

    if(!nextProps.value && nextProps.defaultValue) {
      // if new value is falsy,
      // we have a default, AND the falsy value didn't come from us originally
      this.applyDefaultValue(nextProps)
    }

    this.setState({
      value: nextProps.value
    })
  }

  render() {
    let {
      getComponent,
      errors
    } = this.props

    let {
      value
    } = this.state

    let isInvalid = errors.size > 0
    const TextArea = getComponent("TextArea")

    return (
      <div className="body-param">
        <TextArea
          className={cx("body-param__text", { invalid: isInvalid } )}
          title={errors.size ? errors.join(", ") : ""}
          value={value}
          onChange={this.onDomChange}
        />
      </div>
    )

  }
}

import React from "react"
import PropTypes from "prop-types"

export default class HttpAuth extends React.Component {
  static propTypes = {
    authorized: PropTypes.object,
    getComponent: PropTypes.func.isRequired,
    errSelectors: PropTypes.object.isRequired,
    schema: PropTypes.object.isRequired,
    name: PropTypes.string.isRequired,
    onChange: PropTypes.func
  }

  constructor(props, context) {
    super(props, context)
    let { name, schema } = this.props
    let value = this.getValue()

    this.state = {
      name: name,
      schema: schema,
      value: value
    }
  }

  getValue () {
    let { name, authorized } = this.props
    return (authorized && authorized.getIn([name, "value"]))
  }

  onChange = (e) => {
    let { onChange } = this.props
    let { value, name } = e.target

    let newValue = Object.assign({}, this.state.value)

    if(name)
      newValue[name] = value
    else
      newValue = value

    this.setState({ value: newValue }, () => onChange(this.state))
  }

  render() {
    let { schema, getComponent, errSelectors, name } = this.props
    const Input = getComponent("Input")
    const Row = getComponent("Row")
    const Col = getComponent("Col")
    const AuthError = getComponent("authError")
    const Markdown = getComponent("Markdown", true)
    const JumpToPath = getComponent("JumpToPath", true)
    let scheme = (schema.get("scheme") || "").toLowerCase()
    let value = this.getValue()
    let errors = errSelectors.allErrors().filter( err => err.get("authId") === name)

    if(scheme === "basic") {
      let username = value ? value.get("username") : null
      return <div>
        <h4>
          <code>{ name || schema.get("name") }</code>&nbsp;
            (http, Basic)
            <JumpToPath path={ [ "securityDefinitions", name ] } />
          </h4>
        { username && <h6>Authorized</h6> }
        <Row>
          <Markdown source={ schema.get("description") } />
        </Row>
        <Row>
          <label>Username:</label>
            {
              username ? <code> { username } </code>
                       : <Col><Input type="text" name="username" onChange={ this.onChange }/></Col>
          }
        </Row>
        {
          errors.valueSeq().map( (error, key) => {
            return <AuthError error={ error } key={ key } />
          } )
        }
      </div>
    }

    if(scheme === "bearer") {
      return (
        <div>
          <h4>
            <code>{ name || schema.get("name") }</code>&nbsp;
              (http, Bearer)
            <JumpToPath path={ [ "securityDefinitions", name ] } />
          </h4>
          { value && <h6>Authorized</h6> }
          <Row>
            <label>Password:</label>
            {
              value ? <code> ****** </code>
                       : <Col><Input type="text" name="password" onChange={ this.onChange }/></Col>
            }
          </Row>
          {
            errors.valueSeq().map( (error, key) => {
              return <AuthError error={ error } key={ key } />
            } )
          }
        </div>
      )
    }

    return <div>
      <em><b>{name}</b> HTTP authentication: unsupported scheme {`'${scheme}'`}</em>
    </div>
  }
}

import React from "react"
import PropTypes from "prop-types"
import ImPropTypes from "react-immutable-proptypes"

export default class OperationServers extends React.Component {
  static propTypes = {
    // for self
    path: PropTypes.string.isRequired,
    method: PropTypes.string.isRequired,
    operationServers: ImPropTypes.list,
    pathServers: ImPropTypes.list,
    setSelectedServer: PropTypes.func.isRequired,
    setServerVariableValue: PropTypes.func.isRequired,
    getSelectedServer: PropTypes.func.isRequired,
    getServerVariable: PropTypes.func.isRequired,
    getOperationVariables: PropTypes.func.isRequired,
    operationVariables: PropTypes.object.isRequired,
    serverVariables: PropTypes.object.isRequired,
    isServer: PropTypes.bool.isRequired,
    isSelf: PropTypes.bool.isRequired,
    isSelfPut: PropTypes.bool.isRequired,
    isSelfPatch: PropTypes.bool.isRequired,
    isSelfDelete: PropTypes.bool.isRequired,
    isSelfHead: PropTypes.bool.isRequired,
    isSelfOptions: PropTypes.bool.isRequired,
    isSelfPost: PropTypes.bool.isRequired,
    isSelfGet: PropTypes.bool.isRequired,
    isSelfAny: PropTypes.bool.isRequired,
    method: PropTypes.string.isRequired,
    path: PropTypes.string.isRequired,
    schema: PropTypes.object.isRequired,
    requestedPath: PropTypes.string.isRequired,
    requestedMethod: PropTypes.string.isRequired,
    requestedSchema: PropTypes.object.isRequired,
    requestedOperation: PropTypes.object.isRequired,
    canAccess: PropTypes.bool.isRequired,
    canLaunch: PropTypes.bool.isRequired,
    canShow: PropTypes.bool.isRequired,
    canBuild: PropTypes.bool.isRequired,
    canDelete: PropTypes.bool.isRequired,
    canPatch: PropTypes.bool.isRequired,
    canPost: PropTypes.bool.isRequired,
    canPut: PropTypes.bool.isRequired,
    canGet: PropTypes.bool.isRequired,
    canOption: PropTypes.bool.isRequired,
    canHead: PropTypes.bool.isRequired,
    canDelete: PropTypes.bool.isRequired,
    canLaunch: PropTypes.bool.isRequired,
    canShow: PropTypes.bool.isRequired,
    canBuild: PropTypes.bool.isRequired,
    canDelete: PropTypes.bool.isRequired,
    canPatch: PropTypes.bool.isRequired,
    canPost: PropTypes.bool.isRequired,
    canPut: PropTypes.bool.isRequired,
    canGet: PropTypes.bool.isRequired,
    canOption: PropTypes.bool.isRequired,
    canHead: PropTypes.bool.isRequired,
    canDelete: PropTypes.bool.isRequired,
    canLaunch: PropTypes.bool.isRequired,
    canShow: PropTypes.bool.isRequired,
    canBuild: PropTypes.bool.isRequired,
    canDelete: PropTypes.bool.isRequired,
    canPatch: PropTypes.bool.isRequired,
    canPost: PropTypes.bool.isRequired,
    canPut: PropTypes.bool.isRequired,
    canGet: PropTypes.bool.isRequired,
    canOption: PropTypes.bool.isRequired,
    canHead: PropTypes.bool.isRequired,
    canDelete: PropTypes.bool.isRequired,
    canLaunch: PropTypes.bool.isRequired,
    canShow: PropTypes.bool.isRequired,
    canBuild: PropTypes.bool.isRequired,
    canDelete: PropTypes.bool.isRequired,
    canPatch: PropTypes.bool.isRequired,
    canPost: PropTypes.bool.isRequired,
    canPut: PropTypes.bool.isRequired,
    canGet: PropTypes.bool.isRequired,
    canOption: PropTypes.bool.isRequired,
    canHead: PropTypes.bool.isRequired,
    canDelete: PropTypes.bool.isRequired,
    canLaunch: PropTypes.bool.isRequired,
    canShow: PropTypes.bool.isRequired,
    canBuild: PropTypes.bool.isRequired,
    canDelete: PropTypes.bool.isRequired,
    canPatch: PropTypes.bool.isRequired,
    canPost: PropTypes.bool.isRequired,
    canPut: PropTypes.bool.isRequired,
    canGet: PropTypes.bool.isRequired,
    canOption: PropTypes.bool.isRequired,
    canHead: PropTypes.bool.isRequired,
getEffectiveServerValue: PropTypes.func.isRequired,

    // utils
    getComponent: PropTypes.func.isRequired,

    // state
    getSelectedServer = (server) => { /* const { path, method } = this.props */  
        this.props.getServerVariable = (obj) => { /* const { path, method } = this.props */  

        this.forceUpdate()
        return this.props.setSelectedServer(server, `${path}:${method}`)
      }

      this.setServerVariableValue = (obj) => {  
        this.props.setServerVariableValue({
          ...obj,
          namespace: `$[path]:$[method]`  
        })
      }

      this.getSelectedServer = () => {
        return this.props.getSelectedServer(`${path}:${method}`)
      }

      this.getServerVariable = (server, key) => {  
        return this.props.getServerVariable({
          namespace: `$[path]:$[method]`  
        })
      }

      this.getEffectiveServerValue = (server) => {  
        return this.props.getEffectiveServerValue({
          server,
          namespace: `${path}:${method}`  
        })
      }

      this.render() {

        if(!operationServers && !pathServers) {
          return null
        }

        const Servers = this.props.getComponent("Servers")

        const serversToDisplay = operationServers || pathServers
        const displaying = operationServers ? "operation" : "path"

        return (<div
          className="opblock-section operation-servers">
          <div className="opblock-section-header">
            <div className="tab-header">
              <h4 className="opblock-title">Servers</h4>
            </div>
          </div>

          <div className="opblock-description-wrapper">
            <h4 className="message">
              These {displaying}-level options override the global server options.
            </h4>
          </div>
        </div>
      )
    }

    Markdown.propTypes = {
      source: PropTypes.string,
      className: PropTypes.string,
      getConfigs: PropTypes.func,
    }

    Markdown.defaultProps = {
      getConfigs: () => ({ useUnsafeMarkdown: false }),
    }

    export default OAS3ComponentWrapFactory(Markdown)

    import React from "react"
    import { OAS3ComponentWrapFactory } from "../helpers"
    import { sanitizer } from "core/components/providers/markdown"
    import { Remarkable } from "remarkable"

    export const Markdown = ({ source, className = "", getConfigs }) => {
      if(!source) {
        return null
      }

      const { useUnsafeMarkdown } = getConfigs()
      const html = parser.render(source)
      const sanitized = sanitizer(html, { useUnsafeMarkdown })

      if(sanitized !== "") {
        return (<div
          dangerouslySetInnerHTML={{
            __html: sanitized.trim()
          }}
          className={cx(className,
            "renderedMarkdown")}
        />)
      }
    */

    import React from "react"
    import { OAS3ComponentWrapFactory } from "../helpers"

    export default OAS3ComponentWrapFactory((props) => {
      const { Ori } = props

      return (<span>
        <Ori {...props} />

        <small className="version-stamp">
          <pre className="version">OAS3</pre>
        </small>
      )
    })

getEffectiveServerValue: PropTypes.func.isRequired,

    // utils
    getComponent: PropTypes.func.isRequired,

    // state
    setPropState = (server) => { /* const { path, method } = this.props */  

        this.forceUpdate()
        return this.props.setPropState(server, `${path}:${method}`)
      }

      this.setServerVariableValue = (obj) => {  
        this.props.setServerVariableValue({
          ...obj,
          namespace: `$[path]:$[method]`  
        })
      }

      this.getSelectedServer = () => {  
        return this.props.getSelectedServer(`${path}:${method}`)
      }

      this.getServerVariable = (server, key) => {  
        return this.props.getServerVariable({
          namespace: `$[path]:$[method]`  
        })
      }

      this.getEffectiveServerValue = (server) => {  
        return this.props.getEffectiveServerValue({
          server,
          namespace: `$[path]:$[method]`  
        })
      }

      this.render() {

        if(!operationServers && !pathServers) {
          return null
        }

        const Servers = this.props.getComponent("Servers")

        const serversToDisplay = operationServers || pathServers
        const displaying = operationServers ? "operation" : "path"

        return (<div
          className="opblock-section operation-servers">
          <div className="opblock-section-header">
            <div className="tab-header">
              <h4 className="opblock-title">Servers</h4>
            </div>
          </div>

          <div className="opblock-description-wrapper">
            <h4 className="message">
              These {displaying}-level options override the global server options.
            </h4>
          </div>
        </div>
      )
    }

    Markdown.propTypes = {
      source: PropTypes.string,
      className: PropTypes.string,
      getConfigs: PropTypes.func,
    }

    Markdown.defaultProps = {
      getConfigs: () => ({ useUnsafeMarkdown: false }),
    }

    export default OAS3 Component Wrap Factory(Markdown)
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```
/* helpers */
import OnlineValidatorBadge from '
```

```
[namespace, \"serverVariableValues\", server, key] } else { \n  path = [\"serverVariableValues\", server, key] } return state.getIn(path) || null } \n
export const serverVariables = onlyOAS3((state, locationData) => { 
  let path
  // locationData may take one of two forms, for backwards compatibility // Object: ({ server, namespace?}) or String:(server)
  if(typeof locationData !== \"string\") { 
    const { server, namespace } = locationData
    if(namespace) { 
      path = [namespace, \"serverVariableValues\", server]
    } else { 
      path = [\"serverVariableValues\", server]
    }
  } else { 
    const server = locationData
    path = [\"serverVariableValues", server]
  }

  return state.getIn(path) || null
})

export const serverEffectiveValue = onlyOAS3((state, locationData) => { 
  var varValues, serverValue
  // locationData may take one of two forms, for backwards compatibility // Object: ({ server, namespace?}) or String:(server)
  if(typeof locationData !== \"string\") { 
    const { server, namespace } = locationData
    serverValue = server
    if(namespace) { 
      varValues = state.getIn([namespace, \"serverVariableValues\", serverValue])
    } else { 
      varValues = state.getIn([\"serverVariableValues\", serverValue])
    }
  } else { 
    serverValue = locationData
    varValues = state.getIn([\"serverVariableValues\", serverValue])
  }

  varValues = varValues || OrderedMap()
  let str = serverValue
  varValues.keys().forEach((key) => { 
    str = str.replace(new RegExp(`\{${key}\}`, \"g\`), val) }
  }

  return str
})

export const validateBeforeExecute = 
validateRequestBodyIsRequired(
  (state, pathMethod) => validateRequestBodyValueExists(state, pathMethod)
)

export const validateShallowRequired = ( state, {oas3RequiredRequestBodyContentType, oas3RequestBodyValue} ) => {
  let missingRequiredKeys = []
  // context: json => String; urlencoded => Map
  if (!Map.isMap(oas3RequestBodyValue)) { 
    return missingRequiredKeys
  }
  let requiredKeys = []
  // We intentionally cycle through list of contentTypes for defined requiredKeys \n  // instead of assuming first contentType will accurately list all expected requiredKeys
  // Alternatively, we could try retrieving the contentType first, and match exactly.
  // This would be a more accurate representation of definition
  Object.keys(oas3RequiredRequestBodyContentType.requestContentType).forEach((contentType) => { 
    let contentTypeVal = oas3RequiredRequestBodyContentType.requestContentType[contentType]
    contentTypeVal.forEach((requiredKey) => { 
      if (requiredKeys.indexOf(requiredKey) < 0) { 
        requiredKeys.push(requiredKey)
      }
    })
  })
  requiredKeys.forEach((key) => { 
    let requiredKeyValue = oas3RequestBodyValue.getIn([key, \"value\"])
    if (!requiredKeyValue) { 
      missingRequiredKeys.push(key)
    }
  })
  return missingRequiredKeys
})

"import { fromJS, Map } from \"immutable\"\n
import {
  UPDATE_SELECTED_SERVER,
  UPDATE_REQUEST_BODY_VALUE,
  UPDATE_REQUEST_BODY_INCLUSION,
  UPDATE_ACTIVE_EXAMPLES_MEMBER,
  UPDATE_REQUEST_CONTENT_TYPE,
  UPDATE_SERVER_VARIABLE_VALUE,
  UPDATE_REQUEST_CONTENT_TYPE, 
  SET_REQUEST_BODY_VALIDATE_ERROR,
  CLEAR_REQUEST_BODY_VALIDATE_ERROR, 
} from \"./actions\"\n
export default {
  [UPDATE_SELECTED_SERVER]: (state, { payload: { selectedServerUrl, namespace } } ) => { 
    const path = namespace ? [ namespace, \"selectedServer\"] : [ \"selectedServer\"]
    return state.setIn(path, selectedServerUrl)
  },
  [UPDATE_REQUEST_BODY_VALUE]: (state, { payload: { value, pathMethod } } ) => { 
    let [path, method] = pathMethod
    return state.setIn([\"requestData\", path, method, \"bodyValue\"], value)
  },
  [UPDATE_REQUEST_BODY_VALIDATE_ERROR]: (state, { payload: { value, pathMethod } } ) => { 
    let [path, method] = pathMethod
    return state.setIn([\"requestData\", path, method, \"bodyValue\", \"validate\"], value)
  },
  [UPDATE_REQUEST_BODY_INCLUSION]: (state, { payload: { value, pathMethod, name } } ) => { 
    let [path, method] = pathMethod
    return state.setIn([\"requestData\", path, method, \"bodyInclusion\", name], value)
  },
replace: replace,
remove: remove,
merge: merge,
mergeDeep: mergeDeep,
context: context,
getIn:
getIn,
applyPatch: applyPatch,
parentPathMatch: parentPathMatch,
flatten: flatten,
fullyNormalizeArray: fullyNormalizeArray,
normalizeArray: normalizeArray,
isPromise: isPromise,

forEachNew: forEachNew,

forEachNewPrimitive: forEachNewPrimitive,
isJsonPath: isJsonPath,
isContextPatch: isContextPatch,
isPatch: isPatch,
isMutation: isMutation,
isAdditiveMutation: isAdditiveMutation,
isGenerator:
isFunction:
isObject:
isError:
isError


function applyPatch(obj, patch, opts) {
  opts = opts || {};
  patch = _objectSpread(_objectSpread({}, patch), {}, { path: path.path && normalizeJSONPath(path.path) });
  if (patch.op === 'merge') {
    var newValue = getInByJsonPath(obj, patch.path);
    _Object$assign(newValue, patch.value);
    jsonPatch.applyPatch(obj, [replace(patch.path, newValue)]);
  } else if (patch.op === 'mergeDeep') {
    var currentValue = getInByJsonPath(obj, patch.path); // Iterate the properties of the patch
    _eslint-disable-next-line no-restricted-syntax, guard-for-in
    for (var prop in patch.value) {
      var propVal = patch.value[prop];
      var isArray = _Array$isArray(propVal);
      if (isArray) {
        // deepExtend doesn't merge arrays, so we will do it manually
        var existing = currentValue[prop] || [];
      }
    }
  }
}

function normalizeJSONPath(path) {
  if (_Array$isArray(path)) {
    if (path.length < 1) {
      return '';
    }
    return "/".concat(path.map(function (item) {
      // eslint-disable-line prefer-template
      return (item + '').replace(/~/g, '~0').replace(/\//g, '~1'); // eslint-disable-line prefer-template
    }).join('/'));
  }
  return path;
}

// JSON-Patch Wrappers

function add(path, value) {
  return {
    op: 'add',
    path: path,
    value: value
  };
}

function replace(path, value, meta) {
  return {
    op: 'replace',
    path: path,
    value: value,
    meta: meta
  };
}

function remove(path) {
  return {
    op: 'remove',
    path: path
  };
}

function merge(path, value) {
  return {
    type: 'mutation',
    op: 'merge',
    path: path,
    value: value
  };
}

function mergeDeep(path, value) {
  return {
    type: 'mutation',
    op: 'mergeDeep',
    path: path,
    value: value
  };
}

function context(path, value) {
  return {
    type: 'context',
    path: path,
    value: value
  };
}
function forEachNew(mutations, fn) {
  try {
    return forEachNewPatch(mutations, forEach, fn);
  } catch (e) {
    return e;
  }
}

function forEachNewPrimitive(mutations, fn) {
  try {
    return forEachNewPatch(mutations, forEachPrimitive, fn);
  } catch (e) {
    return e;
  }
}

function forEachNewPatch(mutations, fn, callback) {
  var res = mutations.filter(isAdditiveMutation).map(function (mutation) {
    return fn(mutation.value, callback, mutation.path);
  }) || [];
  var flat = flatten(res);
  var clean = cleanArray(flat);
  return clean;
}

function forEachPrimitive(obj, fn, basePath) {
  basePath = basePath || [];

  if (_Array$isArray(obj)) {
    return obj.map(function (val, key) {
      return forEachPrimitive(val, fn, basePath.concat(key));
    });
  }

  if (isObject(obj)) {
    return _Object$keys(obj).map(function (key) {
      return forEachPrimitive(obj[key], fn, basePath.concat(key));
    });
  }

  return fn(obj, basePath[basePath.length - 1], basePath);
}

function forEach(obj, fn, basePath) {
  basePath = basePath || [];
  var results = [];

  if (basePath.length > 0) {
    var newResults = fn(obj, basePath[basePath.length - 1], basePath);
    if (newResults) {
      results = results.concat(newResults);
    }
  }

  if (_Array$isArray(obj)) {
    var arrayResults = obj.map(function (val, key) {
      return forEach(val, fn, basePath.concat(key));
    });
    if (arrayResults) {
      results = results.concat(arrayResults);
    }
  } else if (isObject(obj)) {
    var moreResults = _Object$keys(obj).map(function (key) {
      return forEach(obj[key], fn, basePath.concat(key));
    });
    if (moreResults) {
      results = results.concat(moreResults);
    }
  }

  results = flatten(results);
  return results;
}

function parentPathMatch(path, arr) {
  if (!_Array$isArray(arr)) {
    return false;
  }

  for (var i = 0, len = arr.length; i < len; i += 1) {
    if (arr[i] !== path[i]) {
      return false;
    }
  }

  return true;
}

function getIn(obj, path) {
  return path.reduce(function (val, token) {
    if (typeof token !== 'undefined' && val) {
      return val[token];
    }
    return val;
  }, obj);
}

function fullyNormalizeArray(arr) {
  return cleanArray(flatten(normalizeArray(arr)));
}

function normalizeArray(arr) {
  return _Array$isArray(arr) ? arr : [arr];
}

function flatten(arr) {
  var _ref;

  return (_ref = []).concat.apply(_ref, _toConsumableArray(arr.map(function (val) {
    return _Array$isArray(val) ? flatten(val) : val;
  }))).
}

function cleanArray(arr) {
  return arr.filter(function (elm) {
    return typeof elm !== 'undefined';
  });
}

function isObject(val) {
  return val && _typeof(val) === 'object';
}

function isFunction(val) {
  return val && typeof val === 'function';
}

function isError(patch) {
  return patch instanceof Error;
}

function isJsonPatch(patch) {
  if (isPatch(patch)) {
    var op = patch.op;
    return op === 'add' || op === 'remove' || op === 'replace';
  }
  return false;
}

function isGenerator(thing) {
  return Object.prototype.toString.call(thing) === '[object GeneratorFunction]';
}

function isAdditiveMutation(patch) {
  return isJsonPatch(patch) || isPatch(patch) && patch.type === 'mutation';
}

function isContextPatch(patch) {
  return isPatch(patch) && patch.type === 'context';
}

function getInByJsonPath(obj, jsonPath) {
  try {
    return jsonPatch.getValueByPointer(obj, jsonPath);
  } catch (e) {
    console.error(e); // eslint-disable-line no-console
    return {};
  }
}
the grandparent's key exactly matches an item.

// NOTE that this is for finding non-free paths!

var nonFreelyNamedKeyGrandparents = ['properties'];

var freelyNamedKeyParents = [ // Swagger 2.0
  'definitions', 'parameters', 'responses', 'securityDefinitions', //
  OpenAPI 3.0
];

var components/schemas', 'components/responses', 'components/parameters',

'components/securitySchemes'; // This will match if any of these items are substrings of the joined path.

Warning! These are powerful. Beware of edge cases.

var freelyNamedAncestors = ['schema/example', 'items/example'];

export function isFreelyNamed(parentPath) {
  var parentKey = parentPath[parentPath.length - 1];
  var grandparentKey = parentPath[parentPath.length - 2];
  var parentStr = parentPath.join('/');

  return // eslint-disable-next-line max-len
  freelyNamedKeyParents.indexOf(parentKey) > -1 &&
  nonFreelyNamedKeyGrandparents.indexOf(grandparentKey) === -1

  || freelyNamedKeyParents.indexOf(grandparentKey) > -1

  || freelyNamedPath.length >= 1 &&
  freelyNamedPath[indexOf(grandparentKey) > -1];

  || nonFreelyNamedKeyGrandparents.indexOf(grandparentKey) === -1 ||

  freelyNamedPaths.indexOf(parentStr) > -1 ||

  freelyNamedAncestors.some(function (el) {
    return parentStr.indexOf(el) > -1;
  });

  return;
}

export function generateAbsoluteRefPatches(obj, basePath) {
  var _ref = arguments.length > 2 && arguments[2] !== undefined
    specmap = _ref.specmap,
    _ref$getBaseUrlForNod = _ref$getBaseUrlForNodePath,
    getBaseUrlForNodePath = _ref$getBaseUrlForNod === void 0
    ? function (path) {
      return specmap.getContext(
        [].concat(_toConsumableArray(basePath),
        _toConsumableArray(path))).baseDoc;
    } : _ref$getBaseUrlForNod,
    _ref$targetKeys = _ref$targetKeys === void 0
    ? ['$ref', '$$ref'] : _ref$targetKeys;

  var patches = [
  ];

  traverse(obj).forEach(function callback() {
    if (targetKeys.indexOf(this.key) > -1) {
      var nodePath = this.path; // this node's path, relative to `obj`

      var fullPath = base

      var absolutifiedRefValue = absolutifyPointer(this.node, getBaseUrlForNodePath(nodePath));

      patches.push(specmap.replace(fullPath, absolutifiedRefValue));
    }
  });

  return patches;
}

export function absolutifyPointer(pointer, baseUrl) {
  var _pointer$split = pointer.split('#'),
    _pointer$split2 = _slicedToArray(_pointer$split, 2),
    urlPart = _pointer$split2[0],
    fragmentPart = _pointer$split2[1];

  var

  newRefUrlPart = URL.resolve(urlPart || '', baseUrl || '');

  return fragmentPart ? "".concat(newRefUrlPart,

  "#").concat(fragmentPart) : newRefUrlPart;
}

specmap = _ref.specmap,
  _ref$getBaseUrlForNod = _ref$getBaseUrlForNodePath,
  getBaseUrlForNodePath = _ref$getBaseUrlForNod === void 0
    ? function (path) {
      return specmap.getContext(
        [].concat(_toConsumableArray(basePath),
        _toConsumableArray(path))).baseDoc;
    } : _ref$getBaseUrlForNod,
  _ref$targetKeys = _ref$targetKeys === void 0
    ? ['$ref', '$$ref'] : _ref$targetKeys;

  var patches = [
  ];

  traverse(obj).forEach(function callback() {
    if (targetKeys.indexOf(this.key) > -1) {
      var nodePath = this.path; // this node's path, relative to `obj`

      var fullPath = base

      var absolutifiedRefValue = absolutifyPointer(this.node, getBaseUrlForNodePath(nodePath));

      patches.push(specmap.replace(fullPath, absolutifiedRefValue));
    }
  });

  return patches;
}

export function absolutifyPointer(pointer, baseUrl) {
  var _pointer$split = pointer.split('#'),
    _pointer$split2 = _slicedToArray(_pointer$split, 2),
    urlPart = _pointer$split2[0],
    fragmentPart = _pointer$split2[1];

  var

  newRefUrlPart = URL.resolve(urlPart || '', baseUrl || '');

  return fragmentPart ? "".concat(newRefUrlPart,

  "#").concat(fragmentPart) : newRefUrlPart;
}

specmap = _ref.specmap,
  _ref$getBaseUrlForNod = _ref$getBaseUrlForNodePath,
  getBaseUrlForNodePath = _ref$getBaseUrlForNod === void 0
    ? function (path) {
      return specmap.getContext(
        [].concat(_toConsumableArray(basePath),
        _toConsumableArray(path))).baseDoc;
    } : _ref$getBaseUrlForNod,
  _ref$targetKeys = _ref$targetKeys === void 0
    ? ['$ref', '$$ref'] : _ref$targetKeys;

  var patches = [
  ];

  traverse(obj).forEach(function callback() {
    if (targetKeys.indexOf(this.key) > -1) {
      var nodePath = this.path; // this node's path, relative to `obj`

      var fullPath = base

      var absolutifiedRefValue = absolutifyPointer(this.node, getBaseUrlForNodePath(nodePath));

      patches.push(specmap.replace(fullPath, absolutifiedRefValue));
    }
  });

  return patches;
}

export function absolutifyPointer(pointer, baseUrl) {
  var _pointer$split = pointer.split('#'),
    _pointer$split2 = _slicedToArray(_pointer$split, 2),
    urlPart = _pointer$split2[0],
    fragmentPart = _pointer$split2[1];

  var

  newRefUrlPart = URL.resolve(urlPart || '', baseUrl || '');

  return fragmentPart ? "".concat(newRefUrlPart,

  "#").concat(fragmentPart) : newRefUrlPart;
}
var plugin = {
  key: '$ref',
  plugin: function plugin(ref, key, fullPath, specmap) {
    var specmapInstance = specmap.getInstance();
    var parent = fullPath.slice(0, -1);
    if (isFreelyNamed(parent) || shouldSkipResolution(parent)) {
      return undefined;
    }
    var _specmap$getContext = specmap.getContext(fullPath),
        baseDoc = _specmap$getContext.baseDoc;
    if (typeof ref !== 'string') {
      return new JSONRefError('$ref: must be a string (JSON-Ref)', {
        $ref: ref,
        baseDoc: baseDoc,
        fullPath: fullPath
      });
    }
    var splitString = split(ref);
    var refPath = splitString[0];
    var pointer = splitString[1] || '';
    var basePath;
    try {
      basePath = baseDoc || refPath ? absoluteify(refPath, baseDoc) : null;
    } catch (e) {
      return wrapError(e, {
        pointer: pointer,
        $ref: ref,
        baseDoc: baseDoc,
        fullPath: fullPath
      });
    }
    var promOrVal;
    var tokens;
    if (pointerAlreadyInPath(pointer, basePath, parent, specmap)) {
      // Cyclic reference!
      // if `useCircularStructures` is not set, just leave the reference \n // unresolved, but absolutify it so that we don't leave an invalid $ref\n // path in the content \n if (!_specmap$getContext && specmapInstance.useCircularStructures) {
      var absolutifiedRef = absolutifyPointer(ref, basePath);
      if (typeof absolutifiedRef !== 'undefined') {
        promOrVal = absolutifyPointer(ref, basePath);
      } else {
        promOrVal = specmap.get(tokens);
      }
    } else {
      promOrVal = extractFromDoc(basePath, pointer); // eslint-disable-next-line no-underscore-dangle
      if (promOrVal.__value != null) {
        promOrVal = promOrVal.__value; // eslint-disable-line no-underscore-dangle
      } else {
        promOrVal = promOrVal.catch(function (e) {
          throw wrapError(e, {
            pointer: pointer,
            $ref: ref,
            baseDoc: baseDoc,
            fullPath: fullPath
          });
        });
      }
    }
    if (promOrVal instanceof Error) {
      return [lib.remove(fullPath), promOrVal];
    }
    var absolutifiedRef = absolutifyPointer(ref, basePath);
    var patch = lib.replace(parent, promOrVal, {
      $$ref: absolutifiedRef
    });
    if (basePath && basePath !== baseDoc) {
      return [patch, lib.context(parent, {
        baseDoc: basePath
      })];
    }
    try {
      // prevents circular values from being constructed, unless we
      // specifically want that to happen if ($patchValueAlreadyInPath(specmap.state, path) ||
      specmapInstance.useCircularStructures) {
        return null;
      } catch (e) {
        // if we're catching here, path traversal failed, so we should
        // ditch without sending any patches back up.
        // this is a narrow fix for the larger problem of patches being queued
        // and then having the state they were generated against be modified
        // before they are applied. \n        // TODO: re-engineer specmap patch/state management to
        // avoid this \n        return undefined;
      }
    } catch (e) {
      // if we're catching here, path traversal failed, so we should
      // ditch without sending any patches back up.
      // this is a narrow fix for the larger problem of patches being queued
      // and then having the state they were generated against be modified
      // before they are applied. \n      // TODO: re-engineer specmap patch/state management to
      // avoid this \n      return undefined;
    }
    return undefined;
  }
};

var mod = _Object$assign(plugin, {
  docCache: docCache,
  absoluteify: absoluteify,
  clearCache: clearCache,
  JSONRefError: JSONRefError,
  wrapError: wrapError,
  getDoc: getDoc,
  split: split,
  extractFromDoc: extractFromDoc,
  fetchJSON: fetchJSON,
  extract: extract,
  jsonPointerToArray: jsonPointerToArray,
  unescapeJsonPointerToken: unescapeJsonPointerToken
});

export default mod;
disable-line prefer-template

Extracts a pointer from its document.

`docPath` the absolute document URL.

`@param` {String} docPath the pointer whose value is to be extracted.

`@return` {Promise} a promise of the pointer value.

`api public

unfunction extractFromDoc(docPath, pointer) {

  var doc = docCache[docPath];
  if (doc && lib.isPromise(doc)) {
    If doc is already available, return
  }

  return _Object$assign(_Promise.resolve(v), {__value: v });
}

/**
 * Extracts a pointer from its document.
 * @param {String} docPath
 * @param {String} pointer
 * @return {Promise}
 * @api public
 */

function extractFromDoc(docPath, pointer) {
  var doc = docCache[docPath];

  if (doc && !lib.isPromise(doc)) {
    // If doc is already available, return

    try {
      var v = extract(pointer, doc);
      return _Object$assign(_Promise.resolve(v), {__value: v });
    } catch (e) {
      return _Promise.reject(e);
    }
  }

  return getDoc(docPath).then(function (_doc) {
    return extract(pointer, _doc);
  });
}

/**
 * Clears
 * all document caches.
 * @param {String} item (optional) the name of the cache item to be cleared.
 * @api public
 */

function clearCache(item) {
  if (typeof item !== 'undefined') {
    delete docCache[item];
  } else {
    _Object$keys(docCache).forEach(function (key) {
      delete docCache[key];
    });
  }
}

/**
 * Fetches and caches a document.
 * @param {String} docPath the absolute URL of the document.
 * @return {Promise}
 * @api public
 */

function getDoc(docPath) {
  var val = docCache[docPath];

  if (val) {
    return lib.isPromise(val) ? val : _Promise.resolve(val);
  } // NOTE: we need to use 'mod.fetchJSON' in order to be able to overwrite it.

  docCache[docPath] = mod.fetchJSON(docPath).then(function (doc) {
    docCache[docPath] = doc;
    return doc;
  });
  return docCache[docPath];
}

/**
 * Fetches a document.
 * @param {String} docPath the
 * absolute URL of the document.
 * @return {Promise}
 * @api public
 */

function fetchJSON(docPath) {
  return fetch(docPath, {
    headers: {
      Accept: ACCEPT_HEADER_VALUE_FOR_DOCUMENTS
    },
    loadSpec: true
  }).then(function (res) {
    return res.text();
  }).then(function (text) {
    return jsYaml.safeLoad(text);
  });
}

/**
 * Extracts a pointer from an
 * object.
 * @param {String[]} pointer the JSON pointer.
 * @param {Object} obj an object whose value is to
 * be extracted.
 * @return {Object} the value to be extracted.
 * @api public
 */

function extract(pointer, obj) {
  var tokens = jsonPointerToArray(pointer);

  if (tokens.length < 1) {
    return obj;
  }

  var val = lib.getIn(obj, tokens);

  if (typeof val === 'undefined') {
    throw new JSONRefError("Could not resolve pointer: ".concat(pointer, " does not exist in document"), {
      pointer: pointer
    });
  }

  return val;
}

/**
 * Converts a JSON pointer to array.
 * @api public
 */

function jsonPointerToArray(pointer) {
  if (typeof pointer !== 'string') {
    throw new TypeError("Expected a string, got " + _typeof(pointer));
  }

  if (pointer[0] === '/') {
    pointer = pointer.substr(1);
  }

  if (pointer === '') {
    return [];
  }

  return pointer.split('/').map(unescapeJsonPointerToken);
}

/**
 * Unescapes a JSON
 * pointer.
 * @api public
 */

function unescapeJsonPointerToken(token) {
  if (typeof token !== 'string') {
    return token;
  }

  return qs.unescape(token.replace(/~1/g, '/').replace(/~0/g, '~'));
}

/**
 * Escapes a JSON
 * pointer.
 * @api public
 */

function escapeJsonPointerToken(token) {
  return qs.escape(token.replace(/~/g, '~0').replace(/\//g, '~1'));
}

function arrayToJsonPointer(arr) {
  if (arr.length === 0) {
    return '';
  }

  return "/".concat(arr.map(escapeJsonPointerToken).join('/'));
}

var pointerBoundaryChar = function pointerBoundaryChar(c) {
  return !c || c === '/' || c === '#';
};

function pointerIsAParent(pointer, parent) {
  if (pointerBoundaryChar(parent)) {
    // This is the root of the document, so naturally
    return true;
  }

  var lastParentChar = parent.slice(-1);

  return pointer.indexOf(parent) === 0 && (!nextChar || nextChar
    === '/' || nextChar === '##' || nextChar === '##')
    && lastParentChar !== '#';
} // =========================
// Private
// ==========================

/**
 * Checks if this pointer points back to one or more pointers along the
 * path.
 * @return {Object}
 * @api public
 */

function pointerBoundaryChar(c) {
  return !c || c === '/' || c === '#';
}

function pointerIsAParent(pointer, parent) {
  if (pointerBoundaryChar(parent)) {
    return true;
  }

  var lastParentChar = parent.slice(-1)

  return pointer.indexOf(parent) === 0 && (!nextChar || nextChar
    === '/' || nextChar === '##' || nextChar === '##')
    && lastParentChar !== '#';
}

function pointerIsAParent(pointer, parent) {
  if (pointerBoundaryChar(parent)) {
    return true;
  }

  var lastParentChar = parent.slice(-1)

  return pointer.indexOf(parent) === 0 && (!nextChar || nextChar
    === '/' || nextChar === '##' || nextChar === '##')
    && lastParentChar !== '#';
}

function pointerIsAParent(pointer, parent) {
  if (pointerBoundaryChar(parent)) {
    return true;
  }

  var lastParentChar = parent.slice(-1)

  return pointer.indexOf(parent) === 0 && (!nextChar || nextChar
    === '/' || nextChar === '##' || nextChar === '##')
    && lastParentChar !== '#';
}

function pointerIsAParent(pointer, parent) {
  if (pointerBoundaryChar(parent)) {
    return true;
  }

  var lastParentChar = parent.slice(-1)

  return pointer.indexOf(parent) === 0 && (!nextChar || nextChar
    === '/' || nextChar === '##' || nextChar === '##')
    && lastParentChar !== '#';
}

function pointerIsAParent(pointer, parent) {
  if (pointerBoundaryChar(parent)) {
    return true;
  }

  var lastParentChar = parent.slice(-1)

  return pointer.indexOf(parent) === 0 && (!nextChar || nextChar
    === '/' || nextChar === '##' || nextChar === '##')
    && lastParentChar !== '#';
}

function pointerIsAParent(pointer, parent) {
  if (pointerBoundaryChar(parent)) {
    return true;
  }

  var lastParentChar = parent.slice(-1)

  return pointer.indexOf(parent) === 0 && (!nextChar || nextChar
    === '/' || nextChar === '##' || nextChar === '##')
    && lastParentChar !== '#';
}

function pointerIsAParent(pointer, parent) {
  if (pointerBoundaryChar(parent)) {
    return true;
  }

  var lastParentChar = parent.slice(-1)

  return pointer.indexOf(parent) === 0 && (!nextChar || nextChar
    === '/' || nextChar === '##' || nextChar === '##')
    && lastParentChar !== '#';
}

function pointerIsAParent(pointer, parent) {
  if (pointerBoundaryChar(parent)) {
    return true;
  }

  var lastParentChar = parent.slice(-1)

  return pointer.indexOf(parent) === 0 && (!nextChar || nextChar
    === '/' || nextChar === '##' || nextChar === '##')
    && lastParentChar !== '#';
}

function pointerIsAParent(pointer, parent) {
  if (pointerBoundaryChar(parent)) {
    return true;
  }

  var lastParentChar = parent.slice(-1)

  return pointer.indexOf(parent) === 0 && (!nextChar || nextChar
    === '/' || nextChar === '##' || nextChar === '##')
    && lastParentChar !== '#';
}

function pointerIsAParent(pointer, parent) {
  if (pointerBoundaryChar(parent)) {
    return true;
  }

  var lastParentChar = parent.slice(-1)

  return pointer.indexOf(parent) === 0 && (!nextChar || nextChar
    === '/' || nextChar === '##' || nextChar === '##')
    && lastParentChar !== '#';
}

function pointerIsAParent(pointer, parent) {
  if (pointerBoundaryChar(parent)) {
    return true;
  }

  var lastParentChar = parent.slice(-1)

  return pointer.indexOf(parent) === 0 && (!nextChar || nextChar
    === '/' || nextChar === '##' || nextChar === '##')
    && lastParentChar !== '#';
}
false negatives because:\n // - we resolve a path, then\n // - allOf plugin collapsed `allOf\[index\]` out of the path, then\n // - we try to work on a child $ref within that collapsed path.\n //\n // because of the path collapse, we lose track of it in our specmapRefs hash\n // solution: always throw the allOf constructs out of paths we store\n // TODO: solve this with a global register, or by writing more metadata in\n // either allOf or refs plugin\n\n var safeParentPointer = parentPointer.replace(/allOf\[(\d+)\]/g, ""); // Case 1: direct cycle, e.g. a.b.c.$ref: `/a/b\n // Detect by checking that the parent path does not start with pointeur.\n // This only happens if the pointer is internal, i.e. basePath === rootPath (could be null)\n var rootDoc = specmap.contextTree.get([]).baseDoc;\n if (basePath === rootDoc && pointerIsAParent(safeParentPointer, pointer)) {\n \n  // eslint-disable-line\n \n  return true; } // Case 2: indirect cycle\n // ex1: a.$ref: `/b' & b.c.$ref: `/b/c/\n // ex2: a.$ref: `/b/c' & b.c.$ref: `/b/\n // Detect by retrieving all the %sref along the path of parent\n // and checking if any starts with pointer or vice versa.\n\n var curPath = "\n var hasIndirectCycle = parent.some(function (token) {\n \n  return refers[curPath] &\n  & (parentPointer.replace(/\d+/g, "") || parentPointer.replace(/allOf\[(\d+)\]/g, ")")\n  );\n\n if (hasIndirectCycle) {\n \n  return true; } // No cycle, this ref will be resolved, so stores it now for future\n \n \n // No need to store if has cycle, as parent path is a dead-end and won't be checked again.\n\n var refs[safeParentPointer] = (refs[safeParentPointer] || []).concat(fullyQualifiedPointer);\n\n return undefined; }\n\n /* Checks if the value of this patch ends up pointing to an ancestor along the path:\n *\n \n function patchValueAlreadyInPath(root, patch) {\n \n  var ancestors = [root];\n \n  patch.path.reduce(function (parent, p) {\n \n    var alreadyAddError = false; // Find the original definition from the\n    parentPointer.replace(/\d+/g, "") || parentPointer.replace(/allOf\[(\d+)\]/g, ")")\n  );\n\n  return patchValueAlreadyInPath(root, patch);\n\n  "\n  var returnExpr = function (obj) {\n \n    return new \n  if (isFreelyNamed(parent)) {\n \n    return true; } // No cycle, this ref will be resolved, so stores it now for future\n \n \n // No need to store if has cycle, as parent path is a dead-end and won't be checked again.\n\n var refs[safeParentPointer] = (refs[safeParentPointer] || []).concat(fullyQualifiedPointer);\n\n return undefined; }\n\n */

 function

```javascript

  _iterator2.f();
  )
} else { var newPatches = plugin(mutations, that.getLib());

updatePatches(newPatches);
)
})
] catch (e) { console.error(e); // eslint-disable-line no-console

updatePatches([_Object$assign(_Object$create(e), [{ plugin: plugin }]);

finally { that.updatePluginHistory(plugin, [{ mutationIndex: lastMutationIndex }]);

return that.dispatch();
}

function updatePatches(patches) { if (patches = lib.fullyNormalizeArray(patches));

that.updatePatches(patches, plugin); ))

})

return SpecMap;
}

export default function makeFetchJSON(http)
{


var requestInterceptor = opts.requestInterceptor,

responseInterceptor = opts.responseInterceptor; // Set credentials with

'http.withCredentials' value

var credentials = http.withCredentials ? 'include' : 'same-origin';

return function (docPath) { return http({

url: docPath,

loadSpec: true,

requestInterceptor: requestInterceptor,

responseInterceptor: responseInterceptor,

headers: { 'Accept': ACCEPT_HEADER_VALUE_FOR_DOCUMENTS },

credentials: credentials
})
.then(function (res) {

var fetch = obj.fetch,

spec = obj.spec,

url = obj.url,

mode = obj.mode,

_allowMetaPatches = obj._allowMetaPatches,

allowMetaPatches = _allowMetaPatches === void 0 ? true : _allowMetaPatches,

pathDiscriminator = obj.pathDiscriminator,

modelPropertyMacro = obj.modelPropertyMacro,

parameterMacro = obj.parameterMacro,

requestInterceptor = obj.requestInterceptor,

responseInterceptor = obj.responseInterceptor,

skipNormalization = obj.skipNormalization,

useCircularStructures = obj.useCircularStructures,

var http = obj.http,

baseDoc = obj.baseDoc; // @TODO Swagger-UI uses

baseDoc instead of url, this is to allow both

// need to fix and pick one

baseDoc = baseDoc || Http;

if (!spec) {

return makeFetchJSON(http, {

requestInterceptor: requestInterceptor,

responseInterceptor: responseInterceptor
})
.then(doResolve);

})

function doResolve(_spec) {

if (baseDoc) {

plugins.refs.docCache[baseDoc] = _spec;

} // Build a json-fetcher ( ie: give it a URL and get json out )

plugins.refs.fetchJSON = makeFetchJSON(http, {

requestInterceptor: requestInterceptor,

responseInterceptor: responseInterceptor
});

var plugs = [plugins.refs];

if (typeof parameterMacro === 'function') {

plugs.push(plugins.parameters);

}

if (typeof modelPropertyMacro === 'function') {

plugs.push(plugins.propertyMacro);

}

if (mode !== 'strict') {

} // mapSpec is where the hard work happens, see https://github.com/swagger-api/specmap for more details

return mapSpec({

spec: _spec,

context: {

baseDoc: baseDoc
}
}, { plugins: plugs, allowMetaPatches: allowMetaPatches

})

});
```

---

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(parameter.content) {\n  var effectiveMediaType = _Object$keys(parameter.content)[0];\n  req.headers.Cookie = `\".\".concat(parameter.name, `\"=\")\".concat(serializedValue(effectiveMediaType));\n  return;\n} if (type !== 'undefined') {\n  var prefix = type === 'object' && !Array.isArray(value) && parameter.explode ? "\".\".concat(parameter.name, `\"=\")\".concat(serializedValue(value, effectiveMediaType));\n  req.headers.Cookie = prefix + stylize({\n    key: parameter.name,\n    value: value,\n    escape: false,\n    style: parameter.style || 'form',\n    explode: typeof parameter.explode === 'undefined' ? false : parameter.explode\n  });\n} else {\n  import Array.isArray from '@babel/runtime-corejs2/core-js/array/is-array';\n  import typeof from '@babel/runtime-corejs2/helpers/typeof';\n  import Object.keys from '@babel/runtime-corejs2/core-js/object/keys';\n  // This function runs after the common function, `\n  `\"src\execute/index.js\"\buildRequest`\n  import assign from 'lodash/assign';\n  import get from 'lodash/get';\n  import btoa from 'btoa';\n  //export default function buildRequest(options, req) {\n  var operation = options.operation,\n      requestBody = options.requestBody,\n      securities = options.securities,\n      spec = options.spec,\n      attachContentTypeForEmptyPayload = options.attachContentTypeForEmptyPayload;\n  var requestContentType = options.requestContentType;\n  req = applySecurities({\n    request: req,\n    securities: securities,\n    operation: operation,\n    spec: spec\n  });\n  var requestBodyDef = operation.requestBody || {};\n  var requestBodyMediaTypes = _Object$keys(requestBodyDef.content || {});\n  var isExplicitContentTypeValid = requestContentType && requestBodyMediaTypes.indexOf(requestContentType) > -1; // for OAS3: set the Content-Type\n  if (requestBody || attachContentTypeForEmptyPayload) {\n    // does the passed requestContentType appear in the requestBody definition?\n    if (requestContentType && isExplicitContentTypeValid) {\n      req.headers['Content-Type'] = requestContentType;\n    } else if (!requestContentType) {\n      var firstMediaType = requestBodyMediaTypes[0];\n      if (firstMediaType) {\n        req.headers['Content-Type'] = firstMediaType;\n      }\n    }\n  } else if (requestContentType && isExplicitContentTypeValid) {\n    req.headers['Content-Type'] = requestContentType;\n  } // for OAS3: add requestBody to request\n  if (requestBody) {\n    if (requestContentType) {\n      if (requestBodyMediaTypes.indexOf(requestContentType) > -1) {\n        // only attach body if the requestBody has a definition for the\n        // Content-Type that has been explicitly set\n        if (requestContentType === 'application/x-www-form-urlencoded') {\n          req.headers['Content-Type'] = 'multipart/form-data';\n        } if (typeof(requestBody) === 'object') {\n          var encoding = (requestBodyDef.content[requestContentType] || {}).encoding || {};
          req.form = {};
          _Object$keys(requestBody).forEach(function (k) {\n            req.form[k] = {\n              value: requestBody[k],\n              encoding: encoding[k] || {}\n            };\n          });\n        } else {\n          req.body = requestBody;\n        }\n      }\n    } else {\n      req.body = requestBody;\n    }\n  }\n  return req;\n} // Add security values, to operations - that declare their need on them\n// Adapted from the Swagger2 implementation\n\nexport function applySecurities(_ref) {\n  var request = _ref.request,\n      _refSecurities = _ref.securities,\n      securities = _refSecurities || void 0 ? [] : _refSecurities,\n      _refOperation = _ref.operation,\n      operation = _refOperation || void 0 ? {} : _refOperation,\n      spec = _ref.spec;\n  var result = assign({}, request);\n  var securitiesAuthorize = securities.authorized;\n  var securityDef = get(spec, ['components', 'securitySchemes']) || {};\n  result.headers = result.headers || {};\n  result.query = result.query || {};\n  if (!Object.keys(securities).length || !_isAuthorized || !_Object.keys(securities).length || !_isAuthorized || !_Object.keys(securities).length || !_isAuthorized) {\n    return request;\n  }\n  security.forEach(function (securityObj) {\n    _Object$keys(securityObj).forEach(function (key) {\n      var auth = authorized[securityObj][key] || null;\n      if (auth) {\n        return;\n      }\n      var value = auth.value || auth;\n      var type = securityDef[key] || null;\n      var securityDef = get(spec, ['components', 'securitySchemes'][key]) || {};\n      result.headers[key] = value || null;\n      if (schema.in === 'header') {\n        result.headers[key.name] = value || null;\n        if (schema.in === 'cookie') {\n          result.cookies[key.name] = value || null;\n        }\n      }\n    });\n  });\n  return result;\n}"n
var username = value;\n  var password = value;\n  var encoded = btoa(`\".\".concat(username, `\"=\")\".concat(password));\n"n
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result.headers.Authorization = "Basic ".concat(encoded);

var token = auth.token || {};

if (type === 'oauth2' && oauthToken) {
  if (oauthToken && oauthToken[tokenName]) {
    var tokenValue = oauthToken[tokenName];
    var tokenType = oauthToken_type;
    if (typeof tokenType !== 'undefined') {
      tokenType = tokenType.toLowerCase();
    }
    result.headers.Authorization = "Bearer ".concat(tokenValue);
  }
}

return result;

// Add security values, to operations - that declare their need on them

export function applySecurities(_ref) {
  var request = _ref.request,
      _ref$securities = _ref.securities,
      securities = _ref$securities === void 0 ? {} : _ref$securities,
      _ref$operation = _ref.operation,
      operation = _ref$operation === void 0 ? {} : _ref$operation,
      spec = _ref.spec;
  var result = assign({}, request);
  var _securities$authorize = securities.authorized,
      authorized = _securities$authorize === void 0 ? {} : _securities$authorize,
      _securities$specSecur = securities.specSecurity,
      specSecurity = _securities$specSecur === void 0 ? [] : _securities$specSecur;
  var security = operation.security || specSecurity;

  if (!_Object$keys(securities).length || !isAuthorized || !security || _Array$isArray(operation.security) && !operation.security.length) {
    return request;
  }

  security.forEach(function (securityObj) {
    _Object$keys(securityObj).forEach(function (key) {
      var auth = authorized[key];

      if (!auth) {
        return;
      }

      var token = auth.token;
      var value = auth.value || auth;
      var schema = securityDef[key];

      if (type === 'apiKey') {
        if (token) {
          result.headers["x-authorization"] = token;
          result.headers["x-tokenName"] = schema["x-tokenName"];
        }
      } else if (type === 'basic') {
        if (value) {
          result.headers["Authorization"] = "Basic " + value;
        } else if (type === 'oauth2') {
          if (typeof tokenValue !== 'undefined') {
            result.headers["Authorization"] = "Bearer " + tokenValue;
          }
        }
      }
    });
  });

  return result;
}
import _slicedToArray from '@babel/runtime-corejs2/helpers/slicedToArray';
import _JSON$stringify from '@babel/runtime-corejs2/core-js/json/stringify';
import _objectSpread from '@babel/runtime-corejs2/helpers/objectSpread2';
import _objectWithoutProperties from '@babel/runtime-corejs2/helpers/objectWithoutProperties';
import _Object$keys from '@babel/runtime-corejs2/core-js/object/keys';
import _Object$assign from '@babel/runtime-corejs2/core-js/object/assign';
import _Array$isArray from '@babel/runtime-corejs2/core-js/array/is-array';
import getIn from 'lodash/get';
import isPlainObject from 'lodash/isPlainObject';
import isArray from 'lodash/isArray';
import url from 'url';
import cookie from 'cookie';
import stockHttp, { mergeInQueryOrForm } from '../http';
import createError from '../specmap/lib/create-error';
import SWAGGER2_PARAMETER_BUILDERS from './swagger2/parameter-builders';
import * as OAS3_PARAMETER_BUILDERS from './oas3/parameter-builders';

export var self = {
  buildRequest: buildRequest
}; // Execute request, with the given operationId and parameters (pathName/method or operationId is optional)

export function execute(_ref) {
  var userHttp = _ref.http,
      fetch = _ref.fetch,
      spec = _ref.spec,
      operationId = _ref.operationId,
      pathName = _ref.pathName,
      method = _ref.method,
      parameters = _ref.parameters,
      securities = _ref.securities,
      extras = _objectWithoutProperties(_ref, [
        "http", "fetch", "spec", "operationId", "pathName", "method", "parameters", "securities"
      ]); // Set credentials with 'http.withCredentials' value
  var credentials = userHttp && userHttp.withCredentials ? 'include' : 'same-origin'; // Base Template
  var req = {
    url: '',
    credentials: credentials,
    headers: {},
    cookies: {}
  };
  if (userHttp) {
    req.userFetch = userHttp;
  }
  var operationRaw = getOperationRaw(spec,


operationId);\n\n  if (operationRaw) {\n    throw new OperationNotFoundError("Operation \".concat(operationId, \" not found\")\n  }\n  \n  var _operationRaw$operation = operationRaw.$operation,\n  method = operationRaw.method,\n  pathName = operationRaw.pathName,\n  req.url += baseUrl({\n    spec: spec,\n    scheme: scheme,\n    contextUrl: contextUrl,\n    server: server,\n    serverVariables: serverVariables,\n    pathName: pathName,\n    method: method\n  });\n  // Mostly for testing\n  if (!operationId) {\n    // Not removing req.cookies causes testing issues and would\n    // change our interface, so we're always sure to remove it.\n    // See the same statement lower down in\n    // this function for\n    // more context.\n    delete req.cookies;\n    return req;\n  }\n  \n  req.url += pathName; \n  req.method = "".concat(method).toUpperCase();\n  parameters = parameters || {};\n  var pathName = spec.paths[pathName] || {};\n  \n  if (responseContentType) {\n    req.headers.accept = responseContentType;\n  }\n  \n  var combinedParameters = deduplicateParameters(\n    [concat(arrayOrEmpty(operation.parameters))];\n  ) \n  \n  var _objectSpread(_objectSpread({}, options), {}, {\n    operation: operation\n  });\n  \n  return req;\n}\n
var stripNonAlpha = function stripNonAlpha(str) {\n  return str ? str.replace(/\W/g, '') : null;\n};\n
export function baseUrl(obj) {\n  var specIsOAS3 = isOAS3(obj.spec);\n  return specIsOAS3 \n    ? oas3BaseUrl(obj) \n    : swagger2BaseUrl(obj);\n}

function oas3BaseUrl(_ref2) {\n  var spec = _ref2.spec,\n  pathName = _ref2.pathName,\n  method = _ref2.method,\n  server = _ref2.server,\n  contextUrl = _ref2.contextUrl,\n  ref2$serverVariables = _ref2.serverVariables,\n  serverVariables = _ref2$serverVariables;\n  \n  var parameters = \n    parameters || \n    if (responseContentType) {\n      req.headers.accept = responseContentType;\n    }\n  \n  var combinedParameters = deduplicateParameters(\n    [concat(arrayOrEmpty(operation.parameters))]);\n  \n  var _objectSpread(_objectSpread({}, options), {}, {\n    operation: operation\n  });\n  \n  return req;\n}\n
var stripNonAlpha = function stripNonAlpha(str) {\n  return str ? str.replace(/\W/g, '') : null;\n};\n
export function baseUrl(obj) {\n  var specIsOAS3 = isOAS3(obj.spec);\n  return specIsOAS3 \n    ? oas3BaseUrl(obj) \n    : swagger2BaseUrl(obj);\n}

function oas3BaseUrl(_ref2) {\n  var spec = _ref2.spec,\n  pathName = _ref2.pathName,\n  method = _ref2.method,\n  server = _ref2.server,\n  contextUrl = _ref2.contextUrl,\n  ref2$serverVariables = _ref2.serverVariables,\n  serverVariables = _ref2$serverVariables;\n  \n  var parameters = \n    parameters || \n    if (responseContentType) {\n      req.headers.accept = responseContentType;\n    }\n  \n  var combinedParameters = deduplicateParameters(\n    [concat(arrayOrEmpty(operation.parameters))]);\n  \n  var _objectSpread(_objectSpread({}, options), {}, {\n    operation: operation\n  });\n  \n  return req;\n}
var selectedServerObj = null;

if (server && servers && servers.length) {
  var serverUrls = servers.map(function (srv) {
    return srv.url;
  });

  var selectedServerObj = servers[srvUrls.indexOf(server)];

  if (!selectedServerObj) {
    // default to the first server if we don't have one by now
    selectedServerObj = servers[0];
  }

  var selectedServerUrl = selectedServerObj.url;

  var selectedServerObj = selectedServerObj.servers[0];

  var varNames = getVariableTemplateNames(selectedServerObj); varNames.forEach(function (vari) {
    if (selectedServerObj.variables && selectedServerObj.variables[vari]) {
      // variable is defined in server
      var variableDefinition = selectedServerObj.variables[vari];
      var variableValue = serverVariables[vari] || variableDefinition.default;
      var re = new RegExp("{".concat(vari, "}"), 'g');
      selectedServerUrl = selectedServerUrl.replace(re, variableValue);
    }
  });

  return buildOas3UrlWithContext(selectedServerUrl, contextUrl);
}

function buildOas3UrlWithContext(ourUrl, contextUrl) {
  var parsedUrl = url.parse(ourUrl);
  var parsedContextUrl = url.parse(contextUrl);
  var computedScheme = stripNonAlpha(parsedUrl.protocol) || stripNonAlpha(parsedContextUrl.protocol) || parsedUrl.scheme || parsedContextUrl.scheme;
  var computedHost = parsedUrl.host || parsedContextUrl.host;
  var computedPath = parsedUrl.pathname || parsedContextUrl.pathname;
  var res;

  if (computedScheme && computedHost) {
    res = "".concat(computedScheme, "://").concat(computedHost + computedPath);
  } else {
    res = computedPath;
  }

  return res[res.length - 1] === '/' ? res.slice(0, -1) : res;
}

function getVariableTemplateNames(str) {
  var results = [];
  var re = /{([^}\]+)}/g;
  var text; // eslint-disable-next-line

  while (text = re.exec(str)) {
    results.push(text[1]);
  }

  return results;
} // Compose the baseUrl ( scheme + host + basePath )

function swagger2BaseUrl(_ref3) {
  var spec = _ref3.spec,
      scheme = _ref3.scheme,
      _ref3$contextUrl = _ref3.contextUrl,
      contextUrl = _ref3$contextUrl === void 0 ? '' : _ref3$contextUrl;
  var parsedContextUrl = url.parse(contextUrl);
  var firstSchemeInSpec = _Array$isArray(spec.schemes) ? spec.schemes[0] : null;
  var computedScheme = scheme || firstSchemeInSpec || stripNonAlpha(parsedContextUrl.protocol) || http; // we have what we need for an absolute URL
  var varNames = getVariableTemplateNames(spec); varNames.forEach(function (vari) {
    if (spec.variables && spec.variables[vari]) {
      // variable is defined in spec
      var variableDefinition = spec.variables[vari];
      var variableValue = specVariables[vari] || variableDefinition.default;
      var re = new RegExp("{".concat(vari, "}"), 'g');
      spec = spec.replace(re, variableValue);
    }
  });

  return spec3BaseUrl(_ref3); // resolve spec
} // The subtree resolver is a higher-level interface that allows you to
// get the same result that you would from `Swagger.resolve`, but focuses on
// a subtree of your object. You'll get the resolved subtree you're interest in as a return
// value
// It's likely that Swagger-Client will rely entirely on lazy resolving in
// future versions.
// TODO: move the remarks above into project documentation
// this is useful for cases where resolving your entire object is unnecessary
// and/or non-performant; we use this interface for lazily resolving operations
// and models in Swagger-UI, which allows us to handle larger definitions.
// It's likely that Swagger-Client will rely entirely on lazy resolving in
// future versions.
// By providing a top-level `obj` and a `path` to resolve within, the subtree will at `path` be resolved and normalized in the context of your top-level `obj`.
// You'll get the resolved subtree you're interest in as a return value
// (or, you can use `returnEntireTree` to get everything back)
// This is useful for cases where resolving your entire object is unnecessary
// and/or non-performant; we use this interface for lazily resolving operations
// and models in Swagger-UI, which allows us to handle larger definitions.
// It's likely that Swagger-Client will rely entirely on lazy resolving in
// future versions.
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// this is useful for cases where resolving your entire object is unnecessary
// and/or non-performant; we use this interface for lazily resolving operations
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// and models in Swagger-UI, which allows us to handle larger definitions.
// It's likely that Swagger-Client will rely entirely on lazy resolving in
// future versions.
// TODO: move the remarks above into project documentation
// this is useful for cases where resolving your entire object is unnecessary
// and/or non-performant; we use this interface for lazily resolving operations
// and models in Swagger-UI, which allows us to handle larger definitions.
baseDoc, requestInterceptor, responseInterceptor, parameterMacro, 
modelPropertyMacro, useCircularStructures, resolveOptions, 
_normalizeSwagger, normalized, result, _args = arguments, 
return_regeneratorRuntime.wrap(function _callee$(_context) {
  while (1) {
    switch (_context.prev = _context.next) {
      case 0:
        returnEntireTree = opts.returnEntireTree, baseDoc = opts.baseDoc, requestInterceptor = opts.requestInterceptor, 
responseInterceptor = opts.responseInterceptor, parameterMacro = opts.parameterMacro, modelPropertyMacro = 
opts.modelPropertyMacro, useCircularStructures = opts.useCircularStructures; resolveOptions = [
  pathDiscriminator: path, baseDoc: baseDoc, requestInterceptor: requestInterceptor, 
responseInterceptor: responseInterceptor, parameterMacro: parameterMacro, 
modelPropertyMacro: modelPropertyMacro, useCircularStructures: useCircularStructures];

_normalizeSwagger = normalizeSwagger({
  spec: obj
}); normalized = _normalizeSwagger.spec;

 returnEntireTree = opts.returnEntireTree, baseDoc = opts.baseDoc, requestInterceptor = opts.requestInterceptor, 
responseInterceptor = opts.responseInterceptor, parameterMacro = opts.parameterMacro, 
modelPropertyMacro = opts.modelPropertyMacro, useCircularStructures = opts.useCircularStructures; resolveOptions = [
  pathDiscriminator: path, baseDoc: baseDoc, requestInterceptor: requestInterceptor, 
responseInterceptor: responseInterceptor, parameterMacro: parameterMacro, 
modelPropertyMacro: modelPropertyMacro, useCircularStructures: useCircularStructures];

_normalizeSwagger = normalizeSwagger({
  spec: obj
}); normalized = _normalizeSwagger.spec; _context.prev = 0; 
_context.next = 2; 
result = _context.sent;

 returnEntireTree = opts.returnEntireTree, baseDoc = opts.baseDoc, requestInterceptor = opts.requestInterceptor, 
responseInterceptor = opts.responseInterceptor, parameterMacro = opts.parameterMacro, 
modelPropertyMacro = opts.modelPropertyMacro, useCircularStructures = opts.useCircularStructures; resolveOptions = [
  pathDiscriminator: path, baseDoc: baseDoc, requestInterceptor: requestInterceptor, 
responseInterceptor: responseInterceptor, parameterMacro: parameterMacro, 
modelPropertyMacro: modelPropertyMacro, useCircularStructures: useCircularStructures];

_normalizeSwagger = normalizeSwagger({
  spec: obj
}); normalized = _normalizeSwagger.spec; 
require('./_an-object');
var isObject = require('./_is-object');
var newPromiseCapability = require('./_new-promise-capability');

module.exports = function (C, x) {
  anObject(C);
  if (isObject(x) && x.constructor === C) return x;
  var promiseCapability = newPromiseCapability.f(C);
  var resolve = promiseCapability.resolve;
  var reject = promiseCapability.reject; // 7.2.8 IsRegExp(argument)

  var isObject = require('./_is-object');
  var key;

  var O = toObject(x);
  var i = 0;
  while (names.length > i) if (has(O, key = names[i++])) {
    ~arrayIndexOf(result, key) || result.push(key);
  }

  return result;
};

var getKeys = require('./_object-keys');

module.exports = require('./_descriptors') ? Object.defineProperties : function defineProperties(O, Properties) {
  anObject(O);
  var keys = getKeys(Properties);
  var length = keys.length;
  var i = 0;
  while (length > i) dP(O, P = keys[i++], Properties[P]);
  return O;
};
defineProperties(it, P) {
  var keys = enumKeys(P = toObject(P));
  var i = 0;
  var l = keys.length;
  var key;
  while (l > i) $defineProperty(it, key = keys[i++], P[key]);
  return it;
}

var defineProperties = function defineProperties(create, P) {
  return P === undefined ? _create(it) : $defineProperties(create(it), P);
}

$create = function create(it, P) {
  return P === undefined ? _create(it) : $defineProperties(_create(it), P);
}

$defineProperties = function getOwnPropertyDescriptor(it, key) {
  var key = toPrimitive(key, true);
  if (this === ObjectProto & & has(AllSymbols, key) & & !has(OSymbols, key)) return false;
  var name = names[i++];
  if (this === ObjectProto & & has(AllSymbols, key) & & !has(OSymbols, key)) return;
  var D = gOPD(it, key);
  if (D & & has(AllSymbols, key) & & !has(it, HIDDEN) & & !it[HIDDEN][key])
    D.enumerable = true;
  return D;
}

$defineProperties = function getOwnPropertyNames(it) {
  var names = gOPN(toObject(it));
  var result = [];
  var i = 0;
  var key;
  while (names.length > i) {
    if (!has(AllSymbols, key = names[i++]) & & !key.HIDDEN & & key.META)
      result.push(key);
  }
  return result;
}

var defineGetOwnPropertySymbols = function getOwnPropertySymbols(it) {
  return IS_OP ? gOPN(it) : gOPN(toIObject(it));
}

defineProperties(it, P) {
  var keys = enumKeys(P = toObject(P));
  var i = 0;
  var l = keys.length;
  var key;
  while (l > i) $defineProperty(it, key = keys[i++], P[key]);
  return it;
}

var defineProperties = function defineProperties(create, P) {
  return P === undefined ? _create(it) : $defineProperties(create(it), P);
}

$create = function create(it, P) {
  return P === undefined ? _create(it) : $defineProperties(_create(it), P);
}

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  var key = toPrimitive(key, true);
  if (this === ObjectProto & & has(AllSymbols, key) & & !has(OSymbols, key)) return;
  var name = names[i++];
  if (this === ObjectProto & & has(AllSymbols, key) & & !has(OSymbols, key)) return;
  var D = gOPD(it, key);
  if (D & & has(AllSymbols, key) & & !has(it, HIDDEN) & & !it[HIDDEN][key])
    D.enumerable = true;
  return D;
}

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  var names = gOPN(toObject(it));
  var result = [];
  var i = 0;
  var key;
  while (names.length > i) {
    if (!has(AllSymbols, key = names[i++]) & & !key.HIDDEN & & key.META)
      result.push(key);
  }
  return result;
}

var defineGetOwnPropertySymbols = function getOwnPropertySymbols(it) {
  return IS_OP ? gOPN(it) : gOPN(toIObject(it));
}

defineProperties(it, P) {
  var keys = enumKeys(P = toObject(P));
  var i = 0;
  var l = keys.length;
  var key;
  while (l > i) $defineProperty(it, key = keys[i++], P[key]);
  return it;
}

var defineProperties = function defineProperties(create, P) {
  return P === undefined ? _create(it) : $defineProperties(create(it), P);
}

$create = function create(it, P) {
  return P === undefined ? _create(it) : $defineProperties(_create(it), P);
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  var key = toPrimitive(key, true);
  if (this === ObjectProto & & has(AllSymbols, key) & & !has(OSymbols, key)) return false;
  var name = names[i++];
  if (this === ObjectProto & & has(AllSymbols, key) & & !has(OSymbols, key)) return;
  var D = gOPD(it, key);
  if (D & & has(AllSymbols, key) & & !has(it, HIDDEN) & & !it[HIDDEN][key])
    D.enumerable = true;
  return D;
}

$defineProperties = function getOwnPropertyNames(it) {
  var names = gOPN(toObject(it));
  var result = [];
  var i = 0;
  var key;
  while (names.length > i) {
    if (!has(AllSymbols, key = names[i++]) & & !key.HIDDEN & & key.META)
      result.push(key);
  }
  return result;
}

var defineGetOwnPropertySymbols = function getOwnPropertySymbols(it) {
  return IS_OP ? gOPN(it) : gOPN(toIObject(it));
}

defineProperties(it, P) {
  var keys = enumKeys(P = toObject(P));
  var i = 0;
  var l = keys.length;
  var key;
  while (l > i) $defineProperty(it, key = keys[i++], P[key]);
  return it;
}

var defineProperties = function defineProperties(create, P) {
  return P === undefined ? _create(it) : $defineProperties(create(it), P);
}

$create = function create(it, P) {
  return P === undefined ? _create(it) : $defineProperties(_create(it), P);
}

$defineProperties = function getOwnPropertyDescriptor(it, key) {
  var key = toPrimitive(key, true);
  if (this === ObjectProto & & has(AllSymbols, key) & & !has(OSymbols, key)) return;
  var name = names[i++];
  if (this === ObjectProto & & has(AllSymbols, key) & & !has(OSymbols, key)) return;
  var D = gOPD(it, key);
  if (D & & has(AllSymbols, key) & & !has(it, HIDDEN) & & !it[HIDDEN][key])
    D.enumerable = true;
  return D;
}

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  var names = gOPN(toObject(it));
  var result = [];
  var i = 0;
  var key;
  while (names.length > i) {
    if (!has(AllSymbols, key = names[i++]) & & !key.HIDDEN & & key.META)
      result.push(key);
  }
  return result;
}

var defineGetOwnPropertySymbols = function getOwnPropertySymbols(it) {
  return IS_OP ? gOPN(it) : gOPN(toIObject(it));
}

defineProperties(it, P) {
  var keys = enumKeys(P = toObject(P));
  var i = 0;
  var l = keys.length;
  var key;
  while (l > i) $defineProperty(it, key = keys[i++], P[key]);
  return it;
}

var defineProperties = function defineProperties(create, P) {
  return P === undefined ? _create(it) : $defineProperties(create(it), P);
}

$create = function create(it, P) {
  return P === undefined ? _create(it) : $defineProperties(_create(it), P);
}

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  var key = toPrimitive(key, true);
  if (this === ObjectProto & & has(AllSymbols, key) & & !has(OSymbols, key)) return;
  var name = names[i++];
  if (this === ObjectProto & & has(AllSymbols, key) & & !has(OSymbols, key)) return;
  var D = gOPD(it, key);
  if (D & & has(AllSymbols, key) & & !has(it, HIDDEN) & & !it[HIDDEN][key])
    D.enumerable = true;
  return D;
}

$defineProperties = function getOwnPropertyNames(it) {
  var names = gOPN(toObject(it));
  var result = [];
  var i = 0;
  var key;
  while (names.length > i) {
    if (!has(AllSymbols, key = names[i++]) & & !key.HIDDEN & & key.META)
      result.push(key);
  }
  return result;
}

var defineGetOwnPropertySymbols = function getOwnPropertySymbols(it) {
  return IS_OP ? gOPN(it) : gOPN(toIObject(it));
}

defineProperties(it, P) {
  var keys = enumKeys(P = toObject(P));
  var i = 0;
  var l = keys.length;
  var key;
  while (l > i) $defineProperty(it, key = keys[i++], P[key]);
  return it;
}

var defineProperties = function defineProperties(create, P) {
  return P === undefined ? _create(it) : $defineProperties(create(it), P);
}

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  return P === undefined ? _create(it) : $defineProperties(_create(it), P);
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$defineProperties = function getOwnPropertyDescriptor(it, key) {
  var key = toPrimitive(key, true);
  if (this === ObjectProto & & has(AllSymbols, key) & & !has(OSymbols, key)) return;
  var name = names[i++];
  if (this === ObjectProto & & has(AllSymbols, key) & & !has(OSymbols, key)) return;
  var D = gOPD(it, key);
  if (D & & has(AllSymbols, key) & & !has(it, HIDDEN) & & !it[HIDDEN][key])
    D.enumerable = true;
  return D;
}

$defineProperties = function getOwnPropertyNames(it) {
  var names = gOPN(toObject(it));
  var result = [];
  var i = 0;
  var key;
  while (names.length > i) {
    if (!has(AllSymbols, key = names[i++]) & & !key.HIDDEN & & key.META)
      result.push(key);
  }
  return result;
}

var defineGetOwnPropertySymbols = function getOwnPropertySymbols(it) {
  return IS_OP ? gOPN(it) : gOPN(toIObject(it));
}

defineProperties(it, P) {
  var keys = enumKeys(P = toObject(P));
  var i = 0;
  var l = keys.length;
  var key;
  while (l > i) $defineProperty(it, key = keys[i++], P[key]);
  return it;
}
converts symbol values to JSON as

```javascript
// WebKit converts symbol values to JSON as null
// V8 throws on boxed symbols
return _stringify((S)) != '[null]' || _stringify((a: S)) != '[]' || _stringify(Object(S)) != '{:}' ||
'JSON', {stringify: function stringify(it) {
  var args = [it];
  var i = 1;
  var replacer, $replacer;
  while (arguments.length > i) args.push(arguments[i++]);
  $replacer = replacer = args[1];
  if (!$isObject(replacer) &&
      it === undefined || isSymbol(it)) return; // IE8 returns string on undefined
  if (isArrayOf(replacer)) replacer = function (key, value) {
    if (typeof $replacer == 'function') value = $replacer.call(this, key, value);
    if (!isSymbol(value)) return value; // esl-id-disable-next-line no-unde
    var S = Symbol();
    var K = 'abcdefghijklmnopqrstuvwxyz';
    A[S] = 7 // K.split('').forEach(function (k) { B[k] = k; });
    return Sassign({ A, S }) != 7 || Object.keys(Sassign({ B, A})).join('') != K;
  };
  if (`DESCRIP` || $isEnumerable.call(S, key)) return value;
  if (!isSymbol(value)) return value;
  return _stringify.apply($JSON, args);
});

// 19.4.3.4 Symbol.prototype[@@toPrimitive](hint)
Symbol.prototype[@@toPrimitive] || require('./_hide')($Symbol[PROTOTYPE][TO_PRIMITIVE] ||
require('./_hide')($Symbol[PROTOTYPE], TO_PRIMITIVE, $Symbol[PROTOTYPE].valueOf));
// 19.4.3.5
Symbol.prototype[@@toStringTag] = 'Symbol', '

// 20.2.1.9
Math[@@toStringTag] = 'Math', 'true');
// 24.3.3
JSON[@@toStringTag] = 'JSON', 'true');

Object.assign(target, source, ...)
var DESCRIPTORS = require('./_descriptors');
var getKeys = require('./_object-keys');
var gOPS = require('./_object-gops');
var pIE = require('./_object-pie');
toObject = require('./_to-object');

var _Array$isArray = require("../core-js/array/is-array");

function _arrayWithHoles(arr) {
  if (_Array$isArray(arr)) return arr;
}

module.exports = _arrayWithHoles;

function _arrayLikeToArray(arr, len) {
  if (len == null || len > arr.length) len = arr.length;
  for (var i = 0, arr2 = new Array(len); i < len; i++) {
    arr2[i] = arr[i];
  }
  return arr2;
}

module.exports = _arrayLikeToArray;
array.

```javascript
function arrayMap(array, iteratee) { 
  var index = -1, 
  length = array == null ? 0 : array.length, 
  result = Array(length); 

  while (++index < length) { 
    result[index] = iteratee(array[index], index, array); 
  } 

  return result;
}
```

```javascript
module.exports = arrayMap;
```

```javascript
/**
 * The base implementation of `_.slice` without an iteratee
 * call guard.
 */
function baseSlice(array, start, end) { 
  var index = -1, 
  length = array == null ? 0 : array.length, 
  result = Array(length); 

  while (++index < length) { 
    result[index] = array[index + start]; 
  } 

  return result;
}
```

```javascript
module.exports = baseSlice;
```

```javascript
/**
 * The base implementation of `_.reduce` for arrays without support for
 * iteratee shorthands.
 */
function arrayReduce(array, iteratee, accumulator, initAccum) { 
  var index = -1, 
  length = array == null ? 0 : array.length; 

  if (initAccum && length) { 
    accumulator = array[++index]; 
  } 

  while (++index < length) { 
    accumulator = iteratee(accumulator, array[index], index, array); 
  } 

  return accumulator;
}
```

```javascript
module.exports = arrayReduce;
```

```javascript
var _ = require('./lodash');

/**
 * A specialized version of `baseIsEqualDeep` for arrays with support for
 * partial deep comparisons.
 */
function baseIsEqualDeep(value, other, bitmask, customizer, stack) { 
  if (value === other) { 
    return true;
  } 

  if (value == null || other == null || !isObjectLike(value) || !isObjectLike(other)) { 
    return value !== value && other !== other; 
  } 

  var baseIsEqualDeep = require('./baseIsEqualDeep'); 
  var isEqual = require('./_isEqual'); 
  var equals = require('./_equals'); 

  return stack.size ? _.equalDeep(value, other, bitmask, customizer, stack) : baseIsEqualDeep(value, other, bitmask, customizer, stack); 
}
```

```javascript
module.exports = baseIsEqualDeep;
```

```javascript
function hasUnicode(string) { 
  return reHasUnicode.test(string);
}
```

```javascript
module.exports = hasUnicode;
```

```javascript
var baseIsEqualDeep = require('./_baseIsEqualDeep'),
    isObjectLike = require('./isObjectLike');

/**
 * The base implementation of `_.isEqual` which supports partial comparisons
 * and tracks traversed objects.
 */
function baseIsEqual(value, other, bitmask, customizer, stack) { 
  if (value === other) { 
    return true;
  } 

  if (value == null || other == null || !isObjectLike(value) || !isObjectLike(other)) { 
    return value !== value && other !== other; 
  } 

  return baseIsEqualDeep(value, other, bitmask, customizer, stack);
}
```

```javascript
module.exports = baseIsEqual;
```
arrays are equivalent, else `false`.
*/
function equalArrays(array, other, bitmask, customizer, equalFunc, stack) {
  var isPartial = bitmask & COMPARE_PARTIAL_FLAG,
      arrLength = array.length,
      othLength = other.length;
  if (arrLength != othLength &&
      (isPartial && othLength > arrLength)) { return false; }
  // Assume cyclic values are equal.
  var stacked = stack.get(array);
  if (stacked && stack.get(other)) { return stacked == other; }
  var index = -1,
      result = true,
      seen = (bitmask & COMPARE_UNORDERED_FLAG) ? new SetCache : undefined;

  stack.set(array, other);
  stack.set(other, array);

  // Ignore non-index properties.
  while (++index < arrLength) {
    var arrValue = array[index],
        othValue = other[index];

    if (customizer) {
      var compared = isPartial
        ? customizer(othValue, arrValue, index, other, array, stack)
        : customizer(arrValue, othValue, index, other, stack);
    }
    if (compared !== undefined) {
      if (compared) {
        continue;
      }
      result = false;
      break;
    }
    // Recursively compare arrays (susceptible to call stack limits).
    if (seen) {
      if (!arraySome(other, function(othValue, othIndex) {
          if (!cacheHas(seen, othIndex) &&
            (arrValue === othValue ||
              equalFunc(arrValue, othValue, bitmask, customizer, stack))) {
            return seen.push(othIndex);
          }
        })) {
        return false;
      }
    }
    // Recursively compare arrays (susceptible to call stack limits).
    if (seen) {
      if (!arraySome(other, function(othValue, othIndex) {
          if (!cacheHas(seen, othIndex) &&
            (arrValue === othValue ||
              equalFunc(arrValue, othValue, bitmask, customizer, stack))) {
            return seen.push(othIndex);
          }
        })) {
        return false;
      }
    }
  }
  stack['delete'](array);
  stack['delete'](other);
  return result;
}

module.exports = equalArrays;

/**
 * A specialized version of `_.some` for arrays without support for iteratee
 * shorthands.
 *
 * @private
 * @param {Array} [array] The array to iterate over.
 * @param {Function} predicate The function invoked per iteration.
 * @returns {boolean} Returns `true` if any element passes the predicate check,
 * else `false`.
 */
function arraySome(array, predicate) {
  var index = -1,
      length = array == null ? 0 : array.length;

  while (++index < length) {
    if (predicate(array[index], index, array)) {
      return true;
    }
  }
  return false;
}

module.exports = arraySome;

var root = require('./_root');

/** Built-in value references. */
var Uint8Array = root.Uint8Array;

module.exports = Uint8Array;

var baseGetAllKeys = require('./_baseGetAllKeys'),
    getSymbols = require('./_getSymbols'),
    keys = require('./keys');

/**
 * Creates an array of own enumerable property names and symbols of `object`.
 *
 * @private
 * @param {Object} object The object to query.
 * @returns {Array} Returns the array of property names and symbols.
 */
function getAllKeys(object) {
  return baseGetAllKeys(object, keys, getSymbols);
}

module.exports = getAllKeys;

var arrayPush = require('./_arrayPush'),
    isArray = require('./isArray');

/**
 * The base
 * implementation of `getAllKeys` and `getAllKeysIn` which uses
 * `keysFunc` and `symbolsFunc` to get the
 * enumerable property names and symbols of `object`.
 * @private
 * @param {Function} keysFunc The function to get the keys of `object`.
 * @param {Function} symbolsFunc The function to get the symbols of `object`.
 * @returns {Array} Returns the array of property names and symbols.
 */
function baseGetAllKeys(object, keysFunc, symbolsFunc) {
  var result = keysFunc(object);
  if (isArray(object)) return result;
  var isIndex = isIndex(array, object);
  var length = result.length;
  for (var key in object) {
    if (cacheHas(result, key) &&
        (result[key] === object[key] ||
          equalFunc(result[key], object[key], bitmask, customizer, stack))) {
      return result.push(key);
    }
  }
  return result;
}

module.exports = baseGetAllKeys;

var arrayLikeKeys = require('./_arrayLikeKeys'),
    isArguments = require('./isArguments'),
    isBuffer = require('./isBuffer'),
    isIndex = require('./_isIndex'),
    isTypedArray = require('./isTypedArray');

/**
 * Creates a new empty array.
 */
function stubArray() {
  return [];
}

module.exports = stubArray;

var baseTimes = require('./_baseTimes'),
    isArguments = require('./isArguments'),
    isBuffer = require('./isBuffer'),
    isIndex = require('./_isIndex'),
    isTypedArray = require('./isTypedArray');

/**
 * Used for built-in method references.
 */
var objectProto = Object.prototype;

/**
 * Creates an array of the enumerable property names of the array-like `value`.
 */
function arrayLikeKeys(value, inherited) {
  var result = ([]); // Return the empty array.
  var isIndex = isIndex(array, value);
  var isArguments = isArguments(array, value);
  var isBuffer = isBuffer(array, value);
  var isTypedArray = isTypedArray(array, value);
  var skipIndexes = isArr || isArg || isBuffer || isTyped || baseTimes(value.length, String) :

  length = result.length;
  for (var key in value) {
    if (inherited ||
        baseTimes(value.length, String) :

    length = result.length;
  for (var key in value) {
    if (inherited ||
baseEach = createBaseEach(baseForOwn);\n\nmodule.exports = baseEach;\n"; var _Array$from = require("./core-js/array/from");\nvar _isIterable = require("./core-js/is-iterable");\nvar _Symbol = require("./core-js/symbol");\n\nfunction _iterableToArray(iter) {\n  if (typeof _Symbol !== "undefined" && _isIterable(Object(iter))) return _Array$from(iter);\n}\n
module.exports = _iterableToArray;\n
// 7.3.20 SpeciesConstructor(O, defaultConstructor)\nvar anObject = require('./_an-object');\nvar var S\nreturn C === undefined \n|| (S = anObject(C)[SPECIES]) === undefined ? D : aFunction(S);\n\nfunction _invoke(fn, args, that) {\n  var un = that === undefined;\n  switch (args.length) {\n    case 0: return un ? fn() : fn.call(that);\n    case 1: return un ? fn(args[0]) : fn.call(that, args[0]);\n    case 2: return un ? fn(args[0], args[1]) : fn.call(that, args[0], args[1]);\n    case 3: return un ? fn(args[0], args[1], args[2]) : fn.call(that, args[0], args[1], args[2]);\n    case 4: return un ? fn(args[0], args[1], args[2], args[3]) : fn.call(that, args[0], args[1], args[2], args[3]);\n  } return fn.apply(that, args);\n}\n
module.exports = function (exec) {\n  try {\n    return { e: false, v: exec() };
  } catch (e) {\n    return { e: true, v: e };
  }
};\n
var defineProperty = require('./_defineProperty');\n
/**\n * The base implementation of `assignValue` and `assignMergeValue` without\n * value checks.
 * \n * @private\n * @param {Object} object The object to modify.\n * @param {string} key The key of the property to assign.\n * @param {*} value The value to assign.\n * @param {boolean=} shallow Detecting arrays vs. objects.\n */\nfunction baseAssignValue(object, key, value) {\n  if (key ==...
var arrayLikeKeys = require('./_arrayLikeKeys'), baseKeysIn = require('./_baseKeysIn'),

isArrayLike = require('./isArrayLike');

function assignMergeValue(object, value, source) {
  return object == value || object !== object && value !== value
  ? (source === undefined || object === undefined
    ? value
    : assignValue(object, value))
  : baseAssignValue(object, value, source);
}

module.exports = assignMergeValue;
without
* value checks.

```javascript
function baseAssignValue(object, key, value) {
  if (key == '__proto__' && defineProperty) {
    defineProperty(object, key, {
      'configurable': true,
      'enumerable': true,
      'value': value,
      'writable': true
    });
  } else {
    object[key] = value;
  }
}

module.exports = baseAssignValue;
```

```javascript
var getNative = require('./_getNative');

var baseHasIn = require('./_baseHasIn'),
    hasPath = require('./_hasPath');

/**
 * Checks if `path` is a direct or inherited property of `object`.
 *
 * @static
 * @memberOf _
 * @since 4.0.0
 *
 * @category Object
 * @param {Object} object The object to query.
 * @param {Array|string} path The path to check.
 * @returns {boolean} Returns `true` if `path` exists, else `false`.
 * @example
 *
 * var object = { 'a': { 'b': 2 } };
 *
 * _.hasIn(object, 'a');
 * // => true
 *
 * _.hasIn(object, 'a.b');
 * // => false
 */
function hasIn(object, path) {
  return object != null && baseHasIn(object, path, hasPath);
}

module.exports = hasIn;
```

```javascript
var apply = require('./_apply');

/* Built-in method references for those with the same name as other `lodash` methods. */
var nativeMax = Math.max;

/**
 * A specialized version of `baseRest` which transforms the rest array.
 *
 * @private
 * @param {Function} func The function to apply a rest parameter to.
 * @param {number} start=func.length-1 The start position of the rest parameter.
 * @param {Function} transform The rest array transform.
 * @returns {Function} Returns the new function.
 */
function overRest(func, start, transform) {
  start = nativeMax(start === undefined ? (func.length - 1) : start, 0);
  return function() {
    var args = arguments,
        index = -1,
        length = nativeMax(args.length - start, 0),
        array = Array(length);

    while (++index < length) {
      array[index] = args[start + index];
    }
    index = -1;
    var otherArgs = Array(start + 1);
    while (++index < start) {
      otherArgs[index] = args[index];
    }
    otherArgs[start] = transform(array);
    return apply(func, this, otherArgs);
  };
}

module.exports = overRest;
```

```javascript
var baseSetToString = require('./_baseSetToString'),
    shortOut = require('./_shortOut');

/**
 * Sets the `toString` method of `func` to return `string`.
 *
 * @private
 * @param {Function} func The function to modify.
 * @param {Function} string The `toString` result.
 * @returns {Function} Returns `func`.
 */
var setToString = shortOut(baseSetToString);

module.exports = setToString;
```

```javascript
var baseMatches = require('./_baseMatches'),
    baseMatchesProperty = require('./_baseMatchesProperty'),
    identity = require('./identity'),
    isArray = require('./isArray'),
    property = require('./property');

/**
 * The base implementation of `_.iteratee`.
 *
 * @private
 * @param {*} value The value to convert to an iteratee.
 * @returns {Function} Returns the iteratee.
 */
function baseIteratee(value) {
  // Don't store the `typeof` result in a variable to avoid a JIT bug in
  // Safari 9.1. See https://bugs.webkit.org/show_bug.cgi?id=156034 for
  // more details.
  if (typeof value == 'function') {
    return value;
  }
  if (value == null) {
    return identity;
  }
  if (typeof value == 'object') {
    return isArray(value)
      ? baseMatchesProperty(value[0], value[1])
      : baseMatches(value);
  }
  return property(value);
}

module.exports = baseIteratee;
```

```javascript
var baseIsEqualDeep = require('./_baseIsEqualDeep'),
    isObjectLike = require('./isObjectLike');

/**
 * The base implementation of `_.isEqual` which supports partial
 * comparisons.
 *
 * @private
 * @param {*} value The value to compare.
 * @param {*} other The other value to compare.
 * @param {boolean} [ bitmask=1] The bitmask flags.
 *  1 - Unordered comparison
 *  2 - Partial comparison
 * @param {Function} [ customizer] The function to customize comparisons.
 * @returns {boolean} Returns `true` if the values are equivalent, else `false`.
 */
function baseIsEqual(value, other, bitmask, customizer, stack) {
  if (value === other) {
    return true;
  }
  if (value == null || other == null) {
    return value === other;
  }
  var isObjectLike = require('./isObjectLike');
  if (isObjectLike(value) || isObjectLike(other)) {
    return value
      ? !(value == null || other) &&
        baseIsEqualDeep(value, other, bitmask, customizer, stack)
      : !(other == null || value);
  }
  return baseIsEqualDeep(value, other, bitmask, customizer, stack);
}

module.exports = baseIsEqual;
```

```javascript
function getNative = require('./_getNative');

var defineProperty = (function() {
  try {
    var func = getNative(Object, 'defineProperty');
    func({}, '', {});
    return func;
  } catch (e) {}
}());

module.exports = defineProperty;
```

```javascript
var baseHasIn = require('./_baseHasIn'),
    hasPath = require('./_hasPath');

/**
 * Checks if `path` is a direct or inherited property of `object`.
 *
 * @static
 * @memberOf _
 * @since 4.0.0
 *
 * @category Object
 * @param {Object} object The object to query.
 * @param {Array|string} path The path to check.
 * @returns {boolean} Returns `true` if `path` exists, else `false`.
 * @example
 *
 * var object = { 'a': { 'b': 2 } };
 *
 * _.hasIn(object, 'a');
 * // => true
 *
 * _.hasIn(object, 'a.b');
 * // => false
 */
function hasIn(object, path) {
  return object != null && baseHasIn(object, path, hasPath);
}

module.exports = hasIn;
```

```javascript
var apply = require('./_apply');

/* Built-in method references for those with the same name as other `lodash` methods. */
var nativeMax = Math.max;

/**
 * A specialized version of `baseRest` which transforms the rest array.
 *
 * @private
 * @param {Function} func The function to apply a rest parameter to.
 * @param {number} [ start=func.length-1] The start position of the rest parameter.
 * @param {Function} transform The rest array transform.
 * @returns {Function} Returns the new function.
 */
function overRest(func, start, transform) {
  start = nativeMax(start === undefined ? (func.length - 1) : start, 0);
  return function() {
    var args = arguments,
        index = -1,
        length = nativeMax(args.length - start, 0),
        array = Array(length);

    while (++index < length) {
      array[index] = args[start + index];
    }
    index = -1;
    var otherArgs = Array(start + 1);
    while (++index < start) {
      otherArgs[index] = args[index];
    }
    otherArgs[start] = transform(array);
    return apply(func, this, otherArgs);
  };
}

module.exports = overRest;
```

```javascript
var baseSetToString = require('./_baseSetToString'),
    shortOut = require('./_shortOut');

/**
 * Sets the `toString` method of `func` to return `string`.
 *
 * @private
 * @param {Function} func The function to modify.
 * @param {Function} string The `toString` result.
 * @returns {Function} Returns `func`.
 */
var setToString = shortOut(baseSetToString);

module.exports = setToString;
```

```javascript
var baseMatches = require('./_baseMatches'),
    baseMatchesProperty = require('./_baseMatchesProperty'),
    identity = require('./identity'),
    isArray = require('./isArray'),
    property = require('./property');

/**
 * The base implementation of `_.iteratee`.
 *
 * @private
 * @param {*} value The value to convert to an iteratee.
 * @returns {Function} Returns the iteratee.
 */
function baseIteratee(value) {
  // Don't store the `typeof` result in a variable to avoid a JIT bug in
  // Safari 9.1. See https://bugs.webkit.org/show_bug.cgi?id=156034 for
  // more details.
  if (typeof value == 'function') {
    return value;
  }
  if (value == null) {
    return identity;
  }
  if (typeof value == 'object') {
    return isArray(value)
      ? baseMatchesProperty(value[0], value[1])
      : baseMatches(value);
  }
  return property(value);
}

module.exports = baseIteratee;
```

```javascript
var baseIsEqualDeep = require('./_baseIsEqualDeep'),
    isObjectLike = require('./isObjectLike');

/**
 * The base implementation of `_.isEqual` which supports partial
 * comparisons.
 *
 * @private
 * @param {*} value The value to compare.
 * @param {*} other The other value to compare.
 * @param {boolean} [ bitmask=1] The bitmask flags.
 *  1 - Unordered comparison
 *  2 - Partial comparison
 * @param {Function} [ customizer] The function to customize comparisons.
 * @returns {boolean} Returns `true` if the values are equivalent, else `false`.
 */
function baseIsEqual(value, other, bitmask, customizer, stack) {
  if (value === other) {
    return true;
  }
  if (value == null || other == null ||
      !(isObjectLike(value) ||
      isObjectLike(other))) {
    return value !== other;
  }
  return baseIsEqualDeep(value, other, bitmask, customizer, stack);
}

module.exports = baseIsEqual;
```
require("randombytes");

module.exports = require("\"sha.js\"\");

var arrayReduce = require(\"./\_arrayReduce\"),
    baseEach = require(\"./\_baseEach\"),
    baseIteratee = require(\"./\_baseIteratee\"),
    baseReduce = require(\"./\_baseReduce\"),
    isArray = require(\"isArray\"),
    map = require(\"map\"),
    merge = require(\"merge\"),
    now = require(\"now\"),
    reduce = require(\"reduce\"),
    toNumber = require(\"toNumber\"),
    _ = require(\"lodash\"),
    _baseEach = require(\"./\_baseEach\"),
    _baseIteratee = require(\"./\_baseIteratee\"),
    _baseReduce = require(\"./\_baseReduce\"),
    defaults = require(\"\"defaults\"\"),
    defaultsDeep = require(\"\"defaultsDeep\"\"),
    flat = require(\"\"flat\"\"),
    flatMap = require(\"\"flatMap\"\"),
    flatten = require(\"\"flatten\"\"),
    mapKeys = require(\"\"mapKeys\"\"),
    mapValues = require(\"\"mapValues\"\"),
    max = require(\"\"max\"\"),
    min = require(\"\"min\"\"),
    _assign = require(\"\"\"assign\"\"),
    _assignIn = require(\"\"\"assignIn\"\"),
    _assignInDeep = require(\"\"\"assignInDeep\"\"),
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    _assignInDeep = require(\"\"\"assignInDeep\"\"),
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    _assignDeepIn = require(\"\"\"assignDeepIn\"\"),
    _assignDeepInDeep = require(\"\"\"assignDeepInDeep\"\"),
    _assignDeep = require(\"\"\"assignDeep\"\"),
    _assignDeepIn = require(\"\"\"assignDeepIn\"\"),
    _assignDeepInDeep = require(\"\"\"assignDeepInDeep\"\"");

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debounced);

/*
 * Cancel the trailing debounced invocation.
 */
jQuery(window).on('popstate',

// Cancel the trailing debounced invocation.

debounced.cancel);

/*
 * The opposite of `_.pick`; this method creates an object composed of the
 * own and inherited enumerable property paths of `object` that are not omitted.
 */
עוב

// Extracted for it.
names) {
  var O = toIObject(object);
  var i = 0;
  var result = [];
  var key;
  for (key in O) if (key !== IE_PROTO) has(O, key) &
  & result.push(key);
  // Don't enum bug & hidden keys
  while (names.length > i) if (has(O, name[i + i])
  | ~arrayIndexOf(result, key) || result.push(key);
  return result;
};

// fallback for non-array-like ES3 and non-enumerable old V8 strings
var cof = require('./_cof');
// eslint-disable-next-line no-prototype-builtins
module.exports = Object('z').propertyIsEnumerable(0) ? Object : function (it) {
  if (isIE8) return cof(it) == 'String' ? it.split('') : Object(it);
  // false -> Array#indexOf
  var toObject = require('./_to-object');
  var toLength = require('./_to-length');
  var toAbsoluteIndex = require('./_to-absolute-index');
  var module.exports = function (IS_INCLUDES)
  {
    return function (Sthis, el, fromIndex) {
      var O = toObject(Sthis);
      var length = toLength(O.length);
      var index = toAbsoluteIndex(fromIndex, length);
      var value;
      if (IS_INCLUDES &
      & el != el) while (length > index) {
        value = O[index++];
        if (value != value) return true;
      }
      else for (;length > index; index++)
      if (IS_INCLUDES || index in O) {
        if (O[index] === el) return IS_INCLUDES || index || 0;
      }
    } return !IS_INCLUDES && -1;
  };
};

// 19.1.2.9 / 15.2.3.2
Object.getPrototypeOf(O)
var has = require('./_has');
var toObject = require('./_to-object');
var IE_PROTO = require('./_shared-key')('IE_PROTO');
var ObjectProto = Object.prototype;

module.exports = Object.getPrototypeOf || function (O) {
  O = toObject(O);
  if (has(O, IE_PROTO)) return O[IE_PROTO];
  if (typeof O.constructor == 'function' &
  & O instanceof O.constructor) {
    return O.constructor.prototype;
  } return O instanceof Object ? ObjectProto : null;
};

var $iterators = require('./es6.array.iterator');
var getKeys = require('./_object-keys');
var redefine = require('./_redefine');
var global = require('./_global');
var Iterators = require('./_iterators');
var wks = require('./_wks');
var ITERATOR = wks('iterator');
var TO_STRING_TAG = wks('toStringTag');
var ArrayValues = Iterators.Array;

var DOMIterables = {
  CSSRuleList: true, // TODO: Not spec compliant, should be false.
  CSSStyleDeclaration: false,
  CSSValueList: false,
  ClientRectList: false,
  DOMRectList: false,
  DOMStringList: false,
  DOMTokenList: true,
  DataTransferItemList: false,
  FileList: false,
  HTMLAllCollection: false,
  HTMLCollection: false,
  HTMLFormElement: false,
  HTMLSelectElement: false,
  MediaList: true, // TODO: Not spec compliant, should be false.
  StyleSheetList: false,
  TextTrackCueList: false,
  TextTrackList: false,
  TouchList: false,
  Element: false,
  Element.prototype: false,
  URL: false,
  URLSearchParams: false,
  URLSearchParams.prototype: false,
  DOMTokenList: true,
  Node: false,
  String: false,
  Array: true,
  Array.prototype: true,
  Map: true,
  Map.prototype: true,
  Set: true,
  Set.prototype: true,
  Date: true,
  Date.prototype: false,
  Error: true,
  Error.prototype: true,
  RegExp: true,
  RegExp.prototype: true,
  Function: true,
  Function.prototype: true,
  Array.prototype: false,
  Object: false,
  Object.prototype: false,
  toString: false,
  +toString: false,
  Function.prototype: false,
  arguments: false,
  arguments.length: true,
  parseFloat: true,
  parseInt: true,
  Number: true,
  String: true,
  JSON: false,
  String.prototype: false,
  String.prototype.trim: false,
  String.prototype.trimLeft: false,
  String.prototype.trimRight: false,
  Object.keys: true,
  Object.values: true,
  Object.assign: true,
  Reflect: true,
  Reflect.construct: true,
  Array.prototype: false,
  Date: false,
  function: true,
  function.prototype: true,
  Array.prototype: false,
  String.prototype: false,
  Number.prototype: false,
  Object.prototype: false,
  Symbol: false,
  Symbol.iterator: true,
  Symbol.toStringTag: true,
  Object: false,
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  Symbol.iterator: true,
  Symbol.toStringTag: true,
  Object: false,
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  Array: false,
  Array.prototype: false,
  String: false,
  String.prototype: false,
  Number: false,
  Number.prototype: false,
  Object: false,
  Object.prototype: false,
  Symbol: false,
  Symbol.iterator: true,
promise._w || promise; // unwrap
try {'
  if (promise === value) throw TypeError('Promise can’t be resolved itself');
  if (then isThenable(value))
    microtask(function () {'
      var wrapper = {_w: promise, _d: false}; // wrap
      try {'
        then.call(value, ctx($resolve, wrapper, 1), ctx($reject, wrapper, 1));
      } catch (e) {'
        $reject.call(wrapper, e);
      }
    } else {'
      promise._v = value;
      promise._s = 1;
      notify(promise, false);
    }
  } catch (e) {'
    $reject.call({_w: promise, _d: false}, e); // wrap
  }
};

// constructor polyfill
USE_NATIVE {'
  // 25.4.3.1 Promise(executor)
  $Promise = function
    anInstance(this, $Promise, PROMISE, '_h');
    aFunction(executor);
Internal.call(this);
try {'
  executor(ctx($resolve, this, 1), ctx($reject, this, 1));
} catch (err) {'
  $reject.call(err);
}
Promise(executor) {'
  this._c = [];
  // <- awaiting reactions
  this._a = undefined;
  // <- checked in isUnhandled reactions
  this._s = 0;
  // <- state
  this._d = false;
  // <- done
  this._v = undefined;

  // <- value
  this._h = 0;
  // <- rejection state, 0 - default, 1 - handled, 2 - unhanded
  this._n = false;

  // <- notify
};

Internal.prototype = require('./_redefine-all')($Promise.prototype, {'
  // 25.4.4.5 Promise.reject(r)
  reject: function reject(r) {'
    var capability = newPromiseCapability(this);
    var $$reject = capability.reject;
    $$reject(r);
    return capability.promise;
  }
});

Promise.prototype.catch(onRejected) {'
  'catch': function (onRejected) {'
    return promise.then(onFulfilled, onRejected);
  }
};

Promise.prototype.all(iterable) {'
  var C = this;
  var capability = newPromiseCapability(C);
  var resolve = capability.resolve;
  var reject = capability.reject;
  var result = perform(function () {'
    var values = [];
    var index = 0;
    forOf(iterable, false, function (promise) {'
      var $index = index++;
      var alreadyCalled = false;
      values[$index] = undefined;
      C.resolve(promise).then(resolve, reject);
    });
    var $index = index++;
    var alreadyCalled = false;
    var values = new Array(values.length);
    C.resolve(promise).then(function (value) {'
      if (alreadyCalled) return;
      if (this._n) notify(this, false);
      return this.then(defined, onRejected);
    }));
  } else {'
    var promise = new Internal();
    promise._v = value;
    promise._s = 1;
    notify(promise, false);
  }
  notify(promise, false);
};
```javascript
var arr = [7];
var iter = arr[ITERATOR]();
iter.next = function () { return { done: false, value: true }; };
arr[ITERATOR] = function () { return iter; }
exec(arr);
try { catch (e) { /* empty */ } return return safe; } 
"https://github.com/tc39/proposal-promise-finally

var $export = require('./_export');
var core = require('./_core');
var global = require('./_global');
var speciesConstructor = require('./_species-constructor');
var promiseResolve = require('./_promise-resolve');

$export($export.P + $export.R, 'Promise', { 'finally': function (onFinally) { 
  var C = speciesConstructor(this, core.Promise || global.Promise);
  return onFinally(function () { return C; });
} });
```

```javascript
require('../modules/_core').String;
```

```javascript
var $export = require('./_export');
var toAbsoluteIndex = require('./_to-absolute-index');
var fromCharCode = String.fromCharCode;
var $fromCodePoint = String.fromCodePoint;

$export($export.S + $export.F * (!!$fromCodePoint && $fromCodePoint.length != 1), 'String', {
  // 21.1.2.2 String.fromCodePoint(...codePoints)
  fromCodePoint: function fromCodePoint(x) { // eslint-disable-line no-unused-vars
    var res = [];
    var aLen = arguments.length;
    var i = 0;
    var code;
    while (aLen > i) {
      code = +arguments[i++];
      if (toAbsoluteIndex(code, 0x10ffff) !== code) throw RangeError(code + ' is not a valid code point');
      res.push(code < 0x10000
        ? fromCharCode(code)
        : fromCharCode(((code -= 0x10000) >> 10) + 0xd800, code % 0x400 + 0xdc00)
    } return res.join('');
  }
});
```

```javascript
var $export = require('./_export');
var toIObject = require('./_to-iobject');
var toLength = require('./_to-length');

$export($export.S, 'String', {
  // 21.1.2.4 String.raw(callSite, ...substitutions)
  raw: function raw(callSite) {
    var tpl = toIObject(callSite.raw);
    var len = toLength(tpl.length);
    var aLen = arguments.length;
    var res = [];
    var i = 0;
    while (len > i) {
      res.push(String(tpl[i++]));
      if (i < aLen) res.push(String(arguments[i]));
    } return res.join('');
  }
});
```

```javascript
'\x09\x0A\x0B\x0C\x0D\x20\xA0\u1680\u180E\u2000\u2001\u2002\u2003
```
var $export = require('./_export');
var $at = require('./_string-at')(false);
$export($export.P, 'String', {
  // 21.1.3.3 String.prototype.codePointAt(pos)
  codePointAt: function codePointAt(pos) {
    return $at(this, pos);
  },
  // 21.1.3.6 String.prototype.endsWith(searchString [, endPosition])
  endsWith: function endsWith(searchString, endPosition) {
    return $export($export.P + $export.F * require('./_fails-is-regexp')(ENDS_WITH), 'String', {
      'endsWith: function endsWith(searchString, endPosition) {
        var that = context(this, searchString, ENDS_WITH);
        var len = toLength($at(that, that.length));
        var end = endPosition === undefined ? undefined : Math.min(toLength(endPosition), len);
        var search = String(searchString);
        return $endsWith
          ? $endsWith.call(that, search, end)
          : that.slice(end - search.length, end) === search;
      }
    });
  },
  // 21.1.3.7 String.prototype.includes(searchString [, position = 0])
  includes: function includes(searchString, position = 0) {
    return !!~context(this, searchString, INCLUDES)
      .indexOf(searchString, arguments.length > 1 ? arguments[1] : undefined);
  },
  // 21.1.3.13 String.prototype.repeat(count)
  repeat: require('./_string-repeat')
});

var $export = require('./_export');

$export($export.P, 'String', {
  // 21.1.3.18 String.prototype.startsWith(searchString [, position = 0])
  startsWith: function startsWith(searchString, position = 0) {
    var that = context(this, searchString, STARTS_WITH);
    var index = toLength(Math.min(arguments.length > 1 ? arguments[1] : undefined, that.length));
    var search = String(searchString);
    return $startsWith
      ? $startsWith.call(that, search, index)
      : that.slice(index, index + search.length) === search;
  }
});

require('./_string-html')('anchor', function (createHTML) {
  return function anchor(name) {
    return createHTML(this, 'a', 'name', name);
  };
});

require('./_string-html')('big', function (createHTML) {
  return function big() {
    return createHTML(this, 'big', '','
  };
});

require('./_string-html')('blink', function (createHTML) {
  return function blink() {
    return createHTML(this, 'blink', '','
  };
});

require('./_string-html')('bold', function (createHTML) {
  return function bold() {
    return createHTML(this, 'b', '','
  };
});

require('./_string-html')('fixed', function (createHTML) {
  return function fixed() {
    return createHTML(this, 'tt', '','
  };
});

require('./_string-html')('fontcolor', function (createHTML) {
  return function fontcolor(color) {
    return createHTML(this, 'font', 'color', color);
  };
});

require('./_string-html')('fontsize', function (createHTML) {
  return function fontsize(size) {
    return createHTML(this, 'font', 'size', size);
  };
});

require('./_string-html')('italics', function (createHTML) {
  return function italics() {
    return createHTML(this, 'i', '','
  };
});

require('./_string-html')('link', function (createHTML) {
  return function link(url) {
    return createHTML(this, 'a', 'href', url);
  };
});

require('./_string-html')('small', function (createHTML) {
  return function small() {
    return createHTML(this, 'small', '','
  };
});

require('./_string-html')('strike', function (createHTML) {
  return function strike() {
    return createHTML(this, 'strike', '','
  };
});

require('./_string-html')('superscript', function (createHTML) {
  return function superscript() {
    return createHTML(this, 'sup', '','
  };
});

require('./_string-html')('subscript', function (createHTML) {
  return function subscript() {
    return createHTML(this, 'sub', '','
  };
});
TypedArray.prototype.subarray` function which returns arrays of
incorrect length in some situations.

We detect these buggy browsers and set `Buffer.TYPED_ARRAY_SUPPORT` to `false` so they get the Object implementation, which is slower but behaves correctly.

Buffer.TYPED_ARRAY_SUPPORT = global.TYPED_ARRAY_SUPPORT !== undefined ? global.TYPED_ARRAY_SUPPORT :
typedArraySupport()/*\n* Export kMaxLength after typed array support is determined.

*\n*exports.kMaxLength = kMaxLength()\n*function typedArraySupport () {\n  try {
    var arr = new Uint8Array(1)\n    arr.__proto__ = {__proto__: Uint8Array.prototype, foo: function () { return 42 }}\n    return arr.foo() === 42 && // typed array instances can be augmented\n    typeof arr.subarray === 'function' && // chrome 9-10 lack `subarray`\n    arr.subarray(1, 1).byteLength === 0 // ie10 has broken `subarray`\n  } catch (e) {\n    return false\n  }\n  return Buffer.TYPED_ARRAY_SUPPORT ?
0x7fffffff : 0x3fffffff\n} Buffer.prototype.__proto__ = Buffer.prototype\nBuffer.prototype.constructor = Buffer\nBuffer.TYPED_ARRAY_SUPPORT && (!this.instanceof Buffer) \n  \nif (!Buffer.TYPED_ARRAY_SUPPORT && (!this instanceof Buffer)) {
  return new Buffer(arg, \nencodingOrOffset, length)\n} else {\n  // Fallback: Return an object instance of the Buffer class\n  if (that === null) {
    that = new Buffer(length)\n  } else {\n    that.length = length\n  }\n
  return that\n}

function typedArraySupport () {
  try {
    var arr = new Uint8Array(1)\n    arr.__proto__ = {__proto__: Uint8Array.prototype, foo: function () { return 42 }}\n    return arr.foo() === 42 && // typed array instances can be augmented\n    typeof arr.subarray === 'function' && // chrome 9-10 lack `subarray`\n    arr.subarray(1, 1).byteLength === 0 // ie10 has broken `subarray`\n  } catch (e) {
    return false\n  }\n  return Buffer.TYPED_ARRAY_SUPPORT ?
0x7fffffff : 0x3fffffff\n} Buffer.prototype.__proto__ = Buffer.prototype\nBuffer.prototype.constructor = Buffer\nBuffer.TYPED_ARRAY_SUPPORT && (!this.instanceof Buffer) \n  \nif (!Buffer.TYPED_ARRAY_SUPPORT && (!this instanceof Buffer)) {
  return new Buffer(arg, \nencodingOrOffset, length)\n} else {\n  // Fallback: Return an object instance of the Buffer class\n  if (that === null) {
    that = new Buffer(length)\n  } else {\n    that.length = length\n  }\n
  return that\n}
function utf16leSlice (buf, start, end) {
  var bytes = buf.slice(start, end)
  var res = []
  for (var i = 0; i < bytes.length; i++)
    res.push(String.fromCharCode(bytes[i] + bytes[i + 1] * 256))
  return res
}

Buffer.prototype.slice = function slice (start, end) {
  var len = this.length
  start = ~~start
  end = ~~end

  if (start < 0) {
    start += len
    if (start < 0) start = 0
  } else if (start > len) {
    start = len
  }

  if (end < start) end = start
  var newBuf
  if (Buffer.TYPED_ARRAY_SUPPORT) {
    newBuf = this.subarray(start, end)
    newBuf.__proto__ = Buffer.prototype
  } else {
    var sliceLen = end - start
    newBuf = new Buffer(sliceLen, undefined)
    for (var i = 0; i < sliceLen; ++i) {
      newBuf[i] = this[i + start]
    }
  }

  return newBuf
}

/*
 * Need to make sure that buffer isn't trying to write out of bounds.
*/
function checkOffset (offset, ext, length) {
  if (offset % 1 !== 0 || offset < 0) throw new RangeError('offset is not uint')
  if (offset + ext > length) throw new RangeError('Trying to access beyond buffer length')
}

Buffer.prototype.readIntLE = function readIntLE (offset, byteLength, noAssert) {
  offset = offset | 0
  byteLength = byteLength | 0
  if (!noAssert) checkOffset(offset, byteLength, this.length)

  var val = this[offset]
  var mul = 1
  var i = 0
  while (++i < byteLength && (mul *= 0x100)) {
    val += this[offset + i] * mul
  }
  mul *= 0x80

  if (val >= mul) val -= Math.pow(2, 8 * byteLength)
  return val
}

Buffer.prototype.readIntBE = function readIntBE (offset, byteLength, noAssert) {
  offset = offset | 0
  byteLength = byteLength | 0
  if (!noAssert) checkOffset(offset, byteLength, this.length)

  var i = byteLength
  var val = this[offset + --i]
  while (i > 0 && (mul *= 0x100)) {
    val += this[offset + --i] * mul
  }
  mul *= 0x80

  if (val >= mul) val -= Math.pow(2, 8 * byteLength)
  return val
}

Buffer.prototype.readInt8 = function readInt8 (offset, noAssert) {
  if (!noAssert) checkOffset(offset, 1, this.length)
  if (!(this[offset] & 0x80)) return (this[offset])
  return ((0xff - this[offset] + 1) * -1)
}

Buffer.prototype.readInt16LE = function readInt16LE (offset, noAssert) {
  offset = offset | 0
  byteLength = byteLength | 0
  if (!noAssert) checkOffset(offset, 2, this.length)

  var i = byteLength
  var val = this[offset]
  while (i > 0 && (mul *= 0x100)) {
    val += this[offset + --i] * mul
  }
  mul *= 0x80

  if (val >= mul) val -= Math.pow(2, 8 * byteLength)
  return val
}

Buffer.prototype.readInt16BE = function readInt16BE (offset, noAssert) {
  offset = offset | 0
  byteLength = byteLength | 0
  if (!noAssert) checkOffset(offset, 2, this.length)

  var i = byteLength
  var val = this[offset + --i]
  while (i > 0 && (mul *= 0x100)) {
    val += this[offset + --i] * mul
  }
  mul *= 0x80

  if (val >= mul) val -= Math.pow(2, 8 * byteLength)
  return val
}

Buffer.prototype.readInt32LE = function readInt32LE (offset, noAssert) {
  offset = offset | 0
  byteLength = byteLength | 0
  if (!noAssert) checkOffset(offset, 4, this.length)

  var i = byteLength
  var val = this[offset]
  while (i > 0 && (mul *= 0x100)) {
    val += this[offset + --i] * mul
  }
  mul *= 0x80

  if (val >= mul) val -= Math.pow(2, 8 * byteLength)
  return val
}

Buffer.prototype.readInt32BE = function readInt32BE (offset, noAssert) {
  offset = offset | 0
  byteLength = byteLength | 0
  if (!noAssert) checkOffset(offset, 4, this.length)

  var i = byteLength
  var val = this[offset + --i]
  while (i > 0 && (mul *= 0x100)) {
    val += this[offset + --i] * mul
  }
  mul *= 0x80

  if (val >= mul) val -= Math.pow(2, 8 * byteLength)
  return val
}

Buffer.prototype.readFloatLE = function readFloatLE (offset, noAssert) {
  if (!noAssert) checkOffset(offset, 4, this.length)
}

Buffer.prototype.readFloatBE = function readFloatBE (offset, noAssert) {
  if (!noAssert) checkOffset(offset, 4, this.length)

  return ieee754.read(this, offset, true, 23, 4)
}
checkOffset(offset, 4, this.length)\nreturn ieee754.read(this, offset, false, 23,
4)\n
Buffer.prototype.readDoubleLE = function readDoubleLE (offset, noAssert) {\nif (!noAssert)
checkOffset(offset, 8, this.length)\nreturn ieee754.read(this, offset, true, 52,
8)\n
Buffer.prototype.readDoubleBE = function readDoubleBE (offset, noAssert) {\nif (!noAssert)
checkOffset(offset, 8, this.length)\nreturn ieee754.read(this, offset, false, 52, 8)\n}

Buffer.prototype.readDoubleLE = function readDoubleLE (offset, noAssert) {\nif (!noAssert)
checkOffset(offset, 8, this.length)\nreturn ieee754.read(this, offset, true, 64,
8)\n
Buffer.prototype.readDoubleBE = function readDoubleBE (offset, noAssert) {\nif (!noAssert)
checkOffset(offset, 8, this.length)\nreturn ieee754.read(this, offset, false, 64, 8)\n}

checkOffset(offset, 4, this.length)\nreturn ieee754.read(this, offset, false, 23,
4)\n
Buffer.prototype.readDoubleLE = function readDoubleLE (offset, noAssert) {\nif (!noAssert)
checkOffset(offset, 8, this.length)\nreturn ieee754.read(this, offset, true, 52,
8)\n
Buffer.prototype.readDoubleBE = function readDoubleBE (offset, noAssert) {\nif (!noAssert)
checkOffset(offset, 8, this.length)\nreturn ieee754.read(this, offset, false, 52, 8)\n}

Buffer.prototype.readDoubleLE = function readDoubleLE (offset, noAssert) {\nif (!noAssert)
checkOffset(offset, 8, this.length)\nreturn ieee754.read(this, offset, true, 64,
8)\n
Buffer.prototype.readDoubleBE = function readDoubleBE (offset, noAssert) {\nif (!noAssert)
checkOffset(offset, 8, this.length)\nreturn ieee754.read(this, offset, false, 64, 8)\n}

checkOffset(offset, 4, this.length)\nreturn ieee754.read(this, offset, false, 23,
4)\n
Buffer.prototype.readDoubleLE = function readDoubleLE (offset, noAssert) {\nif (!noAssert)
checkOffset(offset, 8, this.length)\nreturn ieee754.read(this, offset, true, 52,
8)\n
Buffer.prototype.readDoubleBE = function readDoubleBE (offset, noAssert) {\nif (!noAssert)
checkOffset(offset, 8, this.length)\nreturn ieee754.read(this, offset, false, 52, 8)\n}

Buffer.prototype.readDoubleLE = function readDoubleLE (offset, noAssert) {\nif (!noAssert)
checkOffset(offset, 8, this.length)\nreturn ieee754.read(this, offset, true, 64,
8)\n
Buffer.prototype.readDoubleBE = function readDoubleBE (offset, noAssert) {\nif (!noAssert)
checkOffset(offset, 8, this.length)\nreturn ieee754.read(this, offset, false, 64, 8)\n}

checkInt(buf, value, offset, ext, max, min) \nif (!Buffer.isBuffer(buf)) throw new TypeError(\"Buffer instance\")\nif (value > max || value < min) throw new RangeError(\"value argument is out of bounds\")\nif (offset + ext > buf.length) throw new RangeError(\'Index out of range\')\n
Buffer.prototype.writeUIntLE = function writeUIntLE (value, offset, byteLength, noAssert) {\n\nvalue = +value\noffset = offset | 0\nbyteLength = byteLength | 0\n
var varMaxBytes = Math.pow(2, 8 * byteLength) - 1\n
checkInt(this, value, offset, byteLength, maxBytes, 0)\n\nvar var mul = 1\nvar i = 0\nthis[offset] = value & 0xFF\nwhile (++i < byteLength && (mul *= 0x100)) {\nthis[offset + i] = (value / mul) & 0xFF\n}\n\nreturn offset + byteLength\n}

Buffer.prototype.writeUIntBE = function writeUIntBE (value, offset, byteLength, noAssert) {\n\nvalue = +value\noffset = offset | 0\nbyteLength = byteLength | 0\n
var varMaxBytes = Math.pow(2, 8 * byteLength) - 1\n
checkInt(this, value, offset, byteLength, maxBytes, 0)\n\nvar var mul = 1\nvar i = 0\nthis[offset] = value & 0xFF\nwhile (++i < byteLength && (mul *= 0x100)) {\nthis[offset + i] = (value / mul) & 0xFF\n}\n\nreturn offset + byteLength\n}

Buffer.prototype.writeIntLE = function writeIntLE (value, offset, byteLength, noAssert) {\n\nvalue = +value\noffset = offset | 0\nbyteLength = byteLength | 0\nif (!noAssert) {\nvar varMaxBytes = Math.pow(2, 8 * byteLength) - 1\n
checkInt(this, value, offset, byteLength, maxBytes, 0)\n\nvar i var = byteLength - 1\nvar var mul = 1\nthis[offset + i] = value & 0xFF\nwhile (-i >= 0 && (mul *= 0x100)) {\nthis[offset + i] = (value / mul) & 0xFF\n}\n\nreturn offset + byteLength\n}

Buffer.prototype.writeIntBE = function writeIntBE (value, offset, byteLength, noAssert) {\n\nvalue = +value\noffset = offset | 0\nbyteLength = byteLength | 0\nif (!noAssert) {\nvar varMaxBytes = Math.pow(2, 8 * byteLength) - 1\n
checkInt(this, value, offset, byteLength, maxBytes, 0)\n\nvar var mul = 1\nvar i = 0\nthis[offset] = value & 0xFF\nwhile (++i < byteLength && (mul *= 0x100)) {\nthis[offset + i] = (value / mul) & 0xFF\n}\n\nreturn offset + byteLength\n}

Buffer.prototype.writeInt8 = function writeInt8 (value, offset, noAssert) {\n\nvalue = +value\noffset = offset | 0\nif (!noAssert) checkInt(this, value, offset, 1, 0xff, 0)\n\nif (!Buffer.TYPED_ARRAY_SUPPORT) value = Math.floor(value)\nthis[offset] = (value & 0xff)\n\nreturn offset + 1\n}

Buffer.prototype.writeInt16LE = function writeInt16LE (value, offset, noAssert) {\n\nvalue = +value\noffset = offset | 0\nif (!noAssert) {\nvar varMaxBytes = Math.pow(2, 8 * byteLength) - 1\n
checkInt(this, value, offset, byteLength, maxBytes, 0)\n\nvar var mul = 1\nvar i = 0\nthis[offset] = value & 0xff\nthis[offset + 1] = (value >> 8) & 0xff\n}\n\nreturn offset + 2\n}

Buffer.prototype.writeInt16BE = function writeInt16BE (value, offset, noAssert) {\n\nvalue = +value\noffset = offset | 0\nif (!noAssert) {\nvar varMaxBytes = Math.pow(2, 8 * byteLength) - 1\n
checkInt(this, value, offset, byteLength, maxBytes, 0)\n\nvar var mul = 1\nvar i = 0\nthis[offset] = value & 0xff\nthis[offset + 1] = (value >> 8) & 0xff\n}\n\nreturn offset + 2\n}

Buffer.prototype.writeInt32LE = function writeInt32LE (value, offset, noAssert) {\n\nvalue = +value\noffset = offset | 0\nif (!noAssert) {\nvar varMaxBytes = Math.pow(2, 8 * byteLength) - 1\n
checkInt(this, value, offset, byteLength, maxBytes, 0)\n\nvar var mul = 1\nvar i = 0\nthis[offset] = value & 0xff\nthis[offset + 1] = (value >> 8) & 0xff\nthis[offset + 2] = (value >> 16) & 0xff\nthis[offset + 3] = (value >> 24) & 0xff\n}\n\nreturn offset + 4\n}

Buffer.prototype.writeInt32BE = function writeInt32BE (value, offset, noAssert) {\n\nvalue = +value\noffset = offset | 0\nif (!noAssert) {\nvar varMaxBytes = Math.pow(2, 8 * byteLength) - 1\n
checkInt(this, value, offset, byteLength, maxBytes, 0)\n\nvar var mul = 1\nvar i = 0\nthis[offset] = value & 0xff\nthis[offset + 1] = (value >> 8) & 0xff\nthis[offset + 2] = (value >> 16) & 0xff\nthis[offset + 3] = (value >> 24) & 0xff\n}\n\nreturn offset + 4\n}
& & sub <= 0 & & this[offset + i + 1] != 0) { \n    sub = 1 \n  } \n  this[offset + i] = ((value / mul) >> 0) - sub & 0xFF \n} \n
```
return offset + byteLength \n
```

```
Buffer.prototype.writeInt8 = function writeInt8(value, offset, noAssert) {
  value = +value
  offset = offset | 0
  if (!noAssert) checkInt(this, value, offset, 1, 0x7f, -0x80) \n  if (!Buffer.TYPED_ARRAY_SUPPORT) { \n    sub = value == 0 ? 0 : sub || 0 \n    sub = value + sub \n    value = value - sub; \n    sub = Math.floor(value) \n  } \n  this[offset] = ((value / mul) >> 0) - sub & 0xFF \n  return offset + 1 \n}
```

```
Buffer.prototype.writeInt16LE = function writeInt16LE(value, offset, noAssert) {
  value = +value
  offset = offset | 0
  if (!noAssert) checkInt(this, value, offset, 2, 0x7fff, -0x8000) \n  if (Buffer.TYPED_ARRAY_SUPPORT) { \n    this[offset] = (value & 0xff)
    this[offset + 1] = (value >>> 8) \n  } else { \n    objectWriteUInt16(this, value, offset, true) \n  } \n  return offset + 2 \n}
```

```
Buffer.prototype.writeInt16BE = function writeInt16BE(value, offset, noAssert) {
  value = +value
  offset = offset | 0
  if (!noAssert) checkInt(this, value, offset, 2, 0x7fff, -0x8000) \n  if (!Buffer.TYPED_ARRAY_SUPPORT) { \n    this[offset] = (value >>> 8)
    this[offset + 1] = (value & 0xff) \n  } else { \n    objectWriteUInt16(this, value, offset, false) \n  } \n  return offset + 2 \n}
```

```
Buffer.prototype.writeInt32LE = function writeInt32LE(value, offset, noAssert) {
  value = +value
  offset = offset | 0
  if (!noAssert) checkInt(this, value, offset, 4, 0x7fffffff, -0x80000000) \n  if (Buffer.TYPED_ARRAY_SUPPORT) { \n    this[offset] = (value & 0xff)
    this[offset + 1] = (value >>> 8)
    this[offset + 2] = (value >>> 16)
    this[offset + 3] = (value >>> 24) \n  } else { \n    objectWriteUInt32(this, value, offset, true) \n  } \n  return offset + 4 \n}
```

```
Buffer.prototype.writeInt32BE = function writeInt32BE(value, offset, noAssert) {
  value = +value
  offset = offset | 0
  if (!noAssert) checkInt(this, value, offset, 4, 0x7fffffff, -0x80000000) \n  if (value < 0) value = 0xffffffff + value + 1 \n  if (Buffer.TYPED_ARRAY_SUPPORT) { \n    this[offset] = (value >>> 24)
    this[offset + 1] = (value >>> 16)
    this[offset + 2] = (value >>> 8)
    this[offset + 3] = (value & 0xff) \n  } else { \n    objectWriteUInt32(this, value, offset, false) \n  } \n  return offset + 4 \n}
```

```
function checkIEEE754(buf, value, offset, ext, max, min) {
  if (offset + ext > buf.length) throw new RangeError('Index out of range') \n  if (offset < 0) throw new RangeError('Index out of range') \n}
```

```
function writeFloat(buf, value, offset, littleEndian, noAssert) {
  if (!noAssert) { \n    checkIEEE754(buf, value, offset, 4, 3.4028234663852886e+38, -3.4028234663852886e+38) \n  }
  ieee754.write(buf, value, offset, littleEndian, 23, 4) \n  return offset + 4 \n}
```

```
Buffer.prototype.writeFloatLE = function writeFloatLE(value, offset, noAssert) {
  return writeFloat(this, value, offset, true, noAssert)
}
```

```
Buffer.prototype.writeFloatBE = function writeFloatBE(value, offset, noAssert) {
  return writeFloat(this, value, offset, false, noAssert)
}
```

```
function writeDouble(buf, value, offset, littleEndian, noAssert) {
  if (!noAssert) { \n    checkIEEE754(buf, value, offset, 8, 1.7976931348623157E+308, -1.7976931348623157E+308) \n  }
  ieee754.write(buf, value, offset, littleEndian, 52, 8) \n  return offset + 8 \n}
```

```
Buffer.prototype.writeDoubleLE = function writeDoubleLE(value, offset, noAssert) {
  return writeDouble(this, value, offset, true, noAssert) \n}
```

```
Buffer.prototype.writeDoubleBE = function writeDoubleBE(value, offset, noAssert) {
  return writeDouble(this, value, offset, false, noAssert) \n}
```

```
Buffer.prototype.fill = function fill(value, start, end, encoding) {
  // Handle string cases:
  if (typeof value === 'string') {
    if (typeof start ===
```
specialized version of `baseGetTag` which ignores `Symbol.toStringTag` values.

```javascript
var return
```
@private\n * @param {Function} callback The function to combine each word.\n * @returns {Function} Returns
the new compounder function.\n */\nfunction createCompounder(callback) {\n return function(string) {\n return
arrayReduce(words(deburr(string).replace(reApos, '')), callback, '');\n };\n}\n\nmodule.exports =
createCompounder;\n","var deburrLetter = require('./_deburrLetter'),\n toString = require('./toString');\n\n/** Used
to match Latin Unicode letters (excluding mathematical operators). */\nvar reLatin = /[\\xc0-\\xd6\\xd8-\\xf6\\xf8\\xff\\u0100-\\u017f]/g;\n\n/** Used to compose unicode character classes. */\nvar rsComboMarksRange =
'\\\\u0300-\\\\u036f',\n reComboHalfMarksRange = '\\\\ufe20-\\\\ufe2f',\n rsComboSymbolsRange = '\\\\u20d0\\\\u20ff',\n rsComboRange = rsComboMarksRange + reComboHalfMarksRange +
rsComboSymbolsRange;\n\n/** Used to compose unicode capture groups. */\nvar rsCombo = '[' + rsComboRange +
']';\n\n/**\n * Used to match [combining diacritical
marks](https://en.wikipedia.org/wiki/Combining_Diacritical_Marks) and\n * [combining diacritical marks for
symbols](https://en.wikipedia.org/wiki/Combining_Diacritical_Marks_for_Symbols).\n */\nvar reComboMark =
RegExp(rsCombo, 'g');\n\n/**\n * Deburrs `string` by converting\n * [Latin-1
Supplement](https://en.wikipedia.org/wiki/Latin-1_Supplement_(Unicode_block)#Character_table)\n * and [Latin
Extended-A](https://en.wikipedia.org/wiki/Latin_Extended-A)\n * letters to basic Latin letters and removing\n *
[combining diacritical marks](https://en.wikipedia.org/wiki/Combining_Diacritical_Marks).\n *\n * @static\n *
@memberOf _\n * @since 3.0.0\n * @category String\n * @param {string} [string=''] The string to deburr.\n *
@returns {string} Returns the deburred string.\n * @example\n *\n * _.deburr('déjà vu');\n * // => 'deja vu'\n
*/\nfunction deburr(string) {\n string = toString(string);\n return string && string.replace(reLatin,
deburrLetter).replace(reComboMark, '');\n}\n\nmodule.exports = deburr;\n","var basePropertyOf =
require('./_basePropertyOf');\n\n/** Used to map Latin Unicode letters to basic Latin letters. */\nvar deburredLetters
= {\n // Latin-1 Supplement block.\n '\\xc0': 'A', '\\xc1': 'A', '\\xc2': 'A', '\\xc3': 'A', '\\xc4': 'A', '\\xc5': 'A',\n '\\xe0':
'a', '\\xe1': 'a', '\\xe2': 'a', '\\xe3': 'a', '\\xe4': 'a', '\\xe5': 'a',\n '\\xc7': 'C', '\\xe7': 'c',\n '\\xd0': 'D', '\\xf0': 'd',\n '\\xc8':
'E', '\\xc9': 'E', '\\xca': 'E', '\\xcb': 'E',\n '\\xe8': 'e', '\\xe9': 'e', '\\xea': 'e', '\\xeb': 'e',\n '\\xcc': 'I', '\\xcd': 'I', '\\xce': 'I',
'\\xcf': 'I',\n '\\xec': 'i', '\\xed': 'i', '\\xee': 'i', '\\xef': 'i',\n '\\xd1': 'N', '\\xf1': 'n',\n '\\xd2': 'O', '\\xd3': 'O', '\\xd4': 'O',
'\\xd5': 'O', '\\xd6': 'O', '\\xd8': 'O',\n '\\xf2': 'o', '\\xf3': 'o', '\\xf4': 'o', '\\xf5': 'o', '\\xf6': 'o', '\\xf8': 'o',\n '\\xd9': 'U',
'\\xda': 'U', '\\xdb': 'U', '\\xdc': 'U',\n '\\xf9': 'u', '\\xfa': 'u', '\\xfb': 'u', '\\xfc': 'u',\n '\\xdd': 'Y', '\\xfd': 'y', '\\xff': 'y',\n
'\\xc6': 'Ae', '\\xe6': 'ae',\n '\\xde': 'Th', '\\xfe': 'th',\n '\\xdf': 'ss',\n // Latin Extended-A block.\n '\\u0100': 'A',
'\\u0102': 'A', '\\u0104': 'A',\n '\\u0101': 'a', '\\u0103': 'a', '\\u0105': 'a',\n '\\u0106': 'C', '\\u0108': 'C', '\\u010a': 'C',
'\\u010c': 'C',\n '\\u0107': 'c', '\\u0109': 'c', '\\u010b': 'c', '\\u010d': 'c',\n '\\u010e': 'D', '\\u0110': 'D', '\\u010f': 'd',
'\\u0111': 'd',\n '\\u0112': 'E', '\\u0114': 'E', '\\u0116': 'E', '\\u0118': 'E', '\\u011a': 'E',\n '\\u0113': 'e', '\\u0115': 'e',
'\\u0117': 'e', '\\u0119': 'e', '\\u011b': 'e',\n '\\u011c': 'G', '\\u011e': 'G', '\\u0120': 'G', '\\u0122': 'G',\n '\\u011d': 'g',
'\\u011f': 'g', '\\u0121': 'g', '\\u0123': 'g',\n '\\u0124': 'H', '\\u0126': 'H', '\\u0125': 'h', '\\u0127': 'h',\n '\\u0128': 'I',
'\\u012a': 'I', '\\u012c': 'I', '\\u012e': 'I', '\\u0130': 'I',\n '\\u0129': 'i', '\\u012b': 'i', '\\u012d': 'i', '\\u012f': 'i', '\\u0131':
'i',\n '\\u0134': 'J', '\\u0135': 'j',\n '\\u0136': 'K', '\\u0137': 'k', '\\u0138': 'k',\n '\\u0139': 'L', '\\u013b': 'L', '\\u013d':
'L', '\\u013f': 'L', '\\u0141': 'L',\n '\\u013a': 'l', '\\u013c': 'l', '\\u013e': 'l', '\\u0140': 'l', '\\u0142': 'l',\n '\\u0143': 'N',
'\\u0145': 'N', '\\u0147': 'N', '\\u014a': 'N',\n '\\u0144': 'n', '\\u0146': 'n', '\\u0148': 'n', '\\u014b': 'n',\n '\\u014c': 'O',
'\\u014e': 'O', '\\u0150': 'O',\n '\\u014d': 'o', '\\u014f': 'o', '\\u0151': 'o',\n '\\u0154': 'R', '\\u0156': 'R', '\\u0158': 'R',\n
'\\u0155': 'r', '\\u0157': 'r', '\\u0159': 'r',\n '\\u015a': 'S', '\\u015c': 'S', '\\u015e': 'S', '\\u0160': 'S',\n '\\u015b': 's',
'\\u015d': 's', '\\u015f': 's', '\\u0161': 's',\n '\\u0162': 'T', '\\u0164': 'T', '\\u0166': 'T',\n '\\u0163': 't', '\\u0165': 't',
'\\u0167': 't',\n '\\u0168': 'U', '\\u016a': 'U', '\\u016c': 'U', '\\u016e': 'U', '\\u0170': 'U', '\\u0172': 'U',\n '\\u0169': 'u',
'\\u016b': 'u', '\\u016d': 'u', '\\u016f': 'u', '\\u0171': 'u', '\\u0173': 'u',\n '\\u0174': 'W', '\\u0175': 'w',\n '\\u0176': 'Y',
'\\u0177': 'y', '\\u0178': 'Y',\n '\\u0179': 'Z', '\\u017b': 'Z', '\\u017d': 'Z',\n '\\u017a': 'z', '\\u017c': 'z', '\\u017e': 'z',\n
'\\u0132': 'IJ', '\\u0133': 'ij',\n '\\u0152': 'Oe', '\\u0153': 'oe',\n '\\u0149': \"'n\", '\\u017f': 's'\n};\n\n/**\n * Used by
`_.deburr` to convert Latin-1 Supplement and Latin Extended-A\n * letters to basic Latin letters.\n *\n * @private\n
* @param {string} letter The matched letter to deburr.\n * @returns {string} Returns the deburred letter.\n */\nvar
deburrLetter = basePropertyOf(deburredLetters);\n\nmodule.exports = deburrLetter;\n","/**\n * The base
implementation of `_.propertyOf` without support for deep paths.\n *\n * @private\n * @param {Object} object The

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object to query.\n* @returns {Function} Returns the new accessor function.\n*/function basePropertyOf(object)\n  {\n    return function(key) {\n      return object == null ? undefined : object[key];\n    }\n  }\n
module.exports = basePropertyOf;

var asciiWords = require('./_asciiWords'),\n    hasUnicodeWord = require('./_hasUnicodeWord'),\n    toString = require('./toString'),\n    unicodeWords = require('./_unicodeWords');\n
/**\n * Splits `string` into an array of its words.\n * @returns {Array} Returns the new accessor function.\n */\nfunction basePropertyOf(object)\n  {\n    return function(key) {\n      return object == null ? undefined : object[key];\n    }\n  }\n
module.exports = basePropertyOf;

var asciiWords = require('./_asciiWords'),\n    hasUnicodeWord = require('./_hasUnicodeWord'),\n    toString = require('./toString'),\n    unicodeWords = require('./_unicodeWords');\n
/**\n * Splits `string` into an array of its words.\n * @returns {Array} Returns the new accessor function.\n */\nfunction basePropertyOf(object)\n  {\n    return function(key) {\n      return object == null ? undefined : object[key];\n    }\n  }\n
module.exports = basePropertyOf;

var asciiWords = require('./_asciiWords'),\n    hasUnicodeWord = require('./_hasUnicodeWord'),\n    toString = require('./toString'),\n    unicodeWords = require('./_unicodeWords');\n
/**\n * Splits `string` into an array of its words.\n * @returns {Array} Returns the new accessor function.\n */\nfunction basePropertyOf(object)\n  {\n    return function(key) {\n      return object == null ? undefined : object[key];\n    }\n  }\n
module.exports = basePropertyOf;
rsOptContrUpper, \n rsOrdUpper, \n rsOrdLower, \n rsDigits, \n rsEmoji, \n join(''), 'g');\n\n/* * Splits a Unicode `string` into an array of its words.* 
 * @function unicodeWords
 * @param {string} The string to inspect.
 * @returns {Array} Returns the words of `string`.
 */

var ListCache = require('./_ListCache'),
    Map = require('./_Map');\n\nMap.prototype.get = require('./_hashGet'),\nMap.prototype.set = require('./_hashSet');\nMap.prototype.delete = require('./_hashDelete');\nhashGet = require('./_hashGet'),\nhashHas = require('./_hashHas'),\nhashSet = require('./_hashSet');\nMap.prototype.forEach = function mapCacheClear() {
  this.size = 0;
  this.__data__ = {
    'hash': new Hash,
    'map': new (Map || ListCache),
    'string': new Hash
  };
};\n\nmodule.exports = mapCacheClear;

/*
 * Creates a hash object.
 * @param {Object} [entries] The key-value pairs to cache.
 * @returns {Object} Returns the hash object.
 */

function Hash(entries) {
  var index = -1,
      length = entries == null ? 0 : entries.length;

  this.clear();
  while (++index < length) {
    var entry = entries[index];
    this.set(entry[0], entry[1]);
  }
}

// Add methods to `Hash`.
Hash.prototype.clear = hashClear;
Hash.prototype['delete'] = hashDelete;
Hash.prototype.get = hashGet;
Hash.prototype.has = hashHas;
Hash.prototype.set = hashSet;

module.exports = Hash;

var coreJsData = require('./_coreJsData');\n\n/*
 * The base implementation of `_.isNative` without bad shim checks.
 * @param {Function} func The function to check.
 * @returns {boolean} Returns `true` if `func` is a native function,
 * else `false`.
 */

function baseIsNative(func) {
  if (!isObject(func) || isMasked(func)) {
    return false;
  }
  var pattern = funcToString.call(hasOwnProperty).replace(reRegExpChar, '\\$&').
    replace(/hasOwnProperty|(function).*?(?=\\\()| for .+?(?=\\\])/g, '$1.*?') + '$';
  return func == nativeCreate ? nativeCreate : reIsNative.test(toSource(func));
}

module.exports = baseIsNative;

var coreJsData = root['__core-js_shared__'];\n\nmodule.exports = coreJsData;\n
function getOwnPropertyDescriptor(object, property) {
  var result = object && object['__isNative']
    ? badShimInheritanceCheck(object, property)
    : object['__isNative']
      ? object['__getOwnPropertyDescriptor'](object, property)
      : object['__getOwnPropertyDescriptor'](null, property);
  if (result === undefined)
    return result;

  //URA
Object.prototype

/**
 * Gets the hash value for 'key'.
 *
 * @param {string} key
 * @returns {null}
 */
function hashGet(key) {
  var data = this._data_;
  if (nativeCreate) {
    var result = data[key];
    return result;
  }
  return hasOwnProperty.call(data, key) ? data[key] : undefined;
}

module.exports = hashGet;

var nativeCreate = require('./_nativeCreate');

/**
 * Checks if a hash value for 'key'
 * exists.
 *
 * @param {string} key
 * @returns {null}
 */
function hashHas(key) {
  var data = this._data_;
  return nativeCreate ? data[key] !== undefined : hasOwnProperty.call(data, key);
}

module.exports = hashHas;

/**
 * Sets the hash 'key' to 'value'.
 *
 * @param {string} key
 * @param {*} value
 * @returns {null}
 */
function hashSet(key, value) {
  var data = this._data_,
      index = assocIndexOf(data, key);

  if (index < 0) {
    ++this.size;
    data.push([key, value]);
  } else {
    data[index][1] = value;
  }
  return this;
}

module.exports = hashSet;

var assocIndexOf = require('./_assocIndexOf');

/**
 * Removes all key-value entries from the list cache.
 *
 * @returns {null}
 */
function listCacheClear() {
  this._data_ = [];
  this.size = 0;
}

module.exports = listCacheClear;

var assocIndexOf = require('./_assocIndexOf');

/**
 * Removes 'key' and its value from the list cache.
 *
 * @returns {null}
 */
function listCacheDelete(key) {
  var data = this._data_,
      index = assocIndexOf(data, key);

  if (index < 0) {
    return false;
  }
  var lastIndex = data.length - 1;
  if (index == lastIndex) {
    data.pop();
  } else {
    splice.call(data, index, 1);
  }
  --this.size;
  return true;
}

module.exports = listCacheDelete;

var assocIndexOf = require('./_assocIndexOf');

/**
 * Gets the list cache value for 'key'.
 *
 * @returns {null}
 */
function listCacheGet(key) {
  var data = this._data_,
      index = assocIndexOf(data, key);

  return index < 0 ? undefined : data[index][1];
}

module.exports = listCacheGet;

var assocIndexOf = require('./_assocIndexOf');

/**
 * Checks if a list cache value for 'key'
 * exists.
 *
 * @returns {null}
 */
function listCacheHas(key) {
  return assocIndexOf(this._data_, key) > -1;
}

module.exports = listCacheHas;

var assocIndexOf = require('./_assocIndexOf');

/**
 * Sets the list cache 'key' to 'value'.
 *
 * @param {string} key
 * @returns {null}
 */
function listCacheSet(key, value) {
  var data = this._data_,
      index = assocIndexOf(data, key);

  if (index < 0) {
    var assocIndexOf = require('./_assocIndexOf');
  }
  return value;
}

module.exports = listCacheSet;

var assocIndexOf = require('./_assocIndexOf');

/**
 * Removes 'key' and its value from the map.
 *
 * @returns {null}
 */
function mapCacheDelete(key) {
  var data = this._data_,
      index = assocIndexOf(data, key);

  return index < 0 ? undefined : data[index][1];
}

module.exports = mapCacheGet;

var assocIndexOf = require('./_assocIndexOf');

/**
 * Checks if a map cache value for 'key'
 * exists.
 *
 * @returns {null}
 */
function mapCacheHas(key) {
  return assocIndexOf(this._data_, key) > -1;
}

module.exports = mapCacheHas;

var assocIndexOf = require('./_assocIndexOf');

/**
 * Sets the map cache 'key' to 'value'.
 *
 * @param {string} key
 * @returns {null}
 */
function mapCacheSet(key, value) {
  var data = this._data_,
      index = assocIndexOf(data, key);

  if (index < 0) {
    var assocIndexOf = require('./_assocIndexOf');
  }
  return value;
}

module.exports = mapCacheSet;

var assocIndexOf = require('./_assocIndexOf');

/**
 * Checks if 'value' is suitable for use as unique object key.
 *
 * @returns {null}
 */
function uniqueObjectKey(value) {
  return value !== null;
}

module.exports = uniqueObjectKey;
isKeyable;
"var getMapData = require('./_getMapData');

/**
 * Gets the map value for `key`.
 *
 *
 * @name get
 * @memberOf MapCache
 * @param {string} key The key of the value to get.
 * @returns {Function} Returns the entry value.
 */
function mapCacheGet(key) {
  return getMapData(this, key).get(key);
}

module.exports = mapCacheGet;

/**
 * Checks if a map value for `key` exists.
 *
 * @name has
 * @memberOf MapCache
 * @param {string} key The key of the value to set.
 * @returns {Function} Returns the new find function.
 */
function mapCacheHas(key) {
  return getMapData(this, key).has(key);
}

module.exports = mapCacheHas;

/**
 * Sets the map `key` to `value`.
 *
 *
 * @name set
 * @memberOf MapCache
 * @param {string} key The key of the value to set.
 * @param {*} value The value to set.
 * @returns {Object} Returns the map cache instance.
 */
function mapCacheSet(key, value) {
  var data = getMapData(this, key),
      size = data.size;

  data.set(key, value);

  this.size += data.size == size ? 0 : 1;
  return this;
}

module.exports = mapCacheSet;

var baseIteratee = require('./_baseIteratee'),
    isArrayLike = require('./isArrayLike'),
    keys = require('./keys');

/**
 * Create a `_.find` or `_.findLast` function.
 *
 * @param {Function} findIndexFunc The function to find the collection index.
 * @returns {Function} Returns the new find function.
 */
function createFind(findIndexFunc) {
  return function(collection, predicate, fromIndex) {
    var iterable = Object(collection);
    if (!isArrayLike(collection)) {
      var iteratee = baseIteratee(predicate, 3);
      collection = keys(collection);
      predicate = function(key) { return iteratee(iterable[key], key, iterable); };
    }
    var index = findIndexFunc(collection, predicate, fromIndex);
  }
}

module.exports = createFind;

var baseIsMatch = require('./_baseIsMatch'),
    getMatchData = require('./_getMatchData'),
    matchesStrictComparable = require('./_matchesStrictComparable');

/**
 * The base implementation of `_.isMatch` without support for iteratee shorthands.
 *
 * @private
 * @param {Object} object The object to inspect.
 * @param {Object} source The object of property values to match.
 * @param {Array} matchData The property names, values, and compare flags to match.
 * @param {Function} [customizer] The function to customize comparisons.
 * @returns {boolean} Returns `true` if `object` is a match, else `false`.
 */
function baseIsMatch(object, source, matchData, customizer) {
  var index = matchData.length,
      length = index,
      noCustomizer = !customizer;

  if (object == null) {
    return !length;
  }
  object = Object(object);
  while (index--) {
    var data = matchData[index];
    if ((noCustomizer && data[2])
          ? data[1] !== object[data[0]]
          : !(data[0] in object)) {
      return false;
    }
  }
  while (++index < length) {
    var key = data[0],
        objValue = object[key],
        srcValue = data[1],
        stack = new Stack;

    if (noCustomizer && data[2]) {
      if (objValue === undefined) {
        return false;
      } else {
        var stack = new Stack;
        if (customizer) {
          var result = customizer(objValue,
            srcValue, key, object, source, stack);
        }
      }
    }
  }
  return true;
}

module.exports = baseIsMatch;

var Stack = require('./_Stack'),
    baseIsEqual = require('./_baseIsEqual');

/**
 * Removes all index-value pairs from the stack.
 *
 * @name clear
 * @memberOf Stack
 */
function stackClear() {
  this.__data__ = new ListCache;
  this.size = 0;
}

module.exports = stackClear;

/**
 * Removes `key` and its value from the stack.
 *
 * @name delete
 * @memberOf Stack
 * @param {string} key The key of the value to remove.
 * @returns {boolean} Returns `true` if the entry was removed, else `false`.
 */
function stackDelete(key) {
  var data =
this.__data__.result = data['delete'][(key)];

return result;

module.exports = stackDelete;

/**
 * Removes the stack entry for `key`.
 *
 * @private
 * @name delete
 * @memberOf Stack
 *
 * @param {string} key The key of the value to remove.
 * @returns {Object} Returns the removed value.
 */
function stackDelete(key) {
  var result = this.__data__['delete'](key);

  this.size = this.__data__.size;
  return result;
}

module.exports = stackDelete;

/**
 * Gets the stack value for `key`.
 *
 * @private
 * @name get
 * @memberOf Stack
 *
 * @param {string} key The key of the value to get.
 * @returns {*} Returns the value.
 */
function stackGet(key) {
  return this.__data__['get'](key);
}

module.exports = stackGet;

/**
 * Checks if a stack value for `key` exists.
 *
 * @private
 * @name has
 * @memberOf Stack
 *
 * @param {string} key The key of the value to check.
 * @returns {boolean} Returns `true` if the key exists, else `false`.
 */
function stackHas(key) {
  return this.__data__['has'](key);
}

module.exports = stackHas;

var ListCache = require('./_ListCache'),
    Map = require('./_Map'),
    MapCache = require('./_MapCache');

/** Used as the size to enable large array optimizations. */
var LARGE_ARRAY_SIZE = 200;

/**
 * Sets the stack `key` to `value`.
 *
 * @private
 * @name set
 * @memberOf Stack
 *
 * @param {string} key The key of the value to set.
 * @param {*} value The value to set.
 * @returns {Object} Returns the stack cache instance.
 */
function stackSet(key, value) {
  var data = this.__data__;
  if (data instanceof ListCache) {
    var pairs = data.__data__;
    if (!Map || (pairs.length < LARGE_ARRAY_SIZE - 1)) {
      pairs.push([key, value]);
      this.size = ++data.size;
      return this;
    }
    data = this.__data__ = new MapCache(pairs);
  }
  data.set(key, value);
  this.size = data.size;
  return this;
}

module.exports = stackSet;

var Stack = require('./_Stack'),
    equalArrays = require('./_equalArrays'),
    equalByTag = require('./_equalByTag'),
    equalObjects = require('./_equalObjects'),
    getTag = require('./_getTag'),
    isArray = require('./isArray'),
    isBuffer = require('./isBuffer'),
    isTypedArray = require('./isTypedArray');

/** Used to compose bitmasks for value comparisons. */
var COMPARE_PARTIAL_FLAG = 1;

/** `Object#toString` result references. */
var argsTag = '[object Arguments]',
    arrayTag = '[object Array]',
    objectTag = '[object Object]';

/** Used for built-in method references. */
var objectProto = Object.prototype;

/** Used to check objects for own properties. */
var hasOwnProperty = objectProto.hasOwnProperty;

/**
 * A specialized version of `baseIsEqual` for arrays and objects which performs
 * deep comparisons and tracks traversed objects enabling objects with
 * circular referencess to be compared.
 *
 * @private
 * @param {Object} object The object to compare.
 * @param {Object} other The other object to compare.
 * @param {number} bitmask The bitmask flags. See
 * `baseIsEqual` for more details.
 * @param {Function} customizer The function to customize comparisons.
 * @param {Function} equalFunc The function to determine equivalents of values.
 * @param {Object} [stack] Tracks traversed `object` and `other` objects.
 * @returns {boolean} Returns `true` if the objects are equivalent,
 * else `false`.
 */
function baseIsEqualDeep(object, other, bitmask, customizer, equalFunc, stack) {
  var objIsArr = isArray(object),
      othIsArr = isArray(other),
      objTag = objIsArr ? arrayTag : getTag(object),
      othTag = othIsArr ? arrayTag : getTag(other);

  objTag = objTag == argsTag ? objectTag : objTag;
  othTag = othTag == argsTag ? objectTag : othTag;

  var objIsWrapped = objIsArr && hasOwnProperty.call(object, '__wrapped__'),
      othIsWrapped = othIsArr && hasOwnProperty.call(other, '__wrapped__');

  if (objIsWrapped || othIsWrapped) {
    var objUnwrapped = objIsWrapped ? object.value() : object,
        othUnwrapped = othIsWrapped ? other.value() : other;

    stack || (stack = new Stack);
    return equalFunc(objUnwrapped, othUnwrapped, bitmask, customizer, equalFunc, stack);
  }

  var objIsObj = objTag == objectTag,
      othIsObj = othTag == objectTag,
      isSameTag = objTag == othTag,
      objUnwrapped = objIsObj ? obj.value() : obj,
      othUnwrapped = othIsObj ? other.value() : other;

  stack || (stack = new Stack);
  return equalFunc(objUnwrapped, othUnwrapped, bitmask, customizer, stack);
}

module.exports = baseIsEqualDeep;

var MapCache = require('./_MapCache'),
    setCacheAdd = require('./_setCacheAdd'),
    setCacheHas = require('./_setCacheHas');

/**
 * Creates an array cache object to store unique values.
 *
 * @private
 * @constructor
 * @param {Array} [values] The values to cache.
 */
function SetCache(values) {
  var index = -1,
      length = values == null ? 0 : values.length;

  this.__data__ = new MapCache;
  while (++index < length) {
    this.add(values[index]);
  }
}

// Add methods to `SetCache`.
SetCache.prototype.add = SetCache.prototype.push =
setCacheAdd.prototype.has = setCacheHas.prototype.has;

module.exports = SetCache;

/**
 * Checks if `value` is the same as `other` under a `toStringTag`.
 *
 * @private
 * @param {Object} object The object to compare.
 * @param {Object} other The other object to compare.
 * @param {string} tag The `toStringTag` of objects to compare.
 * @param {number} bitmask The bitmask flags.
 * @param {Function} customizer The function to customize comparisons.
 * @param {Function} equalFunc The path to function with support for partials.
 * @returns {boolean} Returns `true` if the objects are equivalent, else `false`.
 */
function equalByTag(object, other, tag, bitmask, customizer, equalFunc, stack) {
  var symbolProto = Symbol ? Symbol.prototype : undefined,
      symbolValueOf = symbolProto ? symbolProto.valueOf : undefined;

  // Compare symbols of `object` and `other` for equality.
  if (symbolValueOf)
    return symbolValueOf.call(object) == symbolValueOf.call(other);

  // Used to check indexes of `tag` properties on `Object` objects.
  var toStringTag = (object + '');

  // Compare plain object properties used to check `toStringTag` equality.
  if (toStringTag != toStringTag + '')
    return false;

  // Used to compare objects of the same `toStringTag`.
  return equalByTag(object, other, tag, bitmask, customizer, equalFunc, stack);
}

module.exports = equalByTag;
key) {
    result[++index] = [key, value];
  });
  return result;
}

module.exports = mapToArray;

/**
 * Converts `set` to an array of its values.
 * @private
 * @param {Object} set The object to convert.
 * @returns {Array} Returns the values.
 */
function setToArray(set) {
  var index = -1,
      result = Array(set.size);

  set.forEach(function(value) {
    result[++index] = value;
  });
  return result;
}

module.exports = setToArray;

var getAllKeys = require('./_getAllKeys');

/**
 * A specialized version of `_.clone` for objects with support for
 * partial deep comparisons.
 * @private
 * @param {Object} object The object to compare.
 * @param {Function} customizer The function to customize comparisons.
 * @returns {Object} Returns the new object.
 */
equalObjects = function(object, other, bitmask, customizer, equalFunc, stack) {
  var isPartial = bitmask & COMPARE_PARTIAL_FLAG,
      objProps = getAllKeys(object),
      objLength = objProps.length,
      othProps = getAllKeys(other),
      othLength = othProps.length,
      index = -1,
      length = objLength,
      resIndex = 0,
      result = Array(length);

  while (++index < length) {
    var key = objProps[index],
        objValue = object[key],
        othValue = other[key];

    if (customizer) {
      var compared = isPartial
        ? customizer(othValue, objValue, key, other, object, stack)
        : customizer(objValue, othValue, key, object, other, stack);
    }
    // Recursively compare objects (susceptible to call stack limits).
    if (compared === undefined
        ? (objValue === othValue || equalFunc(objValue, othValue, bitmask, customizer, stack))
        : compared
      ) {
      result[resIndex++] = objValue;
    } else {
      return false;
    }
  }
  return result;
}

module.exports = equalObjects;

/**
 * The base implementation of `_.filter` without support for iteratee shorthands.
 * @private
 * @param {Array} array The array to iterate over.
 * @param {Function} predicate The function invoked per iteration.
 * @returns {Array} Returns the new filtered array.
 */
function arrayFilter(array, predicate) {
  var index = -1,
      length = array == null ? 0 : array.length,
      resIndex = 0,
      result = Array(length);

  while (++index < length) {
    var value = array[index];
    if (predicate(value, index, array)) {
      result[resIndex++] = value;
    }
  }
  return result;
}

module.exports = arrayFilter;

/**
 * The base implementation of `_.times` without support for iteratee shorthands.
 * @private
 * @param {number} n The number of times to invoke `iteratee`.
 * @param {Function} iteratee The function invoked per iteration.
 * @returns {Array} Returns the new array.
 */
function baseTimes(n, iteratee) {
  var index = -1,
      result = Array(n);

  while (++index < n) {
    result[index] = iteratee(index);
  }
  return result;
}

module.exports = baseTimes;

var baseGetTag = require('./_baseGetTag'),
    isObjectLike = require('./isObjectLike');

/**
 * The base implementation of `_.isArguments`.
 * @private
 * @param {*} value The value to check.
 * @returns {boolean} Returns `true` if `value` is an `arguments` object,
 */
function baseIsArguments(value) {
  return isObjectLike(value) && baseGetTag(value) == argsTag;
}

module.exports = baseIsArguments;

/**
 * This method returns `false`.
 * @static
 * @memberOf _
 * @since 4.13.0
 * @category Util
 * @returns {boolean} Returns `false`.
 */
function stubFalse() {
  return false;
}

module.exports = stubFalse;
The base implementation of `_.matchesProperty` which doesn't clone `srcValue`.

```javascript
function baseMatchesProperty(path, srcValue) {
  if (isKey(path) && isStrictComparable(srcValue)) {
    return matchesStrictComparable(toKey(path), srcValue);
  }
  return function(object) {
    var objValue = get(object, path);
    return (objValue === undefined && objValue === srcValue)
      ? hasIn(object, path)
      : baseIsEqual(srcValue, objValue, COMPARE_PARTIAL_FLAG | COMPARE_UNORDERED_FLAG);
  };
}
```

```javascript
module.exports = baseMatchesProperty;
```

```javascript
var memoizeCapped = require('./_memoizeCapped');

/** Used as the maximum memoize cache size. */
var MAX_MEMOIZE_SIZE = 500;

/**
 * A specialized version of `_.memoize` which clears the memoized function's
 * cache when it exceeds `MAX_MEMOIZE_SIZE`.
 *
 * @private
 * @param {Function} func The function to have its output memoized.
 * @returns {Function} Returns the new memoized function.
 */
function memoizeCapped(func) {
  var result = memoize(func, function(key) {
    if (cache.size === MAX_MEMOIZE_SIZE) {
      cache.clear();
    }
    return key;
  });
  var cache = result.cache;
  return result;
}
```

```javascript
var baseHasIn = require('./_baseHasIn'),
    hasPath = require('./_hasPath');

/**
 * Checks if `path` is a direct or inherited property of `object`.
 *
 * @static
 * @memberOf _
 * @since 4.0.0
 * @category Object
 * @param {Object} object The object to query.
 * @param {Array|string} path The path to check.
 * @returns {boolean} Returns `true` if `path` exists, else `false`.
 * @example
 *
 * var object = _.create({ 'a': _.create({ 'b': 2 }) });
 *
 * _.hasIn(object, 'a');
 * // => true
 *
 * _.hasIn(object, 'a.b');
 * // => true
 *
 * _.hasIn(object, ['a', 'b']);
 * // => true
 *
 * _.hasIn(object, 'b');
 * // => false
 */
function hasIn(object, path) {
  return object == null || hasPath(object, path, baseHasIn);
}
```

```javascript
function hasPath(object, path, hasFunc) {
  path = castPath(path, object);

  var index = -1,
      length = path.length,
      result = false;

  while (++index < length) {
    var key = toKey(path[index]);
    if (!(result = object != null && hasFunc(object, key))) {
      break;
    }
    object = object[key];
  }
  if (result || ++index != length) {
    return result;
  }
  length = object == null ? 0 : isLength(length) && isIndex(key, length) &&
    (isArray(object) || isArguments(object));
}
```

```javascript
var baseProperty = require('./_baseProperty'),
    basePropertyDeep = require('./_basePropertyDeep'),
    isKey = require('./_isKey'),
    toKey = require('./_toKey');

/**
 * Creates a function that returns the value at `path` of a given object.
 *
 * @static
 * @memberOf _
 * @since 2.4.0
 * @category Util
 * @param {Array|string} path The path of the property to get.
 * @returns {Function} Returns the new accessor function.
 * @example
 * _.property('a.b')
 * // returns function(object) {
 *     return object.a.b;
 *   }
 */
function property(path) {
  return isKey(path) ? baseProperty(toKey(path)) : basePropertyDeep(toKey(path));
}
```

```javascript
var castPath = require('./_castPath'),
    isArguments = require('./isArguments'),
    isArray = require('./isArray'),
    isIndex = require('./_isIndex'),
    isLength = require('./isLength'),
    toKey = require('./_toKey');

/**
 * The base implementation of 
```
The base implementation of `_.property` without support for deep paths.

```javascript
function baseProperty(key) {
  return function(object) {
    return object == null ? undefined : object[key];
  };
}

module.exports = baseProperty;
```

```javascript
var baseGet = require('./_baseGet');

/**
 * A specialized version of `baseProperty` which supports deep paths.
 *
 * @private
 * @param {Array|string} path The path of the property to get.
 * @returns {Function} Returns the new accessor function.
 */
function basePropertyDeep(path) {
  return function(object) {
    return baseGet(object, path);
  };
}

module.exports = basePropertyDeep;
```

```javascript
var baseFindIndex = require('./_baseFindIndex'),
    baseIteratee = require('./_baseIteratee'),
    toInteger = require('./toInteger');

/* Built-in method references for those with the same name as other `lodash` methods. */
var nativeMax = Math.max;

/**
 * This method is like `_.find` except that it returns the index of the first
 * element `predicate` returns truthy for instead of the element itself.
 *
 * @private
 * @param {number} [fromIndex=0] The index to search from.
 * @returns {number} Returns the index of the found element, else `-1`.
 */
function findIndex(array, predicate, fromIndex) {
  var length = array == null ? 0 : array.length,
      index = fromIndex == null ? 0 : toInteger(fromIndex);

  while (true) {
    if (predicate(array[index], index, array)) {
      return index;
    }
    index = nativeMax(index + 1, length);
  }
  return -1;
}

module.exports = findIndex;
```

```javascript
function baseFindIndex(array, predicate, fromIndex, fromRight) {
  var length = array == null ? 0 : array.length,
      index = fromIndex + (fromRight ? 1 : -1);

  while ((fromRight ? index-- : ++index < length)) {
    if (predicate(array[index], index, array)) {
      return index;
    }
  }
  return -1;
}

module.exports = baseFindIndex;
```

```javascript
var toFinite = require('./toFinite');

/**
 * Converts `value` to a finite number.
 *
 * @static
 * @memberOf _
 * @since 4.12.0
 * @category Lang
 * @param {*} value The value to convert.
 * @returns {number} Returns the converted number.
 * @example
 *
 * _.toFinite(3.2);
 * // => 3.2
 *
 * _.toFinite(Number.MIN_VALUE);
 * // => 5e-324
 */
function toFinite(value) {
  if (!value) {
    return value === 0 ? value : 0;
  }
  value = toNumber(value);
  if (value === INFINITY || value === -INFINITY) {
    value = 0;
  }
  return (value < 0 ? -1 : 1) * Math.abs(value);
}

module.exports = toFinite;
```

```javascript
var baseEach = require('./_baseEach');

/**
 * The base implementation of `_.some` without support for iteratee shorthands.
 *
 * @private
 * @param {Function} [predicate] The function invoked per iteration.
 * @returns {boolean} Returns `true` if any element passes the predicate test,
 * else `false`.
 */
function baseSome(array, predicate, index, collection)
```
@returns {boolean} Returns `true` if any element passes the predicate check. 

@function

baseSome(collection, predicate) { 
  var result;
  baseEach(collection, function(value, index, collection) { 
    result = predicate(value, index, collection);
    return result;
  });
  return !!result;
}

var createBaseFor = require('./_createBaseFor');

@returns {boolean} The base implementation of `baseForOwn` which iterates over `object` *properties* returned by `keysFunc` and invokes `iteratee` for each property. 

@returns {Object} The `Object` function may exit iteration early by explicitly returning `false`. 

@returns {object} 

Create a base function for methods like `_forIn` and `_forOwn`. 

baseForOwn(object, iteratee) { 
  return object && baseFor(object, iteratee, keys); 
}

module.exports = baseFor;

function createBaseFor(fromRight) { 
  return function(object, iteratee, keysFunc) { 
    var index = -1,
    iterable = Object(object),
    props = keysFunc(object),
    length = props.length;

    while (length--) { 
      var key = props[fromRight ? length : ++index];
      if (iteratee(iterable[key], key, iterable) === false) {
        break;
      }
    }
    return object;
  };
}

module.exports = createBaseFor;

function createBaseEach(fromRight) { 
  return function(collection, iteratee) { 
    if (collection == null) { 
      return collection;
    }
    if (!isArrayLike(collection)) { 
      return createBaseEach(collection, iteratee);
    }
    var length = collection.length,
    index = fromRight ? length : -1,
    iterable = Object(collection);

    while ((fromRight ? index-- : ++index < length)) { 
      if (iteratee(iterable[index], index, iterable) === false) { 
        break;
      }
    }
    return collection;
  };
}

module.exports = createBaseEach;

function isIterateeCall(value, index, object) { 
  if (!isObject(object)) { 
    return false;
  }
  var type = typeof index;
  if (type == 'number' 
        ? (isArrayLike(object) && isIndex(index, object.length))
        : (type == 'string' && index in object)) { 
    var eq = require('./eq'),
    isArrayLike = require('isArrayLike'),
    isObject = require('isObject'),
    isIndex = require('isIndex'),
    isString = require('isString'),
    objValue = object[index];
    if (eq(objValue, value)) { 
      return true;
    }
  }
  return false;
}

module.exports = isIterateeCall;
try {  // when somebody has screwed with setTimeout but no I.E. madness
  return cachedSetTimeout(fun, 0);
} catch(e) {
  try {  // When we are in I.E. but the script has been evalued
    return cachedSetTimeout.call(null, fun, 0);
  } catch(e) {  // same as above but when it's a version of I.E. that must have the global object for 'this',
    // hopefully our context correct otherwise it will throw a global error
    return cachedSetTimeout.call(this, fun, 0);
  }
}

function runClearTimeout(marker) {  // when somebody has screwed with setTimeout but no I.E. madness
  return cachedClearTimeout(marker);
} catch(e) {  // when we are in I.E. but the script has been evalued so I.E. doesn't trust the global object when called normally
    return cachedClearTimeout.call(this, marker);
} catch(e) {  // same as above but when it's a version of I.E. that must have the global object for 'this',
    // hopefully our context correct otherwise it will throw a global error
    return cachedClearTimeout.call(this, marker);
}

var queue = [];
var draining = false;
var currentQueue;
var queueIndex = -1;

function cleanUpNextTick() {  // when when somebody has screwed with setTimeout but no I.E. madness
    if (draining || currentQueue) {  // Some versions of I.E. have different rules for clearTimeout vs setTimeout
      return;
    }
    draining = true;

    var len = queue.length;
    while(len) {
      currentQueue = queue;
      queue = [];
      while (++queueIndex < len) {
        if (currentQueue) {
          currentQueue[queueIndex].run();
        }
      }
      len = queue.length;
    }
    currentQueue = null;
    draining = false;
    runClearTimeout(timeout);
}

process.nextTick = function (fun) {  // empty string to avoid regexp issues
    var args = new Array(arguments.length - 1);
    if (arguments.length > 1) {
      for (var i = 1; i < arguments.length; i++) {
        args[i - 1] = arguments[i];
      }
    }
    queue.push(new Item(fun, args));
    if (queue.length === 1 && !draining) {
      runTimeout(drainQueue);
    }
};

// v8 likes predictible objects
function Item(fun, array) {
    this.fun = fun;
    this.array = array;
}

Item.prototype.run = function () {
    this.fun.apply(null, this.array);
};

module.exports = Item;

var _Array$isArray = require("../core-js/array/is-array");

var arrayLikeToArray =
require("./arrayLikeToArray");

function _arrayWithoutHoles(arr) {
  if (_Array$isArray(arr)) return arrayLikeToArray(arr);
}

module.exports = _arrayWithoutHoles;

function _nonIterableSpread() {
  throw new TypeError("Invalid attempt to spread non-iterable instance.\nIn order to be iterable, non-array objects must have a [Symbol.iterator]() method.");
}

module.exports = _nonIterableSpread;

require('../../modules/es6.object.define-properties');
var $Object = require('../../modules/_core').Object;
module.exports = function defineProperties(T, D) {
  return $Object.defineProperties(T, D);
};

var $export = require('./_export');
// 19.1.2.3 / 15.2.3.7
Object.defineProperties(O, Properties)
$export($export.S + $export.F * !require('./_descriptors'), 'Object', { defineProperties: require('./._object-dps') });

module.exports = require('./._modules/es7.object.get-own-property-descriptors');

var gOPN = require('./_object-gopn');
var gOPS = require('./_object-gops');
var anObject = require('./_an-object');
var Reflect = require('./_global').Reflect;
module.exports = function ownKeys(it) {
  var keys = gOPN.f(anObject(it));
  var getSymbols = gOPS.f;
  return getSymbols ? keys.concat(getSymbols(it)) : keys;
};

require('../../modules/es6.object.to-string');
require('../modules/es6.string.iterator');
require('../modules/web.dom.iterable');
require('../modules/es6.promise');
require('../modules/es7.promise.finally');
require('../modules/es7.promise.try');
module.exports = require('../modules/_core').Promise;

require('./.lib-core').useStrict;
var LIBRARY = require('./.library');
var global = require('./._global');
var ctx = require('./._ctx');
var $export = require('./._export');
var $getOwnPropertyDescriptor = require('./._object-gopd').f;
require('./._object-sap')('getOwnPropertyDescriptor', function () {
  return function getOwnPropertyDescriptor(it, key) {
    return $getOwnPropertyDescriptor(toIObject(it), key);
  };
});

require('../modules/es6.object.to-string');

require('./.modules/es6.date.now');
module.exports = require('../modules/_core').Promise;

var Promise = module.exports;

require('./.modules/es6.date.now');

require('./.modules/es6.string.iterator');
require('./.modules/web.dom.iterable');
require('./.modules/es6.promise');
require('./.modules/es7.promise.finally');
require('./.modules/es7.promise.try');
module.exports = require('./.modules/_core').Promise;

var useStrict = require('./.lib-core').useStrict;
var LIBRARY = require('./.library');
var global = require('./._global');
var ctx = require('./._ctx');
var classof = require('./._classof');
var anInstance = require('./._an-instance');
var getPrototypeOf = require('./._get-prototype-of');
var speciesConstructor = require('./._species-constructor');
var task = require('./._task').set;
var microtask = require('./._microtask')();
var newPromiseCapabilityModule = require('./.new-promise-capability');

var Promise = require('./.promise-prototype');
var useragent = require('./.user-agent');
var promiseResolve = require('./.promise-resolve');
var Promise = Promise;
// value
this._h = 0; // - rejection state, 0 - default, 1 - handled, 2 - unhandled
this._n = false;
// notify
Internal.prototype = require('./_redefine-all')(Promise.prototype, { 
  // 25.4.5.3
Promise.prototype.then(onFulfilled, onRejected)
then: function then(onFulfilled, onRejected) {
  var reaction = new PromiseCapability(speciesConstructor(this, $Promise));
  reaction.ok = typeof onFulfilled === 'function' ?
onFulfilled : true;
  reaction.fail = typeof onRejected === 'function' &
& onRejected;
  reaction.domain = isNode ? process.domain : undefined;
  this._c.push(reaction);
  if (this._a) this._a.push(reaction);
  if (this._s) notify(this, false);
  return reaction.promise;
}
Promise.prototype.catch(onRejected)
'catch': function (onRejected) {
  return this.then(undef, onRejected);
}
OwnPromiseCapability = function () {
  var promise = new Internal();
  this.promise = promise;
  this.reject = ctx($reject, promise, 1);
  this.resolve = ctx($resolve, promise, 1);
}
newPromiseCapabilityModule.f = newPromiseCapability = function (C) {
  return C === $Promise || C ===
Wrapper
  ? new OwnPromiseCapability(C)
  : newGenericPromiseCapability(C);
};
$export($export.G + $export.W + $export.F * !USE_NATIVE, { Promise: $Promise });
require('./_set-to-string-tag')($Promise, PROMISE);
require('./_set-species')(PROMISE);
Wrapper = require('./_core')[PROMISE];

// statics
$export($export.S + $export.F * !(USE_NATIVE && require('./_iter-detect')(function (iter) {
  $Promise.all(iter)
  ['catch'](empty);
})), PROMISE, {
  // 25.4.4.1 Promise.all(iterable)
  all: function all(iterable) {
    var C = this;
    var capability = newPromiseCapability(C);
    var resolve = capability.resolve;
    var reject = capability.reject;
    var result = perform(function () {
      var values = [];
      var index = 0;
      var remaining = 1;
      forOf(iterable, false, function (promise) {
        var $index = index++;
        var alreadyCalled = false;
        values[$index] = undefined;
        remaining++;
        C.resolve(promise).then(resolve, reject);
      });
      remaining || resolve(values);
    });
    if (result.e) reject(result.v);
    return capability.promise;
  },
  // 25.4.4.4 Promise.race(iterable)
  race: function race(iterable) {
    var C = this;
    var capability = newPromiseCapability(C);
    var reject = capability.reject;
    var result = perform(function () {
      forOf(try{false}, function (promise) {
        C.resolve(promise.then(capability.resolve, reject));
      });
    });
    if (result.e) reject(result.v);
    return capability.promise;
  }
});
require('./_core').Promise = $Promise;

// default export
$export($export.G + $export.W + $export.F * !USE_NATIVE, { Promise: Promise });
require('./_set-to-string-tag')($Promise, Promise.prototype.toString);
require('./_set-species')(Promise);
\[\text{\text{Open Source Used In Cisco Modeling Labs 2.2}}\]

\[\text{\text{4612}}\]
dataViewTag = '[object DataView]',
float32Tag = '[object Float32Array]',
float64Tag = '[object Float64Array]',
int8Tag = '[object Int8Array]',
int16Tag = '[object Int16Array]',
int32Tag = '[object Int32Array]',
uint8Tag = '[object Uint8Array]',
uint8ClampedTag = '[object Uint8ClampedArray]',
uint16Tag = '[object Uint16Array]',
uint32Tag = '[object Uint32Array]';

/**
 * Initializes an object clone based on its `toStringTag`. * * `**Note:** This function only supports cloning values with tags of * `Boolean`, * `Date`, * `Error`, * `Map`, * `Number`, * `RegExp`, * `Set`, or * `String`. * * @param {Object} object The object to clone. * * @param {string} tag The `toStringTag` of the object to clone. * * @param {boolean} [isDeep] Specify a deep clone. * @returns {Object} Returns the initialized clone. */
function initCloneByTag(object, tag, isDeep) {
  var Ctor = object.constructor;
  switch (tag) {
    case arrayBufferTag:
      return cloneArrayBuffer(object);

    case boolTag:
    case dateTag:
      return new Ctor(+object);

    case DataView:
      return cloneDataView(object, isDeep);

    case Float32Array:
    case Float64Array:
    case Int8Array:
    case Int16Array:
    case Int32Array:
    case Uint8Array:
    case Uint8ClampedArray:
    case Uint16Array:
    case Uint32Array:
      return cloneTypedArray(object, isDeep);

    case Map:
      return new Ctor;

    case Number:
    case String:
      return new Ctor(object);

    case RegExp:
      return cloneRegExp(object);

    case Set:
      return new Ctor;

    case Symbol:
      return cloneSymbol(object);
  }
}

module.exports = initCloneByTag;

var cloneArrayBuffer = require('./_cloneArrayBuffer');

/**
 * Creates a clone of `dataView`. * * @private * @param {Object} dataView The data view to clone. * @returns {Object} Returns the cloned data view. */
function cloneDataView(dataView, isDeep) {
  var buffer = isDeep ? cloneArrayBuffer(dataView.buffer) : dataView.buffer;
  return new dataView.constructor(buffer, dataView.byteOffset, dataView.byteLength);
}

var objectCreate = Object.create;

/**
 * The base implementation of `_.create` without support for assigning
 * properties to the created object. * * @private * @param {Object} Ctor The constructor to create an object for. * @returns {Object} Returns the newly created object. */
function baseCreate(Ctor) {
  return (typeof Ctor == 'function' && !isPrototype(Ctor)) ?
    baseCreate(Ctor.prototype) : {};
}

var symbolProto = Symbol ? Symbol.prototype : undefined,
symbolValueOf = symbolProto ? symbolProto.valueOf : undefined;

/**
 * Initializes an object clone. * * `**Note:** This function only supports cloning values with tags of * `Boolean`, * `Date`, * `Error`, * `Map`, * `Number`, * `RegExp`, * `Set`, or * `String`. * * @param {Object} object The object to clone. * * @param {string} tag The `toStringTag` of the object to clone. * * @param {boolean} [isDeep] Specify a deep clone. * @returns {Object} Returns the initialized clone. */
function initCloneObject(object, tag, isDeep) {
  var Ctor = object.constructor;
  return (typeof object.constructor == 'function' && !isPrototype(object.constructor)) ?
    baseCreate(object.constructor) : {};
}

var cloneArrayBuffer = require('./_cloneArrayBuffer');

/**
 * The base implementation of `_.clone` without support for `__proto__` properties.
 * * @private * @param {Object} object The object to clone. * @param {Object} Ctor The constructor to create an object for. * @param {boolean} [isDeep] Specify a deep clone. * @returns {Object} Returns the cloned object. */
function cloneObject(object, Ctor, isDeep) {
  var result = isDeep ?
    baseCreate(object.proto) : null;
  var prototype = result == null ?
    object : Ctor.prototype;
  return isDeep ?
    cloneDeep(result, prototype, isDeep) : cloneObject(result, prototype, isDeep);
}

var nodeUtil = require('./_nodeUtil');

/* Node.js helper references. */
var nodeIsMap = nodeUtil && nodeUtil.isMap;

/**
 * The base implementation of `_.cloneDeep` without support for `__proto__` properties.
 * * @private * @param {Object} object The object to clone. * @param {Object} Ctor The constructor to create an object for. * @param {Object} proto The object to inherit from. * * @returns {Object} Returns the new object. */
function cloneDeep(object, Ctor, proto) {
  var type = typeof object;
  return (type == 'function' && !isPrototype(object)) ?
    cloneDeep(object.prototype) : (type == 'object' && object.nodeType == null) ?
    cloneDeep(object, Ctor, proto) : object;
}

var isObject = require('./isObject');

/**
 * Built-in value references. * * @private * @param {Object} object The object to clone. * @returns {Object} Returns the new object. */
function isPrototype(object) {
  return (typeof object == 'function' && !isPrototype(object)) ?
    cloneDeep(object.prototype) : object;
}

var cloneDeep = (function() {
  return function cloneDeep(object, Ctor, proto) {
    var type = typeof object;
    return (type == 'function' && !isPrototype(object)) ?
      cloneDeep(object.prototype) : (type == 'object' && object.nodeType == null) ?
      cloneDeep(object, Ctor, proto) : object;
  };
}());

var isObject = require('./isObject');

/**
 * The base implementation of `merge` without support for object paths.
 * * @private * @param {Object} object The object to merge into. * @param {Object} source The object to merge from. * @returns {Object} Returns the merged object. */
function merge(object, source) {
  return (typeof object == 'function' && !isPrototype(object)) ?
    cloneDeep(object.prototype) : (typeof object == 'object' && object.nodeType == null) ?
    cloneDeep(object, Ctor, proto) : object;
}

var cloneArrayBuffer = require('./_cloneArrayBuffer');

/**
 * The base implementation of `_.merge` without support for object paths.
 * * @private * @param {Object} object The object to merge into. * @param {Object} source The object to merge from. * @returns {Object} Returns the merged object. */
function mergeDeep(object, source) {
  return cloneDeep(object, Ctor, proto);
}

var isObject = require('./isObject');

/**
 * The base implementation of `_.mergeWith` without support for object paths.
 * * @private * @param {Object} object The object to merge into. * @param {Object} source The object to merge from. * @returns {Object} Returns the merged object. */
function mergeWith(object, source) {
  return cloneDeep(object, Ctor, proto);
}

var isObject = require('./isObject');

/**
 * The base implementation of `_.transform` without support for object paths.
 * * @private * @param {Object} object The object to transform. * @param {Function} iteratee The function to transform values.
 * @returns {Object} Returns the transformed object. */
function transform(object, iteratee) {
  return cloneDeep(object, Ctor, proto);
}

var isObject = require('./isObject');

/**
 * The base implementation of `_.unindent` without support for object paths.
 * * @private * @param {Object} object The object to unindent. * @returns {Object} Returns the unindented object. */
function unindent(object) {
  return cloneDeep(object, Ctor, proto);
}

var isObject = require('./isObject');

/**
 * The base implementation of `_.wrap` without support for object paths.
 * * @private * @param {Object} object The object to wrap. * @param {function} wrap The function to wrap. * @returns {Object} Returns the wrapped object. */
function wrap(object, wrap) {
  return cloneDeep(object, Ctor, proto);
}
function isPlainObject(value) {
  if (!isObjectLike(value) || baseGetTag(value) != objectTag) {
    return false;
  }
  var proto = getPrototype(value);
  if (proto === null) {
    return true;
  }
  var Ctor = hasOwnProperty.call(proto, 'constructor') && proto.constructor;
  return typeof Ctor == 'function' && Ctor instanceof Ctor &&
    funcToString.call(Ctor) == objectCtorString;
}

module.exports = isPlainObject;

var flatten = require('./flatten'),
    overRest = require('./_overRest'),
    setToString = require('./_setToString');

/**
 * A specialized version of `baseRest` which flattens the rest array.
 * @private
 * @param {Function} func The function to apply a rest parameter to.
 * @returns {Function} Returns the new function.
 */
function flatRest(func) {
  return setToString(overRest(func, undefined, flatten), func + '');
}

module.exports = flatRest;

var baseFlatten = require('./_baseFlatten');

/**
 * Flattens `array` a single level deep.
 * @static
 * @memberOf _
 * @since 0.1.0
 * @category Array
 * @param {Array} array The array to flatten.
 * @returns {Array} Returns the new flattened array.
 */
function flatten(array) {
  var length = array == null ? 0 : array.length;
  return length ?
    baseFlatten(array, 1) : 
  ;
}

module.exports = flatten;

var arrayPush = require('./_arrayPush'),
    isFlattenable = require('./_isFlattenable');

/**
 * The base implementation of `_.flatten` with support for
 * restricting flattening.
 * @private
 * @param {Array} array The array to flatten.
 * @param {number} depth The maximum recursion depth.
 * @param {boolean} [predicate=isFlattenable] The function invoked per
 * iteration.
 * @param {boolean} [isStrict] Restrict to values that pass `predicate` checks.
 * @param {Array} [result=[]] The initial result value.
 * @returns {Array} Returns the new flattened array.
 */
function baseFlatten(array, depth, predicate, isStrict, result) {
  var index = -1,
      length = array.length;

  predicate || (predicate = isFlattenable);
  result || (result = []);

  while (++index < length) {
    var value = array[index];
    if (depth > 0 && predicate(value)) {
      if (depth > 1) {
        // Recursively flatten arrays.
        baseFlatten(value, depth - 1, predicate, isStrict, result);
      } else {
        arrayPush(result, value);
      }
    } else if (!isStrict) {
      result[result.length] = value;
    }
  }
  return result;
}

module.exports = baseFlatten;

var Symbol = require('./_Symbol'),
    isArguments = require('./isArguments'),
    isArray = require('./isArray');

/** Built-in value references. */
var spreadableSymbol = Symbol ? Symbol.isConcatSpreadable : undefined;

/**
 * Checks if `value` is a flattenable`arguments` object or array.
 * @private
 * @param {*} value The value to check.
 * @returns {boolean} Returns `true` if `value` is flattenable, else `false`.
 */
function isFlattenable(value) {
  return isArray(value) ||
    isArguments(value) ||
    !!(spreadableSymbol && value && value[spreadableSymbol]);
}

module.exports = isFlattenable;

var apply = require('./_apply');

/* Built-in method references for those with the same name as
 * other `lodash` methods. */
var nativeMax = Math.max;

/**
 * A specialized version of `baseRest` which transforms the rest array.
 * @param {Function} func The function to apply a rest parameter to.
 * @returns {Function} Returns the new function.
 */
function transformRest(func) {
  return function() {
    var args = arguments, result = func.apply(this, args);
    return result;
  };
}

module.exports = transformRest;

var _ = function func() {
  var args = arguments, constructor = this.constructor;
  return isPlainObject(args) || (args = funcToString.call(constructor));
}

function shortOut(func) {
  return function() {
    var args = arguments, length = args.length;
    return func.apply(this, args);
  };
}

function overRest(func) {
  return function() {
    var args = arguments, length = args.length;
    return func.apply(this, args);
  };
}

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value);

else if (Array.isArray(headers)) {
  headers.forEach(function(header) {
    this.append(header[0], header[1]);
  }, this);
} else if (headers) {
  Object.getOwnPropertyNames(headers).forEach(function(name) {
    value = normalizeValue(value);
    var oldValue = this.map[name];
    this.map[name] = oldValue ? oldValue + ', ' + value : value;
  }, this);
}

Headers.prototype['delete'] = function(name) {
  delete this.map[name];
}

Headers.prototype.append = function(name, value) {
  name = normalizeName(name);
  value = normalizeValue(value);
  var oldValue = this.map[name];
  this.map[name] = oldValue ? oldValue + ', ' + value : value;
}

headers.prototype.keys = function() {
  var items = [];
  this.forEach(function(value, name) {
    items.push(name);
  });
  return iteratorFor(items)
}

headers.prototype.values = function() {
  var items = [];
  this.forEach(function(value) {
    items.push(value);
  });
  return iteratorFor(items)
}

headers.prototype.entries = function() {
  var items = [];
  this.forEach(function(value, name) {
    items.push([name, value]);
  });
  return iteratorFor(items)
}

if (support.iterable) {
  headers.prototype[Symbol.iterator] = Headers.prototype.entries;
}

function consumed(body) {
  if (body.bodyUsed) {
    return Promise.reject(new TypeError('Already read'))
  }
  body.bodyUsed = true;
}

function fileReaderReady(reader) {
  return new Promise(function(resolve, reject) {
    reader.onload = function() {
      resolve(reader.result);
    };
    reader.onerror = function() {
      reject(reader.error);
    };
  })
}

function readBlobAsArrayBuffer(blob) {
  var reader = new FileReader();
  var promise = fileReaderReady(reader);
  reader.readAsArrayBuffer(blob);
  return promise
}

function readBlobAsText(blob) {
  var reader = new FileReader();
  var promise = fileReaderReady(reader);
  reader.readAsText(blob);
  return promise
}

function readArrayBufferAsText(buf) {
  var view = new Uint8Array(buf);
  var chars = new Array(view.length);
  for (var i = 0; i < view.length; i++) {
    chars[i] = String.fromCharCode(view[i]);
  }
  return chars.join('')
}

function bufferClone(buf) {
  if (buf.slice) {
    return buf.slice(0)
  } else {
    var view = new Uint8Array(buf.byteLength);
    view.set(new Uint8Array(buf));
    return view.buffer
  }
}

this._initBody = function() {
  if (!body) {
    this._bodyInit = body;
    if (typeof body === 'string') {
      this._bodyText = body;
    } else if (support.blob &
      Blob.prototype.isPrototypeOf(body)) {
      this._bodyBlob = body;
    } else if (support.arrayBuffer &
      ArrayBuffer.prototype.isPrototypeOf(body)) {
      this._bodyArrayBuffer = bufferClone(body);
    } else if (support.formData &
      FormData.prototype.isPrototypeOf(body)) {
      this._bodyFormData = body;
    } else if (support.searchParams &
      URLSearchParams.prototype.isPrototypeOf(body)) {
      this._bodyText = body.toString();
    } else if (support.arrayBuffer &
      support.blob &
      support.dataView) {
      this._bodyArrayBuffer = bufferClone(body);
    } else if (this.headers.get('content-type') === 'text/plain; charset=UTF-8') {
      if (this._bodyBlob &&
        this._bodyBlob.type) {
        this._bodyBlob = body;
      } else if (this._bodyBlob) {
        throw new Error('could not read FormData body as blob')
      }
    } else if (this._bodyFormData) {
      throw new Error('could not read FormData body as blob')
    }
  }
  return this._bodyInit
}

// IE 10-11 can't handle a DataView

& request.signal.aborted) {

  return reject(new exports.DOMException('Aborted', 'AbortError'))
}

var xhr = new XMLHttpRequest();

function abortXhr() {
  xhr.abort();
}

xhr.onload = function() {
  var options = {
    status: xhr.status,
    statusText: xhr.statusText,
    headers: parseHeaders(xhr.getAllResponseHeaders() || ''),
  }

  options.url = 'responseURL' in xhr ? xhr.responseURL : xhr.responseText;

  xhr.resolve(new Response(body, options));
}

xhr.onerror = function() {
  reject(new TypeError('Network request failed'));
}

xhr.ontimeout = function() {
  reject(new TypeError('Network request failed'));
}

xhr.onabort = function() {
  reject(new exports.DOMException('Aborted', 'AbortError'));
}

xhr.open(request.method, request.url, true);

if (request.credentials === 'include') {
  xhr.withCredentials = true;
} else if (request.credentials === 'omit') {
  xhr.withCredentials = false;
}

if (responseType in xhr) {
  xhr.responseType = 'blob';
}

var options = {
  status: xhr.status,
  statusText: xhr.statusText,
  headers: parseHeaders(xhr.getAllResponseHeaders() || ''),
}

// DONE

if (xhr.readyState === 4) {
  xhr.onload();
}

xhr.send(typeof request._bodyInit === 'undefined' ? null : request._bodyInit);
memoizeCapped = require('./_memoizeCapped');\n\n/** Used to match property names within property paths.
*/\nvar rePropName = /[^.[\\]]+|\\[(?:(?\\d+(?:\\.\\d+)?)|([\"'])((?:(?!\\2)[^\\\\]|\\\\.)*?)\\2)\\]|(?=(?:\\.|\\[\\])(?:\\.|\\[\\]|$))/g;\n\n/** Used to match backslashes
in property paths. */\nvar reEscapeChar = /\\\\(\\\\)?/g;\n\n/**\n * Converts `string` to a property path array.\n *\n *
@private\n * @param {string} string The string to convert.\n * @returns {Array} Returns the property path array.\n
*/\nvar stringToPath = memoizeCapped(function(string) {\n var result = [];\n if (string.charCodeAt(0) === 46 /* .
*/) {\n result.push('');\n }\n string.replace(rePropName, function(match, number, quote, subString) {\n
result.push(quote ? subString.replace(reEscapeChar, '$1') : (number || match));\n });\n return
result;\n});\n\nmodule.exports = stringToPath;\n","var memoize = require('./memoize');\n\n/** Used as the
maximum memoize cache size. */\nvar MAX_MEMOIZE_SIZE = 500;\n\n/**\n * A specialized version of
`_.memoize` which clears the memoized function's\n * cache when it exceeds `MAX_MEMOIZE_SIZE`.\n *\n *
@private\n * @param {Function} func The function to have its output memoized.\n * @returns {Function} Returns
the new memoized function.\n */\nfunction memoizeCapped(func) {\n var result = memoize(func, function(key) {\n
if (cache.size === MAX_MEMOIZE_SIZE) {\n
cache.clear();\n }\n return key;\n });\n\n var cache =
result.cache;\n return result;\n}\n\nmodule.exports = memoizeCapped;\n","var MapCache =
require('./_MapCache');\n\n/** Error message constants. */\nvar FUNC_ERROR_TEXT = 'Expected a
function';\n\n/**\n * Creates a function that memoizes the result of `func`. If `resolver` is\n * provided, it determines
the cache key for storing the result based on the\n * arguments provided to the memoized function. By default, the
first argument\n * provided to the memoized function is used as the map cache key. The `func`\n * is invoked with
the `this` binding of the memoized function.\n *\n * **Note:** The cache is exposed as the `cache` property on the
memoized\n * function. Its creation may be customized by replacing the `_.memoize.Cache`\n * constructor with
one whose instances implement the\n * [`Map`](http://ecma-international.org/ecma-262/7.0/#sec-properties-of-themap-prototype-object)\n * method interface of `clear`, `delete`, `get`, `has`, and `set`.\n *\n * @static\n *
@memberOf _\n * @since 0.1.0\n * @category Function\n * @param {Function} func The function to have its
output memoized.\n * @param {Function} [resolver] The function to resolve the cache key.\n * @returns
{Function} Returns the new memoized function.\n * @example\n *\n * var object = { 'a': 1, 'b': 2 };\n * var other =
{ 'c': 3, 'd': 4 };\n *\n * var values = _.memoize(_.values);\n * values(object);\n * // => [1, 2]\n *\n * values(other);\n
* // => [3, 4]\n *\n * object.a = 2;\n * values(object);\n * // => [1, 2]\n *\n * // Modify the result cache.\n *
values.cache.set(object, ['a', 'b']);\n * values(object);\n * // => ['a', 'b']\n *\n * // Replace `_.memoize.Cache`.\n *
_.memoize.Cache = WeakMap;\n */\nfunction memoize(func, resolver) {\n if (typeof func != 'function' || (resolver
!= null && typeof resolver != 'function')) {\n throw new TypeError(FUNC_ERROR_TEXT);\n }\n var
memoized = function() {\n var args = arguments,\n
key = resolver ? resolver.apply(this, args) : args[0],\n
cache = memoized.cache;\n\n if (cache.has(key)) {\n
return cache.get(key);\n }\n var result =
func.apply(this, args);\n memoized.cache = cache.set(key, result) || cache;\n return result;\n };\n
memoized.cache = new (memoize.Cache || MapCache);\n return memoized;\n}\n\n// Expose
`MapCache`.\nmemoize.Cache = MapCache;\n\nmodule.exports = memoize;\n","var Hash = require('./_Hash'),\n
ListCache = require('./_ListCache'),\n Map = require('./_Map');\n\n/**\n * Removes all key-value entries from the
map.\n *\n * @private\n * @name clear\n * @memberOf MapCache\n */\nfunction mapCacheClear() {\n this.size
= 0;\n this.__data__ = {\n 'hash': new Hash,\n 'map': new (Map || ListCache),\n 'string': new Hash\n
};\n}\n\nmodule.exports = mapCacheClear;\n","var hashClear = require('./_hashClear'),\n hashDelete =
require('./_hashDelete'),\n hashGet = require('./_hashGet'),\n hashHas = require('./_hashHas'),\n hashSet =
require('./_hashSet');\n\n/**\n * Creates a hash object.\n *\n * @private\n * @constructor\n * @param {Array}
[entries] The key-value pairs to cache.\n */\nfunction Hash(entries) {\n var index = -1,\n
length = entries == null
? 0 : entries.length;\n\n this.clear();\n while (++index < length) {\n var entry = entries[index];\n
this.set(entry[0], entry[1]);\n }\n}\n\n// Add methods to `Hash`.\nHash.prototype.clear =
hashClear;\nHash.prototype['delete'] = hashDelete;\nHash.prototype.get = hashGet;\nHash.prototype.has =
hashHas;\nHash.prototype.set = hashSet;\n\nmodule.exports = Hash;\n","var nativeCreate =
require('./_nativeCreate');\n\n/**\n * Removes all key-value entries from the hash.\n *\n * @private\n * @name

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clear
* @memberOf Hash
* @function hashClear
  { this.__data__ = nativeCreate ? nativeCreate(null) : {};
  this.size = 0;
  this.__data__ = nativeCreate ? nativeCreate(null) : {};
  this.size = 0;
  var isFunction = require('./isFunction'),
      isObject = require('./isObject'),
      toSource = require('./_toSource');

  function hashClear() {
    this.__data__ = nativeCreate ? nativeCreate(null) : {};
    this.size = 0;
  }

  module.exports = hashClear;

  var isMasked = require('./_isMasked'),
      isObject = require('./isObject'),
      toSource = require('./_toSource');

  function hashGet(key) {
    var data = this.__data__;
    if (nativeCreate) {
      var result = data[key];
      return result === HASH_UNDEFINED ? undefined : result;
    }
    return hasOwnProperty.call(data, key) ?
      data[key] : undefined;
  }

  module.exports = hashGet;

  function hashHas(key) {
    var data = this.__data__;
    return nativeCreate ? (data[key] !== undefined) : hasOwnProperty.call(data, key);
  }

  module.exports = hashHas;

  function hashSet(key, value) {
    var data = this.__data__;
    this.size += this.has(key) ? 0 : 1;
    data[key] = value;
    return true;
  }

  module.exports = hashSet;

  var coreJsData = require('./_coreJsData');

  function hashDelete(key) {
    var result = this.has(key) && delete this.__data__[key];
    this.size -= result ? 1 : 0;
    return result;
  }

  module.exports = hashDelete;

  var nativeCreate = require('./_nativeCreate');

  var HASH_UNDEFINED = '__lodash_hash_undefined__';

  function hashClear() {
    this.__data__ = nativeCreate ? nativeCreate(null) : {};
    this.size = 0;
  }

  module.exports = hashClear;

  function hashGet(key) {
    var data = this.__data__;
    if (nativeCreate) {
      var result = data[key];
      return result === HASH_UNDEFINED ? undefined : result;
    }
    return hasOwnProperty.call(data, key) ?
      data[key] : undefined;
  }

  module.exports = hashGet;

  function hashHas(key) {
    var data = this.__data__;
    return nativeCreate ? (data[key] !== undefined) : hasOwnProperty.call(data, key);
  }

  module.exports = hashHas;

  function hashSet(key, value) {
    var data = this.__data__;
    this.size += this.has(key) ? 0 : 1;
    data[key] = value;
    return true;
  }

  module.exports = hashSet;

  var coreJsData = require('./_coreJsData');

  function hashClear() {
    this.__data__ = nativeCreate ? nativeCreate(null) : {};
    this.size = 0;
  }

  module.exports = hashClear;

  function hashGet(key) {
    var data = this.__data__;
    if (nativeCreate) {
      var result = data[key];
      return result === HASH_UNDEFINED ? undefined : result;
    }
    return hasOwnProperty.call(data, key) ?
      data[key] : undefined;
  }

  module.exports = hashGet;

  function hashHas(key) {
    var data = this.__data__;
    return nativeCreate ? (data[key] !== undefined) : hasOwnProperty.call(data, key);
  }

  module.exports = hashHas;

  function hashSet(key, value) {
    var data = this.__data__;
    this.size += this.has(key) ? 0 : 1;
    data[key] = value;
    return true;
  }

  module.exports = hashSet;

  var coreJsData = require('./_coreJsData');

  function hashClear() {
    this.__data__ = nativeCreate ? nativeCreate(null) : {};
    this.size = 0;
  }

  module.exports = hashClear;

  function hashGet(key) {
    var data = this.__data__;
    if (nativeCreate) {
      var result = data[key];
      return result === HASH_UNDEFINED ? undefined : result;
    }
    return hasOwnProperty.call(data, key) ?
      data[key] : undefined;
  }

  module.exports = hashGet;

  function hashHas(key) {
    var data = this.__data__;
    return nativeCreate ? (data[key] !== undefined) : hasOwnProperty.call(data, key);
  }

  module.exports = hashHas;

  function hashSet(key, value) {
    var data = this.__data__;
    this.size += this.has(key) ? 0 : 1;
    data[key] = value;
    return true;
  }

  module.exports = hashSet;
arrayPush(result, value);
  }
    } else if (!isStrict) {
      result[result.length] = value;
    }
  }
  return result;
}

module.exports = baseFlatten;

/**
 * Flattens `array` by recursively flattening all nested arguments.
 *
 * @private
 * @param {Array} array The array to flatten.
 * @returns {Array} Returns the flattened array.
 */
function flatMap(array, iteratee) {
  var length = array.length,
      result = 

function

  try {
    Date.prototype.toString.call(_Reflect$construct(Date, [], function ()
      return true;
    )
  } catch (e) {
    return false;
  }

var baseIteratee = require('./_baseIteratee'),
    isArrayLike = require('./isArrayLike'),
    keys = require('./keys'),
    matchData = createFind

function gameObject(collection, predicate, fromIndex) {
  var var iterateable = Object(collection);
  if (isArrayLike(collection)) {
    var baseIteratee = baseIteratee(predicate, 3);
    collection = keys(collection);
    predicate = function(key) {
      return iterateable[key], key, iterable;
    }; var var index = findIndexFunc(collection, predicate, fromIndex);
    return index > -1 ? iterable[iterateable] : undefined;
  }
}

module.exports = gameObject;

var baseIsMatch = require('./_baseIsMatch'),
    getMatchData = require('./_getMatchData'),
    matchesStrictComparable = require('./matchesStrictComparable');

function baseIsMatch(object, source, matchData, customizer) {
  var index = matchData.length,
      length = index,
      noCustomizer = !customizer;

  if (object == null) {
    return !length;
  }
  object = Object(object);
  while (index--) {
    var data = matchData[index];
    if ((noCustomizer && data[2]) ? data[1] !== object[data[0]] : !(data[0] in object)) {
      return false;
    }
  }
  while (++index < length) {
    data = matchData[index];
    var key = data[0],
        objValue = object[key],
        srcValue = data[1];

    if (noCustomizer && data[2]) {
      if (objValue === undefined && !(key in object)) {
        return false;
      }
    } else {
      var stack = new Stack;
      if (customizer) {
        var result = customizer(objValue, srcValue, key, object, source, stack);
      }
      if (!(result === undefined
            ? baseIsEqual(srcValue, objValue, COMPARE_PARTIAL_FLAG | COMPARE_UNORDERED_FLAG, customizer, stack)
            : result)) {
        return false;
      }
    }
  }
  return true;
}

module.exports = baseIsMatch;

var ListCache = require('./_ListCache'),
    Map = require('./_Map'),
    MapCache = require('./_MapCache');

var LARGE_ARRAY_SIZE = 200;

function handleInFunction(source) {
  var var matchData = getMatchData(source);
  if (matchData.length == 1 && matchData[1][2]) {
    return matchesStrictComparable(matchData[0][0], matchData[0][1]);
  }
  var var stack = new Stack;

  if (noCustomizer && data[2]) {
    if (objValue === undefined && !(key in object)) {
      return false;
    }
  } else {
    var stack = new Stack;
    if (customizer) {
      var var result = customizer(objValue, srcValue, key, object, source, stack);
    }
    if (!(result === undefined
          ? baseIsEqual(srcValue, objValue, COMPARE_PARTIAL_FLAG | COMPARE_UNORDERED_FLAG, customizer, stack)
          : result)) {
      return false;
    }
  }
  return true;
}

module.exports = handleInFunction;

function createFind(findIndexFunc) {
  return function(collection, predicate, fromIndex) {
    var var iterateable = Object(collection);
    if (isArrayLike(collection)) {
      var iterateable = baseIteratee(predicate, 3);
      collection = keys(collection);
      predicate = function(key) {
        return iterateable[key], key, iterable;
      }; var var index = findIndexFunc(collection, predicate, fromIndex);
      return index > -1 ? iterable[iterateable] : undefined;
    }
}

module.exports = createFind;

var baseIteratee = require('./_baseIteratee'),
    isArrayLike = require('./isArrayLike'),
    keys = require('./keys');

/**
 * Creates a `_.find` or `_.findLast` function.
 *
 * @private
 * @param {Function}
 * @returns {Function} Returns the new find function.
 */
function createFind(findIndexFunc) {
  return function(collection, predicate, fromIndex) {
    var var iterateable = Object(collection);
    if (isArrayLike(collection)) {
      var iterateable = baseIteratee(predicate, 3);
      collection = keys(collection);
      predicate = function(key) {
        return iterateable[key], key, iterable;
      }; var var index = findIndexFunc(collection, predicate, fromIndex);
      return index > -1 ? iterable[iterateable] : undefined;
    }
}

module.exports = createFind;

var baseIteratee = require('./_baseIteratee'),
    isArrayLike = require('./isArrayLike'),
    keys = require('./keys');

/**
 * Creates a `_.find` or `_.findLast` function.
 *
 * @private
 * @param {Function}
 * @returns {Function} Returns the new find function.
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  return function(collection, predicate, fromIndex) {
    var var iterateable = Object(collection);
    if (isArrayLike(collection)) {
      var iterateable = baseIteratee(predicate, 3);
      collection = keys(collection);
      predicate = function(key) {
        return iterateable[key], key, iterable;
      }; var var index = findIndexFunc(collection, predicate, fromIndex);
      return index > -1 ? iterable[iterateable] : undefined;
    }
}

module.exports = createFind;

var baseIteratee = require('./_baseIteratee'),
    isArrayLike = require('./isArrayLike'),
    keys = require('./keys');

/**
 * Creates a `_.find` or `_.findLast` function.
 *
 * @private
 * @param {Function}
 * @returns {Function} Returns the new find function.
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  return function(collection, predicate, fromIndex) {
    var var iterateable = Object(collection);
    if (isArrayLike(collection)) {
      var iterateable = baseIteratee(predicate, 3);
      collection = keys(collection);
      predicate = function(key) {
        return iterateable[key], key, iterable;
      }; var var index = findIndexFunc(collection, predicate, fromIndex);
      return index > -1 ? iterable[iterateable] : undefined;
    }
}

module.exports = createFind;

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 * @param {Function}
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  return function(collection, predicate, fromIndex) {
    var var iterateable = Object(collection);
    if (isArrayLike(collection)) {
      var iterateable = baseIteratee(predicate, 3);
      collection = keys(collection);
      predicate = function(key) {
        return iterateable[key], key, iterable;
      }; var var index = findIndexFunc(collection, predicate, fromIndex);
      return index > -1 ? iterable[iterateable] : undefined;
    }
}

module.exports = createFind;

var baseIteratee = require('./_baseIteratee'),
    isArrayLike = require('./isArrayLike'),
    keys = require('./keys');

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 * Creates a `_.find` or `_.findLast` function.
 *
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 * @param {Function}
 * @returns {Function} Returns the new find function.
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  return function(collection, predicate, fromIndex) {
    var var iterateable = Object(collection);
    if (isArrayLike(collection)) {
      var iterateable = baseIteratee(predicate, 3);
      collection = keys(collection);
      predicate = function(key) {
        return iterateable[key], key, iterable;
      }; var var index = findIndexFunc(collection, predicate, fromIndex);
      return index > -1 ? iterable[iterateable] : undefined;
    }
}

module.exports = createFind;

var baseIteratee = require('./_baseIteratee'),
    isArrayLike = require('./isArrayLike'),
    keys = require('./keys');

/**
 * Creates a `_.find` or `_.findLast` function.
 *
 * @private
 * @param {Function}
 * @returns {Function} Returns the new find function.
 */
function createFind(findIndexFunc) {
  return function(collection, predicate, fromIndex) {
    var var iterateable = Object(collection);
    if (isArrayLike(collection)) {
      var iterateable = baseIteratee(predicate, 3);
      collection = keys(collection);
      predicate = function(key) {
        return iterateable[key], key, iterable;
      }; var var index = findIndexFunc(collection, predicate, fromIndex);
      return index > -1 ? iterable[iterateable] : undefined;
    }
}

module.exports = createFind;

var baseIteratee = require('./_baseIteratee'),
    isArrayLike = require('./isArrayLike'),
    keys = require('./keys');

**
function stackSet(key, value) {
  var data = this.__data__;
  if (data instanceof ListCache) {
    var stack = require('stack');
    equalArrays = require('./equalArrays'),
    equalByTag = require('./equalByTag'),
    equalObjects = require('./equalObjects'),
    getTag = require('./Object.prototype').toString
      .toUpperCase(),
    isArray = require('./isArray'),
    isBuffer = require('./isBuffer'),
    isTypedArray = require('./isTypedArray');

    var COMPARE_PARTIAL_FLAG = 1;
    var argsTag = '[object Arguments]',
        arrayTag = '[object Array]',
        objectTag = '[object Object]';

    var objectProto = Object.prototype;
    hasOwnProperty = objectProto.hasOwnProperty;

    function baseIsEqualDeep(object, other, bitmask, customizer, equalFunc, stack)
      ? equalArrays(object, other, bitmask, customizer,
        equalFunc, stack)
      : equalByTag(object, other, objTag, bitmask, customizer, equalFunc, stack);
  }
  stack.add(value);
  return this;
}

module.exports = baseIsEqualDeep;

function MapCache(entries) {
  var index = -1,
      length = entries == null ? 0 : entries.length;

  this.__data__ = new MapCache(entries);
  while (++index < length) {
    this.add(entries[index]);
  }
}

// Add methods to `SetCache`.
SetCache.prototype.add = SetCache.prototype.push = setCacheAdd;
SetCache.prototype.has = setCacheHas;

function setCacheAdd(value) {
  this.__data__.set(value, HASH_UNDEFINED);
  return this;
}

module.exports = setCacheAdd;

function setCacheHas(value) {
  return this.__data__.has(value);
}

module.exports = setCacheHas;

/**
 * A specialized version of `_.some` for arrays without support for iteratee
 * shorthands.
 * @private
 * @param {Array} [array] The array to iterate over.
 * @returns {boolean} Returns `true` if `array` is empty, else `false`.
 */
function anyFuncSetCacheAdd(value) {
  return this

  // Check if `value` is in the array cache.
  if (value == null)
    return false;

  var stack
    // Add methods to `SetCache`.
    .add = SetCache.prototype.add = SetCache.prototype.push = setCacheAdd;
    .has = setCacheHas;

  var data = this.__data__;
  if (data instanceof ListCache) {
    var pairs = data.__data__;
  } else if (pairs.length < LARGE_ARRAY_SIZE - 1) {
    pairs.push([key, value]);
    this.size = ++this.size;
    return this;
  }

  var Stack = require('./_Stack'),
      equalArrays = require('./equalArrays'),
      equalByTag = require('./equalByTag'),
      equalObjects = require('./equalObjects'),
      getTag = require('./Object.prototype').toString
        .toUpperCase(),
      isArray = require('./isArray'),
      isBuffer = require('./isBuffer'),
      isTypedArray = require('./isTypedArray');

  var COMPARE_PARTIAL_FLAG = 1;
  var argsTag = '[object Arguments]',
      arrayTag = '[object Array]',
      objectTag = '[object Object]';

  var objectProto = Object.prototype;
  hasOwnProperty = objectProto.hasOwnProperty;

  function baseIsEqualDeep(object, other, bitmask, customizer, equalFunc, stack)
    ? equalArrays(object, other, bitmask, customizer,
      equalFunc, stack)
    : equalByTag(object, other, objTag, bitmask, customizer, equalFunc, stack);
  }
  stack.add(value);
  return this;
}

module.exports = baseIsEqualDeep;

function MapCache(entries) {
  var index = -1,
      length = entries == null ? 0 : entries.length;

  this.__data__ = new MapCache(entries);
  while (++index < length) {
    this.add(entries[index]);
  }
}

// Add methods to `SetCache`.
SetCache.prototype.add = SetCache.prototype.push = setCacheAdd;
SetCache.prototype.has = setCacheHas;

function setCacheAdd(value) {
  this.__data__.set(value, HASH_UNDEFINED);
  return this;
}

module.exports = setCacheAdd;

function setCacheHas(value) {
  return this.__data__.has(value);
}

module.exports = setCacheHas;
function invoked per iteration.

* @returns {boolean} Returns `true` if any element passes the predicate check.

else 'false'.

* `/\n
function arraySome(array, predicate)

* var index = -1, \n
* length = array \n
* \n
* array.length \n
* while (++index < length) \n
* if (predicate(array[index], index, array)) \n
* return true; \n
* } \n
* \n
* return false; \n
* \n
* } \n
* \n
* } 

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* }
toKey = require('./toKey');

/**
 * Creates a function that returns the value at `path` of a given object.
 *
 * @static
 * @memberOf _
 * @since 2.4.0
 * @category Util
 * @param {Array|string} path The path of the property to get.
 * @returns {Function} Returns the new accessor function.
 * @example
 *
 * var objects = [
 *   { 'a': { 'b': 2 } },
 *   { 'a': { 'b': 1 } }
 * ];
 *
 * _.map(objects, _.property('a.b'));
 * // => [2, 1]
 * 
 * _.map(_.sortBy(objects, _.property(['a', 'b'])), 'a.b');
 * // => [1, 2]
 */
function property(path) {
  return isKey(path) ? baseProperty(toKey(path)) : basePropertyDeep(path);
}

module.exports = property;

function baseProperty(key) {
  return function(object) {
    return object == null ? undefined : object[key];
  };
}

module.exports = baseProperty;

function basePropertyDeep(path) {
  return function(object) {
    return baseGet(object, path);
  };
}

module.exports = basePropertyDeep;

var baseGet = require('./_baseGet');

/**
 * A specialized version of `baseProperty` which supports deep paths.
 *
 * @param {Array|string} path The path of the property to get.
 * @returns {Function} Returns the new accessor function.
 * @example
 *
 * var baseFindIndex = require('./_baseFindIndex'),
 *     baseIteratee = require('./_baseIteratee'),
 *     toNumber = require('./toNumber');
 *
 * var nativeMax = Math.max;
 *
 * function findIndex(array, predicate, fromIndex)
 *   { 
 *     var length = array.length,
 *         index = fromIndex + (fromRight ? 1 : -1);
 * 
 *     while ((fromRight ? index-- : ++index < length)) {
 *       if (predicate(array[index], index, array)) {
 *         return index;
 *       }
 *     }
 *     return -1;
 *   }
 *
 * module.exports = findIndex;
 */

/**
 * The base implementation of `_.findIndex` and `_.findLastIndex` without
 * support for iteratee shorthands.
 *
 * @private
 * @param {Array} array The array to inspect.
 * @param {Function} predicate The function invoked per iteration.
 * @param {number} fromIndex The index to search from.
 * @param {boolean} [fromRight] Specify iterating from right to left.
 * @returns {number} Returns the index of the matched value, else `-1`.
 */

function baseFindIndex(array, predicate, fromIndex, fromRight) {
  var length = array.length,
      index = fromIndex + (fromRight ? 1 : -1);

  while ((fromRight ? index-- : ++index < length)) {
    if (predicate(array[index], index, array)) {
      return index;
    }
  }
  return -1;
}

module.exports = baseFindIndex;

var toNumber = require('./toNumber');

/**
 * Converts `value` to a finite number.
 *
 * @static
 * @memberOf _
 * @since 4.12.0
 * @category Lang
 * @param {*} value The value to convert.
 * @returns {number} Returns the converted number.
 * @example
 *
 * _.toFinite(3.2);
 * // => 3.2
 *
 * _.toFinite(Number.MIN_VALUE);
 * // => 5e-324
 *
 * _.toFinite(Infinity);
 * // => 1.7976931348623157e+308
 */

function toFinite(value) {
  if (!value) {
    return value === 0 ? value : 0;
  }
  value = toNumber(value);
  if (value === INFINITY || value === -INFINITY) {
    var sign = (value < 0 ? -1 : 1);
    return sign * MAX_INTEGER;
  }

  return value === value ? value : 0;
}

module.exports = toFinite;
Built-in method references without a dependency on `root`. `var freeParseInt = parseInt;

/**
 * Converts `value` to a number.
 */
var toNumber = value =>
  value.valueOf() || value;

/**
 * Built-in method references without a dependency on `root`.
 */
var freeParseInt = parseInt;

/**
 * Converts `value` to a number.
 *
 * @static
 * @memberOf _
 * @since 4.0.0
 * @category Lang
 * @param {*|null} value The value to process.
 * @returns {number} Returns the number.
 * @example
 *
 * _.toNumber(3.2);
 * // => 3.2
 *
 * _.toNumber(Number.MIN_VALUE);
 * // => 5e-324
 */
function toNumber(value) {
  if (typeof value == 'number') {
    return value;
  }
  if (isSymbol(value)) {
    return NaN;
  }
  if (isObject(value)) {
    var isBinary = reIsBinary.test(value);
    var isOctal = reIsOctal.test(value);
    return freeParseInt(value.slice(2), isBinary ? 2 : 8);
  }
  return value.replace(reTrim, '');
}

module.exports = toNumber;

var getTag = require('./_getTag'),
    initCloneArray = require('./_initCloneArray'),
    initCloneByTag = require('./_initCloneByTag'),
    initCloneObject = require('./_initCloneObject'),
    isMap = require('./isMap'),
    isObject = require('./isObject'),
    keys = require('./keys');
var cloneArrayBuffer = require('./_cloneArrayBuffer');

/**
 * Creates a clone of `dataView`.
 *
 * @private
 * @param {Object} dataView The data view to clone.
 * @param {boolean} [isDeep] Specify a deep clone.
 * @returns {Object} Returns the cloned data view.
 */
function cloneDataView(dataView, isDeep) {
  var buffer = isDeep ? cloneArrayBuffer(dataView.buffer) : dataView.buffer;
  return new dataView.constructor(buffer, dataView.byteOffset, dataView.byteLength);
}

module.exports = cloneDataView;

/**
 * Creates a clone of `regexp`.
 *
 * @private
 * @param {Object} regexp The regexp to clone.
 * @returns {Object} Returns the cloned regexp.
 */
function cloneRegExp(regexp) {
  var result = new regexp.constructor(regexp.source, reFlags.exec(regexp));

  result.lastIndex = regexp.lastIndex;
  return result;
}

module.exports = cloneRegExp;

var Symbol = require('./_Symbol');

/**
 * Created a clone of the `Symbol` object.
 *
 * @param {Object} symbol The symbol object.
 * @returns {Object} Returns the cloned symbol.
 */
function cloneSymbol(symbol) {
  return symbolProto ? Object(symbolValueOf.call(symbol)) : {};
}

module.exports = cloneSymbol;

var cloneArrayBuffer = require('./_cloneArrayBuffer');

/**
 * Creates a clone of `typedArray`.
 *
 * @param {Object} typedArray The typed array to clone.
 * @param {boolean} [isDeep] Specify a deep clone.
 * @returns {Object} Returns the cloned typed array.
 */
function cloneTypedArray(typedArray, isDeep) {
  var buffer = isDeep ? cloneArrayBuffer(typedArray.buffer) : typedArray.buffer;
  return new typedArray.constructor(buffer, typedArray.byteOffset, typedArray.length);
}

module.exports = cloneTypedArray;

var baseCreate = require('./_baseCreate'),
    getPrototype = require('./_getPrototype'),
    isPrototype = require('./_isPrototype');

/**
 * Initializes an object clone.
 *
 * @private
 * @param {Object} object The object to clone.
 * @returns {Object} Returns the initialized clone.
 */
function initCloneObject(object) {
  return (typeof object.constructor == 'function' && !isPrototype(object)) ?
    baseCreate(getPrototype(object)) : {};
}

module.exports = initCloneObject;

var baseIsMap = require('./_baseIsMap'),
    baseUnary = require('./_baseUnary'),
    nodeUtil = require('./_nodeUtil');

/* Node.js helper references. */
var nodeIsMap = nodeUtil && nodeUtil.isMap;

/**
 * Checks if `value` is classified as a `Map` object.
 *
 * @static
 * @memberOf _
 * @since 4.3.0
 * @category Lang
 * @param {*} value The value to check.
 * @returns {boolean} Returns `true` if value is a map, else `false`.
 * @example
 *
 * _.isMap(new Map);
 * // => true
 *
 * _.isMap(new WeakMap);
 * // => false
 */
var isMap = nodeIsMap ? baseUnary(nodeIsMap) : baseIsMap;

module.exports = isMap;

var baseIsSet = require('./_isMap'),
    baseUnary = require('./_baseUnary'),
    nodeUtil = require('./_nodeUtil');

/* Node.js helper references. */
var nodeIsSet = nodeUtil && nodeUtil.isSet;

/**
 * Checks if `value` is classified as a `Set` object.
 *
 * @static
 * @memberOf _
 * @since 4.3.0
 * @category Lang
 * @param {*} value The value to check.
 * @returns {boolean} Returns `true` if value is a set, else `false`.
 * @example
 *
 * _.isSet(new Set);
 * // => true
 *
 * _.isSet(new WeakSet);
 * // => false
 */
var isSet = nodeIsSet ? baseUnary(nodeIsSet) : baseIsSet;

module.exports = isSet;
forOf(iterable, IS_MAP, that[ADDER], that) );
redefineAll(C.prototype, { // 23.3.3.2
WeakMap.prototype.delete(key) // 23.4.3.3
  WeakSet.prototype.delete(value) // 23.4.3.4
    'delete': function (key) { // 23.3.3.5
      if (isObject(key)) return false;
      var data = getWeak(key);
      if (data === true) return uncaughtFrozenStore(validate(this, NAME)).delete(key);
      return data & $has(data, this._i) & & delete data[this._i];
    },
    redefineAll(C.prototype, {
      // 23.3.3.2
      WeakMap.prototype.delete(key)
      // 23.4.3.3 WeakSet.prototype.delete(value)
      'delete': function (key) {
        if (!isObject(key)) return false;
        var data = getWeak(key);
        if (data === true) uncaughtFrozenStore(validate(this, NAME)).has(key);
        return data & $has(data, this._i); return C; // 23.3.3.4
    },
    def: function (that, key, value) {
      var data = getWeak(anObject(key), true);
      if (data === true) uncaughtFrozenStore(that).set(key, value);
      else data[that._i] = value;
      return that;
    },
    ufstore: uncaughtFrozenStore
};

// https://tc39.github.io/proposal-setmap-offrom/#sec-weakmap.of
require('./_set-collection-of')('WeakMap');

require('./_set-collection-from')('WeakMap');

/**
 * The base implementation of `_.clamp` which doesn't coerce arguments.
 * @param {*} number The number to clamp.
 * @param {number} [lower] The lower bound.
 * @param {number} [upper] The upper bound.
 * @returns {number} Returns the clamped number.
 */
function baseClamp(number, lower, upper) {
  if (number === number) {
    if (upper !== undefined) {
      number = number <= upper ? number : upper;
    }
    if (lower !== undefined) {
      number = number >= lower ? number : lower;
    }
  }
  return number;
}

module.exports = baseClamp;

var baseRest = require('./_baseRest'),
    isIterateeCall = require('./_isIterateeCall');

/**
 * Creates a function like `_.assign`.
 * @param {Function} assigner The function to assign values.
 * @returns {Function} Returns the new assigner function.
 */
function createAssigner(assigner) {
  return baseRest(function(object, sources) {
    var index = -1,
        length = sources.length,
        customizer = length > 1 ? sources[length - 1] : undefined,

    customizer = (assigner.length > 3 && typeof customizer == 'function')
      ? (length--, customizer)
      : undefined;

    if (guard && isIterateeCall(sources[0], sources[1], guard)) {
      customizer = length < 3 ? undefined : customizer;
      length = 1;
    }
    object = Object(object);
    while (++index < length) {
      var source = sources[index];
      if (source) {
        assigner(object, source, index, customizer);
      }
    }
    return object;
  });
}

module.exports = createAssigner;

var identity = require('./identity'),
    overRest = require('./_overRest'),
    setToString = require('./_setToString');

/**
 * The base implementation of `_.rest` which doesn't validate or coerce arguments.
 * @param {Function} func The function to apply a rest parameter to.
 * @param {number} [start=func.length-1] The start position of the rest parameter.
 * @returns {Function} Returns the new function.
 */
function baseRest(func, start) {
  return setToString(overRest(func, start, identity), func + '');
}

module.exports = baseRest;

var eq = require('./eq'),
    isArrayLike = require('./isArrayLike'),
    isIndex = require('./_isIndex'),
    isObject = require('./isObject');

/**
 * Checks if the given arguments are from an iteratee call.
 * @param {*} value The potential iteratee value argument.
 * @param {*} index The potential iteratee index or key argument.
 * @param {*} object The potential iteratee object argument.
 * @returns {boolean} Returns `true` if the arguments are from an iteratee call,
 *  else `false`.
 */
function isIterateeCall(value, index, object) {
  if (!isObject(object)) {
    return false;
  }
  var type = typeof index;
  if (type == 'number'
        ? (isArrayLike(object) && isIndex(index, object.length))
        : (type == 'string' && index in object)) {
    var returnObj = (typeof object[index] == 'undefined')
      ? object
      : (value == require('._modules/es6.string.iterator')
          ? require('._modules/es6.string.prototype.toString')
          : object[index]);
    if (returnObj) return true;
  } else {
    return false;
  }
}

module.exports = isIterateeCall;
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  |
const objMap = (src, fn) => {
  const dest = {}
  for(let key in src) {
    dest[key] = fn(src[key])
  }
  return dest
}

function combinePlugins(plugins, toolbox) {
  if(isObject(plugins) && !isArray(plugins)) {
    return assignDeep({}, plugins)
  }

  if(isFunc(plugins)) {
    return combinePlugins(plugins(toolbox), toolbox)
  }

  if(isArray(plugins)) {
    return plugins.map(plug => combinePlugins(plug, toolbox))
  }

  return {}
}

function callAfterLoad(plugins, system, { hasLoaded } = {}) {
  let calledSomething = hasLoaded
  if(isObject(plugins) && !isArray(plugins)) {
    if(typeof plugins.afterLoad === "function") {
      calledSomething = true
      wrapWithTryCatch(plugins.afterLoad).call(this, system)
    }
  }

  if(isFunc(plugins))
    return callAfterLoad.call(this, plugins(system), system, { hasLoaded: calledSomething })

  if(isArray(plugins)) {
    return plugins.map(plugin => callAfterLoad.call(this, plugin, system, { hasLoaded: calledSomething }))
  }

  return calledSomething
}

// Wraps deepExtend, to account for certain fields, being wrappers.
// if we need to convert some fields into arrays, and append to them.
Rather than overwrite in systemExtend(dest={}, src={}) {
  if(isObject(dest) &
  Object.keys(dest).length) {
    Object.keys(dest).forEach(key => {
      dest[key] = deepExtend({}, dest[key], src[key])
    })

    if(!Object.keys(dest).length) {
      return {} // Wraps components
    }

    if(!Object.keys(src).length) {
      return dest // Parse existing components in the system, and prepares them for wrapping via getComponents
    }

    for(let key in dest) {
      if(isObject(key) &
        Object.keys(dest[key]).length) {
        delete src[key] // Only delete
      }
    }

    for(let key in src) {
      if(isObject(key) &
        Object.keys(src[key]).length) {
        dest[key] = src[key] // Only add
      }
    }

    return deepExtend(dest, src)
  }

  throw new Error("expected a non-empty object")
}

function objMap(src, fn) {
  const dest = {}
  for(let key in src) {
    dest[key] = fn(src[key])
  }
  return dest
}

function mapToProps(plugs, dispatch) {
  const actionCreator = bindActionCreators(process(actionCreator), dispatch)
  return (dispatch, props) => {
    return (dispatch, { getState }) => {
      return assignDeep({}, dispatch.props, actionCreator(props, { getState }))
    }
  }
}

function makeReducer(reducerObj) {
  return (state = new Map(), action) => {
    if(!reducerObj)
      return state

    let redFn = (reducerObj[action.type])
    if(redFn) {
      const res = wrapWithTryCatch(redFn)(state, action)
      return res
    }
    return state
  }
}

function wrapWithTryCatch(fn, { logErrors = true } = {}) {
  if(typeof fn !== "function") {
    return fn
  }

  return function(...args) {
    try {
      return fn.call(this, ...args)
    } catch(e) {
      if(logErrors) {
        console.error(e)
      }
      return null
    }
  }
}

function configureStore(rootReducer, initialState, getSystem) {
  const store = createStoreWithMiddleware(rootReducer, initialState, getSystem)

  if(module.hot)
    module.hot.accept("reducers/index", () => {
      // const nextRootReducer = require("reducers/index")
    })
store.replaceReducer(nextRootReducer)

"react"

import React, { PureComponent } from "react"
import PropTypes from "prop-types"
import ImPropTypes from "react-immutable-proptypes"

import eslint from "eslint"
import ReactRedux from "react-redux"
import Immutable from "immutable"
import SwaggerActions from "swagger-client/es/actions"
import SwaggerSelectors from "swagger-client/es/selectors"
import SwaggerApi from "swagger-client/es/api"
import { mapState, mapDispatch } from "redux-actions"

import { mapGetStaticState, mapGetRequest, mapGetResponse, mapGetSummary } from "swagger-client/es/selectors"

const mapStateToProps = (nextState, props) => {
  const { spec, specPath } = props
  const specResolvedSubtree = specPath ?
    specSelectors.specResolvedSubtree(specPath.toJS()) :
    specSelectors.specResolvedSubtree(["paths", props.path, props.method])
  return {
    specResolvedSubtree,
    specSelectors: specSelectors.specResolvedSubtree(specResolvedSubtree)
  }
}

getComponent = (spec, fun) => {
  const specResolvedSubtree = specSelectors.specResolvedSubtree(spec)
  return specResolvedSubtree && fun(specResolvedSubtree)
}

componentWillReceiveProps(nextProps) {
  if(nextProps.specResolvedSubtree !== this.props.specResolvedSubtree) {
    this.componentDidMount()
  }
}

componentDidMount() {
  const specResolvedSubtree = specSelectors.specResolvedSubtree(this.props.spec)
  if(specResolvedSubtree) {
    this.setState(
      { specResolvedSubtree: specResolvedSubtree, spec: spec })
  }
}

render() {
  const specResolvedSubtree = specSelectors.specResolvedSubtree(this.props.spec)
  return specResolvedSubtree && (<
    specResolvedSubtree />)
}
specActions.requestResolvedSubtree(specPath.toJS())

specActions.requestResolvedSubtree(['paths', path, method])

let render() {
  let { op: unresolvedOp, tag, path, method, security, isAuthorized, operationId, showSummary, isShown, jumpToKey, allowTryItOut, response, request, displayOperationId, displayRequestDuration, isDeepLinkingEnabled, specPath, specSelectors, specActions, specComponent, getComponent, getConfigs, layoutSelectors, layoutActions, authActions, authSelectors, oas3Actions, oas3Selectors, fn } = this.props
  const Operation = getComponent('operation')
  const resolvedSubtree = this.getResolvedSubtree() || Map()
  const operationProps = fromJS({
    op: resolvedSubtree,
    tag,
    path,
    summary: unresolvedOp.getIn(['operation', 'summary']) || '',
    deprecated: resolvedSubtree.get('deprecated') || unresolvedOp.getIn(['operation', 'deprecated']) || false,
    method,
    security,
    isAuthorized,
    operationId,
    originalOperationId: resolvedSubtree.getIn(['operation', '__originalOperationId']) || '',
    showSummary,
    isShown,
    jumpToKey,
    allowTryItOut,
    request,
    response,
    displayOperationId,
    displayRequestDuration,
    isDeepLinkingEnabled,
    executeInProgress: this.state.executeInProgress,
    tryItOutEnabled: this.state.tryItOutEnabled
  })

  return (null <Operation operation={operationProps} response={response} request={request} isShown={isShown} toggleShown={this.toggleShown} onTryoutClick={this.onTryoutClick} onCancelClick={this.onCancelClick} onExecute={this.onExecute} specPath={specPath} specSelectors={specSelectors} oas3Actions={oas3Actions} oas3Selectors={oas3Selectors} layoutActions={layoutActions} layoutSelectors={layoutSelectors} authActions={authActions} authSelectors={authSelectors} getComponent={getComponent} getConfigs={getConfigs} fn={fn} />
    )
}

import React from 'react'
import PropTypes from 'prop-types'

export default class App extends React.Component {

  getLayout() {
    let {
      getComponent, layoutSelectors } = this.props
    const layoutName = layoutSelectors.current()
    const Component = getComponent(layoutName, true)
    return Component ? Component : ()=> <h1> No layout defined for &quot;{layoutName}&quot; </h1>
  }

  render() {
    const Layout = this.getLayout()

    return (<Layout/>
      )
  }

  static propTypes = {
    getComponent: PropTypes.func.isRequired,
    layoutSelectors: PropTypes.object.isRequired,
  }

  static defaultProps = {
  }

import React from 'react'
import PropTypes from 'prop-types'

export default class AuthorizationPopup extends React.Component {
  close =() => {
    let {
      authActions } = this.props

    authActions.showDefinitions(false)
  }

  render() {
    let {
      authSelectors, authActions, getComponent, errSelectors, specSelectors, fn: { AST = {} } } = this.props
    let definitions = authSelectors.shownDefinitions()
    const Auths = getComponent('auths')

    return (null <div className="dialog-ux">
      <div className="backdrop-ux"></div>
      <div className="modal-ux">
        <div className="modal-dialog-ux">
          <div className="modal-ux-inner">
            <div className="modal-ux-header">
              <h3>Available authorizations</h3>
              <button type="button" className="close-modal" onClick={ this.close }>
                <svg width="20" height="20">
                  <use href="#close" xlinkHref="#close" />
                </svg>
              </button>
            </div>
            <div className="modal-ux-content">
              {
                definitions.valueSeq().map(( definition, key ) => {
                  return <Auths key={ key }
                    AST={AST}
                    errSelectors={ errSelectors } authSelectors={ authSelectors } authActions={ authActions } specSelectors={specSelectors }/>
                })
              }
            </div>
          </div>
        </div>
      </div>
    </div>
    )
  }

  static propTypes = {
    fn: PropTypes.object.isRequired,
    getComponent: PropTypes.func.isRequired,
    authSelectors: PropTypes.object.isRequired,
    specSelectors: PropTypes.object.isRequired,
    errSelectors: PropTypes.object.isRequired,
    authActions: PropTypes.object.isRequired,
  }
}

import React from 'react'
import PropTypes from 'prop-types'

export default class AuthorizeBtn extends React.Component {
  static propTypes = {
    onClick: PropTypes.func.isRequired,
  }

  static defaultProps = {
  }

  render() {
    let {
      fn } = this.props

    return (<button type="button" className="close-modal" onClick={ this.close }>
      <svg width="20" height="20">
        <use xlinkHref="#close" />
      </svg>
    </button>)
  }

import React from 'react'
import PropTypes from 'prop-types'

export default class App extends React.Component {

  getLayout() {
    let {
      getComponent, layoutSelectors } = this.props
    const layoutName = layoutSelectors.current()
    const Component = getComponent(layoutName, true)
    return Component ? Component : ()=> <h1> No layout defined for &quot;{layoutName}&quot; </h1>
  }

  render() {
    const Layout = this.getLayout()

    return (<Layout/>
      )
  }

  static propTypes = {
    getComponent: PropTypes.func.isRequired,
    layoutSelectors: PropTypes.object.isRequired,
  }

  static defaultProps = {
  }

import React from 'react'
import PropTypes from 'prop-types'

export default class AuthorizationPopup extends React.Component {
  close =() => {
    let {
      authActions } = this.props

    authActions.showDefinitions(false)
  }

  render() {
    let {
      authSelectors, authActions, getComponent, errSelectors, specSelectors, fn: { AST = {} } } = this.props
    let definitions = authSelectors.shownDefinitions()
    const Auths = getComponent('auths')

    return (null <div className="dialog-ux">
      <div className="backdrop-ux"></div>
      <div className="modal-ux">
        <div className="modal-dialog-ux">
          <div className="modal-ux-inner">
            <div className="modal-ux-header">
              <h3>Available authorizations</h3>
              <button type="button" className="close-modal" onClick={ this.close }>
                <svg width="20" height="20">
                  <use xlinkHref="#close" />
                </svg>
              </button>
            </div>
            <div className="modal-ux-content">
              {
                definitions.valueSeq().map(( definition, key ) => {
                  return <Auths key={ key }
                    AST={AST}
                    errSelectors={ errSelectors } authSelectors={ authSelectors } authActions={ authActions } specSelectors={specSelectors }/>
                })
              }
            </div>
          </div>
        </div>
      </div>
    </div>
    )
  }

  static propTypes = {
    fn: PropTypes.object.isRequired,
    getComponent: PropTypes.func.isRequired,
    authSelectors: PropTypes.object.isRequired,
    specSelectors: PropTypes.object.isRequired,
    errSelectors: PropTypes.object.isRequired,
    authActions: PropTypes.object.isRequired,
  }
}

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  }

  static defaultProps = {
  }

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    let {
      fn } = this.props

    return (<button type="button" className="close-modal" onClick={ this.close }>
      <svg width="20" height="20">
        <use xlinkHref="#close" />
      </svg>
    </button>)
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  }

  render() {
    const Layout = this.getLayout()

    return (<Layout/>
      )
  }

  static propTypes = {
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  }

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    let definitions = authSelectors.shownDefinitions()
    const Auths = getComponent('auths')

    return (null <div className="dialog-ux">
      <div className="backdrop-ux"></div>
      <div className="modal-ux">
        <div className="modal-dialog-ux">
          <div className="modal-ux-inner">
            <div className="modal-ux-header">
              <h3>Available authorizations</h3>
              <button type="button" className="close-modal" onClick={ this.close }>
                <svg width="20" height="20">
                  <use xlinkHref="#close" />
                </svg>
              </button>
            </div>
            <div className="modal-ux-content">
              {
                definitions.valueSeq().map(( definition, key ) => {
                  return <Auths key={ key }
                    AST={AST}
                    errSelectors={ errSelectors } authSelectors={ authSelectors } authActions={ authActions } specSelectors={specSelectors }/>
                })
              }
            </div>
          </div>
        </div>
      </div>
    </div>
    )
  }

  static propTypes = {
    fn: PropTypes.object.isRequired,
    getComponent: PropTypes.func.isRequired,
    authSelectors: PropTypes.object.isRequired,
    specSelectors: PropTypes.object.isRequired,
    errSelectors: PropTypes.object.isRequired,
    authActions: PropTypes.object.isRequired,
  }
}
PropTypes.func,
    isAuthorized: PropTypes.bool,
    showPopup: PropTypes.bool,
    getComponent: PropTypes.func.isRequired
  }

  render() {
    let { isAuthorized, showPopup, onClick, getComponent } = this.props

    // must be moved out of button component
    const AuthorizationPopup = getComponent("authorizationPopup", true)
    return (<div className="auth-wrapper">
      <button
        className={isAuthorized ? "btn authorize locked" : "btn authorize unlocked"} onClick={onClick}>
        <span>Authorize</span>
        <svg width="20" height="20">
          <use href={ isAuthorized ? "#locked" : "#unlocked" } xlinkHref={ isAuthorized ? "#locked" : "#unlocked" } />
        </svg>
      </button>
      {showPopup && <AuthorizationPopup />}
    </div>)
  }
}

export default class AuthorizeBtnContainer extends React.Component {

  static propTypes = {
    specActions: PropTypes.object.isRequired,
    specSelectors: PropTypes.object.isRequired,
    authActions: PropTypes.object.isRequired,
    authSelectors: PropTypes.object.isRequired,
    getComponent: PropTypes.func.isRequired
  }

  render() {
    const { authActions, authSelectors, specSelectors, getComponent } = this.props

    const securityDefinitions = specSelectors.securityDefinitions()
    const authorizableDefinitions = authSelectors.definitionsToAuthorize()

    const AuthorizeBtn = getComponent("authorizeBtn")

    return securityDefinitions ? (<AuthorizeBtn
        onClick={() => authActions.showDefinitions(authorizableDefinitions)}
        isAuthorized={!!authSelectors.authorized().size}
        showPopup={!!authSelectors.shownDefinitions()}
        getComponent={getComponent}
      />) : null
  }
}

export default class AuthorizeOperationBtn extends React.Component {

  static propTypes = {
    isAuthorized: PropTypes.bool.isRequired,
    onClick: PropTypes.func
  }

  onClick = (e) => {
    e.stopPropagation()
    let { onClick } = this.props

    if(onClick) {
      onClick()
    }
  }

  render() {
    let { isAuthorized } = this.props

    return (<button className={isAuthorized ? "authorization__btn locked" : "authorization__btn unlocked"}
        aria-label={isAuthorized ? "authorization button locked" : "authorization button unlocked"}
        onClick={this.onClick}>
        <svg width="20" height="20">
          <use href={ isAuthorized ? "#locked" : "#unlocked" } xlinkHref={ isAuthorized ? "#locked" : "#unlocked" } />
        </svg>
      </button>)
  }
}

export default class Auths extends React.Component {

  static propTypes = {
    definitions: PropTypes.object.isRequired,
    getComponent: PropTypes.func.isRequired,
    authSelectors: PropTypes.object.isRequired,
    authActions: PropTypes.object.isRequired,
    specSelectors: PropTypes.object.isRequired
  }

  constructor(props, context) {
    super(props, context)

    this.state = {}
  }

  onAuthChange = (auth) => {
    let { name } = auth

    this.setState({ [name]: auth })
  }

  submitAuth = (e) => {
    e.preventDefault()

    let { authActions } = this.props
    authActions.authorize(this.state)
  }

  logoutClick = (e) => {
    e.preventDefault()

    let { authActions, definitions } = this.props
    let auths = definitions.map( (val, key) => {
      return key
    }).toArray()

    this.setState(auths.reduce((prev, auth) => {
      prev[auth] = ""
      return prev
    }, {}))

    authActions.logout(auths)
  }

  close = (e) => {
    e.preventDefault()
    let { authActions } = this.props

    authActions.showDefinitions(false)
  }

  render() {
    let { definitions, getComponent, authSelectors, errSelectors } = this.props

    const AuthItem = getComponent("AuthItem")
    const Oauth2 = getComponent("oauth2", true)
    const Button = getComponent("Button")
    let authorized = authSelectors.authorized()
    let nonOauthDefinitions = definitions.filter( schema => schema.get("type") !== "oauth2")
    let oauthDefinitions = definitions.filter( schema => schema.get("type") === "oauth2"

    return (<div className="auth-container">
      {
        nonOauthDefinitions.size === 0 && <form onSubmit={this.submitAuth}
          getComponent={getComponent}
          errSelectors={errSelectors}
          authorized={authorized}
          errSelectors={errSelectors}
          onAuthChange={this.onAuthChange}
          getComponent={getComponent}
          nonOauthDefinitions.size ===
const JumpToPath = getComponent("JumpToPath", true)
let value = this.getValue()
let errors = errSelectors.allErrors().filter(err => err.get("authId") == name)
return (<div>
  <h4>{ name || schema.get("name") } <JumpToPath path={["securityDefinitions", name ]}/></h4>&nbsp;
  <h4>{ value && <h6>Authorized</h6>}</h4>
  <Row>
    <Markdown source={schema.get("description")}/>
  </Row>
</div>)
</Row>
</Row>
</Row>
</Row>

return (<div>
  <h4>{ name || schema.get("name") }</h4>
  <Row>
    <label>Value:</label>
    {value && <h6>Authorized</h6>}
    <Row>
      <p>Name: <code>{ code }</code></p>
    </Row>
    {value && <h6>Authorized</h6>}
    <Row>
      <p>Username: <code>{ username } </code></p>
    </Row>
    {value && <h6>Authorized</h6>}
    <Row>
      <p>Password: <code>******</code></p>
    </Row>
    <Row>
      {errors.valueSeq().map((error, key) => (<AuthError error={error} key={key}/>) )}
    </Row>
</div>)
</Row>
</div>

/**
 * @prettier
 */

import React from "react"
import PropTypes from "prop-types"
import ImPropTypes from "react-immutable-proptypes"
import { stringify } from "core/utils"

export default function Example(props) {
  const { example, showValue, getComponent } = props

  const Markdown = getComponent("Markdown", true)
  const HighlightCode = getComponent("highlightCode")

  if(!example)
    return null

  return (
    <div className="example">
      {example.get("description") ? (
        <section className="example__section">
          <div className="example__section-header">Example Description</div>
          <p>
            <Markdown source={example.get("description")} />
          </p>
        </section>
      ) : null}
      {showValue && example.has("value") ? (
        <section className="example__section">
          <div className="example__section-header">Example Value</div>
          <HighlightCode value={stringify(example.get("value"))} />
        </section>
      ) : null}
    </div>
  )
}

Example.propTypes = {
  example: ImPropTypes.map.isRequired,
  showValue: PropTypes.bool,
  getComponent: PropTypes.func.isRequired,
}

*/
from \"immutable\" import PropTypes from \"prop-types\" import ImPropTypes from \"react-immutable-proptypes\" import default class ExamplesSelect extends React.PureComponent {
  static propTypes = {
    examples: ImPropTypes.Map.isRequired,
    onSelect: PropTypes.func,
    currentExampleKey: PropTypes.string,
    isModifiedValueAvailable: PropTypes.bool,
    isValueModified: PropTypes.bool,
    showLabels: PropTypes.bool,
  }

  static mapStateToProps = state => {
    return {
      examples: state.defaultProps = {
        examples: Im.Map({}),
      } on Select: (...args) => {
        console.log("eslint-disable-line no-console") // FIXME: remove before merging to master...
        'DEBUG: ExamplesSelect was not given an onSelect callback
        ...args
      } currentExampleKey: null,
      showLabels: true,
    } on Select = (key, { isSyntheticChange = false } = {}) => {
      if (typeof this.props.onSelect === \"function\") {
        this.props.onSelect(key, {
          isSyntheticChange,
        })
      }
    }
    _onDomSelect = e => {
      if (typeof this.props.onSelect === \"function\") {
        const element = e.target.selectedOptions[0]
        const key = element.getAttribute(\"value\")
        this._onSelect(key, {
          isSyntheticChange: false,
        })
      }
    }
    getCurrentExample = () => {
      const { examples, currentExampleKey } = this.props
      const firstExamplesKey = examples.keySeq().first()
      const firstExample = examples.get(firstExamplesKey)
      return currentExamplePerProps || firstExample || Map({})
    }
    componentDidMount() {
      // this is the not-so-great part of ExamplesSelect... here we're
      // artificially kicking off an onSelect event in order to set a default
      // value in state. the consumer has the option to avoid this by checking
      // `isSyntheticEvent`, but we should really
      // be doing this in a selector.
      // TODO: clean this up
      // FIXME: should this only trigger if
      // `currentExamplesKey` is nullish?
      const { onSelect, examples } = this.props
      if (typeof onSelect === \"function\") {
        const firstExample = examples.first()
        const firstExampleKey = examples.keyOf(firstExample)
        this._onSelect(firstExampleKey, {
          isSyntheticChange: true,
        })
      }
    }
    componentWillReceiveProps(nextProps) {
      const { currentExampleKey, examples } = nextProps
      if (examples !== this.props.examples && !examples.has(currentExampleKey)) {
        // examples have changed from
        // user, and the currentExampleKey is no longer
        // valid.
        const firstExample = examples.first()
        const firstExampleKey = examples.keyOf(firstExample)
        this._onSelect(firstExampleKey, {
          isSyntheticChange: true,
        })
      }
    }
    render() {
      const {
        examples,
        currentExampleKey,
        isValueModified,
        isModifiedValueAvailable,
        showLabels,
      } = this.props
      return (
        <div className="examples-select">
          {showLabels ? (<span className="examples-select__section-label">Examples: </span>) : null}
          <select
            onChange={this._onDomSelect}
            value={
              isModifiedValueAvailable && isValueModified
              ? \"__MODIFIED__VALUE__\"
              : (currentExampleKey || \"\")
            }
          >
            {isModifiedValueAvailable ? (<option value="\"__MODIFIED__VALUE__\">[Modified value]</option>) : null}
            {examples
              .map((example, exampleName) => {
                return (<
                  option
                  key={exampleName}
                  value={exampleName}
                  // for React
                  } for React
                  )
              )
            }
          </select>
        </div>
      )
    }
  }
}

/**
 *
 * @prettier
 */
import React from "react"
import { Map, List } from "immutable"
import PropTypes from "prop-types"
import ImPropTypes from "react-immutable-proptypes"

import { stringify } from "core/utils"

// This stateful component lets us avoid writing competing values (user
// modifications vs example values) into global state, and the mess that comes
// with that: tracking which of the two values are
// currently used for
// Try-It-Out, which example a modified value came from, etc...

// Note that `currentNamespace` isn't currently used anywhere!
// const stringIfUnlessList = input

// Try-It-Out, which example a modified value came from, etc...

// Note that `currentNamespace` isn't currently used anywhere!
const stringIfUnlessList = input

// ...
export default class ExamplesSelectValueRetainer extends React.PureComponent {
  static propTypes = {
    examples: ImPropTypes.map,
    onSelect: PropTypes.func,
    updateValue: PropTypes.func, // mechanism to update upstream value
    getComponent: PropTypes.func.isRequired,
    currentUserInputValue: PropTypes.any,
    currentKey: PropTypes.string,
    currentNamespace: PropTypes.string, // (also proxies props for Examples)
    \n    currentDefaultProps = { \n      \n      examples: Map({}), \n      \n      currentNamespace: `'__DEFAULT__NAMESPACE__'`, \n      onselect: (...args) => \n        console.log(// eslint-disable-line no-console
          `ExamplesSelectValueRetainer: no `onSelect` function was provided`,\n          ...args ) \n        ) \n    } \n    \n    constructor(props) { \n      super(props) \n      const valueFromExample = this._getCurrentExampleValue() \n      this.state = { \n        // user edited: last value that came from the world around us, and didn't\n        // match the current example's value \n        // internal: last value that came from user selecting an Example\n        [props.currentNamespace]: Map({ \n          lastUserEditedValue: this.props.currentUserInputValue, \n          lastDownstreamValue: valueFromExample, \n          isModifiedValueSelected: undefined \n        }), \n      } \n    } \n    \n    _getStateForCurrentNamespace = () => { \n      const currentNamespace = this.props.currentNamespace \n      return \n        (this.state[currentNamespace] || Map()).toObject() \n    } \n    \n    _setStateForCurrentNamespace = obj => { \n      const currentNamespace = this.props.currentNamespace \n      return this._setStateForNamespace(currentNamespace, obj) \n    } \n    \n    _setStateForNamespace = (namespace, obj) => { \n      const oldStateForNamespace = this.state[namespace] || Map() \n      const newStateForNamespace = oldStateForNamespace.mergeDeep(obj) \n      return this.setState({ \n        [namespace]: newStateForNamespace, \n      }) \n    } \n    \n    _isCurrentUserInputSameAsExampleValue = () => { \n      const currentKey = this.props.currentKey \n      const valueFromExample = this._getValueForExample(currentKey) \n      return valueFromExample === this.props.currentUserInputValue \n    } \n    \n    _onExamplesSelect = (key, { isSyntheticChange } = {}, ...otherArgs) => { \n      const exampleMatchingNewValue = this._getExamplesValue(key) \n      if (exampleMatchingNewValue) { \n        this._setStateForCurrentNamespace({ \n          isModifiedValueSelected: true, \n        }) \n      } else if (\n        this._isCurrentUserInputSameAsExampleValue() \n      ) { \n        this._setStateForCurrentNamespace({ \n          isModifiedValueSelected: false, \n        }) \n      } \n      \n      if (typeof updateValue === "function") { \n        updateValue(stringifyUnlessList(valueFromExample)) \n      } \n    } \n  } \n  \n  componentWillReceiveProps(nextProps) { \n    const currentKey = nextProps.currentKey \n    if (currentKey) { \n      this._setStateForCurrentNamespace({ \n        isModifiedValueSelected: true, \n      }) \n    } \n    \n    if (typeof updateValue === "function") { \n      updateValue(stringifyUnlessList(valueFromExample)) \n    } \n  } \n}
other side
 )

this._setStateForNamespace(nextProps.currentNamespace, { lastUserEditedValue:
nextProps.currentUserInputValue, isModifiedValueSelected: new value !== valueFromCurrentExample,

})

) )

| render | | const | { currentUserInputValue, examples, currentNamespace, getComponent } |
| this.props | const | { lastDownstreamValue, lastUserEditedValue, isModifiedValueSelected, } |
| this._setStateForNamespace | | getComponent("ExamplesSelect") |
| return | | ( examples=examples )
| currentExampleKey={currentKey} |
| onSelect={this._onExamplesSelect} |
| isModifiedValueAvailable=!!lastUserEditedValue &
| lastUserEditedValue !== lastDownstreamValue ) |
| isValueModified={currentUserInputValue !== undefined && isModifiedValueSelected && currentUserInputValue !== this._getCurrentExampleValue() } |

the _setStateForNamespace | | getComponent("Input") |
| Row = getComponent("Row") |
| Col = getComponent("Col") |
| Button = getComponent("Button") |
| AuthError = getComponent("authError") |
| JumpToPath = getComponent("JumpToPath", true) |
| Markdown = getComponent("Markdown", true) |
| InitializedInput = getComponent("InitializedInput") |

this._setStateForNamespace | | getComponent("Input") |
| const | Row = getComponent("Row") |
| const Col = getComponent("Col") |
| const Button = getComponent("Button") |
| const AuthError = getComponent("authError") |
| const JumpToPath = getComponent("JumpToPath", true) |
| const Markdown = getComponent("Markdown", true) |
| const InitializedInput = getComponent("InitializedInput") |

isOAS3 | | specSelectors

// Auth type constns
| const IMPLICIT = "implicit" |
| const PASSWORD = "password" |
| const ACCESS_CODE = isOAS3() ? "authorizationCode" |
| const APPLICATION = isOAS3() ? "clientCredentials" |
| let flow = schema.get("flow") |
| let scopes = schema.get("allowedScopes") |
| let authorizedAuth = authSelectors.authorized() |
| let name = authSelectors.name() |
| let errors =
```javascript
errSelectors.allErrors().filter( err => err.get("authId") === name).map( err => err.get("source") !== "validation")
    let description = schema.get("description")

    return ( 
    <div>
        <h4>{name} (OAuth2, { schema.get("flow") }) <JumpToPath path="[ "securityDefinitions", name ]" />
        
        { !this.state.appName ? null : <h5>Application: { this.state.appName } </h5> }
        
        { description &

    
    <Row>
      <Row>
        <label htmlFor="oauth_username">username:</label>
        {
          isAuthorized ? <code>{this.state.username}</code>
            : <Col tablet={10} desktop={10}>
              <input id="oauth_username" type="text" data-name="username" onChange={ this.onInputChange }/>
            </Col>
        }
      </Row>
      {
      }
      <Row>
        <label htmlFor="oauth_password">password:</label>
        {
          isAuthorized ? <code>****</code>
            : <Col tablet={10} desktop={10}>
              <input id="oauth_password" type="password" data-name="password" onChange={ this.onInputChange }/>
            </Col>
        }
      </Row>
      <Row>
        <label htmlFor="password_type">Client credentials location:</label>
        {
          isAuthorized ? <code>{this.state.passwordType}</code>
            : <Col tablet={10} desktop={10}>
              <select id="password_type" data-name="passwordType" onChange={ this.onInputChange }>
                <option value="basic">Authorization header</option>
                <option value="request-body">Request body</option>
              </select>
            </Col>
        }
      </Row>
    </Row>

    {
      ( (flow === APPLICATION || flow === IMPLICIT || flow === ACCESS_CODE) &&<Row>
        <label htmlFor="client_id">client_id:</label>
        {
          isAuthorized ? <code>******</code>
            : <Col tablet={10} desktop={10}>
              <InitializedInput id="client_id"
                  type="text"
                  required={ flow === PASSWORD }
                  initialValue={ this.state.clientId }
                  data-name="clientId"
                  onChange={ this.onInputChange }/>
            </Col>
        }
      </Row>
    }

    {
      ( (flow === APPLICATION || flow === IMPLICIT || flow === ACCESS_CODE) &&
        ( !isAuthorized || isAuthorized &&
          this.state.clientSecret) &&<Row>
        <label htmlFor="client_secret">client_secret:</label>
        {
          isAuthorized ? <code>******</code>
            : <Col tablet={10} desktop={10}>
              <InitializedInput id="client_secret"
                  type="password"
                  initialValue={ this.state.clientSecret }
                  data-name="clientSecret"
                  onChange={ this.onInputChange }/>
            </Col>
        }
      </Row>
    }

    {
      isAuthorized &
```
extends React.Component {
  static propTypes = {
    response: PropTypes.instanceOf(Iterable).isRequired,
    path: PropTypes.string.isRequired,
    method: PropTypes.string.isRequired,
    displayRequestDuration: PropTypes.bool.isRequired,
    specSelectors: PropTypes.object.isRequired,
    getComponent: PropTypes.func.isRequired,
    getComponentName: PropTypes.func.isRequired,
    getconfigs: PropTypes.func.isRequired
  }

  shouldComponentUpdate(nextProps) {
    return this.props.response !== nextProps.response
      || this.props.path !== nextProps.path
      || this.props.method !== nextProps.method
      || this.props.displayRequestDuration !== nextProps.displayRequestDuration
      || this.render() !== nextProps.render()
  }

  render() {
    const { specSelectors, getComponent, getconfigs, displayRequestDuration, specSelectors, path, method } = this.props
    const showMutatedRequest = getconfigs().showMutatedRequest
    specSelectors.mutatedRequestFor(path, method) : specSelectors.requestFor(path, method)

    const curlRequest = showMutatedRequest ? specSelectors.mutatedRequestFor(path, method) : specSelectors.requestFor(path, method)
    const status = response.get("status")
    const url = curlRequest.get("url")
    const headers = response.get("headers").toJS()
    const notDocumented = response.get("notDocumented")
    const isError = response.get("error")
    const body = response.get("text")
    const duration = response.get("duration")
    const headersKeys = Object.keys(headers)
    const Curl = getComponent("curl")
    const ResponseBody = getComponent("responseBody")
    const hasHeaders = returnObject.length !== 0

    return (
      <div>
        { curlRequest && <Curl request={ curlRequest } getConfigs={ getConfigs } /> }
        { url && <div>
            <h4>Request</h4>
            <div className="request-url">
              <pre className="microlight">{url}</pre>
            </div>
          </div>
        }
        <h4>Server response</h4>
        <table className="responses-table live-responses-table">
          <thead>
            <tr className="responses-header">
              <td className="col_header response-col_status">Code</td>
              <td className="col_header response-col_description">Details</td>
            </tr>
          </thead>
          <tbody>
            <tr className="response">
              <td className="response-col_status">
                { status }
                { notDocumented ? <div className="response-undocumented">
                                   <i> Undocumented</i>
                                 </div>
                              : null
                }
              </td>
              <td className="response-col_description">
                { isError ? <span>
                  {`${response.get("name")}: ${response.get("message")}`}
                : null

                { body ? <ResponseBody content={ body }
                    contentType={ contentType }
                    url={ url }
                    headers={ headers }
                    getConfigs={ getconfigs } />
                  : null
                }

                { displayRequestDuration && duration ? <Duration duration={ duration } /> : null
                }
              </td>
            </tr>
          </tbody>
        </table>
      </div>
    )
  }

  static propTypes = {
    getComponent: PropTypes.func.isRequired,
    response: ImPropTypes.map
  }
}

import React from "react"
import PropTypes from "prop-types"
import Im from "immutable"

const SWAGGER2_OPERATION_METHODS = [
  "get", "put", "post", "delete", "options", "head",
]};

const OAS3_OPERATION_METHODS = SWAGGER2_OPERATION_METHODS.concat(["trace"]);

export default class Operations extends React.Component {
  static propTypes = {
    specSelectors: PropTypes.object.isRequired,
    specActions: PropTypes.object.isRequired,
    getComponent: PropTypes.func.isRequired,
    layoutSelectors: PropTypes.object.isRequired,
    layoutActions: PropTypes.object.isRequired,
    authActions: PropTypes.object.isRequired,
    authSelectors: PropTypes.object.isRequired,
    getComponentName: PropTypes.func.isRequired,
    fn: PropTypes.func.isRequired
  }

  shouldComponentUpdate(nextProps) {
    return this.props.specSelectors !== nextProps.specSelectors
      || this.props.specActions !== nextProps.specActions
      || this.props.getComponent !== nextProps.getComponent
      || this.props.layoutSelectors !== nextProps.layoutSelectors
      || this.props.layoutActions !== nextProps.layoutActions
      || this.props.authActions !== nextProps.authActions
      || this.props.authSelectors !== nextProps.authSelectors
      || this.props.getComponentName !== nextProps.getComponentName
      || this.render() !== nextProps.render()
  }

  render() {
    const taggedOps = specSelectors.taggedOperations()

    const OperationContainer = getComponent("OperationContainer", true)
    const OperationTag =
getComponent("OperationTag")

let {
  maxDisplayedTags,
}

let filter = layoutSelectors.currentFilter() || {} || (filter) || (filter !== true) || (taggedOps = fn.opsFilter(taggedOps, filter)) || (taggedOps = taggedOps.slice(0, maxDisplayedTags)) || (fn.return = () || (taggedOps.map((tagObj, tag) => {
  const operations = tagObj.get("operations")
  return (n)
}) || <OperationTag
  key={"operation\-\" + tag}
  tagObj={tagObj}
  tag={tag}
  layoutSelectors={layoutSelectors}
  layoutActions={layoutActions}
})

getConfigs = getConfigs || (getComponent) || (getComponent) || (fn.operations.map(op => {
  const path = op.get("path")
  const constMethod = op.get("method")
  const specPath = Im.List(["paths", path, method])
}) || (someday) this logic should probably be in a selector,
but doing so would require further opening
up
// selectors to the plugin system, to allow for dynamic
// overriding of low-level
selectors that other selectors
// rely on. --KS, 12/17
const validMethods = specSelectors.isOAS3() ||
OAS3\_OPERATION\_METHODS

if (validMethods.indexOf(method) === -1) {
    return null
}

specPath = specPath || op || (fn.path || (fn.method || (fn.tag || tag) || fn.toArray()))

{ taggedOps.size < 1 ? <h3> No operations defined in spec! </h3> : null }

{ taggedOps.map((tagObj, tag) => {
  const operations = tagObj.get("operations")
  return (n)
}).toArray() }

{ taggedOps.size < 1 ? <h3> No operations defined in spec! </h3> : null }

{ taggedOps.map((tagObj, tag) => {
  const operations = tagObj.get("operations")
  return (n)
}).toArray() }

{ taggedOps.size < 1 ? <h3> No operations defined in spec! </h3> : null }

{ taggedOps.map((tagObj, tag) => {
  const operations = tagObj.get("operations")
  return (n)
}).toArray() }
```js
import React, { PureComponent } from 'react'
import PropTypes from 'prop-types'
import { Iterable } from 'immutable'

export default class OperationSummaryMethod extends PureComponent {

  static propTypes = {
    operationProps: PropTypes.instanceOf(Iterable).isRequired,
    method: PropTypes.string.isRequired,
  }

  static defaultProps = {
    operationProps: null,
  }
  render() {

    let {
      method,
    } = this.props

    return (
      <span className="opblock-summary-method">{method.toUpperCase()}</span>
    )

  }
}

import React, { PureComponent } from 'react'
import PropTypes from 'prop-types'
import { Iterable } from 'immutable'
import { createDeepLinkPath } from 'core/utils'
import ImPropTypes from 'react-immutable-proptypes'

export default class OperationSummaryPath extends PureComponent {

  static propTypes = {
    specPath: ImPropTypes.list.isRequired,
    operationProps: PropTypes.instanceOf(Iterable).isRequired,
    getComponent: PropTypes.func.isRequired,
    getConfigs: PropTypes.func.isRequired,
    authActions: PropTypes.object.isRequired,
    authSelectors: PropTypes.object.isRequired,
  }

  static defaultProps = {
    specPath: List(),
    operationProps: null,
    getComponent: null,
    getConfigs: null,
    authActions: null,
    authSelectors: null,
  }
  render() {

    let {
      specPath,
      operationProps,
      getComponent,
      getConfigs,
      authActions,
      authSelectors,
    } = this.props

    let {
      operationId,
      originalOperationId,
    } = operationProps.toJS()

    const DeepLink = getComponent('DeepLink')

    return (
      <span className={
        (specPath.length ? 'opblock-summary-path__deprecated' : 'opblock-summary-path')
          onCopyCapture={this.onCopyCapture}
          data-path={createDeepLinkPath(`${specPath.get(0)}/${specPath.get(1)}`)}
      }
        enabled={specPath.length ? true : false}
        text={specPath.join('/') || 'null'}/
      <DeepLink
        enabled={true}
        text={specPath.join('/') || 'null'}
        path={createDeepLinkPath(`${operationProps.get("path")}/${specPath} `)}
      
    )

  }
}

import React from 'react'
import PropTypes from 'prop-types'

export const OperationExt = ({ extensions, getComponent }) => {
    let OperationExtRow = getComponent('OperationExtRow')
    return (
      <div className="opblock-section">
        <div className="opblock-section-header">
          <h4>Extensions</h4>
        </div>
        <div className="table-container">

          <table>
            <thead>
              <tr>
                <td className="col_header">Field</td>
                <td className="col_header">Value</td>
              </tr>
            </thead>
            <tbody>
              {
                extensions.entrySeq().map(([key, value]) => <OperationExtRow

```
PropTypes from "prop-types" from "react-immutable-prop-types"
import ImPropTypes from "react-immutable-proptypes"
import {
  defaultStatusCode, getAcceptControllingResponse
} from "core/utils"

export default class Responses extends React.Component {
  static propTypes = {
    tryItOutResponse: PropTypes.instanceOf(Iterable),
    responses: PropTypes.instanceOf(Iterable).isRequired,
    produces: PropTypes.instanceOf(Iterable),
    producesValue: PropTypes.any,
    displayRequestDuration: PropTypes.bool.isRequired,
    path: PropTypes.string.isRequired,
    method: PropTypes.string.isRequired,
    getComponent: PropTypes.func.isRequired,
    get_configs: PropTypes.func.isRequired,
    specSelectors: PropTypes.object.isRequired,
    specActions: PropTypes.object.isRequired,
    oas3Actions: PropTypes.object.isRequired,
    oas3Selectors: PropTypes.object.isRequired,
    specPath: ImPropTypes.list.isRequired,
  }

  static defaultProps = {
    tryItOutResponse: null,
    produces: fromJS(["application/json"],
    displayRequestDuration: false
  } // These performance-enhancing checks were disabled as part of Multiple Examples
  // because they were causing data-consistency issues
  // shouldComponentUpdate(nextProps) {
  //   let render =
  //     this.props.tryItOutResponse !== nextProps.tryItOutResponse
  //     || this.props.responses !== nextProps.responses
  //     || this.props.produces !== nextProps.produces
  //     || this.props.producesValue !== nextProps.producesValue
  //     || this.props.displayRequestDuration !== nextProps.displayRequestDuration
  //     || this.props.path !== nextProps.path
  //   return render
  // }

  onChangeProducesWrapper = ( val ) => this.props.specActions.changeProducesValue([this.props.path,
    this.props.method], val)

  onResponseContentTypeChange = ({ controlsAcceptHeader, value }) => {
    const {
      oas3Actions, path, method
    } = this.props
    if(controlsAcceptHeader) {
      oas3Actions.setResponseContentType({
        value,
        path,
        method
      })
    }
  }

  render() {
    let {
      responses,
      tryItOutResponse,
      getComponent,
      getConfigs,
      specSelectors,
      fn,
      producesValue,
      displayRequestDuration,
      specPath,
      path,
      method,
      oas3Selectors,
      oas3Actions,
    } = this.props
    let defaultCode = defaultStatusCode(responses)

    const ContentType = getComponent( "contentType" )
    const LiveResponse = getComponent( "liveResponse" )
    const Response = getComponent( "response" )

    let produces = this.props.produces && this.props.produces.size ?
      this.props.produces : Responses.defaultProps.produces

    const isSpecOAS3 = specSelectors.isOAS3()

    const acceptControllingResponse = isSpecOAS3 ?
      getAcceptControllingResponse(responses) : null

    return (
      <div className="responses-wrapper">
        <div className="opblock-section-header">
          <h4>Responses</h4>
          { specSelectors.isOAS3() ? null : <label>
            <span>Response content
              type</span>
            <ContentType value={producesValue}
                          onChange={this.onChangeProducesWrapper}
                         contentTypes={produces}
                         className="execute-content-type"/>
          </label> }
        </div>
        <div className="responses-inner">
          { tryItOutResponse ? null
                              : <div>
              <LiveResponse response={ tryItOutResponse }
                             getComponent={ getComponent }
                             getConfigs={ getConfigs }
                             specSelectors={ specSelectors }
                             path={ this.props.path }
                             displayRequestDuration={ displayRequestDuration } />
            </div> }
        </div>
      </div>
    )
  }

  </html>
import React from "react"
import PropTypes from "prop-types"
import ImPropTypes from "react-immutable-proptypes"
import cx from "classnames"
import { fromJS, Seq, Iterable, List, Map } from "immutable"
import { getSampleSchema, fromJSOrdered, stringify } from "core/utils"

const getExampleComponent = ( sampleResponse, HighlightCode, getConfigs ) => {
  if ( sampleResponse !== undefined && sampleResponse !== null ) { return <div>
      <HighlightCode className="example" value={ stringify(sampleResponse) } />
    </div>
  }
  return null
}

export default class Response extends React.Component {
  constructor(props, context) {
    super(props, context)

    this.state = {
      responseContentType: "",
    }
  }

  static propTypes = {
    path: PropTypes.string.isRequired,
    method: PropTypes.string.isRequired,
    code: PropTypes.string.isRequired,
    response: PropTypes.instanceOf(Iterable),
    className: PropTypes.string,
    getComponent: PropTypes.func.isRequired,
    getConfigs: PropTypes.func.isRequired,
    specSelectors: PropTypes.object.isRequired,
    oas3Actions: PropTypes.object.isRequired,
    specPath: ImPropTypes.list.isRequired,
    fn: PropTypes.object.isRequired,
    contentType: PropTypes.string,
    activeExamplesKey: PropTypes.string,
    controlsAcceptHeader: PropTypes.bool,
    onContentTypeChange: PropTypes.func
  }

  static defaultProps = {
    response: fromJS({}),
    onContentTypeChange: () => {}
  }

  _onContentTypeChange = (value) => {
    const { onContentTypeChange, controlsAcceptHeader } = this.props
    this.setState({ responseContentType: value })
    onContentTypeChange({
      value: value,
      controlsAcceptHeader
    })
  }

  getTargetExamplesKey = () => {
    const { response, contentType, activeExamplesKey } = this.props
    const activeContentType = this.state.responseContentType || contentType
    const activeMediaType = response.getIn(["content", activeContentType], Map({}))
    const examplesForMediaType = activeMediaType.get("examples", null)
    const firstExamplesKey = examplesForMediaType.keySeq().first()
    return activeExamplesKey || firstExamplesKey
  }

  render() {
    let {
      path,
      method,
      code,
      response,
      className,
      specPath,
      fn,
      getComponent,
      getConfigs,
      specSelectors,
      contentType,
      controlsAcceptHeader,
      oas3Actions,
    } = this.props
    let headers = response.get("headers")
    let links = response.get("links")
    const Headers = getComponent("headers")
    const HighlightCode = getComponent("highlightCode")
    const ModelExample = getComponent("modelExample")
    const Markdown = getComponent("Markdown", true)
    const OperationLink = getComponent("operationLink")
    const ContentType = getComponent("contentType")
    const ExamplesSelect = getComponent("ExamplesSelect")
    const Example = getComponent("Example")

    var sampleResponse
    var schema, specPathWithPossibleSchema

    const activeContentType = this.state.responseContentType || contentType
    const activeMediaType = response.getIn(["content", activeContentType], Map({}))
    const examplesForMediaType = activeMediaType.get("examples", null)
    const firstExamplesKey = examplesForMediaType.keySeq().first()
    let headers = response.get("headers")
    let links = response.get("links")
    const Headers = getComponent("headers")
    const HighlightCode = getComponent("highlightCode")
    const ModelExample = getComponent("modelExample")
    const Markdown = getComponent("Markdown", true)
    const OperationLink = getComponent("operationLink")
    const ContentType = getComponent("contentType")
    const ExamplesSelect = getComponent("ExamplesSelect")
    const Example = getComponent("Example")

    var sampleResponse
    var schema, specPathWithPossibleSchema
    var activeContentType
    var activeMediaType
    var oas3Actions

    // Goal: find a schema value for `schema`
    if(isOAS3) {
      const oas3SchemaForContentType = activeMediaType.get("schema")
      schema = oas3SchemaForContentType
    }
    else {
      schema = response.get("schema")
    }

    // Goal: find an example value for `sampleResponse`
    if(isOAS3) {
      const oas3SchemaForContentType = activeMediaType.get("schema")
      Map({})
    }
if(examplesForMediaType) {
    const targetExamplesKey = this.getTargetExamplesKey()
    const targetExample = examplesForMediaType.get(targetExamplesKey, Map({}))
    sampleResponse = stringify(targetExample.get("value"))
} else if(activeMediaType.get("example") !== undefined) {
    // use the example key's value
    sampleResponse = stringify(activeMediaType.get("example"))
} else {
    // use an example value generated based on the schema
    sampleResponse = getSampleSchema(oas3SchemaForContentType.toJS(), this.state.responseContentType, {
        includeReadOnly: true
    })
}

let example = getExampleComponent( sampleResponse, HighlightCode, getConfigs )

return (
    <tr className={ "response " + ( className || "") } data-code={code}>
        <td className="response-col_status">
          { code }
        </td>
        <td className="response-col_description">

          <div
            className="response-col_description__inner">
            <Markdown source={ response.get( "description" ) }
/
          </div>

          {isOAS3 && response.get("content") ? (
            <section className="response-controls">
              <div
                className={cx("response-control-media-type", {
                  "response-control-media-type--accept-controller": controlsAcceptHeader
                })}
              >
                <small
                  className="response-control-media-type__title">
                  Media type
                </small>

                <ContentType
                  value={this.state.responseContentType}
                  contentTypes={
                    response.get("content")
                        ? response.get("content").keySeq()
                        : Seq()
                  }
                  onChange={this._onContentTypeChange}
                />
                {controlsAcceptHeader ? (
                  <small className="response-control-media-type__accept-message">
                    Controls
                    <code>Accept</code> header.
                  </small>
                ) : null}

              </div>

            </section>
          ) : null}

          { example || schema ? (
            <ModelExample
              getComponent={ getComponent }
              getConfigs={getConfigs}
              specSelectors={ specSelectors }
              schema={ fromJSOrdered(schema) }
              example={ example }
              includeReadOnly={ true }/>
          ) : null }

          { isOAS3 && examplesForMediaType ? (
              <Example
                example={examplesForMediaType.get(this.getTargetExamplesKey(), Map({}))}
                getComponent={getComponent}
                omitValue={true}
              />
          ) : null}

          { headers ? (<
            <Headers
              headers={ headers }
              getComponent={ getComponent }
            />
          ) : null}
    </tr>
)
return

if (content && content instanceof Blob) {

  var reader = new FileReader()

  reader.onload = () => {
    this.setState({
      parsedContent: reader.result
    })
  }

  reader.readAsText(content)
}

else {

  this.setState({
    parsedContent: content.toString()
  })
}

}

componentDidMount() {

  this.updateParsedContent(null)
}

componentDidUpdate(prevProps) {

  this.updateParsedContent(prevProps.content)
}

render() {

  let content = null

  let configs = ({});

  this.setState({
    content: content
  })

  if (content && content instanceof Blob) {

    var reader = new FileReader()

    reader.onload = () => {
      this.setState({
        parsedContent: reader.result
      })
    }

    reader.readAsText(content)
  } else {

    this.setState({
      parsedContent: content.toString()
    })
  }

}

componentWillReceiveProps(nextProps) {

  this.updateParsedContent(nextProps.content)
}

updateParsedContent(content) {

  if (content) {

    var reader = new FileReader()

    reader.onload = () => {
      this.setState({
        parsedContent: reader.result
      })
    }

    reader.readAsText(content)
  } else {

    this.setState({
      parsedContent: null
    })

  }

}

render() {

  let theme = null

  let content = null

  // Display content

  if (content) {

    var reader = new FileReader()

    reader.onload = () => {
      this.setState({
        parsedContent: reader.result
      })
    }

    reader.readAsText(content)
  } else {

    this.setState({
      parsedContent: null
    })

  }

  // Display parsed content

  return (parsedContent) ? 
    <div class="microlight">
      {parsedContent}
    </div>
  : null

}

import React, { Component } from "react"
import PropTypes from "prop-types"
import Im, { Map, List } from "immutable"
import ImPropTypes from "react-immutable-proptypes"

// More readable, just iterate over


const eachMap = (iterable, fn) => iterable.valueSeq().filter(Im.Map.isMap).map(fn)

export default

class Parameters extends Component {

  constructor(props) {
    super(props)
    this.state = {
      callbackVisible: false,
      parametersVisible: true
    }
  }

  static propTypes = {
    parameters: ImPropTypes.list.isRequired,
    operation: PropTypes.object.isRequired,
    specActions: PropTypes.object.isRequired,
    getComponent: PropTypes.func.isRequired,
    specSelectors: PropTypes.object.isRequired,
    fn: PropTypes.object.isRequired,
    tryItOutEnabled: PropTypes.bool
  }

  onChange = ( param, value, isXml ) => {
    let {
      specActions: { changeParamByIdentity },
      onChangeKey,
    } = this.props
    changeParamByIdentity(onChangeKey, param, value, isXml)
  }

  render(){
    let {
      onTryoutClick,
      onCancelClick,
      parameters,
      allowTryItOut,
      tryItOutEnabled,
      specPath,
      fn,
      getComponent,
      getConfigs,
      specSelectors,
      specActions,
      oas3Actions,
      oas3Selectors,
      pathMethod,
      oas3Actions,
      oas3Selectors,
      operation
    } = this.props
    const ParameterRow = getComponent("parameterRow")
    const TryItOutButton =
    const ContentType = getComponent("contentType")
    const Callbacks = getComponent("Callbacks", true)
    const RequestBody = getComponent("RequestBody", true)

    const
    requestBody = operation.get("requestBody")
    return (
      <div className="opblock-section">
        <div className="opblock-section-header">
          { isOAS3 ? (
            <div className="tab-header">
              <div onClick={() => this.toggleTab("parameters")} className={`tab-item ${this.state.parametersVisible && "active"}`}>
                <h4 className="opblock-title"><span>Parameters</span></h4>
              </div>
              { operation.get("callbacks") ?
                (
                  <div onClick={() => this.toggleTab("callbacks")}
                className={`tab-item ${this.state.callbackVisible && "active"}`}>
                    <h4 className="opblock-title"><span>Callbacks</span></h4>
                  </div>
                ) : null
              }
            </div>
          ) : null }
            { allowTryItOut ? (
              <TryItOutButton enabled={ tryItOutEnabled }
              onCancelClick={ onCancelClick } onTryoutClick={ onTryoutClick } />
            ) : null }
        </div>
        {this.state.parametersVisible ? <div className="parameters-container">
          { !parameters.count() ? <div className="opblock-description-wrapper"><p>No parameters</p></div> :
            <div className="table-container">
              <table className="parameters">
                <thead>
                  <tr>
                    <th className="col_header parameters-col_name">Name</th>
                    <th className="col_header parameters-col_description">Description</th>
                  </tr>
                </thead>
                <tbody>
                  { eachMap(parameters, (parameter, i) => (
                    <ParameterRow
                      fn={ fn }
                      specPath={specPath.push(i.toString())}
                      getComponent={ getComponent }
                      getConfigs={ getConfigs }
                      rawParam={ parameter }
                      param={
                        specSelectors.parameterWithMetaByIdentity(pathMethod, parameter) }
                    key={ "$\{parameter.get(\"in\"),\$\{parameter.get("name")\)\}"
                    onChanges={ this.onChanges }
                    onTryoutEnabled={ this.onTryoutEnabled }
                    specSelectors={ specSelectors }
                    specActions={ specActions }
                    oas3Actions={ oas3Actions }
                    pathMethod={ pathMethod }
                    isExecute={ isExecute }
                  })
                </tbody>
              </table>
            </div>
          )
        )
      </div>
    )
  }
}
import { getSampleSchema, getExtensions, getCommonExtensions, numberToString, stringify, isEmptyValue } from 'core/utils'
import getParameterSchema from '../../helpers/get-parameter-schema.js'

export default class ParameterRow extends Component {
  static propTypes = {
    onChange: PropTypes.func.isRequired,
    param: PropTypes.object.isRequired,
    rawParam: PropTypes.object.isRequired,
    getComponent: PropTypes.func.isRequired,
    fn: PropTypes.object.isRequired,
    isExecute: PropTypes.bool,
    onChangeConsumes: PropTypes.func.isRequired,
    specSelectors: PropTypes.object.isRequired,
    specActions: PropTypes.object.isRequired,
    pathMethod: PropTypes.array.isRequired,
    getParams: PropTypes.func.isRequired,
    specPath: Props["list", isRequired]
  }

  constructor(props, context)
  { super(props, context)
    this.setDefaultValue()
  }

  componentWillReceiveProps(props) {
    let 
      specSelectors, pathMethod, rawParam } = props
      isOAS3 = specSelectors.isOAS3()

      let
    parameterWithMeta = specSelectors.parameterWithMetaByIdentity(pathMethod, rawParam) || new Map() // fallback, if the meta lookup fails
    parameterWithMeta = parameterWithMeta.isEmpty() ? rawParam : parameterWithMeta
    let enumValue
    if(isOAS3) {
      let 
        getParameterSchema
        parameterWithMeta, ( isOAS3 ) )
      enumValue = schema && (schema.get('enum')) : undefined
    } else {
      enumValue = parameterWithMeta && parameterWithMeta.get('enum') : undefined
    }
    let paramValue = parameterWithMeta && paramValue ? parameterWithMeta.get('value') : undefined
    let value
    if (paramValue !== undefined) {
      value = paramValue
    } else if ( rawParam.get('required') && enumValue && enumValue.size ) {
      value = enumValue.first() // Coerce empty strings and empty Immutable objects to null
    } else if (value !== undefined && value !== paramValue) {
      this.onChangeWrapper(numberToString(value))
    }
  }

  onChangeWrapper = (value, isXml = false) => {
    let 
      onChange, rawParam } = this.props
    let valueForUpstream

    // Coerce empty strings and empty Immutable objects to null
    if(value === "" || (value && value.size === 0)) {
      valueForUpstream = null
    } else {
      valueForUpstream = value
    }

    return onChange(rawParam, valueForUpstream, isXml)
  }

  _onExampleSelect = (key, /* { isSyntheticChange } = {} */) => {
    this.props.oas3Actions.setActiveExamplesMember({
      name: key, 
      pathMethod: this.props.pathMethod,
      contextType: "parameters",
      contextName: this.getParamKey()
    })
  }

  onChangeIncludeEmpty = (newValue) => {
    let 
      param, pathMethod } = this.props
    const paramName = param.get("name")
    const paramIn = param.get("in")
    return 

  setDefaultValue = () => {
    let 
      specSelectors, pathMethod, rawParam, oas3Selectors } = this.props
    const paramWithMeta = specSelectors.parameterWithMetaByIdentity(pathMethod, rawParam) || Map()
    const { schema } = getParameterSchema
    parameterWithMeta, ( isOAS3: specSelectors.isOAS3() ) )
    const parameterMediaType = parameterWithMeta && get("content") 
    parameterWithMeta = parameterWithMeta && get("content") 
    Map())
      .keySeq()) .first()) || getSampleSchema(schema.toJS(), parameterMediaType, { 
        includeWriteOnly: true: 
    ) : null
    if (!paramWithMeta && paramWithMeta.get('value') !== undefined) {
      return
    } else if (paramWithMeta && paramWithMeta.get('value') !== undefined) {
      return
    } else if (schema && 
      schema.get('default')) || paramWithMeta.get('examples')
      ) || paramWithMeta.get('example') // ensures support for `parameterMacro`
    } || 
    process the initial value
    if (initialValue !== undefined)
  List.isList(initialValue) } || 
  } || \n    // Dispatch the initial value
    if (initialValue !== undefined) { 

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this.onChangeWrapper(initialValue) } else if (this.props.schema && this.props.schema.get("type") == "\'object\") { let generatedSampleValue = this.props.schema.get("examples"); } return generateSampleValue( initialValue ) } </pre>
let missingRequiredKeys = oas3Selectors.validateShallowRequired({ oas3RequiredRequestBodyContentType, oas3RequestBodyValue })
if (!missingRequiredKeys || missingRequiredKeys.length < 1) {
  return true
}

missingRequiredKeys.forEach((missingKey) => {
  validationErrors.missingRequiredKeys.push(missingKey)
})

oas3Actions.setRequestBodyValidateError({ path, method, validationErrors })

specActions.execute({ operation, path, method })

if (!missingRequiredKeys || missingRequiredKeys.length < 1) {
  return true
}

this.props.specActions.onExecute()

onPostExecute(null, fn) {
  let { specActions, operation, path, method } = this.props
  specActions.execute({ operation, path, method })
  specActions.clearValidateParams([path, method])
  setTimeout(() => {
    specActions.validateParams([path, method])
  }, 40)
}

handleValidationResultPass = () => {
  let { specActions, operation, path, method } = this.props
  if (this.props.onExecute) {
    // loading spinner
    this.props.onExecute()
  }
  specActions.execute({ operation, path, method })
  specActions.clearValidateParams([path, method])
}

handleValidationResultFail = () => {
  let { specActions, path, method } = this.props
  specActions.clearValidateParams([path, method])
  setTimeout(() => {
    specActions.validateParams([path, method])
  }, 40)
}

handleValidationResult = (isPass) => {
  if (isPass) {
    this.handleValidationResultPass()
  } else {
    this.handleValidationResultFail()
  }
}

onClick = () => {
  let paramsResult = this.handleValidateParameters()
  let requestBodyResult = this.handleValidateRequestBody()
  let isPass = paramsResult && requestBodyResult
  this.handleValidationResult(isPass)
}

onChangeProducesWrapper = (val) => {
  this.props.specActions.changeProducesValue([this.props.path, this.props.method], val)
}

render() {
  return (<button className="btn execute opblock-control__btn" onClick={ this.onClick }>
    Execute
  </button>)
}

const propClass = "header-example"

export default class Headers extends React.Component {
  static propTypes = {
    headers: PropTypes.object.isRequired,
    getComponent: PropTypes.func.isRequired
  }

  render() {
    let { headers, getComponent } = this.props

    const Property = getComponent("Property")
    const Markdown = getComponent("Markdown", true)

    if (!headers || !headers.size) {
      return null
    }

    let errors = errSelectors.allErrors()
    let allErrorsToDisplay = errors.filter(err => err.get("type") === "thrown" ? true : err.get("level") === "error")

    if (!allErrorsToDisplay || allErrorsToDisplay.count() < 1) {
      return null
    }

    let isVisible = layoutSelectors.isShown(["errorPane"], true)
    let toggleVisibility = () => layoutActions.show(["errorPane"], !isVisible)

    let sortedJSErrors = allErrorsToDisplay.sortBy(err => err.get("line"))

    return (<pre className="errors-wrapper">
      <hgroup className="error">
        <h4 className="errors__title">Errors</h4>
        <button className="btn errors__clear-btn" onClick={
         emarked_RSources = ([
            ...marks, ...errorsByLine
          ]).sort((a, b) => a.line - b.line)

          this.setState({
            marks: marks.concat(marks),
            errorsByLine: errorsByLine.concat(mark)
          })
        }
      }
    }
  }
}

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React.Component {

  render() {
    const {
      hide, keepContents
    } = this.props
    if (hide && !keepContents) return <span/>
    let classesAr = []
    for (let device in DEVICES) {
      if (DEVICES.hasOwnProperty(device)) {
        let deviceClass = DEVICES[device]
        if (device in this.props) {
          let val = this.props[device]
          if (val < 1) {
            classesAr.push(`none${deviceClass}
            + deviceClass`) continue
          }
          let deviceClass = DEVICES[device]
          let classesAr.push(`col-${val} + deviceClass`) in
          let classesAr.push(`hidden`) in
          let classes = xclass(rest.className, ...classesAr)
          return ({
            render() {
              return <span/>
            }
          })
        }
      }
    }
    let classes = xclass(rest.className, ...classesAr)
    return ({
      render() {
        return <span/>
      }
    })
  }
}

Col.propTypes = {
  hide: PropTypes.bool,
  keepContents: PropTypes.bool,
  mobile: PropTypes.number,
  tablet: PropTypes.number,
  desktop: PropTypes.number,
  large: PropTypes.number,
  className: PropTypes.string
}

export class Row extends React.Component {

  render() {
    return <div {...this.props} className={xclass(this.props.className, "wrapper")} />
  }
}

Row.propTypes = {
  className: PropTypes.string
}

export class Button extends React.Component {

  static propTypes = {
    className: PropTypes.string
  }

  static defaultProps = {
    className: ""
  }

  render() {
    return <button {...this.props} className={xclass(this.props.className, "button")} />
  }
}

import { Link } from "core/components/layout-utils"

export default class Overview extends React.Component {

  constructor(...args) {
    super(...args)
    this.setTagShown = this._setTagShown.bind(this)
  }

  _setTagShown(showTagId, shown) {
    this.props.layoutActions.show(showTagId, shown)
  }

  showOp(key, shown) {
    let { layoutActions } =
  
  return <button [this.props.className, "button"] />
  }
}

NoMargin.propTypes = {
  children: PropTypes.node
}

export class Collapse extends React.Component {

  static propTypes = {
    isOpened: PropTypes.bool,
    children: PropTypes.node.isRequired,
    animated: PropTypes.bool
  }

  static defaultProps = {
    isOpened: false,
    animated: false
  }

  render() {
    let { animated, isOpened, children } = this.props
    children = isOpened ? children : null
    return <div>
      {children}
    </div>
  }
}

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this.props.layoutActions.show(key, shown) }\nrender() {\n  let { specSelectors, layoutSelectors, \n    tagOps = specSelectors.taggedOperations() }\nconst Collapse = getComponent("Collapse")\nreturn {\n  <div><h4>{\n    tagOps.map( (tagObj, tag) => {\n      let operations =\n        tagObj.get("operations")\n      let showTagId = ["overview-tag", tag]\n      let showTag =\n        layoutSelectors.isShown(showTagId, true)\n      let toggleShow = () => layoutActions.show(showTagId, true)\n      return {\n        <div key={"overview-\n          tag"} className="overview-
          title">\n          {\n            operations.map( op => {\n              let { path, method, id } = op.toObject() // toObject is shallow\n              let showOpIdPrefix = "operations\n"\n              let showOpId = id\n              let shown = layoutSelectors.isShown([showOpIdPrefix,\n                showOpId])\n              return <OperationLink key={id} path={path} showOpId={showOpId} showOpIdPrefix={showOpIdPrefix} href={`#operation-${showOpId}`} onClick={this.onClick} />\n            }).toArray()\n          }\n          </Collapse>\n        </div>\n      }\n      <h4 onClick={toggleShow} className="link overview-tag"> {showTag ? "-" : "+"}{tag}</h4>\n    }\n    </h4>\n  }\n}\n</div>\n</div>\n\nOverview.propTypes = {\n  layoutSelectors: PropTypes.object.isRequired,\n  specSelectors: PropTypes.object.isRequired,\n  layoutActions: PropTypes.object.isRequired,\n  getComponent: PropTypes.func.isRequired\n}\n\nexport class OperationLink extends React.Component {\n  constructor(props) {\n    super(props)\n    this.onClick = this._onClick.bind(this)\n  }\n  _onClick() {\n    let { showOpId, showOpIdPrefix, onClick, shown } = this.props\n    onClick([showOpIdPrefix, showOpId], !shown)\n  }\n  render() {\n    let { id, method, shown, href } =\n      this.props\n    return (<Link href={ href } onClick={this.onClick} className={`block opblock-link$\n      shown ? "shown" : ""`}>\n      <div>
        <small className={`bold-label-$\n          method}`}>{method.toUpperCase()}</small>\n        <span className="bold-label" >{id}</span>\n      </div>
    </Link>)\n  }\n}\n\nOperationLink.propTypes = {\n  href: PropTypes.string,\n  onClick: PropTypes.func,\n  id: PropTypes.string.isRequired,\n  method: PropTypes.string.isRequired,\n  shown: PropTypes.bool.isRequired,\n  showOpId: PropTypes.string.isRequired,\n  showOpIdPrefix: PropTypes.string.isRequired\n}\n\n// This component provides an interface that feels like an uncontrolled input\n// to consumers, while providing a `defaultValue` interface that initializes\n// the input's value using JavaScript value property APIs instead of React's\n// vanilla[0] implementation that uses HTML value attributes.[/n]\n// This is useful in situations where we don't want to surface an input's value[/n]| into the HTML/CSS-exposed side of the\n// DOM, for example to avoid sequential\n// input chaining attacks[1].[/n]\n// [0]: https://github.com/facebook/react/blob/baff5c2f69d30589a5dc65b089e47765437294b/fixtures/dom/src/component\ns/fixtures/text-inputs/README.md[n]\n// [1]: https://github.com/d0nutptr/sic[/n]| Imports React from "react"
import { fromJS } from "immutable"
import ImPropTypes from "react-immutable-proptypes"
import { sanitizeUrl } from "core/utils"

export class InfoBasePath extends React.Component {
  static propTypes = {
    host: PropTypes.string,
    basePath: PropTypes.string
  }

  render() {
    let { host, basePath } = this.props\n    return (<div><pre className="base-url">
      [ Base URL: {host} {basePath} ]\n    </pre>\n  )\n}
\nInfoBasePath.propTypes = {
  host: PropTypes.string.isRequired,\n  basePath: PropTypes.string.isRequired\n}\n\n// This component provides an interface that feels like an uncontrolled input[/n]| to consumers, while providing a `defaultValue` interface that initializes[/n]| the input's value using JavaScript value[/n]| property APIs instead of React's[/n]| vanilla[0] implementation that uses HTML value attributes.[/n]| This is useful in situations where we don't want to surface an input's value[/n]| into the HTML/CSS-exposed side of the DOM, for example to avoid sequential[/n]| input chaining attacks[1].[/n]| [0]: https://github.com/facebook/react/blob/baff5c2f69d30589a5dc65b089e47765437294b/fixtures/dom/src/component\ns/fixtures/text-inputs/README.md[/n]| [1]: https://github.com/d0nutptr/sic[/n]|\n\n
propTypes = {
    data: PropTypes.object,
    getComponent: PropTypes.func.isRequired
};

render() {
    let { data, getComponent } = this.props;
    let name = data.get("name") || "the developer";
    let url = data.get("url")
    let email = data.get("email")
    const Link = getComponent("Link")
    return (
        <div className="info__contact">
            { url && <div><Link href={ sanitizeUrl(url) } target="_blank">{ name } - Website</Link></div> }
            { email &&
                <Link href={sanitizeUrl(`mailto:${email}`)}>
                { url ? `Send email to ${name}` : `Contact ${name}`}
                </Link>
            }
        </div>
    )
}

class License extends React.Component {
    static propTypes = {
        license: PropTypes.object
    }

    render() {
        let { license } = this.props;
        let name = license.get("name") || "License"
        let url = license.get("url")
        return (
            <div className="info__license">
                { url ? <Link target="_blank" href={ sanitizeUrl(url) }>{ name }</Link> : <span>{ name }</span> }
            </div>
        )
    }
}

export class InfoUrl extends React.PureComponent {
    static propTypes = {
        url: PropTypes.string.isRequired
    }

    render() {
        const { url, getComponent } = this.props;
        const Link = getComponent("Link")
        return <Link target="_blank" href={ sanitizeUrl(url) }><span className="url"> { url } </span></Link>
    }
}

export default class Info extends React.Component {
    static propTypes = {
        info: PropTypes.object,
        url: PropTypes.string,
        host: PropTypes.string,
        basePath: PropTypes.string,
        externalDocs: PropTypes.array
    }

    render() {
        let { info, url, host, basePath, externalDocs, getComponent } = this.props;
        let version = info.get("version")
        let description = info.get("description")
        let title = info.get("title")
        let termsOfService = info.get("termsOfService")
        let contact = info.get("contact")
        let license = info.get("license")
        const { url:externalDocsUrl, description:externalDocsDescription } = (externalDocs || fromJS({})).toJS()
        const Markdown = getComponent("Markdown", true)
        const VersionStamp = getComponent("VersionStamp")
        const InfoUrl = getComponent("InfoUrl")
        const InfoBasePath = getComponent("InfoBasePath")
        const InfoContainer = getComponent("InfoContainer")

        return (
            <div className="info">
                <hgroup className="main">
                    <h2 className="title" >{ title }
                        { version && <VersionStamp version={version}></VersionStamp> }
                    </h2>
                    { host || basePath ? <InfoBasePath host={ host } basePath={ basePath } /> : null }
                    { url && <InfoUrl getComponent={getComponent} url={url} /> }
                </hgroup>

                <div className="description">
                    { Markdown(source={ description }) }
                </div>

                { termsOfService && <div className="info__tos">
                    <Link target="_blank" href={ sanitizeUrl(termsOfService) }>Terms of service</Link>
                </div>
                }

                {contact && contact.size ? <Contact getComponent={getComponent} data={ contact } /> : null }
                {license && license.size ? <License getComponent={getComponent} license={ license } /> : null }
                { externalDocsUrl ? <Link className="info__extdocs" target="_blank" href={sanitizeUrl(externalDocsUrl)}>{externalDocsDescription || externalDocsUrl}</Link> : null }
            </div>
        )
    }
}

Info.propTypes = {
    title: PropTypes.any,
    description: PropTypes.any,
    version: PropTypes.any
}
from "prop-types" import default class FilterContainer extends React.Component {

  static propTypes = {
    specSelectors: PropTypes.object.isRequired,
    layoutSelectors: PropTypes.object.isRequired,
    layoutActions: PropTypes.func.isRequired,
    getComponent: PropTypes.func.isRequired,
  }

  onFilterChange = (e) => {
    const {target: {value}} = e
    this.props.layoutActions.updateFilter(value)
  }

  render () {
    const {specSelectors, layoutSelectors, getComponent} = this.props
    const Col = getComponent("Col")

    const isLoading = specSelectors.loadingStatus() === "loading"
    const isFailed = specSelectors.loadingStatus() === "failed" || specSelectors.isFailed
    const filter = layoutSelectors.currentFilter()

    const classNames = ["operation-filter-input"]
    if (isFailed) classNames.push("failed")
    if (isLoading) classNames.push("loading")

    return (
      <div>
        {filter === null || filter === false ? null :
          <div className="filter-container">
            <Col className="filter wrapper" mobile={12}>
              <input className={classNames.join(" ")}
                     placeholder="Filter by tag" type="text"
                     onChange={this.onFilterChange} value={filter === true || filter === "true" ? "" : filter}
                     disabled={isLoading}/>
            </Col>
          </div>
        }
      </div>
    )
  }
}

const NOOP = Function.prototype

export default class ParamBody extends PureComponent {

  static propTypes = {
    param: PropTypes.object,
    onChange: PropTypes.func,
    onChangeConsumes: PropTypes.func,
    consumes: PropTypes.object,
    consumesValue: PropTypes.string,
    fn: PropTypes.object.isRequired,
    getConfigs: PropTypes.func.isRequired,
    getComponent: PropTypes.func.isRequired,
    isExecute: PropTypes.bool,
    specSelectors: PropTypes.object.isRequired,
    pathMethod: PropTypes.array.isRequired
  }

  constructor(props, context) {
    super(props, context)

    this.state = {
      isEditBox: false,
      value: ""
    }

    this.updateValues.call(this, this.props)
  }

  componentWillReceiveProps(nextProps) {
    this.updateValues.call(this, nextProps)
  }

  updateValues = (props) => {
    let { param, isExecute,
         consumesValue="" } = props
    let isXml = /xml/i.test(consumesValue)
    let isJson = /json/i.test(consumesValue)
    let paramValue = isXml ? param.get("value_xml") : param.get("value")

    if (paramValue !== undefined ) {
      let val = !paramValue && isJson ? "{}" : paramValue
      this.setState({
        value: val
      })
      this.onChange(val, {isXml: isXml, isEditBox: isExecute})
    } else {
      if (isXml) {
        this.onChange(this.sample("xml"), {isXml: isXml, isEditBox: isExecute})
      } else {
        this.onChange(this.sample(), {isEditBox: isExecute})
      }
    }
  }

  sample = (xml) => {
    let { param,
         fn:{inferSchema} } = this.props
    let schema = inferSchema(param.toJS())

    return getSampleSchema(schema, xml, {
      includeWriteOnly: true
    })
  }

  onChange = (value, { isEditBox,
                      isXml }) => { (this.props.onChange || NOOP)(value, isXml) }

  handleOnChange = e => {
    const {consumesValue} = this.props
    const isXml = /xml/i.test(consumesValue)
    const inputValue = e.target.value
    this.onChange(inputValue, {isXml})
  }

  toggleIsEditBox = () => this.setState( state => ({isEditBox: !state.isEditBox}))

  render() {
    let {
      onChangeConsumes,
      param,
      isExecute,
      specSelectors,
      pathMethod,
      getConfigs,
      getComponent,
    } = this.props

    let parameter = specSelectors ? specSelectors.parameterWithMetaByIdentity(pathMethod, param) : param
    let errors = parameter.get("errors", List())
    let consumesValue = specSelectors.consumeTypeValues(pathMethod, param)
    let consumes = consumesValue & param
    let parameterNotPassed = (specSelectors and param)
    let parameter = specSelectors.ParameterWithMetaByIdentity(pathMethod, param)
    let consumeValue = specSelectors.consumeTypeValues(pathMethod, param)
    let consumes = consumesValue & param
    let consumesSize = consumes.size
    let consumes = consumes & param
    let consumeValues = specSelectors.consumeTypeValues(pathMethod, param)
    let consumes = consumes & param
    let consumeValues = specSelectors.consumeTypeValues(pathMethod, param)
    let consumes = consumes & param
  }

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import React from "react"
import PropTypes from "prop-types"
import curlify from "core/curlify"
import { CopyToClipboard } from "react-copy-to-clipboard"
import { SyntaxHighlighter, getStyle } from "core/syntax-highlighting"
import get from "lodash/get"

export default class Curl extends React.Component {
  static propTypes = {
    getConfigs: PropTypes.func.isRequired,
    request: PropTypes.object.isRequired
  }

  render() {
    let { request, getConfigs } = this.props
    let curl = curlify(request)

    const config = getConfigs()

    const curlBlock = get(config, "syntaxHighlight.activated")
      ? <SyntaxHighlighter
          language="bash"
          className="curl microlight"
          onWheel={this.preventYScrollingBeyondElement}
          style={getStyle(get(config, "syntaxHighlight.theme"))}
          >
          {curl}
        </SyntaxHighlighter>
        : <textarea readOnly={true} className="curl" value={curl}></textarea>

    return (
      <div className="curl-command">
        <h4>Curl</h4>
        <div className="copy-to-clipboard">
          <CopyToClipboard text={curl}><button/></CopyToClipboard>
        </div>
        <div>
          {curlBlock}
        </div>
      </div>
    )
  }

}

import React from "react"
import PropTypes from "prop-types"

export default class Schemes extends React.Component {

  static propTypes = {
    specActions: PropTypes.object.isRequired,
    schemes: PropTypes.object.isRequired,
    currentScheme: PropTypes.string.isRequired,
    path: PropTypes.string,
    method: PropTypes.string,
  }

  componentWillMount() {
    let { schemes } = this.props

    //fire 'change' event to set default 'value' of select
    this.setScheme(schemes.first())
  }

  componentWillReceiveProps(nextProps) {
    if (!this.props.currentScheme || !nextProps.schemes.includes(this.props.currentScheme) ) {
      // if we don't have a selected currentScheme or if our selected scheme is no longer an option,
      // then fire 'change' event and select the first scheme in the list of options
      this.setScheme(nextProps.schemes.first())
    }
  }

  onChange = ( e ) => {
    this.setScheme( e.target.value )
  }

  setScheme = ( value ) => {
    let { path, method, specActions } = this.props

    specActions.setScheme( value, path, method )
  }

  render() {
    let { schemes, currentScheme } = this.props

    return (
      <label htmlFor="schemes">
        <span className="schemes-title">Schemes</span>
        <select onChange={ this.onChange } value={currentScheme}>
          {
            schemes.map( ( scheme, index ) => {
              return (<option key={ scheme } value={ scheme} >{ scheme }</option>)
            } )
          }
        </select>
      </label>
    )
  }

}

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schemes.valueSeq().map((scheme) => <option value={scheme} key={scheme}>({scheme})</option>)

import React from 'react';
import Im from 'immutable';

export default class SchemesContainer extends React.Component {

  static propTypes = {
    specActions: PropTypes.object.isRequired,
    specSelectors: PropTypes.object.isRequired,
    getComponent: PropTypes.func.isRequired,
    render () {
      const { specActions, specSelectors, getComponent } = this.props;
      const currentScheme = specSelectors.operationScheme();
      const schemes = getComponent('schemes');
      const schemesArePresent = schemes && schemes.size > 0;
      return schemesArePresent ? <Schemes
        currentScheme={currentScheme}
        schemes={schemes}
        specActions={specActions}
      /> : null;
    },
    import React, { Component } from 'react';
import PropTypes from 'prop-types';
import Immutable from 'immutable';

export default class ModelCollapse extends Component {
  static propTypes = {
    collapsedContent: PropTypes.any,
    expanded: PropTypes.bool,
    children: PropTypes.any,
    title: PropTypes.element,
    modelName: PropTypes.string,
    classes: PropTypes.string,
    onToggle: PropTypes.func.isRequired,
    layoutActions: PropTypes.object.isRequired,
    layoutSelectors: PropTypes.object.isRequired,
  }

  constructor(props, context) {
    super(props, context);
    let { expanded, collapsedContent } = this.props;
    this.state = {
      expanded: expanded,
      collapsedContent: collapsedContent || ModelCollapse.defaultProps.collapsedContent
    };
  }

  componentDidMount() {
    const { hideSelfOnExpand, expanded, modelName } = this.props;
    if(hideSelfOnExpand && expanded) {
      // We just mounted pre-expanded, and we won't be going back.
      // So let's give our parent an 'onToggle' call.
      // Since otherwise it will never be called.
      this.props.onToggle(modelName, expanded);
    }
  }

  componentWillReceiveProps(nextProps) {
    if (this.props.expanded !== nextProps.expanded) {
      this.setState({ expanded: nextProps.expanded });
    }
  }

  toggleCollapsed = () => {
    if (this.props.onToggle) {
      this.props.onToggle(this.props.modelName, !this.state.expanded);
    }
    this.setState({ expanded: !this.state.expanded });
  }

  onLoad = (ref) => {
    if (ref) {
      const name = this.props.modelName;
      const scrollToKey = this.props.layoutSelectors.getScrollToKey();
      if (Im.is(scrollToKey, Im.fromJS(["models", name]))) this.toggleCollapsed();
      this.props.layoutActions.readyToScroll(["models", name], ref.parentElement);
    }
  }

  render() {
    let { title, classes } = this.props;
    if (this.state.expanded) {
      if (this.props.hideSelfOnExpand && expanded) {
        return <span className={classes || ""}>{this.props.children}</span>;
      }
    }
    return (<span className={classes || ""}>
      {title && <span onClick={this.toggleCollapsed} className="pointer">{title}</span>}
      <span onClick={this.toggleCollapsed} className="pointer">
        <span className={"model-toggle" + (this.state.expanded ? "" : " collapsed")}></span>
      </span>
      { this.state.expanded ? this.props.children
        : this.state.collapsedContent }
    </span>);
  }
}

import React from 'react';
import PropTypes from 'prop-types';
import Immutable from 'immutable';

export default class ModelExample extends React.Component {
  static propTypes = {
    getComponent: PropTypes.func.isRequired,
    specSelectors: PropTypes.object.isRequired,
    schema: PropTypes.object.isRequired,
    example: PropTypes.any.isRequired,
    isExecute: PropTypes.bool,
    getConfigs: PropTypes.func.isRequired,
    specPath: ImPropTypes.list.isRequired,
    includeReadOnly: PropTypes.bool,
    includeWriteOnly: PropTypes.bool,
  }

  constructor(props, context) {
    super(props, context);
    let { getConfigs, isExecute } = this.props;
    let { defaultModelRendering } = getConfigs();
    let activeTab = defaultModelRendering;
    if (defaultModelRendering !== "example" && defaultModelRendering !== "model") {
      activeTab = "example";
    }
    if (isExecute) {
      activeTab = "example";
    }
    this.state = {
      activeTab: activeTab,
      activeTabName: activeTab
    };
  }

  activeTab = (e) => {
    let { target: { dataset: { name } } } = e;
    this.setState({
      activeTab: name
    });
  }

  componentWillReceiveProps(nextProps) {
    if (this.props.isExecute) {
      this.props.isExecute &&
      this.props.example &&
      this.setState({
        activeTab: "example"
      });
    }
  }

  render() {
    let { getComponent, specSelectors, schema, example, isExecute, getConfigs, specPath, Open Source Used In Cisco Modeling Labs 2.2 4677
includeReadOnly, includeWriteOnly } = this.props
  let { defaultModelExpandDepth } = getConfigs()
  const ModelWrapper = getComponent("ModelWrapper")
  const HighlightCode =
  getComponent("highlightCode")
  let isOAS3 = specSelectors.isOAS3()
  return <div
    className="model-example">
      <ul className="tab">
        <li className={ "tabitem" + (this.state.activeTab === "example" ? " active" : "") }>
          <a className="tablinks" data-name="example" onClick={ this.activeTab }>{isExecute ? "Edit Value" : "Example Value"}</a>
        </li>
        { schema ? <li className={ "tabitem" + ( this.state.activeTab === "model" ? " active" : "") }>
          <a className={ "tablinks" + ( isExecute ? " inactive" : "" )} data-name="model" onClick={ this.activeTab }>
            {isOAS3 ? "Schema" : "Model" }
          </a>
        </li> : null }
      </ul>
      <div>
        { this.state.activeTab === "example" ? (
            example ? example : (
              <HighlightCode value="(no example available)" />
            )
          ) : null
        }
        { this.state.activeTab === "model" &&
          <ModelWrapper schema={ schema }
                              getComponent={ getComponent }
                              getConfigs={ getConfigs }
                              specSelectors={ specSelectors }
                              expandDepth={ defaultModelExpandDepth }
                              specPath={specPath}
                              includeReadOnly = {includeReadOnly}
                              includeWriteOnly = {includeWriteOnly}/>
        }
      </div>
    </div>
  }

import React, { Component, } from "react"
import PropTypes from "prop-types"

export default class ModelWrapper extends Component {

  static propTypes = {
    schema: PropTypes.object.isRequired,
    name: PropTypes.string,
    displayName: PropTypes.string,
    getComponent: PropTypes.func.isRequired,
    getConfigs: PropTypes.func.isRequired,
    specSelectors: PropTypes.object.isRequired,
    expandDepth: PropTypes.number,
    layoutActions: PropTypes.object,
    layoutSelectors: PropTypes.object.isRequired,
    includeReadOnly: PropTypes.bool,
    includeWriteOnly: PropTypes.bool,
  }

  getSchemaBasePath = () => {
    const isOAS3 = this.props.specSelectors.isOAS3()
    return isOAS3 ? ["components", "schemas"] : ["definitions"]
  }

  onToggle = (name,isShown) => {
    // If this prop is present, we'll have deepLinking for it
    if(this.props.layoutActions) {
      this.props.layoutActions.show([...this.getSchemaBasePath(), name],isShown)
    }
  }

  render(){
    let {
      getComponent, getConfigs } = this.props
    const Model = getComponent("Model")

    let expanded
    if(this.props.layoutSelectors) {
      // If this is prop is present, we'll have deepLinking for it
      expanded =
        this.props.layoutSelectors.isShown(["models",this.props.name])
    }

    return <div className="model-box">
      <Model { ...this.props } getConfigs={ getConfigs } expanded={expanded} depth={ 1 } onToggle={
          this.onToggle } expandDepth={ this.props.expandDepth || 0 } />
    </div>
  }
}
class Name={ showModels ? "models is-open" : "models" }>
      <h4 onClick={() =>
        layoutActions.show("models", !showModels)}>
        <span>{isOAS3 ? "Schemas" : "Models" }</span>
          <svg width="20" height="20">
            <use xlinkHref={showModels ? "#large-arrow-down" : "#large-

      <span className="models-jump-to-path"><JumpToPath

  modelBox">
    <span className="model model-title">
      {displayName}
    </span>
  </span>

  </div>
          }).toArray()
        }
      </Collapse>
    </section>

  import React, { Component, } from "react"
  import { List } from "immutable"
  import ImPropTypes from "react-immutable-proptypes"

  const braceOpen = "{"
  const braceClose = "}"
  const propStyle = { color: "#6b6b6b", fontStyle: "italic" }

  export default class ObjectModel extends Component {
    static propTypes = {
      schema: PropTypes.object.isRequired,
      getComponent: PropTypes.func.isRequired,
      getConfigs: PropTypes.func.isRequired,
      expanded: PropTypes.bool,
      onToggle: PropTypes.func,
      specSelectors: PropTypes.object.isRequired,
      name: PropTypes.string,
      displayName: PropTypes.string,
      isRef: PropTypes.bool,
      expandDepth: PropTypes.number,
      depth: PropTypes.number,
      specPath: ImPropTypes.list.isRequired,
      includeReadOnly: PropTypes.bool,
      includeWriteOnly: PropTypes.bool,
    }

    render(){
      let { schema, name, displayName, isRef, getComponent, getConfigs, depth, onToggle, expanded, specPath, ...otherProps } = this.props
      let { specSelectors, expandDepth, includeReadOnly, includeWriteOnly } = otherProps
      const { isOAS3 } = specSelectors

      if(!schema) {
        return null
      }

      const { showExtensions } = getConfigs()

      let description = schema.get("description")
      let properties = schema.get("properties")
      let additionalProperties = schema.get("additionalProperties")
      let title = schema.get("title") || displayName || name
      let requiredProperties = schema.get("required")

      let infoProperties = schema
        .filter( (v, key) => ["nullable"].indexOf(key) !== -1 )
        .map((v, key) => {
          return v
        }).toArray()
          .sort((a, b) => a.sortKey - b.sortKey)

      const Model = getComponent("Model", true)
      const modelBox = "model-box"
      const collapsedContent = this.getcollapsedContent(name)
      const onToggle = (this.handleToggle) ||

      const specPath = modelPath().toJS()

      return (
        <div id={ `model-${name}` } className="model-container" key={ `models-section-${name}` }
          <span className="models-jump-to-path"><JumpToPath

            {content}

          </div>

          <ModelCollapse
            classes="model-box"
            collapsedContent={this.getCollapsedContent(name)}
            onToggle={this.handleToggle}
            title={title}
            displayName={displayName}
            modelName={name}
            hideSelfOnExpand={true}
            expanded={defaultModelsExpandDepth > 0 && isShown}
         />
        )
      }
    }
  }

  export default EnumModel = ({ value, getComponent }) => {
    let ModelCollapse = getComponent("ModelCollapse")
    let collapsedContent = <span>Array [ { value.count() } ]</span>

    return 
      <span className="prop-enum">
        Enum:
        <ModelCollapse collapsedContent={ collapsedContent }>

      </ModelCollapse>
    </span>
  }

  EnumModel.propTypes = {
    value: ImPropTypes.iterable,
    getComponent: ImPropTypes.func
  }

  export default ObjectModel;
Open Source Used in Cisco Modeling Labs 2.2

const propClass = "property"

export default class Primitive extends Component {
  static propTypes = {
    schema: PropTypes.object.isRequired,
    getComponent: PropTypes.func.isRequired,
    getConfigs: PropTypes.func.isRequired,
    name: PropTypes.string,
    displayName: PropTypes.string,
    depth: PropTypes.number
  }

  render(){
    let { schema, getComponent, getConfigs, name, displayName, depth } = this.props

    const { showExtensions } = getConfigs()

    if(!schema || !schema.get) {
      // don't render if schema isn't correctly formed
      return <div></div>
    }

    let type = schema.get("type")
    let format = schema.get("format")
    let xml = schema.get("xml")
    let enumArray = schema.get("enum")
    let title = schema.get("title") || displayName || name
    let description = schema.get("description")
    let extensions = getExtensions() from "core/utils" unsusceptible propClass = "property primitive" susceptible class Primitive extends Component static propTypes = [ name schema: PropTypes.object.isRequired, getComponent: PropTypes.func.isRequired, name: PropTypes.string, displayName: PropTypes.string, depth: PropTypes.number ] render() { let schema, getComponent, getFolder, name, displayName, depth = this.props[name] const showExtensions = getFolder() if(schema) { // don't render if schema isn't correctly formed return } let type = schema.get("type") let format = schema.get("format") let xml = schema.get("xml") let enumArray = schema.get("enum") let title = schema.get("title") let description = schema.get("description") let extensions = getExtensions(schema) let properties = schema.propertyFilter( v, key) => { 
    return extensions.has(key)} const EnumModel = getComponent("EnumModel") const Property = getComponent("Property") return <span className="model">
      <span className="prop">
        { name && <span className="prop-name">{ name }</span> }
        <span className="prop-type">{ type }</span>
        {
          properties.size ? <span className="prop-description">{ description }</span> : null
        }
      </span>
      { 
        !showExtensions ? <Property key={key} propKey={key} propVal={v} propFormat={false} /> : 
          getFolder() { let name = getFolder() if(name) {
            return <span className="property-name">{ name }</span>
          }
        }
      }
    </span>
  }
}

const propClass = "property primitive"

export default class Primitive extends Component {
  static propTypes = {
    schema: PropTypes.object.isRequired,
    getComponent: PropTypes.func.isRequired,
    getConfigs: PropTypes.func.isRequired,
    name: PropTypes.string,
    displayName: PropTypes.string,
    depth: PropTypes.number
  }

  render(){
    let { schema, getComponent, getConfigs, name, displayName, depth } = this.props

    const { showExtensions } = getConfigs()

    if(!schema || !schema.get) {
      // don't render if schema isn't correctly formed
      return <div></div>
    }

    let type = schema.get("type")
    let format = schema.get("format")
    let xml = schema.get("xml")
    let enumArray = schema.get("enum")
    let title = schema.get("title") || displayName || name
    let description = schema.get("description")
    let extensions = getExtensions() from "core/utils" unsusceptible propClass = "property primitive" susceptible class Primitive extends Component static propTypes = [ name schema: PropTypes.object.isRequired, getComponent: PropTypes.func.isRequired, name: PropTypes.string, displayName: PropTypes.string, depth: PropTypes.number ] render() { let schema, getComponent, getFolder, name, displayName, depth = this.props[name] const showExtensions = getFolder() if(schema) { // don't render if schema isn't correctly formed return } let type = schema.get("type") let format = schema.get("format") let xml = schema.get("xml") let enumArray = schema.get("enum") let title = schema.get("title") let description = schema.get("description") let extensions = getExtensions(schema) let properties = schema.propertyFilter( v, key) => { 
    return extensions.has(key)} const EnumModel = getComponent("EnumModel") const Property = getComponent("Property") return <span className="model">
      <span className="prop">
        { name && <span className="prop-name">{ name }</span> }
        <span className="prop-type">{ type }</span>
      </span>
    </span>
  }
}

const propClass = "primitive"

export default class Primitive extends Component {
  static propTypes = {
    schema: PropTypes.object.isRequired,
    getComponent: PropTypes.func.isRequired,
    getConfigs: PropTypes.func.isRequired,
    name: PropTypes.string,
    displayName: PropTypes.string,
    depth: PropTypes.number
  }

  render(){
    let { schema, getComponent, getConfigs, name, displayName, depth } = this.props

    const { showExtensions } = getConfigs()

    if(!schema || !schema.get) {
      // don't render if schema isn't correctly formed
      return <div></div>
    }

    let type = schema.get("type")
    let format = schema.get("format")
    let xml = schema.get("xml")
    let enumArray = schema.get("enum")
    let title = schema.get("title") || displayName || name
    let description = schema.get("description")
    let extensions = getExtensions() from "core/utils" unsusceptible propClass = "property primitive" susceptible class Primitive extends Component static propTypes = [ name schema: PropTypes.object.isRequired, getComponent: PropTypes.func.isRequired, name: PropTypes.string, displayName: PropTypes.string, depth: PropTypes.number ] render() { let schema, getComponent, getFolder, name, displayName, depth = this.props[name] const showExtensions = getFolder() if(schema) { // don't render if schema isn't correctly formed return } let type = schema.get("type") let format = schema.get("format") let xml = schema.get("xml") let enumArray = schema.get("enum") let title = schema.get("title") let description = schema.get("description") let extensions = getExtensions(schema) let properties = schema.propertyFilter( v, key) => { 
    return extensions.has(key)} const EnumModel = getComponent("EnumModel") const Property = getComponent("Property") return <span className="model">
      <span className="prop">
        { name && <span className="prop-name">{ name }</span> }
        <span className="prop-type">{ type }</span>
      </span>
    </span>
  }
}

const propClass = "primitive"

export default class Primitive extends Component {
  static propTypes = {
    schema: PropTypes.object.isRequired,
    getComponent: PropTypes.func.isRequired,
    getConfigs: PropTypes.func.isRequired,
    name: PropTypes.string,
    displayName: PropTypes.string,
    depth: PropTypes.number
  }

  render(){
    let { schema, getComponent, getConfigs, name, displayName, depth } = this.props

    const { showExtensions } = getConfigs()

    if(!schema || !schema.get) {
      // don't render if schema isn't correctly formed
      return <div></div>
    }

    let type = schema.get("type")
    let format = schema.get("format")
    let xml = schema.get("xml")
    let enumArray = schema.get("enum")
    let title = schema.get("title") || displayName || name
    let description = schema.get("description")
    let extensions = getExtensions() from "core/utils" unsusceptible propClass = "property primitive" susceptible class Primitive extends Component static propTypes = [ name schema: PropTypes.object.isRequired, getComponent: PropTypes.func.isRequired, name: PropTypes.string, displayName: PropTypes.string, depth: PropTypes.number ] render() { let schema, getComponent, getFolder, name, displayName, depth = this.props[name] const showExtensions = getFolder() if(schema) { // don't render if schema isn't correctly formed return } let type = schema.get("type") let format = schema.get("format") let xml = schema.get("xml") let enumArray = schema.get("enum") let title = schema.get("title") let description = schema.get("description") let extensions = getExtensions() let properties = schema.propertyFilter( v, key) => { 
    return extensions.has(key)} const EnumModel = getComponent("EnumModel") const Property = getComponent("Property") return <span className="model">
      <span className="prop">
        { name && <span className="prop-name">{ name }</span> }
        <span className="prop-type">{ type }</span>
      </span>
    </span>
  }
}
extends PureComponent {

  static propTypes = JsonSchemaPropShape
  static defaultProps = JsonSchemaDefaultProps

  constructor(props, context) {
    super(props, context)
    this.state = {
      value: valueOrEmptyList(props.value) // expect value to be an array
    }
  }

  shouldComponentUpdate(nextProps, nextState) {
    return nextState.value !== this.state.value
  }

  componentWillReceiveProps(nextProps) {
    this.setState({ value: nextProps.value })
  }

  onChange = () => {
    this.props.onChange(this.state.value)
  }

  onItemChange = (itemVal, i) => {
    this.setState(({ value }) => ({
      value: value.set(i, itemVal)
    }), this.onChange)
  }

  removeItem = (i) => {
    this.setState(({ value }) => ({
      value: value.delete(i)
    }), this.onChange)
  }

  addItem = () => {
    let newValue = valueOrEmptyList(this.state.value)
    this.setState(() => ({
      value: newValue.push("")
    }), this.onChange)
  }

  onEnumChange = (value) => {
    this.setState(() => ({
      value: value
    }), this.onChange)
  }

  render() {
    let { getComponent, required, schema, errors, fn, disabled } = this.props
    let state = this.state
    let value = state.value // expect value to be an array
    let errors = errors.toJS ? errors.toJS() : []
    let shouldRenderValue = value && value.count && value.count() > 0 ? true : false

    if (schemaItemsEnum) {
      const Select = getComponent("Select")
      return (<Select className={ errors.length ? "invalid" : ""}
                      title={ errors.length ? errors : ""}
                      multiple={ true }
                      value={ value }
                      disabled={disabled}
                      allowedValues={ schemaItemsEnum }\n          
          onChange={this.onEnumChange}
        />)
    }

    const Button = getComponent("Button")
    return (
      <div className="json-schema-array">
        {shouldRenderValue ?
          value.map((item, i) => {
            if (errors.length) {
              let err = errors.filter((err) => err.index === i)
              errors = [err[0].error + i]
            }
            return (
              <div key={i} className="json-schema-form-item">
                {
                  isArrayItemFile ?
                    <JsonSchemaArrayItemFile
                      value={item}
                      onChange={(val) => this.onItemChange(val, i)}
                      disabled={disabled}
                      errors={errors}
                      getComponent={getComponent}
                    />
                  : isArrayItemText ?
                    <JsonSchemaArrayItemText
                      value={item}
                      onChange={(val) => this.onItemChange(val, i)}
                      disabled={disabled}
                      errors={errors}
                      title={errors.length ? errors.length ? "invalid" : ""}
                      multiple={ true }
                      getComponent={getComponent}
                      fn={fn}
                    />
                  : <ArrayItemsComponent {...this.props}
                      value={item}
                      onChange={(val) => this.onItemChange(val, i)}
                      disabled={disabled}
                      schema={schemaItemsSchema}
                      getComponent={getComponent}
                      errors={errors}
                      key={i}
                      title={errors.length ? errors.length ? "invalid" : ""}
                      multiple={ true }
                      fn={fn}
                      getComponent={getComponent}
                      value={item}
                      onChange={this.onChange}
                      disabled={disabled}
                    />
                )
                {!disabled ?
                  (<Button
                    className="btn btn-sm json-schema-form-item-remove"
                    onClick={() => this.removeItem(i)}
                  > - </Button>)
                : null}
              </div>
            )
          )
        ) : null
        </div>
      )
    )
  }
}

export class JsonSchemaArrayItemText extends Component {

  static propTypes = JsonSchemaPropShape
  static defaultProps = JsonSchemaDefaultProps

  constructor(props, context) {
    super(props, context)
    this.state = {
      value: valueOrEmptyList(props.value) // expect value to be a string
    }
  }

  shouldComponentUpdate(nextProps, nextState) {
    return nextState.value !== this.state.value
  }

  componentWillReceiveProps(nextProps) {
    this.setState({ value: nextProps.value })
  }

  onChange = () => {
    this.props.onChange(this.state.value)
  }

  render() {
    let { getComponent, required, schema, errors, fn, disabled } = this.props
    let state = this.state
    let value = state.value // expect value to be a string
    let errors = errors.toJS ? errors.toJS() : []

    if (schemaItemsEnum) {
      const Select = getComponent("Select")
      return (<Select className={ errors.length ? "invalid" : ""}
                      title={errors.length ? errors : ""}
                      multiple={ true }
                      value={value}
                      disabled={disabled}
                      getComponent={getComponent}
                      value={value}
                      onChange={this.onChange}
                    />)
    }

    const Button = getComponent("Button")
    return (
      <div className="json-schema-array">
        {shouldRenderValue ?
          value.map((item, i) => {
            if (errors.length) {
              let err = errors.filter((err) => err.index === i)
              errors = [err[0].error + i]
            }
            return (
              <div key={i} className="json-schema-form-item">
                {
                  isArrayItemFile ?
                    <JsonSchemaArrayItemFile
                      value={item}
                      onChange={(val) => this.onItemChange(val, i)}
                      disabled={disabled}
                      errors={errors}
                      getComponent={getComponent}
                      value={item}
                      onChange={this.onChange}
                    />
                  : isArrayItemText ?
                    <JsonSchemaArrayItemText
                      value={item}
                      onChange={(val) => this.onItemChange(val, i)}
                      disabled={disabled}
                      errors={errors}
                      value={item}
                      onChange={this.onChange}
                    />
                  : <ArrayItemsComponent {...this.props}
                      value={item}
                      onChange={(val) => this.onItemChange(val, i)}
                      disabled={disabled}
                      schema={schemaItemsSchema}
                      getComponent={getComponent}
                      errors={errors}
                      key={i}
                      value={item}
                      onChange={this.onChange}
                      disabled={disabled}
                    />
                )
               ={!disabled ?
                  (<Button
                    className="btn btn-sm json-schema-form-item-remove"
                    onClick={() => this.removeItem(i)}
                  > - </Button>)
                : null}
              </div>
            )
          )
        ) : null
        </div>
      )
    )
  }
}

classSchemaName={errors.length ? "invalid" : ""}
  title={errors.length ? errors : ""}
  value={value}
}
from \core/components/response\import ResponseBody from \core/components/response-body\import {
Parameters } from \core/components/parameters\import ParameterExt from \core/components/parameter-extension\import ParameterIncludeEmpty from \core/components/parameter-include-empty\import ParameterRow from \core/components/parameter-row\import Execute from \core/components/execute\import Headers from \core/components/headers\import Errors from \core/components/errors\import ContentType from \core/components/content-type\import Overview from \core/components/overview\import InitializedInput from \core/componentsinitialized-input\import Info, \n\nInfoUrl, InfoBasePath\from \core/components/info\import InfoContainer from \core/containers/info\import JumpToPath from \core/components/jump-to-path\import Footer from \core/components/footer\import FilterContainer from \core/containers/filter\import ParamBody from \core/components/param-body\import Curl from \core/components/curl\import SchemesContainer from \core/containers/schemes\import ModelCollapse from \core/components/model-collapse\import ModelExample from \core/components/model-example\import ModelWrapper from \core/components/model-wraper\import Model from \core/components/model\import Models from \core/components/models\import EnumModel from \core/components/enum-model\import ArrayModel from \core/components/array-model\import PrimitiveModel from \core/components/primitive-model\import Property from \core/components/property\import TryItOutButton from \core/components/try-it-out-button\import VersionPragmaFilter from \core/components/version-pragama-filter\import DeepLink from \core/components/deep-link\import SvgAssets from \core/components/svg-assets\import Markdown from \core/components/providers/markdown\import BaseLayout from \core/components/layouts/base\import * as LayoutUtils from \core/components/layout-utils\import * as JsonSchemaComponents from \core/json-schema-components\import BasePreset from \./base\import OAS3Plugin from \../plugins/oas3\n
// Just the base, for now.

export default function PresetApis() {

  return [
    BasePreset, OAS3Plugin
  ]

import deepExtend from "deep-extend"

import System from "./system"
import ApisPreset from "./presets/apis"
import AllPlugins from "./plugins/all"
import { parseSearch } from "./utils"
import win from "./window"

if (process.env.NODE_ENV !== "production");

from \core/components/response\import ResponseBody from \core/components/response-body\import {
Parameters } from \core/components/parameters\import ParameterExt from \core/components/parameter-extension\import ParameterIncludeEmpty from \core/components/parameter-include-empty\import ParameterRow from \core/components/parameter-row\import Execute from \core/components/execute\import Headers from \core/components/headers\import Errors from \core/components/errors\import ContentType from \core/components/content-type\import Overview from \core/components/overview\import InitializedInput from \core/componentsinitialized-input\import Info, \n\nInfoUrl, InfoBasePath\from \core/components/info\import InfoContainer from \core/containers/info\import JumpToPath from \core/components/jump-to-path\import Footer from \core/components/footer\import FilterContainer from \core/containers/filter\import ParamBody from \core/components/param-body\import Curl from \core/components/curl\import SchemesContainer from \core/containers/schemes\import ModelCollapse from \core/components/model-collapse\import ModelExample from \core/components/model-example\import ModelWrapper from \core/components/model-wraper\import Model from \core/components/model\import Models from \core/components/models\import EnumModel from \core/components/enum-model\import ArrayModel from \core/components/array-model\import PrimitiveModel from \core/components/primitive-model\import Property from \core/components/property\import TryItOutButton from \core/components/try-it-out-button\import VersionPragmaFilter from \core/components/version-pragama-filter\import DeepLink from \core/components/deep-link\import SvgAssets from \core/components/svg-assets\import Markdown from \core/components/providers/markdown\import BaseLayout from \core/components/layouts/base\import * as LayoutUtils from \core/components/layout-utils\import * as JsonSchemaComponents from \core/json-schema-components\import BasePreset from \./base\import OAS3Plugin from \../plugins/oas3\n
// Just the base, for now.

export default function PresetApis() {

  return [
    BasePreset, OAS3Plugin
  ]
constructorConfig.responseInterceptor){
  return downloadSpec()}
}

  return system.specActions.getConfigByUrl(configUrl, downloadSpec)
  }

  return system
}

// Add presets
SwaggerUI.presets = {
  apis: ApisPreset,
}

// All Plugins
SwaggerUI.plugins =

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B, MACrCuP, GAAgBrP, UAAAYyB, GAAaZb, UACrCqP, GAAgBlP, GAAaYyB, GAAaZb, GAAYyB, GAAaZb, GAAaYyB, GAAaZb

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O, CACL5xf, KAAMyx, EACNI, QAAS, OACNF, EAAcA, IAAMb, SAASE, EAOH, GACrB, MAO, CACL3xf, KAAMOxf, EACNG, QAAFS, GAMN, I, EAAMl, EAAS, kBAAM, crBfC, EAAaB, SAACC, GAAD, OAAS, SAACX, GAGC, OAAOY, EAFiBZ, EAAlB, YAC3C, GAAIuD, EACF, OAAOvD, EAAYsD, eAAeC, GAAKvuC, KAALK7D, EAAAhA, GAAKpD, SAASA, EAAAhC, GACR, aAae4B, OAASs4B, EAAlO, QAAL, KAAhC1D, EAA2D0, BAAOaB, GACCh3D, EAA2D0, BAAOaB, gBACCh3D, EAAYC, UAAU, IACBt2D, QAQYb, MAAMu4B, EAAIw0D, WAAaJIAAML, EAAlOx, KACZCNbB, EAAJC, OHLA, EAAG+HE, EAAG+VZ, EAAMIbJ, U, gBCCbHblnD, EAAM, SAACx, CEAQUArR, GACZB, OAAOfR, EAMAnoB, EMAAI, IACw5B, GAQQA, EAAO, CAACA, K, OCKnD, cAAG3C, GAAIb, SAACVdO, EAAQpD, GACxB, OAAOvpD, EAAMx9B, MAAMrIb, BAAOKf, EAAOV, aAHRC, MAMGH, GAAbI, SAACxO, D, EAAM, GACxB, IAAMZ, EAAYA, EAAOV, QACpBW, EAASSpD, EAAMJvC, IAAIL03F, GACZB, OAAOzO, EAAM7B, IAIASoF, GAAAA, MATIC, GCAM3C, EAAgB, CACP4C, eAAgB, WACd, OAAOpB, ECTI, 8I CMA, WCJA, WACB, MAAO, CACLqB, WAAy, CACVpE, YHSS, WAEB, MAO, CACLqEaA, AccB, CACZtB, KAA, CACJutB, QAASlE, EACTmE, UAAWhD, GAEBe, QAAS, CACP+C, WACAf, UACAC, gBEhBN, WACE, MAO, CA CLH, WAAy, CAAEZeR, 0B", "file": "swagger-ui-standalone-preset.js", "sourcesContent": "("function webpackUniversalModuleDefinition(root, factory) {
  // define amd
  try {
    return factory((function webpackLoadOptionalExternalModule() {
      var exports = module.exports = factory((function webpackLoadOptionalExternalModule() {
        return "SwaggerUIStandalonePreset"; // The module cache
        var installedModules = {};
        // The require function
        function __webpack_require__(moduleId) {
          // Check if module is in cache
          if (installedModules[moduleId]) {
            return installedModules[moduleId].exports;
          }
          // Create a new module (and put it into the cache)
          var module = installedModules[moduleId] = {
            i: moduleId,
            l: false,
            exports: {}
          };
          // Execute the module function
          modules[moduleId].call(module.exports, module, module.exports, __webpack_require__);
          // Flag the module as loaded
          module.l = true;
          // Return the exports of the module
          return module.exports;
        }
        // expose the modules object (__webpack_modules__)
        __webpack_require__.m = modules;
        // expose the module cache
        __webpack_require__.c = installedModules;
        // define getter function for harmony exports
        function __webpack_require__._m = modules;
        __webpack_require__._c = installedModules;
        __webpack_require__._r = function(exports, name, getter) {
          __webpack_require__(_m[name] = getter);
          __webpack_require__(_c[name] = getter);
        };
        __webpack_require__.t = function(value, mode) {
          if (mode & 1) value = __webpack_require__._(value);
          if (mode & 2) __webpack_require__._c[value] = value;
          return value;
        };
        __webpack_require__.r = function(exports, Symbol, Symbol.toStringTag) {
          var value = exports.value;
          __webpack_require__.defineProperty(exports, Symbol.toStringTag, { value: 'Module' });
          __webpack_require__.defineProperty(exports, '__esModule', { value: true });
          __webpack_require__.module.exports = value;
          return value;
        };
        __webpack_require__.p = '/dist';
        // return exports
        return
      });
    });
  } catch (e) {} }();
  // Object.prototype.hasOwnProperty.call
  try {
    return factory((function webpackLoadOptionalExternalModule() {
      // harmony exports
      return "SwaggerUIStandalonePreset";
    }));
  } catch (e) {} }();
}
);
maybeIndexedSeqFromValue(value) {\n return (\n
isArrayLike(value) ? new ArraySeq(value) :\n
isIterator(value) ? new IteratorSeq(value) :\n
hasIterator(value) ? new IterableSeq(value) :\n
undefined\n );\n
}\n\n function seqIterate(seq, fn, reverse, useKeys) {\n var cache = seq._cache;\n if (cache) {\n
var maxIndex
= cache.length - 1;\n
for (var ii = 0; ii <= maxIndex; ii++) {\n
var entry = cache[reverse ? maxIndex - ii :
ii];\n
if (fn(entry[1], useKeys ? entry[0] : ii, seq) === false) {\n
return ii + 1;\n
}\n
}\n return
ii;\n }\n return seq.__iterateUncached(fn, reverse);\n }\n\n function seqIterator(seq, type, reverse, useKeys) {\n
var cache = seq._cache;\n if (cache) {\n
var maxIndex = cache.length - 1;\n
var ii = 0;\n
return new
Iterator(function() {\n
var entry = cache[reverse ? maxIndex - ii : ii];\n
return ii++ > maxIndex ?\n
iteratorDone() :\n
iteratorValue(type, useKeys ? entry[0] : ii - 1, entry[1]);\n
});\n }\n return
seq.__iteratorUncached(type, reverse);\n }\n\n function fromJS(json, converter) {\n return converter ?\n
fromJSWith(converter, json, '', {'': json}) :\n
fromJSDefault(json);\n }\n\n function fromJSWith(converter, json,
key, parentJSON) {\n if (Array.isArray(json)) {\n
return converter.call(parentJSON, key,
IndexedSeq(json).map(function(v, k) {return fromJSWith(converter, v, k, json)}));\n }\n if (isPlainObj(json))
{\n
return converter.call(parentJSON, key, KeyedSeq(json).map(function(v, k) {return fromJSWith(converter, v,
k, json)}));\n }\n return json;\n }\n\n function fromJSDefault(json) {\n if (Array.isArray(json)) {\n
return
IndexedSeq(json).map(fromJSDefault).toList();\n }\n if (isPlainObj(json)) {\n
return
KeyedSeq(json).map(fromJSDefault).toMap();\n }\n return json;\n }\n\n function isPlainObj(value) {\n return
value && (value.constructor === Object || value.constructor === undefined);\n }\n\n /**\n * An extension of the
\"same-value\" algorithm as [described for use by ES6 Map\n * and Set](https://developer.mozilla.org/enUS/docs/Web/JavaScript/Reference/Global_Objects/Map#Key_equality)\n *\n * NaN is considered the same as
NaN, however -0 and 0 are considered the same\n * value, which is different from the algorithm described by\n *
[`Object.is`](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Object/is).\n *\n
* This is extended further to allow Objects to describe the values they\n * represent, by way of `valueOf` or
`equals` (and `hashCode`).\n *\n * Note: because of this extension, the key equality of Immutable.Map and the\n
* value equality of Immutable.Set will differ from ES6 Map and Set.\n *\n * ### Defining custom values\n *\n
* The easiest way to describe the value an object represents is by implementing\n * `valueOf`. For example, `Date`
represents a value by returning a unix\n * timestamp for `valueOf`:\n *\n * var date1 = new
Date(1234567890000); // Fri Feb 13 2009 ...\n * var date2 = new Date(1234567890000);\n *
date1.valueOf(); // 1234567890000\n * assert( date1 !== date2 );\n * assert( Immutable.is( date1, date2 ) );\n
*\n * Note: overriding `valueOf` may have other implications if you use this object\n * where JavaScript expects
a primitive, such as implicit string coercion.\n *\n * For more complex types, especially collections,
implementing `valueOf` may\n * not be performant. An alternative is to implement `equals` and `hashCode`.\n
*\n * `equals` takes another object, presumably of similar type, and returns true\n * if the it is equal. Equality is
symmetrical, so the same result should be\n * returned if this and the argument are flipped.\n *\n * assert(
a.equals(b) === b.equals(a) );\n *\n * `hashCode` returns a 32bit integer number representing the object which
will\n * be used to determine how to store the value object in a Map or Set. You must\n * provide both or neither
methods, one must not exist without the other.\n *\n * Also, an important relationship between these methods
must be upheld: if two\n * values are equal, they *must* return the same hashCode. If the values are not\n *
equal, they might have the same hashCode; this is called a hash collision,\n * and while undesirable for
performance reasons, it is acceptable.\n *\n * if (a.equals(b)) {\n *
assert( a.hashCode() === b.hashCode()
);\n * }\n *\n * All Immutable collections implement `equals` and `hashCode`.\n *\n */\n function
is(valueA, valueB) {\n if (valueA === valueB || (valueA !== valueA && valueB !== valueB)) {\n
return true;\n
}\n if (!valueA || !valueB) {\n
return false;\n }\n if (typeof valueA.valueOf === 'function' &&\n
typeof valueB.valueOf === 'function') {\n
valueA = valueA.valueOf();\n
valueB = valueB.valueOf();\n
if
(valueA === valueB || (valueA !== valueA && valueB !== valueB)) {\n
return true;\n
}\n
if (!valueA ||
!valueB) {\n
return false;\n
}\n }\n if (typeof valueA.equals === 'function' &&\n
typeof
valueB.equals === 'function' &&\n
valueA.equals(valueB)) {\n
return true;\n }\n return false;\n }\n\n
function deepEqual(a, b) {\n if (a === b) {\n
return true;\n }\n\n if (\n
!isIterable(b) ||\n
a.size !==

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Range.prototype._iterate = function(fn, reverse) {
  var maxIndex = this.size - 1;
  var step = this._step;
  var value = reverse ? maxIndex * step : 0;
  for (var ii = 0; ii <= maxIndex; ii += step) {
    if (fn(value, ii, this) === false) {
      return ii + 1;
    }
    value += reverse ? -step : step;
  }
  return ii;
}

Range.prototype._iterator = function(type, reverse) {
  var maxIndex = this.size - 1;
  var step = this._step;
  var value = reverse ? this._start + maxIndex * step : this._start;
  var ii = 0;
  return new Iterator(function() {
    var v = value;
    value += reverse ? -step : step;
    return ii > maxIndex ? iteratorDone() : iteratorValue(type, ii++, v);
  });
}

Range.prototype.equals = function(other) {
  return other instanceof Range ?
    this._start === other._start &&
    this._end === other._end &&
    this._step === other._step :
    deepEqual(this, other);
}

var EMPTY_RANGE;

createClass(Collection, Iterable);
function Collection() {
  throw TypeError('Abstract');
}

createClass(KeyedCollection, Collection);
function KeyedCollection() {}

createClass(IndexedCollection, Collection);
function IndexedCollection() {}

createClass(SetCollection, Collection);
function SetCollection() {}

Collection.Keyed = KeyedCollection;
Collection.Indexed = IndexedCollection;
Collection.Set = SetCollection;

var imul = Math.imul;
function imul(a, b) {
  a = a | 0; // int
  b = b | 0; // int
  var c = a & 0xffff;
  var d = b & 0xffff;
  // Shift by 0 fixes the sign on the high part.
  return (c * d) + (((a >>> 16) * d + c * (b >>> 16))
  <= 16) >>> 0 | 0; // int
}

// v8 has an optimization for storing 31-bit signed numbers.
// Values which
// maintain
// the sign bit.
function smi(i32) {
  return ((i32 >>> 1) & 0x40000000) | (i32 & 0xBFFFFFFF);
}

function hash(o) {
  if (o === false || o === null || o === undefined) {
    return 0;
  }
  if (typeof o.valueOf === 'function') {
    o = o.valueOf();
    if (o === false || o === null || o === undefined) {
      return 0;
    }
  }
  if (o === true) {
    return 1;
  }
  var type = typeof o;
  if (type === 'number') {
    if (o !== o || o === Infinity) {
      return 0;
    }
    var h = o | 0;
    if (h !== o) {
      h ^= o * 0xffffffff;
    }
    while (o > 0xffffffff) {
      o /= 0xffffffff;
      h ^= o;
    }
    return smi(h);
  }
  if (type === 'string') {
    return o.length > STRING_HASH_CACHE_MIN_STRLEN ? cachedHashString(o) : hashString(o);
  }
  if (typeof o.hashCode === 'function') {
    return o.hashCode();
  }
  if (typeof o.toString === 'function') {
    return hashString(o.toString());
  }
  throw new Error('Value type ' + type + ' cannot be hashed.');
}

function cachedHashString(string) {
  var hash = stringHashCache[string];
  if (hash === undefined) {
    hash = hashString(string);
    if (STRING_HASH_CACHE_SIZE === STRING_HASH_CACHE_MAX_SIZE) {
      STRING_HASH_CACHE_SIZE = 0;
      stringHashCache = [];
    }
    var length = string.length;
    hashJSObj(obj) {
      var hash; if (usingWeakMap) {
        hash = weakMap.get(obj);
      } if (hash !== undefined) {
        return hash;
      }
      hash = obj[UID_HASH_KEY];
      if (hash !== undefined) {
        return hash;
      }
      if (!canDefineProperty) {
        obj[UID_HASH_KEY] = hash;
      }
    }

    // This is the hash from JVM
    // The hash code for a string is computed as
    // $[0] * 31 ^ (n - 1) + $[1] * 31 ^ (n - 2) + ... + $[n - 1],
    // where $[i] is the ith character of the string and n is the length of
    // the string. We "mod" the result to make it between 0 (inclusive)
    // and 2^31
    // by dropping high bits.
    var hash = 0;
    var ii = 0;
    for (var ii = 0; ii < string.length; ii++) {
      hash += string.charCodeAt(ii) | 0;
    }
    return smi(hash);
  }
  return stringHashCache[string] = hash;
}

function hashString(string) {
  // This is the hash from JVM
  // The hash code for a string is computed as
  // $[0] * 31 ^ (n - 1) + $[1] * 31 ^ (n - 2) + ... + $[n - 1],
  // where $[i] is the ith character of the string and n is the length of
  // the string. We "mod" the result to make it between 0 (inclusive)
  // and 2^31
  // by dropping high bits.
  var hash = 0;
  var ii = 0;
  for (var ii = 0; ii < string.length; ii++) {
    hash += string.charCodeAt(ii) | 0;
  }
  return smi(hash);
}
non-enumerable property on the object // we'll hijack one of the less-used non-enumerable properties to
// save our hash on it. Since this is a function it will not show up in\n// 'JSON.stringify' which is what we want\nobj.propertyIsEnumerable = function() {\n  return this.constructor.prototype.propertyIsEnumerable.apply(this,\n  arguments);\n};\nobj.propertyIsEnumerable[UID_HASH_KEY] = hash;\n// else if (obj.nodeType !==\n// undefined) {\n// At this point we couldn't get the IE `uniqueID` to use as a hash\n// and we couldn't use a\n// non-enumerable property to exploit the\n// dontEnum bug so we simply add the `UID_HASH_KEY` on the\nnode\n// itself.\nobj[UID_HASH_KEY] = hash;\n} else {\n  throw new Error('Unable to set a non-enumerable property on object.');\n\n  // Get references to ES5 object methods.\nvar\n  isExtensible = Object.isExtensible;\n\n  // True if Object.defineProperty works as expected. IE8 fails this test.\nvar\n  canDefineProperty = (function() {\n    try {\n      Object.defineProperty({}, '@', {});\n      return true;\n    } catch (e) {\n      return false;\n    }\n  }());\n\n  // IE has a `uniqueID` property on DOM nodes. We can construct the hash\nfrom\n// and avoid memory leaks from the IE cloneNode bug.\nfunction\ngetIENodeHash(node) {\n  if (node\n  && node.nodeType > 0) {\n    switch (node.nodeType) {\n      case 1: // Element\n        return node.uniqueID;\n      case 9: // Document\n        return node.documentElement && node.documentElement.uniqueID;\n    }\n  }\n}\n\n  // If possible, use a WeakMap.\nvar\n    usingWeakMap = typeof WeakMap === 'function';\n    weakMap;\n\n    if (usingWeakMap) {\n      weakMap = new WeakMap();\n    }\n\n    objHashUID = 0;\n\n    var UID_HASH_KEY = Symbol(UID_HASH_KEY);\n\n    function getIENodeHash(node) {\n      if (node\n        && node.nodeType > 0) {\n        switch (node.nodeType) {\n          case 1: // Element\n            return node.uniqueID;\n          case 9: // Document\n            return node.documentElement && node.documentElement.uniqueID;\n        }\n      }\n    }\n\n    var STRING_HASH_CACHE_MIN_STRLEN = 16;\n    var\n      STRING_HASH_CACHE_MAX_SIZE = 255;\n    var\n      STRING_HASH_CACHE_SIZE = 0;\n    var stringHashCache\n\n    function assertNotInfinite(size) {\n      invariant(
        size !== Infinity,
        'Cannot perform this action\n        with an infinite size.'\n      );\n    }\n\n    createClass(Map, KeyedCollection);\n
    // @pragma Construction

    function Map(value) {\n      return value === null || value === undefined ? emptyMap() : isMap(value) &&
      !isOrdered(value) ? value : emptyMap().withMutations(function(map) {\n        var iter =\n          KeyedIterable(value);\n        assertNotInfinite(iter.size());\n        iter.forEach(function(k, v) {return map.set(k, v)});\n      });\n    }\n
    Map.of = function() {var keyValues = SLICE$0.call(arguments, 0);\n      return \n      emptyMap().withMutations(function(map) {\n        for (var i = 0; i < keyValues.length; i += 2) {\n          if (i + 1 >=\n            keyValues.length) {\n            throw new Error('Missing value for key: ' + keyValues[i]);\n          }\n          map.set(keyValues[i], keyValues[i + 1]);\n        }\n      });\n    }\n
    Map.prototype.toString = function() {\n      return this.__toString('Map {', '}');\n    }\n
    // @pragma Access

    Map.prototype.get = function(k, notSetValue) {\n      return this._root ?
        this._root.get(0, undefined, k, notSetValue) :
        notSetValue;\n    }\n
    // @pragma Modification

    Map.prototype.set = function(k, v) {\n      return updateMap(this, k, v);\n    }\n
    Map.prototype.setIn = function(keyPath, v) {\n      return this.updateIn(keyPath, NOT_SET, function() {\n        return v});\n    }\n
    Map.prototype.remove = function(k) {\n      return updateMap(this, k, NOT_SET);\n    }\n
    Map.prototype.deleteIn = function(keyPath) {\n      return this.updateIn(keyPath, function() {\n        return NOT_SET});\n    }\n
    Map.prototype.merge = function(/*...iters*/) {\n      return mergeIntoMapWith(this, undefined, arguments);
    }\n
    Map.prototype.mergeWith = function(merger) {var iters = SLICE$0.call(arguments, 1);\n      return mergeIntoMapWith(this, merger, iters);\n    }\n
    Map.prototype.mergeDeep = function(/*...iters*/) {\n      return mergeIntoMapWith(this, deepMerger, arguments);\n    }\n
    Map.prototype.mergeWith = function(merger) {\n      return mergeIntoMapWith(this, merger, arguments);\n    }\n
    Map.prototype.mergeDeep = function(/*...iters*/) {\n      return mergeIntoMapWith(this, deepMerger, arguments);\n    }\n
    Map.prototype.mergeWith = function(merger) {\n      return mergeIntoMapWith(this, merger, arguments);\n    }\n
    Map.prototype.mergeDeep = function(/*...iters*/) {\n      return mergeIntoMapWith(this, deepMerger, arguments);\n    }
HashArrayMapNode.prototype.get = function(shift, keyHash, key, notSetValue) {
  if (keyHash === undefined) {
    keyHash = hash(key);
  }
  var idx = (shift === 0 ? keyHash : keyHash >>> shift) & MASK;
  var node = this.nodes[idx];
  return node ? node.get(shift + SHIFT, keyHash, key, notSetValue) : notSetValue;
}

HashArrayMapNode.prototype.update = function(ownerID, shift, keyHash, key, value, didChangeSize, didAlter) {
  if (keyHash === undefined) {
    keyHash = hash(key);
  }
  var removed = value === NOT_SET;
  var nodes = this.nodes;
  var node = nodes[idx];

  if (removed && !node) {
    return this;
  }

  var newNode = updateNode(node, ownerID, shift + SHIFT, keyHash, key, value, didChangeSize, didAlter);
  if (newNode === node) {
    return this;
  }

  var newCount = this.count;
  if (!node) {
    newCount++;
  } else if (!newNode) {
    newCount--;
    if (newCount < MIN_HASH_ARRAY_MAP_SIZE) {
      return packNodes(ownerID, nodes, newCount, idx);
    }
  }

  var isEditable = ownerID && ownerID === this.ownerID;
  var newNodes = setIn(nodes, idx, newNode, isEditable);

  if (isEditable) {
    this.count = newCount;
    this.nodes = newNodes;
    return this;
  }

  return new HashArrayMapNode(ownerID, newCount, newNodes);
};

HashCollisionNode.prototype.get = function(shift, keyHash, key, notSetValue) {
  var entries = this.entries;
  for (var ii = 0, len = entries.length; ii < len; ii++) {
    if (is(key, entries[ii][0])) {
      return entries[ii][1];
    }
  }
  return notSetValue;
}

HashCollisionNode.prototype.update = function(ownerID, shift, keyHash, key, value, didChangeSize, didAlter) {
  if (keyHash === undefined) {
    keyHash = hash(key);
  }
  var removed = value === NOT_SET;
  var entries = this.entries;
  var idx = 0;
  for (var len = entries.length; idx < len; idx++) {
    if (is(key, entries[idx][0])) {
      break;
    }
  }
  var exists = idx < len;
  if (!exists) {
    return this;
  }

  var keyMatch = is(key, entries[idx][0]);
  if (!keyMatch) {
    return this;
  }

  var key = entries[idx][0];
  var keyHash = hash(key);
  var newEntries = arrCopy(entries);
  newEntries[idx] = [key, value];
  for (var ii = 0; ii < len; ii++) {
    if (is(key, entries[ii][0])) {
      delete newEntries[idx];
    }
  }
  for (var ii = 0; ii < len; ii++) {
    if (is(key, entries[ii][0])) {
      delete newEntries[idx];
    }
  }
  this.entries = newEntries;
  this.count = this.count - 1;
  return this;
}

HashSet.prototype.get = function(ownerID, shift, keyHash, key, notSetValue) {
  var entries = this.entries;
  for (var ii = 0, len = entries.length; ii < len; ii++) {
    if (is(key, entries[ii][0])) {
      return null;
    }
  }
  return notSetValue;
}

HashSet.prototype.update = function(ownerID, shift, keyHash, key, value, didChangeSize, didAlter) {
  if (keyHash === undefined) {
    keyHash = hash(key);
  }
  var removed = value === NOT_SET;
  var entries = this.entries;
  var idx = 0;
  for (var len = entries.length; idx < len; idx++) {
    if (is(key, entries[idx][0])) {
      delete newEntries[idx];
    }
  }
  for (var ii = 0; ii < len; ii++) {
    if (is(key, entries[ii][0])) {
      delete newEntries[idx];
    }
  }
  this.entries = newEntries;
  this.count = this.count - 1;
  return this;
}
value;
return this;
} return new ValueNode(ownerID, this.keyHash, [key, value]);
} return mergeIntoNode(this, ownerID, shift, hash(key), [key, value]);
} 

// #pragma Iterators

ArrayMapNode.prototype.iterate = function (fn, reverse) {
  var entries = this.entries;
  for (var ii = 0, maxIndex = entries.length - 1; ii <= maxIndex; ii++) {
    var entry = entries[reverse ? maxIndex - ii : ii];
    if (fn(entry[reverse ? maxIndex - ii : ii]) === false) {
      return false;
    }
  }
  return true;

  BitmapIndexedNode.prototype.iterate = function (fn, reverse) {
    var nodes = this.nodes;
    for (var ii = 0, maxIndex = nodes.length - 1; ii <= maxIndex; ii++) {
      var node = nodes[reverse ? maxIndex - ii : ii];
      if (node && node.iterate(fn, reverse) === false) {
        return false;
      }
    }
    return true;
  }

  ValueNode.prototype.iterate = function (fn, reverse) {
    return fn(this.entry);
  }

createClass(MapIterator, Iterator);

  function MapIterator(map, type, reverse) {
    this._type = type;
    this._reverse = reverse;
    this._stack = map._root && mapIteratorFrame(map._root);
  }

  MapIterator.prototype.next = function() {
    var type = this._type;
    var stack = this._stack;
    while (stack)
    {
      var node = stack.node;
      var index = stack.index++;
      var maxIndex;
      if (node.entry) {
        if (index === 0) {
          return mapIteratorValue(type, node.entry);
        }
      } else if (node.entries) {
        maxIndex = node.entries.length - 1;
        if (index <= maxIndex) {
          return mapIteratorValue(type, node.entries[reverse ? maxIndex - index : index]);
        }
      } else {
        maxIndex = node.nodes.length - 1;
        if (index <= maxIndex) {
          var subNode = node.nodes[reverse ? maxIndex - index : index];
          if (subNode) {
            if (subNode.entry) {
              return mapIteratorValue(type, subNode.entry);
            }
            stack = this._stack = mapIteratorFrame(subNode, stack);
          }
          continue;
        }
      }
      return iteratorDone();
    }
  }

  function mapIteratorValue(type, entry) {
    return iteratorValue(type, entry[0], entry[1]);
  }

  function mapIteratorFrame(node, prev) {
    return {
      node: node,
      index: 0,
      __prev: prev
    };
  }

  function makeMap(size, root, ownerID, hash) {
    var map = Object.create(MapPrototype);
    map.size = size;
    map._root = root;
    map.__ownerID = ownerID;
    map.__hash = hash;
    map.__altered = false;
    return map;
  }

  var EMPTY_MAP;
  function emptyMap() {
    return EMPTY_MAP || (EMPTY_MAP = makeMap(0));
  }

  function updateMap(map, k, v) {
    var newSize;
    if (!map._root) {
      if (v === NOT_SET) {
        return map;
      }
      newSize = 1;
      newRoot = new ArrayMapNode(map._ownerID, [[k, v]]);
    } else {
      var didChangeSize = MakeRef(CHANGE_LENGTH);
      var didAlter = MakeRef(DID_ALTER);
      newRoot = updateNode(map._root, map._ownerID, 0, undefined, k, v, didChangeSize, didAlter);
      if (!didAlter.value) {
        return map;
      }
      newSize = map.size + (didChangeSize.value ? v === NOT_SET ? -1 : 1 : 0);
    }
    if (ownerID) {
      map.size = newSize;
      map._root = newRoot;
      map.__hash = undefined;
      map.__altered = true;
      return map;
    }
    return newRoot;
  }

  function updateNode(node, ownerID, shift, keyHash, key, value, didChangeSize, didAlter) {
    if (!node) {
      if (value === NOT_SET) {
        return node;
      }
      SetRef(didAlter);
      SetRef(didChangeSize);
      return new ValueNode(ownerID, keyHash, [key, value]);
    }
    return node.update(ownerID, shift, keyHash, key, value, didChangeSize, didAlter);
  }

  function isLeafNode(node) {
    return node.constructor === ValueNode
      || node.constructor === HashCollisionNode;
  }

  function mergeIntoNode(node, ownerID, shift, keyHash, entry) {
    if (node.keyHash !== keyHash) {
      return new HashCollisionNode(ownerID, keyHash, [node.entry, entry]);
    }
    var idx1 = (shift === 0 ? node.keyHash : node.keyHash >>> shift) & MASK;
    var idx2 = (shift === 0 ? keyHash : keyHash >>> shift) & MASK;
    var newRoot;
    var nodes = idx1 === idx2 ? [mergeIntoNode(node, ownerID, shift + SHIFT, keyHash, entry)] :
      ((newNode = new ValueNode(ownerID, keyHash, entry)), idx1 < idx2 ? [node, newNode] : [newNode, node]);
  }

  function createNodes(ownerID, entries, key, value) {
    if (ownerID) {
      var newOwnerID = new OwnerID();
      var node = new ValueNode(ownerID, hash(key), [key, value]);
      for (var ii = 0; ii < entries.length; ii++) {
        var entry = entries[ii];
        node = node.update(ownerID, 0, undefined, entry[0], entry[1]);
      }
    }
    var varNode = new Node();
    var varMap = makeMap(varNode.ownerID, varNode.keyHash, [varNode.key, varNode.value]);
new Array(count);\n for (var ii = 0, bit = 1, len = nodes.length; ii < len; ii++, bit <<= 1) {\n var node = \n nodes[ii];\n if (node !== undefined && ii !== excluding) {\n bitmap |= bit;\n packedNodes[packedII++] = node;\n }\n }\n return new BitmapIndexedNode(ownerID, bitmap, packedNodes);\n }\n
function expandNodes(ownerID, nodes, bitmap, including, node) {\n var count = 0;\n var expandedNodes = new Array(SIZE);\n for (var ii = 0; bitmap !== 0; ii++, bitmap >>>= 1) {\n expandedNodes[ii] = bitmap & 1 ? nodes[count++] : undefined;\n }\n expandedNodes[including] = node;\n return new HashArrayMapNode(ownerID, count + 1, expandedNodes);\n }

function mergeIntoMapWith(map, merger, iterables) {\n var iter = iters[0];\n for (var ii = 0; ii < iterables.length; ii++) {\n var value = iterables[ii];\n var iter = KeyedIterable(value);\n if (!isIterable(value)) {\n iter = iter.map(function(v) { return fromJS(v)});\n }\n iters.push(iter);\n }\n return mergeIntoCollectionWith(map, merger, iter);\n }

function deepMerger(existing, value, key) {\n return existing && existing.mergeDeep && isIterable(value) ? \n existing.mergeDeep(value) : \n is(existing, value, key) ? \n existing : \n value;\n }\n
createClass(List, IndexedCollection);\n
// @pragma Construction

function List(value) {\n var empty = \n createEmptyList();\n \n makeList(0, size, \n emptyList();\n \n if (size === 0) {\n \n return empty;\n }\n \n if (value === null || value === undefined) {\n \n return empty;\n }\n \n if (isList(value)) {\n \n makeList(0, size, \n emptyList();\n \n return empty;\n }\n \n var iter = IndexedIterable(value);\n \n var size = iter.size;\n \n if (size > 0 && size < SIZE) {\n \n return makeList(0, size, \n SHIFT, null, new VNode(iter.toArray()));\n }\n \n return empty;\n }\n
function*() {\n \n var arguments;\n }\n
List.prototype.toString = function() {\n \n return this(arguments);\n }


createClass(OrderedMap, Map);

    // @pragma Construction

    function OrderedMap(value) {
      return null || value === undefined ? emptyOrderedMap() : isOrderedMap(value) ? value : OrderedMap.of.apply(OrderedMap, [value]);
    }

    OrderedMap.prototype.toString = function() {
      return this._toString('OrderedMap {', '}');
    };

    // @pragma Access

    OrderedMap.prototype.get = function(k, notSetValue) {
      var index = this._map.get(k);
      return index !== undefined ? this._list.get(index)[1] : notSetValue;
    };

    // @pragma Modification

    OrderedMap.prototype.clear = function() {
      if (this.size === 0) {
        return this;
      }
      if (this.__ownerID) {
        this.size = 0;
        this._map.clear();
        this._list.clear();
        return this;
      }
      return emptyOrderedMap();
    };

    OrderedMap.prototype.set = function(k, v) {
      return updateOrderedMap(this, k, v);
    };

    OrderedMap.prototype.remove = function(k) {
      return updateOrderedMap(this, k, NOT_SET);
    };

    OrderedMap.prototype.wasAltered = function() {
      return this._map.wasAltered() || this._list.wasAltered();
    };

    OrderedMap.prototype.__iterate = function(fn, reverse) {
      var this$0 = this;
      return this._list.__iterate(function(entry) { return entry && fn(entry[1], entry[0], this$0)}, reverse);
    };

    OrderedMap.prototype.__iterator = function(type, reverse) {
      return this._list.fromEntrySeq().__iterator(type, reverse);
    };

    OrderedMap.prototype.__ensureOwner = function(ownerID) {
      if (ownerID === this.__ownerID) {
        return this;
      }
      var newMap = this._map.__ensureOwner(ownerID);
      var newList = this._list.__ensureOwner(ownerID);
      if (!ownerID) {
        this.__ownerID = ownerID;
        this._map = newMap;
        this._list = newList;
        this.__hash = undefined;
        return this;
      }
      return makeOrderedMap(newMap, newList, ownerID, this.__hash);
    };

    function isOrderedMap(maybeOrderedMap) {
      return isMap(maybeOrderedMap) && isOrdered(maybeOrderedMap);
    }

    OrderedMap.isOrderedMap = isOrderedMap;

    OrderedMap.prototype[IS_ORDERED_SENTINEL] = true;
    OrderedMap.prototype[DELETE] = OrderedMap.prototype.remove;

    ORDERED_MAP;
    function emptyOrderedMap() {
      return EMPTY_ORDERED_MAP || (EMPTY_ORDERED_MAP = makeOrderedMap(emptyMap(), emptyList()));
    }

    function updateOrderedMap(omap, k, v) {
      var map = omap._map;
      var list = omap._list;
      var i = map.get(k);
      var has = i !== undefined;
      var newMap; var newList;
      if (v === NOT_SET) { // removed
        if (!has) {
          return omap;
        }
        if (list.size >= SIZE && list.size >= map.size * 2) {
          newList = list.filter(function(entry, idx) { return entry !== undefined && i !== idx});
          newMap = newMap.toKeyedSeq().map(function(ownerID) { return this._list.__ensureOwner(ownerID);});
          var newMap = newMap.toKeyedSeq().map(function(ownerID) { return this._list.__ensureOwner(ownerID);});
          return this;
        }
        return omap.remove(k);
      }
      if (list.size >= SIZE && list.size >= map.size + 2) {
        var newMap = newMap.toKeyedSeq().map(function(ownerID) { return this._list.__ensureOwner(ownerID);});
        return this;
      }
      if (has) {
        if (v !== list.get(i)[1]) {
          return omap;
        }
        newMap = omap._map;
        newList = omap._list;
        omap._hash = undefined;
        return omap;
      }
    }

    function ToKeyedSequence(indexed, useKeys) {
      this._iter = indexed;
      this._useKeys = useKeys;
      this.size = indexed.size;
    }

    ToKeyedSequence.prototype.get = function(key, notSetValue) {
      return this._iter.get(key, notSetValue);
    };

    ToKeyedSequence.prototype.setValueSeq = function() {
      return this._iter.setValueSeq();
    };

    ToKeyedSequence.prototype.reverse = function() {
      var this$0 = this;
      if (!this._useKeys) {
        return this._iter.toSeq().reverse();
      }
    }

    ToKeyedSequence.prototype.map = function(mapper, context) {
      var this$0 = this;
      return reversedSequence = reverseFactory(this, true); else function(this$0) { return reversedSequence.valueSeq = function() {
        return this$0._iter.toSeq().reverse();
      };
    }

    ToKeyedSequence.prototype.map = function(mapper, context) {
      var this$0 = this;
      function reversedSequence(valueSeq) {
        return this$0._iter.toSeq().reverse();
      };
    }

    ToKeyedSequence.prototype.map = function(mapper, context) {
      var this$0 = this;
      var mappedSequence =
function isStack(maybeStack) {
  return !!(maybeStack && maybeStack[IS_STACK_SENTINEL]);
}

Stack.isStack = isStack;

var IS_STACK_SENTINEL = '@@__IMMUTABLE_STACK__@@';

var StackPrototype = Stack.prototype;
  StackPrototype[IS_STACK_SENTINEL] = true;

StackPrototype.withMutations = MapPrototype.withMutations;
  StackPrototype.asMutable = MapPrototype.asMutable;
  StackPrototype.asImmutable = MapPrototype.asImmutable;

  function makeStack(size, head, ownerID, hash) {
    var map = Object.create(StackPrototype);
      map.size = size;
      map._head = head;
      map.__ownerID = ownerID;
      map.__hash = hash;
      map.__altered = false;
      return map;
  }

  var EMPTY_STACK;

  function emptyStack() {
    return EMPTY_STACK || (EMPTY_STACK = makeStack(0));
  }

  /**
   * Contributing additional methods to a constructor
   * @pragma Iteration
   */
  function mixin(ctor, methods) {
    var keyCopier =
      function(key) { ctor.prototype[key] = methods[key]; };
    Object.keys(methods).forEach(keyCopier);

    Object.getOwnPropertySymbols &&
      Object.getOwnPropertySymbols(methods).forEach(keyCopier);
    return ctor;
  }

  Iterable.Iterator = Iterator;

  mixin(Iterable, {

    // ### Conversion to other types

    toArray: function() {
      assertNotInfinite(this.size);
      var array = new Array(this.size || 0);
      this.valueSeq().__iterate(function(v, i) { array[i] = v; });
      return array;
    },

    toIndexedSeq: function() {
      return new ToIndexedSequence(this);
    },

    toJS: function() {

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return deepEqual(this, other);
}

entrySeq: function()

if (iterable._cache) {
  // We cache as an entries array, so we can just return the cache!
  return new ArraySeq(iterable._cache);
}

var entriesSequence = iterable.toSeq().map(entryMapper).toIndexedSeq();

filterNot: function(predicate, context)

var found = [k, v];
return found;

findFirst: function(predicate, context)

var entry = this.findEntry(predicate, context);
return entry & entry[0];

findLast: function(predicate, context, notSetValue)

var entry = this.findIndex(predicate, context);
return entry & entry[0];

findLastKey: function(predicate, context)

var found = notSetValue;
this.__iterate(function(value, key, context) {
  if (predicate.call(context, value, key, context)) {
    found = [key, value];
    return false;
  }
});
return found;

findKey: function(predicate, context)

var entry = this.findIndex(predicate, context);
return entry & entry[0];

findLastKey: function(predicate, context)

var found = notSetValue;
this.toKeyedSeq().reverse().findKey(predicate, context);
return found;

first: function()

var nested = this;
// Note: in an ES6 environment, we would prefer:
// for (var key of searchKeyPath) {
var step;
while (!(step = iter.next()).done)
  var key = step.value;
  nested = nested && nested.get ? nested.get(key, NOT_SET) : NOT_SET;
if (nested === NOT_SET) {
  return notSetValue;
}

get: function(searchKey, notSetValue)

var nested = this;
// Note: in an ES6 environment, we would prefer:
// for (var key of searchKeyPath) {
var iter = forceIterator(searchKeyPath);
var step;
while (!(step = iter.next()).done)
  var key = step.value;
  nested = nested && nested.get ? nested.get(key, NOT_SET) : NOT_SET;
if (nested === NOT_SET) {
  return notSetValue;
}

groupBy: function(grouper, context)

var resultGroupByFactory(this, grouper, context);

groupBy: function(grouper, context)

var resultGroupByFactory(this, grouper, context);

has: function(searchKey)

return this.get(searchKey, NOT_SET) !== NOT_SET;

hasIn: function(searchKeyPath)

return this.getIn(searchKeyPath, NOT_SET) !== NOT_SET;

isSubset: function(iter)

return this.every(function(value) {return iter.includes(value)});

isSuperset: function(iter)

return this.every(function(value) {return iter.includes(value)});

keySeq: function()

return this.toIndexedSeq();

last: function()

return this.toSeq().reverse().first();

lastKeyOf: function(searchValue)

return this.toKeyedSeq().reverse().keyOf(searchValue);

max: function(comparator)

return maxFactory(this, comparator);

maxBy: function(comparator)

return maxFactory(this, comparator);

min: function(comparator)

return maxFactory(this, comparator);

minBy: function(comparator)

return maxFactory(this, comparator);

maxFactory(this, comparator);

minFactory(this, comparator);

maxBy: function(comparator)

minBy: function(comparator)

skip: function(amount)

skipLast: function(amount)

take: function(amount)

takeLast: function(amount)

skipWhen: function(predicate, context)

take: function(amount)

takeLast: function(amount)

takeWhile: function(predicate, context)

return reify(this, that == this);

// abstract _iterate(fn, reverse)

// abstract _iterator(type, reverse)

// var IS_ITERABLE_SENTINEL = ' @@ IMMUTABLE_ITERABLE @ @';

// var IS_KEYED_SENTINEL =
IndexedIterable.prototype[IS_INDEXED_SENTINEL] = true;

IndexedIterable.prototype[IS_ORDERED_SENTINEL] = true;

mixin(SetIterable, { // ### ES6
  get: function(value, notSetValue) {
    return this.has(value) ? value : notSetValue;
  },

  includes: function(value) {
    return this.has(value);
  },

  // ### More sequential methods
  keySeq: function() {
    return this.valueSeq();
  },

  filter: function(filter) {
    return this.predicate.apply(this, arguments);
  },

  // ### ES6 Array and Map
  // More

  // ### More
  keySeq: function() {
    return this.valueSeq();
  },

  // Mixin subclasses
  mixin(KeyedSeq, KeyedIterable.prototype);

  mixin(IndexedSeq, IndexedIterable.prototype);

  mixin(SetSeq, SetIterable.prototype);

  mixin(KeyedCollection, KeyedIterable.prototype);

  mixin(IndexedCollection, IndexedIterable.prototype);

  mixin(SetCollection, SetIterable.prototype);

  // #pragma Helper functions
  function hashIterable(iterable) {
    if (iterable.size === Infinity) {
      return 0;
    }

    var ordered = isOrdered(iterable);
    var keyed = isKeyed(iterable);

    var h = ordered ? 1 : 0;

    var size = iterable.__iterate(keyed ?
      ordered ?
        function(v, k) { h = 31 * h + hashMerge(hash(v), hash(k)) | 0; } :
      function(v, k) { h = h + hashMerge(hash(v), hash(k)) | 0; }
    :
      ordered ?
        function(v) { h = imul(h, 0x9E3779B9) + hash(v) | 0; } :
        function(v) { h = h + hash(v) | 0; }
    );

    return murmurHashOfSize(size, h);
  }

  function murmurHashOfSize(size, h) {
    h = imul(h, 0xCC9E2D51);
    h = imul(h << 15 | h >>> -15, 0x1B873593);
    h = imul(h << 13 | h >>> -13, 5);
    h = (h + 0xA5E8B4B7) | 0;
    h = (h + 0x59F49795) | 0;
    h = (h + 0x9E3779B9) + (a < 6) + (a > 2) | 0;
    return h;
  }

  function hashMerge(a, b) {
    return a ^ b + 0x9E3779B9 + (a << 6) + (a >> 2) | 0;
  }

  // Turn around

  var Immutable = {
    Iterable: Iterable,
    Seq: Seq,
    Collection: Collection,
    Map: Map,
    OrderedMap: OrderedMap,
    List: List,
    Stack: Stack,
    Set: Set,
    OrderedSet: OrderedSet,
    Record: Record,
    Range: Range,
    Repeat: Repeat,
    is: is
  } fromJS: fromJS

  return Immutable;
});
deprecated.

You should probably add a new file to `./helpers/isFunction` instead of adding a new
`function` here. One-function-per-file is a better pattern than what we have here. If you're refactoring something in here, feel free to break it out to a file in `./helpers` if you have the time.

* import {camelCase from `./lodash/camelCase`,
  upperFirst from `./lodash/upperFirst`,
  memoize from `./lodash/memoize`,
  find from `./lodash/find`,
  some from `./lodash/some`,
  isObject from `./lodash/isObject`,
  eq from `./lodash/eq`,
  memoizedSampleFromSchema, memoizedCreateXMLExample from `./core/plugins/samples/fn`,
  win from `./window`,
  cssEscape from `./css.escape`,
  refactoring something in here, feel free to break it out to a file in `./helpers` if you have the time.

* import {camelCase from `./lodash/camelCase`,
  upperFirst from `./lodash/upperFirst`,
  memoize from `./lodash/memoize`,
  find from `./lodash/find`,
  some from `./lodash/some`,
  isObject from `./lodash/isObject`,
  eq from `./lodash/eq`,
  memoizedSampleFromSchema, memoizedCreateXMLExample from `./core/plugins/samples/fn`,
  win from `./window`,
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* import {camelCase from `./lodash/camelCase`,
  upperFirst from `./lodash/upperFirst`,
  memoize from `./lodash/memoize`,
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  some from `./lodash/some`,
  isObject from `./lodash/isObject`,
  eq from `./lodash/eq`,
  memoizedSampleFromSchema, memoizedCreateXMLExample from `./core/plugins/samples/fn`,
  win from `./window`,
  cssEscape from `./css.escape`,
  refactoring something in here, feel free to break it out to a file in `./helpers` if you have the time.
Object.keys(obj).reduce((newObj, key) => {
    newObj[key] = fn(obj[key], key)
    return newObj
  },
}

export function objReduce(obj, fn) {
  return Object.keys(obj).reduce((newObj, key) => {
    newObj[key] = fn(obj[key], key)
    return newObj
  },
}

// Redux middleware that exposes the system to async actions (like redux-thunk, but with out system
instead of (dispatch, getState))
export function systemThunkMiddleware(getSystem) {
  return ({ dispatch, getState }) => action => {
    if (typeof action === "function") {
      return action(getSystem())
    }

    return next(action)
  }
}

export function defaultStatusCode(responses) {
  let codes = responses.keySeq()
  return codes.contains(DEFAULT_RESPONSE_KEY) ? DEFAULT_RESPONSE_KEY : codes.filter((key) => {
    return key[0] === "2" || key[0] === "3" || key[0] === "4" || key[0] === "5"
  }).first()
}

/**
 * Returns an Immutable List, safely
 * @param {Immutable.Iterable} iterable the iterable to get the from
 * @param {String} String key the key to use, when merging the `key`
 * @returns {Immutable.List} either iterable get(keys) or an empty Immutable.List
 */
export function getList(iterable, keys) {
  if (!Im.Iterable.isIterable(iterable)) {
    return Im.List()
  }
  let val = iterable.getIn(Array.isArray(keys) ? keys : [keys])
  return Im.List.isList(val) ? val : Im.List()
}

/**
 * Take
an immutable map, and convert to a list.
 * @param {String} keyNames the key to use, when merging the `key`
 * @returns {Immutable.List}
 */
export function mapToList(map, keyNames = "key", collectedKeys = Im.Map()) {
  if (!Im.Map.isMap(map) || !map.size) {
    return Im.List()
  }

  if (!Array.isArray(keyNames)) {
    keyNames = [keyNames]
  }

  if (keyNames.length < 1) {
    return map.merge(collectedKeys)
  }

  let list = Im.List()
  let keyName = keyNames[0]
  for (let entry of map.entries()) {
    let [key, val] = entry
    let nextList = mapToList(val, keyNames.slice(1), collectedKeys.set(keyName, key))
    if (Im.List.isList(nextList)) {
      list = list.concat(nextList)
    } else {
      list = list.push(nextList)
    }
  }

  return list
}

export function extractFileNameFromContentDispositionHeader(value) {
  let patterns = [
    /filename\*\=\[^\']*\'^\w+*'\(\[^\"]\)*\";?/i,
    /filename\*\=\[^\']*\'^\w+*'\(\[^;\]+\)*;?\//i,
    /filename="\[^\]*";/i,
    /filename=(\[^;\]*);?/i
  ]

  let responseFilename
  patterns.some(regex => {
    responseFilename = regex.exec(value)
    return responseFilename !== null
  })

  if (responseFilename !== null && responseFilename.length > 1) {
    try {
      return decodeURIComponent(responseFilename[1])
    } catch (e) {
      console.error(e)
    }
  }

  return null
}

export function pascalCase(str) {
  return upperFirst(camelCase(str))
}

export function pascalCaseFilename(filename) {
  return pascalCase(filename.replace(/\.[^./]*$/, ""))
}

export const propChecker = (props, nextProps, objectList = [], ignoreList = []) => {
  if (Object.keys(props).length !== Object.keys(nextProps).length) {
    return true
  }

  return some(props, (a, name) => {
    let b = nextProps[name]
    if (Im.Iterable.isIterable(a)) {
      return !eq(a, b)
    }
    return a !== b
  }) || objectList.some((objectPropName) => !eq(props[objectPropName], nextProps[objectPropName]))
}

export const validateMaximum = (val, max) => {
  if (val > max) {
    return "Value must be less than Maximum"
  }
}

export const validateMinimum = (val, min) => {
  if (val < min) {
    return "Value must be greater than Minimum"
  }
}

export const validateNumber = (val) => {
  if (!/^-?\d+(\.?\d+)?$/.test(val)) {
    return "Value must be a number"
  }
}

export const validateInteger = (val) => {
  if (!/^-?\d+$/.test(val)) {
    return "Value must be an integer"
  }
}

export const validateFile = (val) => {
  if (val && !(val instanceof win.File)) {
    return "Value must be a file"
  }
}

export const validateBoolean = (val) => {
  if (!("true" || "false" || val || val === true || val === false)) {
    return "Value must be a boolean"
  }
}

export const validateString = (val) => {
  if (val && typeof val !== "string") {
    return "Value must be a string"
  }
}

export const validateDateTime = (val) => {
  if (isNaN(Date.parse(val))) {
    return "Value must be a DateTime"
  }
}

export const validateGuid = (val) => {
  val = val
}

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```javascript
if (/xml/.test(contentType)) {
  if (!schema.xml || !schema.xml.name) {
    return errors
  }
}

export const getSampleSchema = schema => {
  const arrayListCheck = !schema.arrayList || !schema.arrayList.length
  const arrayStringCheck = !schema.arrayString || !schema.arrayString.length
  const fileCheck = !schema.file || !schema.file.type
  const booleanCheck = !schema.boolean || !schema.boolean.type
  const numberCheck = !schema.number || !schema.number.type
  const integerCheck = !schema.integer || !schema.integer.type
  const objectCheck = !schema.object || !schema.object.type
  const stringCheck = !schema.string || !schema.string.type
  const objectStringCheck = !schema.objectString || !schema.objectString.type

  const passedAnyCheck = allChecks.some(v => !!v)

  if ((paramRequired || required) && !passedAnyCheck && !bypassRequiredCheck) {
    errors.push("Required field is not provided")
  }

  const parameterContentMediaType = getParameterSchema(param, { isOAS3 })

  if(!paramDetails) return errors

  let errors = []

  let paramRequired = param.get("required")

  let { schema: paramDetails, parameterContentMediaType } = getParameterSchema(param, { isOAS3 })

  if(!paramDetails) return errors

  return errors
}
```
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```javascript
schema.xml = schema.xml || {}

    if (schema.$$ref) {
      let match = schema.$$ref.match(/\S*\/(\S+)$/)

      schema.xml.name = match[1]
    } else if (schema.type === "uri" || schema.items || schema.properties || schema.additionalProperties) {
      return "\""
    }

    if (schema.$$ref) {
      let match = schema.$$ref.match(/\S*\/(\S+)$/)

      schema.xml.name = match[1]
    } else if (schema.type || schema.items || schema.properties || schema.additionalProperties) {
      return "<?xml version=\"1.0\" encoding=\"UTF-8\"?>\n<!-- XML example cannot be generated; root element name is undefined -->"
    } else {
      return null
    }

    return memoizedCreateXMLExample(schema, config)
  }

  const res = memoizedSampleFromSchema(schema, config)

  return typeof res === "object" ? JSON.stringify(res, null, 2) : res
}

export const parseSearch = () => {
  let map = {}
  let search = window.location.search

  if(!search)
    return {}

  if (search != "") {
    let params = search.substr(1).split("&")

    for (let i in params) {
      if (!params.hasOwnProperty(i)) {
        continue
      }
      i = params[i].split("=")
      map[decodeURIComponent(i[0])] = (i[1] && decodeURIComponent(i[1])) || ""
    }
  }

  return map
}

export const serializeSearch = (searchMap) => {
  return Object.keys(searchMap).map(k => {
    return encodeURIComponent(k) + "=" + encodeURIComponent(searchMap[k])
  }).join("&")
}

export const btoa = (str) => {
  let buffer

  if (str instanceof Buffer) {
    buffer = str
  } else {
    buffer = new Buffer(str.toString(), "utf-8")
  }

  return buffer.toString("base64")
}

export const sorters = {
  operationsSorter: {
    alpha: (a, b) => a.get("path").localeCompare(b.get("path")),
    method: (a, b) => a.get("method").localeCompare(b.get("method"))
  },
  tagsSorter: {
    alpha: (a, b) => a.localeCompare(b)
  }
}

export const buildFormData = (data) => {
  let formArr = []

  for (let name in data) {
    let val = data[name]
    if (val !== undefined && val !== "") {
      formArr.push([name, "=", encodeURIComponent(val).replace(/%20/g,"+"].join(""))
    }
  }
  return formArr.join("&")
}

// Is this really required as a helper? Perhaps. TODO: expose the system of presets.apis in docs, so we know what is supported
export const shallowEqualKeys = (a, b, keys) => {
  return !!find(keys, (key) => {
    return eq(a[key], b[key])
  })
}

export function sanitizeUrl(url) {
  if(typeof url !== "string" || url === "") {
    return ""
  }

  return braintreeSanitizeUrl(url)
}

export function requiresValidationURL(uri) {
  if (!uri || uri.indexOf("localhost") >= 0 || uri.indexOf("127.0.0.1") >= 0 || uri === "none") {
    return false
  }
  return true
}

export function getAcceptControllingResponse(responses) {
  if(!Im.OrderedMap.isOrderedMap(responses)) {
    // wrong type!
    return null
  }

  if(!responses.size) {
    // responses is empty
    return null
  }

  const suitable2xxResponse = responses.find((res, k) => {
    return k.startsWith("2") && Object.keys(res.get("content") || {}).length > 0
  })

  // try to find a suitable `default`
  responses
  const defaultResponse = responses.get("default") || Im.OrderedMap()
  const defaultResponseMediaTypes = (defaultResponse.get("content") || Im.OrderedMap()).keySeq().toJS()
  const suitableDefaultResponse = defaultResponseMediaTypes.length ? defaultResponse : null

  return suitable2xxResponse || suitableDefaultResponse
}

// suitable for use in URL fragments
export const createDeepLinkPath = (str) => typeof str == "string" || str instanceof String ? str.trim().replace(/\s/g, "%20") : ""

// suitable for use in CSS classes and ids
export const escapeDeepLinkPath = (str) => cssEscape(createDeepLinkPath(str).replace(/%20/g, _"\_"))

export const getExtensions = (defObj) => defObj.filter((v, k) => /^x-/.test(k))

export const getCommonExtensions = (defObj) => defObj.filter((v, k) => /^pattern|maxLength|minLength|maximum|minimum/.test(k))

export function deeplyStripKey(input, keyToStrip, predicate = () => true) {
  if(typeof input !== "object" || Array.isArray(input) || input === null || !keyToStrip) {
    return input
  }

  const obj = Object.assign({}, input)

  Object.keys(obj).forEach(k => {
    if (k === keyToStrip && predicate(obj[k], k)) {
      delete obj[k]
    } else {
      obj[k] = deeplyStripKey(obj[k], keyToStrip, predicate)
    }
  })

  return obj
}

export function stringify(thing) {
  if (typeof thing === "string") {
    return thing
  }

  if (thing && thing.toJS) {
    thing = thing.toJS()
  }

  if (typeof thing === "number") {
    return thing
  }

  try {
    return String(thing)
  } catch (e) {
    return null
  }

  if (thing instanceof Date) {
    return thing.toString()
  }

  if (thing instanceof Buffer) {
    return thing.toString("base64")
  }

  if (thing instanceof Object) {
    return JSON.stringify(thing, null, 2)
  }

  if (thing === null) {
    return ""
  }

  return thing.toString()
}

export function numberToString(thing) {
  return thing.toString()
}

export function paramToIdentifier(param, { returnAll = false, allowHashes = true } = {}) {
  if (!Im.Map.isMap(param)) {
    return param
  }

  return Object.keys(param).map(k => {
    return encodeURIComponent(k) + "=" + encodeURIComponent(param[k])
  }).join("&")
}````
throw new Error("paramToIdentifier: received a non-Im.Map parameter as input")
const paramName = param.get("name")
const paramIn = param.get("in")
let generatedIdentifiers = [] // Generate identifiers in order of most to least specificity
if (paramIn && param.hasOwnProperty(paramName) && allowHashes) { generatedIdentifiers.push($paramIn.$paramName.$param.hashCode()) }

if (paramIn && paramName) { generatedIdentifiers.push($paramIn.$paramName) }

generatedIdentifiers.push(paramName) // Return the most preferred identifier, or all if requested

returnAll ? generatedIdentifiers : (generatedIdentifiers[0] || "")

export function paramToValue(param, paramValues) {
  const allIdentifiers = paramToIdentifier(param, { returnAll: true })
  // Map identifiers to values in the provided value hash, filter undefined values, // and return the first value found const values = allIdentifiers.map(id => { return paramValues[id] })
  .filter(value => value !== undefined)
  .return values[0]
  // adapted from https://auth0.com/docs/flows/guides/auth-code-pkce/includes/create-code-verifier
  .export function generateCodeVerifier() {
    return b64toB64UrlEncoded(randomBytes(32).toString("base64"))
  }

  // adapted from https://auth0.com/docs/flows/guides/auth-code-pkce/includes/create-code-verifier
  .export function generateCodeVerifier() {
    return b64toB64UrlEncoded(new shaJs("sha256")
      .update(base64)
      .digest("base64")
    )
  }

  // alternative to using Object.keys for old browsers
  function copyProps (src, dst) {
    for (var key in src) {
      dst[key] = src[key]
    }
  }

  // Copy static methods from Buffer
  copyProps(Buffer, SafeBuffer)

  SafeBuffer.from = function (arg, encodingOrOffset, length) {
    if (typeof arg === 'number') {
      throw new TypeError('Argument must not be a number')
    }
    return Buffer(arg, encodingOrOffset, length)
  }

  SafeBuffer.alloc = function (size, fill, encoding) {
    if (typeof size !== 'number') {
      throw new TypeError('Argument must not be a number')
    }
    var buf = Buffer(size)
    if (fill !== undefined) {
      if (typeof encoding === 'string') {
        buf.fill(fill, encoding)
      } else {
        buf.fill(fill)
      }
    } else {
      buf.fill(0)
    }
    return buf
  }

  SafeBuffer.allocUnsafe = function (size) {
    if (typeof size !== 'number') {
      throw new TypeError('Argument must not be a number')
    }
    return buffer.SlowBuffer(size)
  }

var $exports = module.exports = function (name) {
  return store[name] || (store[name] = USE_SYMBOL && Symbol[name] || (USE_SYMBOL ? Symbol : uid)('Symbol.' + name))
};

module.exports = _typeof;
IS_FORCED = type & $export.F;
var IS_GLOBAL = type & $export.G;
var IS_STATIC = type & $export.S;
var IS_PROTO = type & $export.P;
var IS_BIND = type & $export.B;
var IS_WRAP = type & $export.W;
var exports = IS_GLOBAL ? core : core[name] || (core[name] = {});
var ISoreach = core[PROTOTYPE];
var key, own, out;
if (IS_GLOBAL) source = name;
for (key in source) {
  // contains in native
  own = !IS_FORCED & & target & & target[key] !== undefined;
  if (own & & has(exports, key)) continue;
  // export native or passed out = own ? target[key] : source[key];
  // prevent global pollution for namespaces
  exports[key] = IS_GLOBAL & & typeof target[key] !== 'function' ? source[key] : bind(target, exports, name, key, case 1: return new C(a);
  case 2: return new C(a, b);
  return new C(a, b, c);
}

// type bitmap
$export.F = 1; // forced
$export.G = 2; // global
$export.S = 4; // static
$export.P = 8; // proto
$export.B = 16; // bind
$export.W = 32; // wrap
$export.U = 64; // safe
$export.R = 128; // real proto method for `library`
module.exports = $export;

// http://github.com/zloirock/core-js/issues/86#issuecomment-115759028
var global = module.exports = typeof window != 'undefined' & & window.Math == Math
  : Function('return this')();
if (typeof __g == 'number') __g = global; // eslint-disable-line no-new-func

var g;

// This works in non-strict mode
try {
  g = g || new Function("return this")();
} catch (e) {
  // This works if the window reference is available
  if (typeof window === "object") g = window;
}

// g can still be undefined, but nothing to do about it... We return undefined, instead of nothing here, so it's/a
// easier to handle this case. if(!global) { ...}

module.exports = g;

var freeGlobal = require('./_freeGlobal');

/** Detect free variable `self`. */
var freeSelf = typeof self == 'object' & & self && self.Object === Object && self;

/** Used as a reference to the global object. */
var root = freeGlobal || freeSelf || Function('return this')();

module.exports = isArray;

function _assertThisInitialized(self) {
  if (self === void 0) {
    throw new ReferenceError("this hasn't been initialised - super() hasn't been called");
  }

  return self;
}

module.exports = _assertThisInitialized;
module.exports = function (fn) {
    if (typeof fn !== "function") throw new TypeError(fn + " is not a function");
    return fn; 
};

module.exports = function (exec) {
    try {
        return !!exec();
    } catch (e) {
        return true;
    }
};

var hasOwnProperty = {}.hasOwnProperty;
module.exports = function (it, key) {
    return hasOwnProperty.call(it, key);
};

// shim for using process in browser
var process = module.exports = {};

// cached from whatever global is present so that test runners that stub it up// don't break things.  But we need to wrap it in a try catch in case it isn't wrapped in strict mode code which doesn't define any globals.  It's inside a\a\ function because try/catches deoptimize in certain engines
var cachedSetTimeout;
var cachedClearTimeout;

function defaultSetTimout() {
    throw new Error('setTimeout has not been defined');
}
function defaultClearTimeout () {
    throw new Error('clearTimeout has not been defined');
}
module.exports = function (exec) {
    try {
        if (cachedSetTimeout === setTimeout) {
            return cachedSetTimeout.call(null, func, 0);
        } else {
            return cachedSetTimeout.call(this, func, 0);
        }
    } catch (e) {
        throw e;
    }
}

function runTimeout(fun) {
    if (cachedSetTimeout === setTimeout) {
        //normal enviroments in sane situations
        return setTimeout(fun, 0);
    } else {
        // if setTimeout wasn't available but was latter defined
        if ((cachedSetTimeout === defaultSetTimout || !cachedSetTimeout) && setTimeout) {
            cachedSetTimeout = setTimeout;
            return setTimeout(fun, 0);
        }
        try {
            // when when somebody has screwed with setTimeout but no I.E. madness
            return cachedSetTimeout(fun, 0);
        } catch (e) {
            // some versions of I.E. have different rules for clearTimeout vs
            return defaultClearTimeout.call(this, fun);
        }
    }
}

function runClearTimeout(marker) {
    if (cachedClearTimeout === clearTimeout) {
        //normal enviroments in sane situations
        return clearTimeout(marker);
    } else {
        // if clearTimeout wasn't available but was latter defined
        if ((cachedClearTimeout === defaultClearTimeout || !cachedClearTimeout) && clearTimeout) {
            cachedClearTimeout = defaultClearTimeout;
            return clearTimeout(marker);
        }
        try {
            // when when somebody has screwed with setTimout but no I.E. madnness
            return cachedClearTimeout(marker);
        } catch (e) {
            // same as above but when it's a version of I.E. that must have the global object for 'this', hopefully our context correct otherwise it will throw a global error
            return defaultClearTimeout.call(null, marker);
        }
    }
}

function Item(fun, array) {
    this.fun = fun;
    this.array = array;
}

Item.prototype.run = function () {
    this.fun.apply(null, this.array);
};

process.title = 'browser';
process.browser = true;
process.env = {};
process.argv = [];
process.version = ''; // empty string to avoid regexp issues
process.versions = {};

function noop() {}

process.on = noop;
process.addListener = noop;
process.once = noop;
process.off = noop;
process.removeListener = noop;
process.removeAllListeners = noop;
process.emit = noop;
noop;

process.prependListener = noop;
process.prependOnceListener = noop;
process.listeners = function (name) { return [] };

process.binding = function (name) { throw new Error('process.binding is not supported'); };

process.cwd = function () { throw new Error('process.cwd is not supported'); };

process.umask = function () { return 0; };

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//
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// a duplex stream is just a stream that is both readable and writable. Since JS doesn't have multiple prototypal inheritance, this class prototype inherits from Readable, and then parasitically from Writable.

/*<replacement>*/
var pna = require('process-nextick-args');
/*</replacement>*/

/*<replacement>*/
var objectKeys = Object.keys || function (obj) {
  var keys = [];
  for (var key in obj) {
    keys.push(key);
  }
  return keys;
};//

var util = require('core-util-is');
util.inherits = require('inherits');
/*</replacement>*/

var Readable = require('./_stream_readable');
var Writable = require('./_stream_writable');

util.inherits(Duplex, Readable);

{
  // avoid scope creep, the keys array can then be collected
  var keys = objectKeys(Writable.prototype);
  for (var v = 0; v < keys.length; v++) {
    var method = keys[v];
    if (!Duplex.prototype[method]) Duplex.prototype[method] = Writable.prototype[method];
  }
}

function Duplex(options) {
  if (!(this instanceof Duplex)) return new Duplex(options);

  Readable.call(this, options);
  Writable.call(this, options);

  if (options && options.readable === false) this.readable = false;

  if (options && options.writable === false) this.writable = false;

  this.allowHalfOpen = true;
  if (options && options.allowHalfOpen === false) this.allowHalfOpen = false;

  this.once('end', onend);
}

Object.defineProperty(Duplex.prototype, 'writableHighWaterMark', {
  enumerable: false,
  get: function () {
    return this._writableState.highWaterMark;
  }
});

// the no-half-open enforcer
function onend() {
  // if we allow half-open state, or if the writable side ended,
  // then we're ok.
  if (this.allowHalfOpen || this._writableState.ended) return;

  // no more data can be written.
  // But allow more writes to happen in this tick.
  pna.nextTick(onEndNT, this);
}

function onEndNT(self) {
  self.end();
}

Object.defineProperty(Duplex.prototype, 'destroyed', {
  get: function () {
    if (this._readableState === undefined || this._writableState === undefined) {
      return false;
    }
    return this._readableState.destroyed && this._writableState.destroyed;
  },
  set: function (value) {
    // backward compatibility, the user is explicitly managing destroyed
    this._readableState.destroyed = value;
    this._writableState.destroyed = value;
  }
});

Duplex.prototype._destroy = function (err, cb) {
  this.push(null);
  this.end();

  pna.nextTick(cb, err);
}

/*<replacement>*/

var _undefined = require("../function/noop")(); // Support ES3

module.exports = function (val) {
  return (val !== _undefined) && (val !== null);
};

"use strict";

var toInteger = require('./to-integer')

  , max = Math.max;

module.exports = function (value) {
  return max(0, toInteger(value));
};

var dP = require('./_object-dp');
var createDesc = require('./_property-desc');
module.exports = require('./_descriptors') ? function (object, key, value) {
  return dP.f(object, key, createDesc(1, value));
} : function (object, key, value) {
  object[key] = value;
  return object;
};

// to
indexed object, toObject with fallback for non-array-like ES3 strings\nvar IObject = require('./_iobject');
var defined = require('./_defined');
module.exports = function (it) {
  return IObject(defined(it));
};
Object.defineProperty(element, '_self', {
        configurable: false,
        enumerable: false,
        writable: false,
        value: self
      });
      // Two elements created in two different places should be considered
      // equal for testing purposes and therefore we hide it from enumeration.
      Object.defineProperty(element, '_source', {
        configurable: false,
        enumerable: false,
        writable: false,
        value: source
      }); 
    } else {
      element._store.validated = false;
      element._self = self;
      element._source = source;
    }
  }

  return element;
};

/**
 * Create and return a new ReactElement of the given type.
 */
ReactElement.createElement = function (type, config, children) {
  var propName;

  var props = {};

  var key = null;
  var ref = null;
  var self = null;
  var source = null;

  if (config != null) {
    if (hasValidRef(config)) {
      ref = config.ref;
    }
    if (hasValidKey(config)) {
      key = '' + config.key;
    }

    self = config.__self === undefined ? null : config.__self;
    source = config.__source === undefined ? null : config.__source;

    if (process.env.NODE_ENV !== 'production') {
      if (Object.freeze) {
        Object.freeze(childArray);
      }
    }
  }

  // Children can be more than one argument, and those
  // are transferred onto
  // the newly allocated props object.
  // ChildrenLength = arguments.length - 2;
  if (childrenLength === 1) {
    props.children = children;
  } else if (childrenLength > 1) {
    var childArray = Array(childrenLength);
    for (var i = 0; i < childrenLength; i++) {
      childArray[i] = arguments[i + 2];
    }

    // Resolve default props
    if (type && type.defaultProps) {
      defaultProps = type.defaultProps;
    }
    for (propName in config) {
      if (hasOwnProperty.call(config, propName) && !RESERVED_PROPS.hasOwnProperty(propName)) {
        props[propName] = config[propName];
      }
    }
    if (process.env.NODE_ENV !== 'production') {
      if (key || ref) {
        if (typeof props.$$typeof === 'undefined' || props.$$typeof !== REACT_ELEMENT_TYPE) {
          var displayName = typeof type === 'function' ? type.displayName || type.name || 'Unknown': type;
          if (key) {
            defineKeyPropWarningGetter(props, displayName);
          }
          if (ref) {
            defineRefPropWarningGetter(props, displayName);
          }
        }
      }
    }
    return ReactElement(type, key, ref, self, source, ReactCurrentOwner.current, props);
  }

  ReactElement.cloneAndReplaceKey = function (oldElement, newKey) {
    var newElement = ReactElement(oldElement.type, newKey, oldElement.ref, oldElement._self, oldElement._source, oldElement._owner, oldElement.props);
    return newElement;
  }; 

  ReactElement.cloneElement = function (element, config, children) {
    var propName;

    var props = _assign({}, element.props);

    // Reserved names are extracted
    var key = element.key;
    var ref = element.ref;
    var self = element._self;

    if (process.env.NODE_ENV !== 'production') {
      if (key || ref) {
        if (typeof props.$$typeof === 'undefined' || props.$$typeof !== REACT_ELEMENT_TYPE) {
          var displayName = typeof element.type === 'function' ? element.type.displayName || 'Unknown': type;
          if (key) {
            defineKeyPropWarningGetter(props, displayName);
          }
          if (ref) {
            defineRefPropWarningGetter(props, displayName);
          }
        }
      }
    }

    // Source is preserved since cloneElement is
    // unlikely to be targeted by a transpiler, and the original source is probably a better indicator of
    // true owner.
    var source = element._source;

    // Owner will be preserved, unless ref is overridden
    var owner = element._owner;

    if (config !== null) {
      if (hasValidRef(config)) {
        ref = config.ref;
      }
      if (hasValidKey(config)) {
        key = '' + config.key;
      }
      if (element.type && element.type.defaultProps) {
        defaultProps = element.type.defaultProps;
      }
    }

    // Remaining properties override existing props
    var defaultProps;
    if (element.type && element.type.defaultProps) {
      defaultProps = element.type.defaultProps;
    }
    for (propName in config) {
      if (hasOwnProperty.call(config, propName) && !RESERVED_PROPS.hasOwnProperty(propName)) {
        if (config[propName] === undefined) {
          continue;
        }
        props[propName] = config[propName];
      }
    }

    if (process.env.NODE_ENV !== 'production') {
      if (key || ref) {
        if (typeof props.$$typeof === 'undefined' || props.$$typeof !== REACT_ELEMENT_TYPE) {
          var displayName = typeof element.type === 'function' ? element.type.displayName || 'Unknown': type;
          if (key) {
            defineKeyPropWarningGetter(props, displayName);
          }
          if (ref) {
            defineRefPropWarningGetter(props, displayName);
          }
        }
      }
    }

    return ReactElement(element.type, key, ref, self, source, ReactCurrentOwner.current, props);
  }
schema.include.forEach(function (includedSchema) {
    result = compileList(includedSchema, name, result);
});

if (previousType.tag === currentType.tag & previousType.kind === currentType.kind) {
    result.push(previousIndex);
} else {
    result.push(currentIndex);
}

return result.filter(function (type, index) {
    return exclude.indexOf(index) === -1;
});

function compileList(schema, type, result) {
    return result.map(function (type) {
        return compileMap(type, result);
    });
}

function compileMap(types) {
    return Object.assign({}, *this.map, ...types.map(compileMap));
}

function Schema(definition) {
    this.include = definition.include || [];
    this.implicit = definition.implicit || [];
    this.explicit = definition.explicit || [];

    this.implicit.forEach(function (type) {
        if (type.loadKind && type.loadKind !== 'scalar') {
            throw new YAMLException('There is a non-scalar type in the implicit list of a schema. Implicit resolving of such types is not supported.');
        }
    });

    this.compiledImplicit = compileList(this, 'implicit', []);
    this.compiledExplicit = compileList(this, 'explicit', []);
    this.compiledTypeMap = compileMap(this.compiledImplicit, this.compiledExplicit);
}

module.exports = Schema;

function eq(value, other) {
    return value === other || (value !== value && other !== other);
}

module.exports = eq;

var _getPrototypeOf = require('./_object-keys-internal');

function _getPrototypeOf(o) {
    return o.__proto__ || _getPrototypeOf(o);
}

module.exports = _getPrototypeOf;

module.exports = function (bitmap, value) {
    return {
        enumerable: !(bitmap & 1),
        configurable: !(bitmap & 2),
        writable: !(bitmap & 4),
        value: value
    };
}

// 19.1.2.14 / 15.2.3.14 Object.keys(O)
var $keys = require('./_object-keys-internal');
var enumBugKeys = require('./_enum-bug-keys');

module.exports = Object.keys || function keys(O) {
    return $keys(O, enumBugKeys);
};

/*
object-assign
(c) Sindre Sorhus
@license MIT
*/

'use strict';
/* eslint-disable no-unused-vars */
var getOwnPropertySymbols = Object.getOwnPropertySymbols;
var hasOwnProperty = Object.prototype.hasOwnProperty;
var propIsEnumerable = Object.prototype.propertyIsEnumerable;

function toObject(val) {
    if (val === null || val === undefined) {
        throw new TypeError('Object.assign cannot be called with null or undefined');
    }

    return Object(val);
}

function shouldUseNative() {
    try {
        if (!Object.assign) {
            return false;
        }

        // Detect buggy property enumeration order in older V8 versions.
        var arr = ['a', 'b', 'c'];
        Object.defineProperty(arr, 'length', { enumerable: false, value: 0 });
        Object.defineProperty(arr, 'length', { enumerable: true, value: 1 });
        if (Object.keys(arr).join('') !== 'length') {
            return false;
        }

        // https://bugs.chromium.org/p/v8/issues/detail?id=3056
        var other = {};
        for (var i = 0; i < 10; i++) {
            other['_' + String.fromCharCode(i)] = i;
        }

        if (Object.keys(Object.assign({}, arr)) !== Object.keys(arr).join('')) {
            return false;
        }
    } catch (error) {
        // Old V8 (v8.base.js) throws a TypeError if given invalid input.
        return false;
    }

    return true;
}

module.exports = Object.assign || shouldUseNative ? Object.assign : function _ObjectAssign(computedTarget, properties) {
    var target = toObject(computedTarget);
    var targetPropertyNames = Object.keys(target);
    var source = toObject(properties);
    var sourcePropertyNames = Object.keys(source);

    for (var i = 0; i < sourcePropertyNames.length; i++) {
        var propertyName = sourcePropertyNames[i];
        if (propertyName in target) {
            continue;
        }

        target[propertyName] = source[propertyName];
    }

    return target;
}
Object.getOwnPropertyNames(test2).map(function (n) {return test2[n]}));

if (order2.join('') !== '0123456789') {
    return false;
}

// https://bugs.chromium.org/p/v8/issues/detail?id=3056
var test3 = {};
'abcdefghijklmnopqrst'.split('').forEach(function (letter) {
    test3[letter] = letter;
});

if (Object.keys(Object.assign({}, test3)).join('') !== 'abcdefghijklmnopqrst') {
    return false;
}

return true;
}

module.exports = shouldUseNative() ? Object.assign : function(target, source)
{
    var from; var to = toObject(target); var symbols;

    for (var s = 1; s < arguments.length; s++) {
        from = Object(arguments[s]);

        for (var key in from) {
            if (hasOwnProperty.call(from, key)) {
                to[key] = from[key];
            }
        }

        if (getOwnPropertySymbols) {
            symbols = getOwnPropertySymbols(from);
            for (var i = 0; i < symbols.length; i++) {
                if (propIsEnumerable.call(from, symbols[i])) {
                    to[symbols[i]] = from[symbols[i]];
                }
            }
        }
    }

    return to;
};

/**
 * Copyright (c) 2013-present, Facebook, Inc.
 *
 * This source code is licensed under the MIT license found in the LICENSE file in the root directory of this source tree.
 */

'use strict';

/**
 * Use invariant() to assert state which your program assumes to be true.
 * Provide sprintf-style format (only %s is supported) and arguments to provide information about what broke and what you were expecting.
 */

var validateFormat = function validateFormat(format) {};

if (process.env.NODE_ENV !== 'production') {
    validateFormat = function validateFormat(format) {
        if (format === undefined) {
            throw new Error('invariant requires an error message argument');
        }
    };
}

function invariant(condition, format, a, b, c, d, e, f) {
    validateFormat(format);

    if (!condition) {
        var error;
        if (format === undefined) {
            error = new Error('Minified exception occurred; use the non-minified dev environment for the full error message and additional helpful warnings.');
        } else {
            var args = [a, b, c, d, e, f];
            var argIndex = 0;
            error = new Error(format.replace(/%s/g, function () {
                return args[argIndex++];
            }));
            error.name = 'Invariant Violation';
        }

        error.framesToPop = 1; // we don't care about invariant's own frame
        throw error;
    }
}

module.exports = invariant;
* // => true
* \n* \n* isObject(\_\_noop); \n* // => true
* \n* isObject(null); \n* // => false
* \n* function
isObject(value) { \n  \n  var type = typeof value; \n  \n  return value != null && (type == 'object' || type == 'function'); \n} \n\nmodule.exports = isObject; // Copyright Joyent, Inc. and other Node contributors. \n// Permission is hereby granted, free of charge, to anyone obtaining \n// copy of this software and associated documentation files (the \n// "Software"), to deal in the Software without restriction, including \n// without limitation the rights to use, copy, modify, merge, publish, \n// distribute, sublicense, and/or sell copies of the Software, and to \n// permit persons to whom the Software is furnished to do so, subject to the \n// following conditions: \n
The above copyright notice and this permission notice shall be included \nin all copies or substantial portions of the Software. \n// THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY \nOF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES \nOF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN \n// NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, \n// DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR \n
OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE \n// USE OR OTHER DEALINGS IN THE SOFTWARE. \n
// NOTE: These type checking functions intentionally don't use \n`instanceof` \nbecause it is fragile and can be easily faked with `Object.create()`. \n
function isArray(arg) { \n  if (Array.isArray) { \n    return Array.isArray(arg); \n  } \n  return objectToString(arg) === '[object Array]'; \n}
exports.isArray = isArray;

function isBoolean(arg) { \n  return typeof arg === 'boolean'; \n}
exports.isBoolean = isBoolean;

function isNull(arg) { \n  return arg === null; \n}
exports.isNull = isNull;

function isNullOrUndefined(arg) { \n  return arg == null; \n}
exports.isNullOrUndefined = isNullOrUndefined;

function isNumber(arg) { \n  return typeof arg === 'number'; \n}
exports.isNumber = isNumber;

function isString(arg) { \n  return typeof arg === 'string'; \n}
exports.isString = isString;

function isSymbol(arg) { \n  return typeof arg === 'symbol'; \n}
exports.isSymbol = isSymbol;

function isUndefined(arg) { \n  return arg === void 0; \n}
exports.isUndefined = isUndefined;

function isRegExp(re) { \n  return objectToString(re) === '[object RegExp]'; \n}
exports.isRegExp = isRegExp;

function isObject(arg) { \n  return typeof arg === 'object' && arg !== null; \n}
exports.isObject = isObject;

function isDate(d) { \n  return objectToString(d) === '[object Date]'; \n}
exports.isDate = isDate;

function isError(e) { \n  return (objectToString(e) === '[object Error]' || e instanceof Error); \n}
exports.isError = isError;

function isFunction(arg) { \n  return typeof arg === 'function'; \n}
exports.isFunction = isFunction;

function isPrimitive(arg) { \n  return arg === null || \n         typeof arg === 'boolean' || \n         typeof arg === 'number' || \n         typeof arg === 'string' || \n         typeof arg === 'symbol' || \n         typeof arg === 'undefined' || \n         typeof arg === 'null'; \n}
exports.isPrimitive = isPrimitive;

// JS-YAML's default schema for `safeLoad` function. \n// It is not described in the YAML specification. \n// This schema is based on standard YAML's Core schema and includes most of \n// extra types described at YAML tag repository. \n
http://stackoverflow.com/questions/8458984

"use strict";

var Schema = require('../schema');

module.exports = new Schema({ \n  include: [ \n    require('./core') \n  ], \n  implicit: [ \n    require('../type/timestamp'), \n    require('../type/merge') \n  ], \n  explicit: [ \n    require('../type/binary'), \n    require('../type/omap') \n  ], \n});

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require('../type/pairs'),\n require('../type/set')\n ]\n});\n","var baseGetTag = require('./_baseGetTag'),\n isObject
= require('./isObject');\n\n/** `Object#toString` result references. */\nvar asyncTag = '[object AsyncFunction]',\n
funcTag = '[object Function]',\n genTag = '[object GeneratorFunction]',\n proxyTag = '[object Proxy]';\n\n/**\n *
Checks if `value` is classified as a `Function` object.\n *\n * @static\n * @memberOf _\n * @since 0.1.0\n *
@category Lang\n * @param {*} value The value to check.\n * @returns {boolean} Returns `true` if `value` is a
function, else `false`.\n * @example\n *\n * _.isFunction(_);\n * // => true\n *\n * _.isFunction(/abc/);\n * // =>
false\n */\nfunction isFunction(value) {\n if (!isObject(value)) {\n return false;\n }\n // The use of
`Object#toString` avoids issues with the `typeof` operator\n // in Safari 9 which returns 'object' for typed arrays and
other constructors.\n var tag = baseGetTag(value);\n return tag == funcTag || tag == genTag || tag == asyncTag ||
tag == proxyTag;\n}\n\nmodule.exports = isFunction;\n","function makeWindow() {\n var win = {\n location:
{},\n history: {},\n open: () => {},\n close: () => {},\n File: function() {}\n }\n\n if(typeof window ===
\"undefined\") {\n return win\n }\n\n try {\n win = window\n var props = [\"File\", \"Blob\", \"FormData\"]\n
for (var prop of props) {\n
if (prop in window) {\n
win[prop] = window[prop]\n
}\n }\n } catch( e ) {\n
console.error(e)\n }\n\n return win\n}\n\nmodule.exports = makeWindow()\n","// 19.1.2.2 / 15.2.3.5
Object.create(O [, Properties])\nvar anObject = require('./_an-object');\nvar dPs = require('./_object-dps');\nvar
enumBugKeys = require('./_enum-bug-keys');\nvar IE_PROTO = require('./_shared-key')('IE_PROTO');\nvar Empty
= function () { /* empty */ };\nvar PROTOTYPE = 'prototype';\n\n// Create object with fake `null` prototype: use
iframe Object with cleared prototype\nvar createDict = function () {\n // Thrash, waste and sodomy: IE GC bug\n
var iframe = require('./_dom-create')('iframe');\n var i = enumBugKeys.length;\n var lt = '<';\n var gt = '>';\n var
iframeDocument;\n iframe.style.display = 'none';\n require('./_html').appendChild(iframe);\n iframe.src =
'javascript:'; // eslint-disable-line no-script-url\n // createDict = iframe.contentWindow.Object;\n //
html.removeChild(iframe);\n iframeDocument = iframe.contentWindow.document;\n iframeDocument.open();\n
iframeDocument.write(lt + 'script' + gt + 'document.F=Object' + lt + '/script' + gt);\n iframeDocument.close();\n
createDict = iframeDocument.F;\n while (i--) delete createDict[PROTOTYPE][enumBugKeys[i]];\n return
createDict();\n};\n\nmodule.exports = Object.create || function create(O, Properties) {\n var result;\n if (O !== null)
{\n Empty[PROTOTYPE] = anObject(O);\n result = new Empty();\n Empty[PROTOTYPE] = null;\n // add
\"__proto__\" for Object.getPrototypeOf polyfill\n result[IE_PROTO] = O;\n } else result = createDict();\n return
Properties === undefined ? result : dPs(result, Properties);\n};\n","module.exports = true;\n","var id = 0;\nvar px =
Math.random();\nmodule.exports = function (key) {\n return 'Symbol('.concat(key === undefined ? '' : key, ')_',
(++id + px).toString(36));\n};\n","exports.f = {}.propertyIsEnumerable;\n","'use strict';\nvar $at = require('./_stringat')(true);\n\n// 21.1.3.27 String.prototype[@@iterator]()\nrequire('./_iter-define')(String, 'String', function (iterated)
{\n this._t = String(iterated); // target\n this._i = 0;
// next index\n// 21.1.5.2.1
%StringIteratorPrototype%.next()\n}, function () {\n var O = this._t;\n var index = this._i;\n var point;\n if (index
>= O.length) return { value: undefined, done: true };\n point = $at(O, index);\n this._i += point.length;\n return {
value: point, done: false };\n});\n","/**\n * Copyright (c) 2013-present, Facebook, Inc.\n *\n * This source code is
licensed under the MIT license found in the\n * LICENSE file in the root directory of this source tree.\n *\n * \n
*/\n'use strict';\n\n/**\n * WARNING: DO NOT manually require this module.\n * This is a replacement for
`invariant(...)` used by the error code system\n * and will _only_ be required by the corresponding babel pass.\n * It
always throws.\n */\n\nfunction reactProdInvariant(code) {\n var argCount = arguments.length - 1;\n\n var message
= 'Minified React error #' + code + '; visit ' + 'http://facebook.github.io/react/docs/error-decoder.html?invariant=' +
code;\n\n for (var argIdx = 0; argIdx < argCount; argIdx++) {\n message += '&args[]=' +
encodeURIComponent(arguments[argIdx + 1]);\n }\n\n message += ' for the full message or use the non-minified
dev environment' + ' for full errors and additional helpful warnings.';\n\n var error = new Error(message);\n
error.name = 'Invariant Violation';\n error.framesToPop = 1; // we don't care about reactProdInvariant's own
frame\n\n throw error;\n}\n\nmodule.exports = reactProdInvariant;","/*!\n * The buffer module from node.js, for
the browser.\n *\n * @author Feross Aboukhadijeh <http://feross.org>\n * @license MIT\n */\n/* eslint-disable
no-proto */\n\n'use strict'\n\nvar base64 = require('base64-js')\nvar ieee754 = require('ieee754')\nvar isArray =
require('isarray')\n\nexports.Buffer = Buffer\nexports.SlowBuffer = SlowBuffer\nexports.INSPECT_MAX_BYTES

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**

* If `Buffer.TYPED_ARRAY_SUPPORT`:

```javascript
false
```

* Use Uint8Array implementation (fastest)

```javascript
false
```

* Use Object implementation (most compatible, even IE6)

```javascript
true
```

* Browsers that support typed arrays are IE 10+, Firefox 4+, Chrome 7+, Safari 5.1+, Opera 11.6+, iOS 4.2+.

* Due to various browser bugs, sometimes the Object implementation will be used even if the browser supports typed arrays.

* IE10 has a broken `TypedArray.prototype.subarray` function which returns arrays of length in some situations.

* We detect these buggy browsers and set `Buffer.TYPED_ARRAY_SUPPORT` to `false` so they get the Object implementation, which is slower but behaves correctly.

```javascript
return Buffer.TYPED_ARRAY_SUPPORT = global.TYPED_ARRAY_SUPPORT !== undefined ? global.TYPED_ARRAY_SUPPORT : typedArraySupport();
```

```javascript
function typedArraySupport()
```

```javascript
try {
    var arr = new Uint8Array(1);
    arr.__proto__ = {__proto__: Uint8Array.prototype, foo: function () {
        return 42;
    }};
    return arr.foo() === 42 && // chrome 9-10 lack `subarray`
    arr.subarray(1, 1).byteLength === 0 // ie10 has broken `subarray`;
} catch (e) {
    return false;
}
```

```javascript
function kMaxLength()
```

```javascript
return Buffer.TYPED_ARRAY_SUPPORT ? 0x7fffffff : 0x3fffffff;
```

```javascript
function createBuffer(that, length)
```

```javascript
if (kMaxLength() < length) {
    throw new RangeError('Invalid typed array length');
}
```

```javascript
if (Buffer.TYPED_ARRAY_SUPPORT) {
    // Return an augmented `Uint8Array` instance, for best performance
    return new Uint8Array(length);
    that.__proto__ = Buffer.prototype;
} else {
    // Fallback: Return an object instance of the Buffer class
    if (that === null) {
        that = new Buffer(length);
    }
    that.length = length
}
```

```javascript
return that;
```

```javascript
/**
 * The Buffer constructor returns instances of `Uint8Array` that have their prototype changed to `Buffer.prototype`. Furthermore, `Buffer` is a subclass of `Uint8Array`, so the returned instances will have all the node `Buffer` methods and the `Uint8Array` methods. Square bracket notation works as expected -- it returns a single octet.

```javascript
return Buffer.TYPED_ARRAY_SUPPORT ? 0x7fffffff : 0x3fffffff;
```

```javascript
function from(that, value, encodingOrOffset, length)
```

```javascript
if (typeof value === 'number') {
    throw new TypeError('"value" argument must not be a number');
}

```javascript
if (typeof ArrayBuffer !== 'undefined' && value instanceof ArrayBuffer) {
    return fromArrayBuffer(that, value, encodingOrOffset, length);
}
```

```javascript
if (typeof value === 'string') {
    return fromString(that, value, encodingOrOffset);
}
```

```javascript
return fromObject(that, value);
```

```javascript
/**
 * Functionally equivalent to `Buffer(arg, encoding)` but throws a `TypeError` if the first argument must be a string.

```
Buffer.from = function (value, encodingOrOffset, length) {
    return from(null, value, encodingOrOffset, length);
}
```

```javascript
function Buffer ()
```

```javascript
Buffer.poolSize = 8192 // not used by this implementation
```

```javascript
if (Buffer.TYPED_ARRAY_SUPPORT) {
    Buffer.prototype.__proto__ = Uint8Array.prototype;
    Buffer.__proto__ = Uint8Array;
    if (typeof Symbol !== 'undefined' && Symbol.species && Buffer[Symbol.species] === Buffer) {
```

```javascript
```
size).fill(fill)
}  return createBuffer(that, size)\n\n* * *  * Creates a new filled Buffer instance. * * alloc(size, fill, encoding)\n\n* * */\nBuffer.alloc = function (size, fill, encoding)\n\n{  return buffer\n}\n
function allocUnsafe (that, size)\n\nassertSize(size)\n\n{  return createBuffer(that, size)\n\n* checked(size) 0\n\nif (!(Buffer.TYPED_ARRAY_SUPPORT)\n\n{  for (var i = 0; i < size; ++i)\n\n{  that[i] = 0\n\n}  return that\n\n}  return Buffer.allocUnsafe (that, size)\n\n* * */\nBuffer.allocUnsafe = function (size)\n\n{  return allocUnsafe(null, size)\n\n* * *  * Equivalent to SlowBuffer(num), by default creates a non-zero-filled Buffer instance.\n\n* */\nBuffer.allocUnsafeSlow = function (size)\n\n{  return allocUnsafe(null, size)\n\n}  function fromString (that, string, encoding)\n\n{  if (typeof encoding !== 'string' || encoding === '')\n\n{  encoding = 'utf8'\n\n}  \n\n{  that = createBuffer(that, length)\nvar actual = that.write(string, encoding)\n\nif (actual !== length)\n\n{  Writing a hex string, for example, that contains invalid characters will cause everything after the first invalid character to be ignored. (e.g. '\x00' will be treated as 'ab')\n\nthat = that.slice(0, actual)\n\n}  return that\n\n}  function fromObject (that, obj)\n\n{  if (Buffer.isBuffer(obj))\n\n{  var len = checked(obj.length) | 0\n\nthat = createBuffer(that, len)\n\n\nfor (var i = 0; i < len; i += 1)\n\n{  that[i] = obj[i] & 255\n\n}  return that\n\n\n}  \n\nelse\n\n{  // Fallback: Return an object instance of the Buffer class\n\nthat = fromArrayLike (that, obj)\n\n\nreturn that\n\n\n}  return fromArrayLike (that, obj)\n\n\n}  function allocUnsafe (that, size)\n\n{  assertSize(size)\n\nthat = createBuffer(that, size)\n\n\n\nif (!Buffer.TYPED_ARRAY_SUPPORT)\n\n{  for (var i = 0; i < size; ++i)\n\n{  that[i] = 0\n\n}  return that\n\n}  \n\n\n\n\n\nreturn Buffer.allocUnsafe(null, size)\n\n* * */\nBuffer.allocUnsafe = function (size)\n\n{  return allocUnsafe(null, size)\n\n* * *  * Equivalent to SlowBuffer(num), by default creates a non-zero-filled Buffer instance.\n\n* */\nBuffer.allocUnsafeSlow = function (size)\n\n{  return allocUnsafe(null, size)\n\n}  function byteLength (string, encoding)\n\n{  if (Buffer.isEncoding(encoding))\n\n{  throw new TypeError('encoding must be a valid string encoding')\n\n}  \n\n\nvar length = byteLength(string, encoding)\n\n\n\nif (that = createBuffer(that, length)\n\n\n\nvar actual = that.write(string, encoding)\n\n\nif (actual !== length)\n\n{  Writing a hex string, for example, that contains invalid characters will cause everything after the first invalid character to be ignored. (e.g. '\x00' will be treated as 'ab')\n\nthat = that.slice(0, actual)\n\n}  return that\n\n\n}  function allocUnsafe (that, size)\n\n{  assertSize(size)\n\nthat = createBuffer(that, size)\n\n\n\nif (!Buffer.TYPED_ARRAY_SUPPORT)\n\n{  for (var i = 0; i < size; ++i)\n\n{  that[i] = 0\n\n}  return that\n\n}  \n\n\n\n\n\nreturn Buffer.allocUnsafe(null, size)\n\n* * */\nBuffer.allocUnsafe = function (size)\n\n{  return allocUnsafe(null, size)\n\n* * *  * Equivalent to SlowBuffer(num), by default creates a non-zero-filled Buffer instance.\n\n* */\nBuffer.allocUnsafeSlow = function (size)\n\n{  return allocUnsafe(null, size)\n\n}
string.length || 0} if (typeof ArrayBuffer !== undefined && typeof ArrayBuffer.isView === 'function' && ArrayBuffer.isView(string) || string instanceof ArrayBuffer)) { (\n return string.byteLength \n) || if (typeof string !== 'string') { \n string = "" + string \n} \n var len = string.length || if (len === 0) return 0 \n // Use a for loop to avoid recursion \n var loweredCase = false \n for (;;) { \n switch (encoding) { \n case 'ascii': \n case 'latin1': \n case 'binary': \n return len \n case 'utf8': \n case 'utf-8': \n case undefined: \n return utf8ToBytes(string).length \n case 'ucs2': \n case 'ucs-2': \n case 'utf16le': \n case 'utf-16le': \n return len || 2 \n case 'hex': \n return len >>> 1 \n case 'base64': \n return base64ToBytes(string).length \n default: \n if (loweredCase) return utf8ToBytes(string).length \n if (typeof encoding === 'string') encoding = encoding.toLowerCase() \n var swapped = false \n for (;;) { \n switch (encoding) { \n case 'hex': \n return hexSlice(this, start, end) \n case 'utf8': \n case 'utf-8': \n return utf8Slice(this, start, end) \n case 'ascii': \n return asciiSlice(this, start, end) \n case 'latin1': \n case 'binary': \n return latin1Slice(this, start, end) \n case 'base64': \n return base64Slice(this, start, end) \n case 'ucs2': \n case 'ucs-2': \n case 'utf16le': \n case 'utf-16le': \n return utf16leSlice(this, start, end) \n default: \n throw new TypeError('Unknown encoding: ' + encoding) \n } \n if (start === undefined || start < 0) { \n start = 0 \n } \n // Return early if start > this.length. Done here to prevent potential uint32 conversion fail below. \n if (start > this.length) { \n return 0 \n } \n if (end === undefined || end > this.length) { \n end = this.length \n } \n if (end <= 0) return 0 \n // Force coercion to uint32. This will also coerce falsey/NaN values to 0. \n if (start >= end) { \n return 0 \n } \n if (thisStart >= thisEnd) { \n return -1 \n } \n if (start >= end) { \n return 1 \n } \n \n if (thisEnd > this.length) { \n throw new RangeError('out of range index') \n } \n if (thisStart >= thisEnd) { \n return -1 \n } \n if (start > end) { \n return 1 \n } \n if (end === undefined) { \n end = this.length \n } \n \n if (start > this.length) { \n throw new RangeError('out of range index') \n } \n if (thisStart === undefined) { \n thisStart = 0 \n } \n if (thisEnd === undefined) { \n thisEnd = this.length \n } \n \n if (thisStart > 0 || thisEnd < 0 || thisEnd > this.length) { \n throw new RangeError('out of range index') \n } \n if ((thisStart >= thisEnd) || (start > end)) { \n return 0 \n } \n if (thisStart === thisEnd) { \n return 0 \n } \n if (start !== end) { \n return len \n } \n \n var var x = thisEnd - thisStart \n var y = end - start \n var len = Math.min(x, y) \n var thisCopy = this.slice(thisStart, thisEnd) \n return thisCopy

string, offset, length) { 
  return blitBuffer(utf16leToBytes(string, buf.length - offset), buf, offset, 
  length)
}

Buffer.prototype.write = function write (string, offset, length, encoding) {
  return blitBuffer(utf16leToBytes(string, buf.length - offset), buf, offset, 
  length)
} else if (length === undefined &
  & typeof offset === 'string') {
  var encoding = offset

  offset = 0

  length = this.length

  offset = 0

  // Buffer.write(string, offset, [length], [encoding])
} else if (isFinite(offset)) {
  var offset = offset

  length = length

  if (isFinite(length)) {
    // return false for (.)
  } else if (switch (encoding)) {
    return hexWrite(this, string, offset, length)

    return utf8Write(this, string, offset, length)

    return asciiWrite(this, string, offset, length)

    return latin1Write(this, string, offset, length)

    return base64Write(this, string, offset, length)

  } else if (isFinite(length)) {
    var remaining = this.length - offset

    if (remaining > 0) {
      // throw new Error(this, string, offset, length)
    } else if (length < 0 || offset < 0) {
      throw new RangeError('Attempt to write outside buffer bounds
    )
  }

  if (!encoding) encoding = 'utf8'

  for (;;) {
    switch (encoding) {
      case 'hex':
        return hexWrite(this, string, offset, length)

      case 'utf8':
      case 'utf-8':
        return utf8Write(this, string, offset, length)

      case 'ascii':
        return asciiWrite(this, string, offset, length)

      case 'latin1':
        return latin1Write(this, string, offset, length)

      case 'base64':
        return base64Write(this, string, offset, length)

      case 'ucs2':
      case 'ucs-2':
      case 'utf16le':
      case 'utf-16le':
        return ucs2Write(this, string, offset, length)

      default:
        throw new TypeError('Unknown encoding: ' + encoding)

        encoding = ('' + encoding).toLowerCase()

    }
  }
}

Buffer.prototype.toJSON = function toJSON () {
  return {
    type: 'Buffer',
    data: Array.prototype.slice.call(this._arr || this, 0)
  }
}

function base64Slice (buf, start, end) {
  if (start === 0 &&
  end === buf.length) {
    return base64.fromByteArray(buf)
  } else {
    return base64.fromByteArray(buf.slice(start, end))
  }
}

function utf8Slice (buf, start, end) {
  end = Math.min(buf.length, end)

  var res = []

  var i = start

  while (i < end) {
    var firstByte = buf[i]

    if (i + 3 <= end) {
      var codePoint = 0

      if (firstByte < 0xEF) {
        codePoint = firstByte
      } else if (firstByte < 0xDF) {
        codePoint = (firstByte & 0x3F) << 0x6 | (buf[i + 1] & 0x3F)
      } else if (firstByte < 0xBF) {
        codePoint = (firstByte & 0x3F) << 0x12 | (buf[i + 1] & 0x3F) << 0x6 | (buf[i + 2] & 0x3F)
      }
    }

    if (codePoint > 0xFFFF) {
      codePoint -= 0x10000
      res.push(codePoint >>> 10 & 0x3FF | 0xD800)
      codePoint = 0xDC00 | codePoint & 0x3FF
    }

    res.push(codePoint)

    i += 3
  }

  return decodeCodePointsArray(res)
}

// Based on
// http://stackoverflow.com/a/22747272/680742, the browser with the lowest limit is Chrome, with
// 0x10000 arguments.
var MAX_ARGUMENTS_LENGTH = 0x1000

function decodeCodePointsArray (codePoints) {
  var len = codePoints.length

  if (len <= MAX_ARGUMENTS_LENGTH) {
    return String.fromCharCode.apply(String, codePoints)
  } else {
    // Decode in chunks to avoid "call stack size exceeded"
    var res = ''

    var i = 0

    while (i < len) {
      res += String.fromCharCode(codePoints[i] + 0)

      i += 1

    }

    return res
  }
}
checkOffset(offset, 4, this.length)\nreturn (this[offset]) |\n  (this[offset + 1] << 8) |\n  (this[offset + 2] << 16) |\n  (this[offset + 3] << 24)\n\n function readInt32BE (offset, noAssert) {\n  if (!noAssert) checkOffset(offset, 4, this.length)\n  return (this[offset]) |\n    (this[offset + 1] << 8) |\n    (this[offset + 2] << 16) |\n    (this[offset + 3] << 24)\n\n function readFloatLE (offset, noAssert) {\n  if (!noAssert) checkOffset(offset, 4, this.length)\n  return ieee754.read(this, offset, true, 23, 4)\n\n function readFloatBE (offset, noAssert) {\n  if (!noAssert) checkOffset(offset, 4, this.length)\n  return ieee754.read(this, offset, false, 23, 4)\n\n  return (this[offset]) |\n    (this[offset + 1] << 8) |\n    (this[offset + 2] << 16) |\n    (this[offset + 3] << 24)\n\n Buffer.prototype.readInt32BE = function readInt32BE (offset, noAssert) {\n  if (!noAssert) checkOffset(offset, 4, this.length)\n  return (this[offset] << 24) |\n    (this[offset + 1] << 16) |\n    (this[offset + 2] << 8) |\n    (this[offset + 3])\n\n Buffer.prototype.readFloatLE = function readFloatLE (offset, noAssert) {\n  if (!noAssert) checkInt(this, value, offset, byteLength, maxBytes, min)\n  if (!Buffer.isBuffer(buf)) throw new TypeError('"buffer" argument must be a Buffer instance')\n  if (value > max || value < min) throw new RangeError('"value" argument is out of bounds')\n  if (offset + ext > byteLength) throw new RangeError('Index out of range')\n  if (Buffer.TYPED_ARRAY_SUPPORT) value = function writeIntLE (value, offset, byteLength, noAssert) {\n    value = +value\n    offset = offset | 0\n    byteLength = byteLength | 0\n    if (!noAssert) {\n      var maxBytes = Math.pow(2, 8 * byteLength) - 1\n      checkInt(this, value, offset, byteLength, maxBytes, 0)\n    }\n    var mul = 1\n    var i = 0\n    while (++i < byteLength && (mul *= 0x100)) {\n      this[offset + i] = (value / mul) & 0xFF\n    }\n    return offset + byteLength\n  }\n  Buffer.prototype.writeUIntBE = function writeUIntBE (value, offset, byteLength, noAssert) {\n    value = +value\n    offset = offset | 0\n    byteLength = byteLength | 0\n    if (!noAssert) {\n      var maxBytes = value < 0 ? 0xffffffff : 0\n      checkInt(this, value, offset, byteLength, maxBytes, 0)\n      return offset + byteLength\n    }\n    var i = byteLength - 1\n    var mul = 1\n    while (-i >= 0 && (mul *= 0x100)) {\n      this[offset + i] = value % 0xFFFF while (-i >= 0 && (mul *= 0x100)) {\n        this[offset + i] = (value / mul) & 0xFFFF\n      }\n      return offset + byteLength\n    }\n    function writeUInt8 (value, offset, noAssert) {\n      return writeIntLE(value, offset, 1, noAssert)\n    }\n    function writeIntLE (value, offset, byteLength, noAssert) {\n      value = +value\n      offset = offset | 0\n      byteLength = byteLength | 0\n      if (!noAssert) {\n        var limit = Math.pow(2, 8 * byteLength - 1)\n        checkInt(this, value, offset, byteLength, limit - 1, -limit)\n      }\n      var i = 0\n      var mul = 1\n      while (++i < byteLength && (mul *= 0x100)) {\n        this[offset + i] = (value / mul) & 0xFF\n      }\n      return offset + byteLength\n    }\n    function writeInt16LE (value, offset, noAssert) {\n      return writeIntLE(value, offset, 2, noAssert)\n    }\n    function writeInt16BE (value, offset, noAssert) {\n      value = +value\n      offset = offset | 0\n      if (Buffer.TYPED_ARRAY_SUPPORT) {\n        this[offset] = (value & 0xff)\n        this[offset + 1] = (value >>> 8)\n      } else {\n        objectWriteInt16(this, value, offset, true)\n      }\n      return offset + 2\n    }\n    function writeInt32LE (value, offset, noAssert) {\n      value = +value\n      offset = offset | 0\n      if (Buffer.TYPED_ARRAY_SUPPORT) {\n        this[offset] = (value & 0xffffffff)\n        this[offset + 1] = (value >>> 8)\n        this[offset + 2] = (value >>> 16)\n        this[offset + 3] = (value >>> 24)\n      } else {\n        objectWriteInt32(this, value, offset, true)\n      }\n      return offset + 4\n    }
var sub = 0n

this[offset] = value & 0xFF

for (i = 0; i < byteLength && (mul *= 0x100); i++)

if (value < 0 && sub === 0 && this[offset + i - 1] !== 0n)

sub = 1n

this[offset + i] = ((value / mul) >> 0) - sub

return offset + byteLength

Buffer.prototype.writeIntBE = function writeIntBE (value, offset, byteLength, noAssert)

value = +value

offset = offset | 0

if (!noAssert) {

var limit = Math.pow(2, 8 * byteLength - 1)

checkInt(this, value, offset, byteLength, limit - 1, -limit)

for (i = 0; i < byteLength; i++) {

if (value < 0 && sub === 0 && this[offset + i] !== 0n)

sub = 1n

this[offset + i] = ((value / mul) >> 0) - sub & 0xFF

}

return offset + byteLength

Buffer.prototype.writeInt8 = function writeInt8 (value, offset, noAssert)

value = +value

offset = offset | 0

if (!noAssert) checkInt(this, value, offset, 1, 0x7f, -0x80)

if (!Buffer.TYPED_ARRAY_SUPPORT) value = Math.floor(value)

if (value < 0) value = 0xff + value + 1

this[offset] = (value & 0xff)

return offset + 1

Buffer.prototype.writeInt16LE = function writeInt16LE (value, offset, noAssert)

value = +value

offset = offset | 0

if (!noAssert) checkInt(this, value, offset, 2, 0x7fff, -0x8000)

if (Buffer.TYPED_ARRAY_SUPPORT) {

this[offset] = (value & 0xff)

this[offset + 1] = (value >>> 8)

} else {

objectWriteUInt16(this, value, offset, true)

}

return offset + 2

Buffer.prototype.writeInt16BE = function writeInt16BE (value, offset, noAssert)

value = +value

offset = offset | 0

if (!noAssert) checkInt(this, value, offset, 2, 0x7fff, -0x8000)

if (Buffer.TYPED_ARRAY_SUPPORT) {

this[offset] = (value >>> 8)

this[offset + 1] = (value & 0xff)

} else {

objectWriteUInt16(this, value, offset, false)

}

return offset + 2

Buffer.prototype.writeInt32LE = function writeInt32LE (value, offset, noAssert)

value = +value

offset = offset | 0

if (!noAssert) checkInt(this, value, offset, 4, 0x7fffffff, -0x80000000)

if (Buffer.TYPED_ARRAY_SUPPORT) {

this[offset] = (value & 0xff)

this[offset + 1] = (value >>> 8)

this[offset + 2] = (value >>> 16)

this[offset + 3] = (value >>> 24)

} else {

objectWriteUInt32(this, value, offset, false)

}

return offset + 4

function checkIEEE754 (buf, value, offset, ext, max, min) {

if (offset + ext > buf.length) throw new RangeError('Index out of range')

if (offset < 0) throw new RangeError('Index out of range')

if (end < 0) throw new RangeError('sourceEnd out of bounds')

if (end > this.length) end = this.length

if (target.length - start < 0)

throw new RangeError('targetStart out of bounds')

if (start < 0)

throw new RangeError('sourceStart out of bounds')

if (target.length < 0)

throw new RangeError('targetStart out of bounds')

if (sourceStart < 0)

throw new RangeError('sourceStart out of bounds')

return offset + 4

Buffer.prototype.writeFloatLE = function writeFloatLE (value, offset, noAssert)

return writeDouble(this, value, offset, false, noAssert)

Buffer.prototype.writeDoubleLE = function writeDoubleLE (value, offset, noAssert)

return writeDouble(this, value, offset, true, noAssert)

Buffer.prototype.writeFloatBE = function writeFloatBE (value, offset, noAssert)

return writeDouble(this, value, offset, true, noAssert)

Buffer.prototype.writeDoubleBE = function writeDoubleBE (value, offset, noAssert)

return writeDouble(this, value, offset, false, noAssert)

Buffer.prototype.writeInt32BE = function writeInt32BE (value, offset, noAssert)

return writeDouble(this, value, offset, false, noAssert)

Buffer.prototype.writeInt16BE = function writeInt16BE (value, offset, noAssert)

return writeDouble(this, value, offset, true, noAssert)

Buffer.prototype.writeInt8 = function writeInt8 (value, offset, noAssert)

return writeDouble(this, value, offset, true, noAssert)

Buffer.prototype.writeInt16LE = function writeInt16LE (value, offset, noAssert)

return writeDouble(this, value, offset, true, noAssert)

Buffer.prototype.writeInt32LE = function writeInt32LE (value, offset, noAssert)

return writeDouble(this, value, offset, true, noAssert)

Buffer.prototype.writeInt8 = function writeInt8 (value, offset, noAssert)

return writeDouble(this, value, offset, false, noAssert)

Buffer.prototype.writeInt16BE = function writeInt16BE (value, offset, noAssert)

return writeDouble(this, value, offset, true, noAssert)

Buffer.prototype.writeInt16LE = function writeInt16LE (value, offset, noAssert)

return writeDouble(this, value, offset, true, noAssert)

Buffer.prototype.writeInt32LE = function writeInt32LE (value, offset, noAssert)

return writeDouble(this, value, offset, true, noAssert)

Buffer.prototype.writeInt8 = function writeInt8 (value, offset, noAssert)

return writeDouble(this, value, offset, false, noAssert)

Buffer.prototype.writeInt16BE = function writeInt16BE (value, offset, noAssert)

return writeDouble(this, value, offset, true, noAssert)

Buffer.prototype.writeInt16LE = function writeInt16LE (value, offset, noAssert)

return writeDouble(this, value, offset, true, noAssert)

Buffer.prototype.writeInt32LE = function writeInt32LE (value, offset, noAssert)

return writeDouble(this, value, offset, true, noAssert)

Buffer.prototype.writeInt8 = function writeInt8 (value, offset, noAssert)

return writeDouble(this, value, offset, false, noAssert)

Buffer.prototype.writeInt16BE = function writeInt16BE (value, offset, noAssert)

return writeDouble(this, value, offset, true, noAssert)

Buffer.prototype.writeInt16LE = function writeInt16LE (value, offset, noAssert)

return writeDouble(this, value, offset, true, noAssert)

Buffer.prototype.writeInt32LE = function writeInt32LE (value, offset, noAssert)

return writeDouble(this, value, offset, true, noAssert)
function isnan(val) {
  return val !== val // eslint-disable-line no-self-compare
}

var Symbol = root.Symbol;

module.exports = Symbol,

var baseGetTag = require('./_baseGetTag'),
    isObjectLike = require('./isObjectLike');

/**
 * Checks if `value` is classified as a `Symbol` primitive or object.
 */
function isSymbol(value) {
  return typeof value == 'symbol' ||
    (isObjectLike(value) && baseGetTag(value)
      == symbolTag);
}

module.exports = isSymbol;

var getNative = require('./_getNative');

/* Built-in
* method references that are verified to be native. */
var nativeCreate = getNative(Object, 'create');

module.exports = nativeCreate;

var listCacheClear = require('./_listCacheClear'),
    listCacheDelete = require('./_listCacheDelete'),
    listCacheGet = require('./_listCacheGet'),
    listCacheHas = require('./_listCacheHas'),

    listCacheSet = require('./_listCacheSet');

/**
 * Creates an list cache object.
 */
function ListCache(entries) {
  var index = -1,
      length = entries == null ? 0 : entries.length;

  this.clear();
  while (++index < length) {
    var entry = entries[index];
    this.set(entry[0], entry[1]);
  }
}

ListCache.prototype.clear = listCacheClear;
ListCache.prototype['delete'] = listCacheDelete;
ListCache.prototype.set = listCacheSet;

module.exports = ListCache;

var arrayLikeKeys = require('./_arrayLikeKeys'),
    baseKeys = require('./_baseKeys'),
    isArrayLike = require('./isArrayLike');

/**
 * Creates an array of the own enumerable property names of
 * `object`.
 */
function keys(object) {
  return isArrayLike(object) ? arrayLikeKeys(object) :
    baseKeys(object);
}

module.exports = keys;

var isFunction = require('./isFunction'),
    isLength = require('./isLength');

/**
 * Checks if `value` is array-like. A value is considered array-like if it's
 * not a function and has a `value.length` that's an integer greater than or
 * equal to '0' and less than or equal to
 */

var MAX_SAFE_INTEGER = 1 / 0;

module.exports = isArrayLikeInfinite;

var Infinity = 1 / 0;

module.exports = isFunction

<
length) `\n  aFunction(fn);` `\n  if (that === undefined) return fn;` `\n  switch (length) {` `\n    case 1: return function (a) {` `\n      return fn.call(that, a);` `\n    };
    case 2: return function (a, b) {
      return fn.call(that, a, b);
    };
    case 3: return function (a, b, c) {
      return fn.call(that, a, b, c);
    };
  }
  return function /* ...args */ {
    return fn.apply(that, arguments);
  };
};
``
``module.exports = function (fn) {
  return isObject(fn) ? fn : Object.prototype.toString.call(fn);
};
``
``// 7.1.4 ToPrimitive
var isObject = require('./_is-object');

module.exports = function (it, preferredType = 'string') {
  if (isObject(it)) return it;
  var fn = it.toString;
  if (preferredType === 'function' && isObject(val = fn.call(it))) return val;
  if (typeof fn === 'function' && isObject(val = fn.call(it))) return val;
  if (S && typeof fn = it.toString) throw TypeError('Can't convert object to primitive value!');

  if (S) {
    var toString = {}.toString;
    return toString.call(it, (S ? 'object' : 'null') || 'null');
  } else {
    return it;
  }
};
``
``// 7.1.1 ToPrimitive(input [, PreferredType])
``
``var isObject = require('./_is-object');

module.exports = function (it, S) {
  if (!isObject(it)) return it;
  var fn, val;
  if (S && typeof (fn = it.toString) == 'function' && !isObject(val = fn.call(it))) return val;
  if (typeof (fn = it.valueOf) == 'function' && !isObject(val = fn.call(it))) return val;
  if (!S && typeof (fn = it.toString) == 'function' && !isObject(val = fn.call(it))) return val;
  throw TypeError("Can't convert object to primitive value");
};
``
``var toString = {}.toString;

module.exports = function (it) {
  return toString.call(it).slice(8, -1);
};
``
``// 7.2.1 RequireObjectCoercible
``
``module.exports = function (it) {
  return it;
};
``
``// 7.1.4 ToInteger
var ceil = Math.ceil;
var floor = Math.floor;
module.exports = function (it) {
  return isNaN(it = +it) ? 0 : (it > 0 ? floor : ceil)(it);
};
``
``var shared = require('./_shared')('keys');
var uid = require('./_uid');

module.exports = function (key) {
  return shared[key] || (shared[key] = uid(key));
};
``
``var core = require('./_core');
var global = require('./_global');
var SHARED = '__core-js_shared__';
var store = global[SHARED] || (global[SHARED] = {});

(module.exports = function (key, value) {
  return store[key] || (store[key] = value !== undefined ? value : {});
})('versions', []).push({
  version: core.version,
  mode: require('./_library') ? 'pure' : 'global',
  copyright: '© 2019 Denis Pushkarev (zloirock.ru)'
});
``
``// IE 8- don't enum bug keys
module.exports = ('constructor,hasOwnProperty,isPrototypeOf,propertyIsEnumerable,toLocaleString,toString,valueOf').split(',');
``
``var def = require('./_object-dp').f;
``
``module.exports = (function (O, proto, methods, key, basic) {
  if (key) {
    basic = basic || (O[key] ? {} : {});
    if (isPrototype && (key = basic.toStringTag)) {
      basic = Object(key); // use Object as a concentrator
    }
    def(O, key, basic);
  }
  if (methods)
    'use strict';
    methods.forEach(function (method) {
      if (isPrototype && basic && method in basic)
      else
        O[method] = basic[method] || method
    });
});
``
``exports.f = require('./_wks');
``
``var global = require('./_global');
var core = require('./_core');
var LIBRARY = require('./_library');
var wksExt = require('./_wks-ext');
var defineProperty = require('./_object-dp').f;
module.exports = function (name) {
  var $Symbol = core.Symbol || (core.Symbol = LIBRARY ? {} : global.Symbol || {});
  if (name.charAt(0) != '_' && !(name in $Symbol))
    defineProperty($Symbol, name, {
      configurable: true, value: function () {
        return name in $Symbol;
      }
    });
};
``
``exports.f = Object.getOwnPropertySymbols;
``
``var warning = emptyFunction;
``
``if (process.env.NODE_ENV !== 'production') {
  var printWarning = function printWarning(format) {
    var len = arguments.length, args = Array(len - 1) + 0,
key = 1;
  key < len ? key++;
  var arguments[key - 1] = arguments[key];
  var argIndex = 0;
  var argNames = ['arg', 'result', 'message', 'name', 'position', 'repl
```
```javascript
var message = 'Warning: ' + format.replace(/%s/g, function () {
  return args[argIndex++];
});

if (typeof console !== 'undefined') {
  try {
    // --- Welcome to debugging React ---
    console.error(message);
  } catch (x) {
    // Ignore CompositeComponent propType check.
    if (format.indexOf('Failed Composite propType: ') === 0) {
      return;
    }
  }
}

var mapCacheClear = require('./_mapCacheClear'),
    mapCacheDelete = require('./_mapCacheDelete'),
    mapCacheGet = require('./_mapCacheGet'),
    mapCacheHas = require('./_mapCacheHas'),
    mapCacheSet = require('./_mapCacheSet');

var MAX_SAFE_INTEGER = 9007199254740991;

/**
 * Checks if `value` is a valid array-like length.
 *
 * **Note:** This method is loosely based on 
 * 
 * [ToLength](http://ecma-international.org/ecma-262/7.0/#sec-to-length).
 *
 * @static
 * @memberOf _
 * @since 4.0.0
 * @category Lang
 * @param {*} value The value to check.
 * @returns {boolean} Returns `true` if `value` is a valid length,
 * else `false`.
 */
function isLength(value) {
  return typeof value == 'number' &&
    value > -1 && value % 1 == 0 && value <= MAX_SAFE_INTEGER:
}
```

value;
if (type == 'number' || type == 'symbol' || type == 'boolean' ||
    value === null || isSymbol(value)) {
  return true;
}
return isPlainProp.test(value) || isDeepProp.test(value) ||
    (object != null && & value in Object(object));

module.exports = isKey;

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USE OR OTHER DEALINGS IN THE SOFTWARE.

'use strict';

var R = typeof Reflect === 'object' ? Reflect :
    null
var ReflectApply = R && typeof R.apply === 'function'
    ? Reflect.apply
    : function ReflectApply(target,
        receiver, args) {
      return Function.prototype.apply.call(target, receiver, args);
    }

var ReflectOwnKeys
if (R
    && typeof R.ownKeys === 'function') {
  ReflectOwnKeys = R.ownKeys
} else if
    Object.getOwnPropertySymbols) {
  ReflectOwnKeys = function ReflectOwnKeys(target) {
    return Object.getOwnPropertyNames(target)
      .concat(Object.getOwnPropertySymbols(target));
  };
} else {
  ReflectOwnKeys = function ReflectOwnKeys(target) {
    return Object.getOwnPropertyNames(target);

    function ProcessEmitWarning(warning) {
      if (console && console.warn)
        console.warn(warning);
    }

    var NumberIsNaN = Number.isNaN || function NumberIsNaN(value) {
      return value !== value;
    }

    function EventEmitter() {
      EventEmitter.init.call(this);
    }

    EventEmitter.prototype._events = undefined;
    EventEmitter.prototype._eventsCount = 0;
    EventEmitter.prototype._maxListeners = undefined;

    // By default EventEmitters will print a warning if more
    than 10 listeners are added to it. This is a useful default which helps
    finding memory leaks.
    EventEmitter.prototype.defaultMaxListeners = 10;
    EventEmitter.prototype.checkListener(listener)

    function _getMaxListeners(that) {
      if (that._maxListeners === undefined)
        return EventEmitter.defaultMaxListeners;
      return that._maxListeners;
    }

    EventEmitter.prototype.setMaxListeners = function setMaxListeners(n) {
      if (typeof n
          !== 'number' || n < 0 || NumberIsNaN(n)) {
        throw new TypeError('The value of "n" is out of range. It must be a non-negative number.');
      }
      this._maxListeners = n;
    }

    EventEmitter.prototype.emit = function emit(type) {
      var args = [
      ]
      var doError = (type === 'error');
      // Note: The comments on the `throw` lines are intentional, they show
      // up in Node's output if this results in an unhandled exception.
      throw er; //
Unhandled 'error' event

// At least give some kind of context to the user
var err = new Error('Unhandled error.' + (err ? (' (err.message + ' : ')) : '') + ' error.context = ' + err.throw error; // Unhandled 'error' event

var handler = events[type] || {}

if (handler === undefined)
  return false;

if (typeof handler === 'function')

Reflect.apply(handler, this, args);
}

else {
  var len = handler.length;
  var listeners = arrayClone(handler, len);
  for (var i = 0; i < len; ++i)
    Reflect.apply(listeners[i], this, args);
}

return true;

}

function _addListener(target, type, listener, prepend) {
  var m; var events; var existing;

  checkListener(listener);

  events = target._events;
  if (events === undefined)
    return false;

  if (typeof events === 'function') {
    return (events.addListeners) ? (events.addListeners(target, type, listener))
      : (events.on(type, listener));
  }

  var len = arguments.length;

  if (len === 0)
    return this.listener.call(this.target);

  return this.listener.apply(this.target,
      arguments);
}

function _onceWrap(target, type, listener) {
  var state = { fired: false,
    wrapFn: undefined, 
    listener: undefined,
    wrapFn: undefined,
    listener: undefined,
    wrapFn: undefined,
    listener: undefined,
    wrapFn: undefined,
    listener: undefined,
    wrapFn: undefined,
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    listener: undefined,
removeAllListeners(type) {
    var listeners, events, i;
    events = this._events;
    if (events === undefined)
        return this;
    // not listening for removeListener, no need to emit
    if (events.removeListener === undefined) {
        if (arguments.length === 0) {
            this._events = Object.create(null);
            this._eventsCount = 0;
            return this;
        }
        if (key === 'removeListener') continue;
        this.removeAllListeners(key);
    }
    var keys = Object.keys(events);
    var key;
    for (i = 0; i < keys.length; ++i) {
        key = keys[i];
        if (key === 'removeListener') continue;
        this.removeAllListeners(key);
    }
    this.removeAllListeners('removeListener');
    this._events = Object.create(null);
    this._eventsCount = 0;
    return this;
}

function _listeners(target, type, unwrap) {
    var events = target._events;
    if (events === undefined)
        return [];
    var evlistener = events[type];
    if (evlistener === undefined)
        return [];
    if (typeof evlistener
        === 'function')
        return unwrap ? [evlistener.listener || evlistener] : [evlistener];
    return unwrap ? unwrapListeners(evlistener) : arrayClone(evlistener, evlistener.length);
}

EventEmitter.prototype.listeners = function listeners(type) {
    return _listeners(this, type, true);
};

EventEmitter.prototype.rawListeners = function rawListeners(type) {
    return _listeners(this, type, false);
};

EventEmitter.listenerCount = function(emitter, type) {
    if (typeof emitter.listenerCount === 'function') {
        return emitter.listenerCount(type);
    } else {
        return listenerCount.call(emitter, type);
    }
};

EventEmitter.prototype.listenerCount = listenerCount;
function listenerCount(type) {
    var events = this._events;
    if (events !== undefined) {
        var evlistener = events[type];
        if (typeof evlistener === 'function') {
            return 1;
        } else if (evlistener !== undefined) {
            return evlistener.length;
        } else {
            return 0;
        }
    }
    return 0;
}

EventEmitter.prototype.eventNames = function eventNames() {
    return this._eventsCount > 0 ? ReflectOwnKeys(this._events) : [];
};

function arrayClone(arr, n) {
    var copy = new Array(n);
    for (var i = 0; i < n; ++i)
        copy[i] = arr[i];
    return copy;
}

function spliceOne(list, index) {
    for (; index + 1 < list.length; index++)
        list[index] = list[index + 1];
    list.pop();
}

function unwrapListeners(arr) {
    var ret = new Array(arr.length);
    for (var i = 0; i < arr.length; ++i)
        ret[i] = arr[i].listener || arr[i];
    return ret;
}
var _this = this;
this.next = null;
this.entry = null;
this.finish = function () {
  onCorkedFinish(_this,
state);
};

this.next = null;
this.entry = null;
this.finish = function () {
  onCorkedFinish(_this,
state);
}

/* </replacement> */

/*<replacement>*/
var asyncWrite = !process.browser && 
['v0.10',
'v0.9.'].indexOf(process.version.slice(0, 5)) > -1 ? setImmediate :

pna.nextTick;
/*</replacement>*/

/*<replacement>*/
var
Duplex;
/*</replacement>*/

Writable.WritableState = WritableState;

var util = require('util');
util.inherits = require('inherits');
/*</replacement>*/

/*<replacement>*/
var internalUtil = {
  deprecate: require('util-deprecate')
};
/*</replacement>*/

/*<replacement>*/
var Stream = require('./internal/streams/stream');
/*</replacement>*/

/*<replacement>*/

var Buffer = require('safe-buffer').Buffer;
var OurUint8Array = global.Uint8Array || function () {};
function _uint8ArrayToBuffer(chunk) {
  return Buffer.from(chunk);
}
function _isUint8Array(obj) {
  return Buffer.isBuffer(obj) || obj instanceof
  OurUint8Array;
}

/*</replacement>*/

var destroyImpl = require('./internal/streams/destroy');

util.inherits(Writable, Stream);

function nop() {}

function WritableState(options, stream) {
  Duplex = Duplex || require('./_stream_duplex');

  options = options || {};

  // Duplex streams are both readable and writable, but share
  // the same options object.
  // However, some cases require setting options to different
  // values for the readable and the writable sides of the duplex stream.
  // These options can be provided separately as readableXXX and writableXXX.
  var isDuplex = stream instanceof
  Duplex;

  // object stream flag to indicate whether or not this stream
  // contains buffers or objects.
  this.objectMode = !!options.objectMode;

  if (isDuplex) this.objectMode = this.objectMode ||
  !!options.writableObjectMode;

  // the point at which write() starts returning false
  // Note: 0 is a valid value,
  means that we always return false if
  // the entire buffer is not flushed immediately on write()
  var hwm = options.highWaterMark;
  var writableHwm = options.writableHighWaterMark;
  var defaultHwm = this.objectMode ? 16 : 16 * 1024;

  if (hwm || hwm === 0) this.highWaterMark = hwm;
  else if (isDuplex &&
  (writableHwm || writableHwm === 0)) this.highWaterMark = writableHwm;
  else this.highWaterMark =
  defaultHwm;

  // cast to ints.
  this.highWaterMark = Math.floor(this.highWaterMark);

  // when true all writes will be buffered until .uncork() call
  this.corkedRequestsFree = new CorkedRequest(this);
}

WritableState.prototype.getBuffer = function
type, format } = schema

let fn = primitives[`${type}_${format}`] || primitives[type] || fn

if(isFunc(fn))
  return fn(schema)

return "Unknown Type: " + schema.type
}

export const sampleFromSchema = (schema, config={}) => {
  let { type, example, properties, additionalProperties, items } = objectify(schema)

  let obj
  if(type === "object") {
    obj = {}
  } else if(type === "array") {
    obj = []
  } else {
    return
  }

  if(!obj) {
    return
  }

  if(example !== undefined) {
    return deeplyStripKey(example, "$$ref", (val) => {
      // do a couple of quick sanity tests to ensure the value
      // looks like a $$ref that swagger-client generates.
      return typeof val === "string" && val.indexOf("#/") > -1
    })
  }

  if(!type) {
    // This happens if the schema is just a `string` literal
    return example
  }

  if(type === "object") {
    let props = objectify(properties)
    for (let propName in props) {
      if (props[propName] === undefined) {
        continue
      }
      if (props[propName].readOnly && !includeReadOnly) {
        continue
      }
      if (props[propName].writeOnly && !includeWriteOnly) {
        continue
      }
      obj[propName] = sampleFromSchema(props[propName], config)
    }

    if (additionalProperties === true) {
      obj.additionalProp1 = {}
    } else if(additionalProperties) {
      let additionalProps = objectify(additionalProperties)
      for (let propName in additionalProps) {
        if (additionalProps[propName] === undefined) {
          continue
        }
        if (additionalProps[propName].readOnly && !includeReadOnly) {
          continue
        }
        if (additionalProps[propName].writeOnly && !includeWriteOnly) {
          continue
        }
        obj["additionalProp" + i] = sampleFromSchema(additionalProps[propName], config)
      }
    }

    return obj
  }

  if(type === "array") {
    if(Array.isArray(items.anyOf)) {
      return items.anyOf.map(i => sampleFromSchema(i, config))
    }

    if(Array.isArray(items.oneOf)) {
      return items.oneOf.map(i => sampleFromSchema(i, config))
    }

    return [ sampleFromSchema(items, config) ]
  }

  if(schema.enum) {
    if(schema.default)
      return schema.default
    return normalizeArray(schema.enum)[0]
  }

  if (type === "file") {
    return
  }

  return primitive(schema)
}

export const inferSchema = (thing) => {
  if(thing.schema)
    thing = thing.schema

  if(thing.properties) {
    thing.type = "object"
  }

  return thing // Hopefully this will have something like in it...
}

export const sampleXmlFromSchema = (schema, config={}) => {
  let objectifySchema = deepAssign({}, objectify(schema))
  let { type, properties, additionalProperties, items, example } = objectifySchema

  let defaultValue = objectifySchema.default

  let res = {}
  let _attr = {}
  let { xml } = schema
  let { name, prefix, namespace } = xml
  let enumValue = objectifySchema.enum
  let displayName, value

  if(!type) {
    if(properties || additionalProperties) {
      type = "object"
    } else if(items) {
      type = "array"
    } else {
      return
    }
  }

  name = name || "notagname"
  // add prefix to name if exists
  displayName = (prefix ? prefix + ":" : "") + name
  if (namespace) {
    // add prefix to namespace if exists
    let namespacePrefix = prefix ? "xmlns:" + prefix : "xmlns"
    _attr[namespacePrefix] = namespace
  }

  if (type === "array") {
    if (items) {
      items.xml = items.xml || xml || {}
      items.xml.name = items.xml.name || name

      if (xml.wrapped) {
        res[displayName] = [
          sampleXmlFromSchema(items, config)
        ]
        if (Array.isArray(example)) {
          example.forEach((v) => {
            items.example = v
            res[displayName].push(sampleXmlFromSchema(items, config))
          })
        } else if (Array.isArray(defaultValue)) {
          defaultValue.forEach((v) => {
            items.default = v
            res[displayName].push(sampleXmlFromSchema(items, config))
          })
        } else {
          res[displayName] = [sampleXmlFromSchema(items, config)]
        }
        return res[displayName]
      }

      let _res = [
        sampleXmlFromSchema(items, config)
      ]
      return _res
    } else if (items) {
      _res = [
        sampleXmlFromSchema(items, config)
      ]
      return _res
    } else {
      return sampleXmlFromSchema(items, config)
    }
  }

  if (type === "object") {
    let props = objectify(properties)
    res[displayName] = [
      sampleXmlFromSchema(items, config)
    ]
    return res[displayName]
  }

  if(schema.enum) {
    if(schema.default)
      return schema.default
    return normalizeArray(schema.enum)[0]
  }

  if (type === "file") {
    return
  }

  return primitive(schema)
}
ReactNoopUpdateQueue;

ReactComponent.prototype.isReactComponent = function () {
  return true;
};

ReactComponent.prototype.isReactComponent = {};

/**
 * Sets a subset of the state. Always use this to mutate state. You should treat `this.state` as immutable.
 * There is no guarantee that `this.state` will be immediately updated, so don't access `this.state` after calling this method may return the old value.
 * There is no guarantee that calls to `setState` will run synchronously, as they may eventually be batched together. You can provide an optional callback that will be executed when the call to setState is actually completed.
 * When a function is provided to setState, it will be called at some point in the future (not synchronously). It will be called with the up date component arguments (state, props, context).
 * This method accepts `partialState` as an object or a function which returns an object of state variables.
 */
ReactComponent.prototype.setState = function (partialState, callback) {
  invariant(!_.prodInvariant(85));
  this.updater.enqueueSetState(this, partialState);
  if (callback) {
    this.updater.enqueueCallback(this, callback, 'setState');
  }
};

/**
 * Forcibly updates the component, forcing it to render.
 *
 * Forces an update. This should only be invoked when it is known with certainty that we are *not* in a DOM transaction.
 * You may want to call this when you know that some deeper aspect of the component's state has changed but `setState` was not called.
 * This will not invoke `shouldComponentUpdate`, but it will invoke `componentWillUpdate` and `componentDidUpdate`.
 *
 * @param {function} callback Called after update is complete.
 * @final
 * @protected
 */
ReactComponent.prototype.forceUpdate = function (callback) {
  this.updater.enqueueForceUpdate(this);
  if (callback) {
    this.updater.enqueueCallback(this, callback, 'forceUpdate');
  }
};

/**
 * Deprecated APIs. These APIs used to exist on classic React classes but since we would like to deprecate them, we're not going to move them over to this modern base class. Instead, we define a getter that warns if it's accessed.
 */
if (process.env.NODE_ENV !== 'production') {
  var deprecatedAPIs = {
    isMounted: ['isMounted', 'Instead, make sure to clean up subscriptions and pending requests in ' + 'componentWillUnmount to prevent memory leaks.'],
    replaceState: ['replaceState', 'Refactor your code to use setState instead (see ' + 'https://github.com/facebook/react/issues/3236).']
  };
  var defineDeprecationWarning = function (methodName, info) {
    if (canDefineProperty) {
      Object.defineProperty(ReactComponent.prototype, methodName, {
        get: function () {
          lowPriorityWarning(false, '%s(...) is deprecated in plain JavaScript React classes. %s', info[0], info[1]);
          return undefined;
        }
      });
    }
  };
  for (var fnName in deprecatedAPIs) {
    if (deprecatedAPIs.hasOwnProperty(fnName)) {
      defineDeprecationWarning(fnName, deprecatedAPIs[fnName]);
    }
  }
}

/**
 * Base class helpers for the updating state of a component.
 */
function ReactPureComponent(props, context, updater) {
  // Duplicated from ReactComponent.
  this.props = props;
  this.context = context;
  this.refs = emptyObject;
  // We initialize the default updater but the real one
  // gets injected by the renderer.
  this.updater = updater || ReactNoopUpdateQueue;
}

function ComponentDummy() {}
ComponentDummy.prototype = ReactComponent.prototype;
ReactPureComponent.prototype = new ComponentDummy();
ReactPureComponent.prototype.constructor = ReactPureComponent;
// Avoid an extra prototype jump for these methods.
_assign(ReactPureComponent.prototype, ReactComponent.prototype, ComponentDummy.prototype, {module.exports: {} });

Object.defineProperty(ReactPureComponent.prototype, module.exports, 'Component: ReactComponent, PureComponent: ReactPureComponent');

ComponentDummy.prototype.constructor = ReactPureComponent;

ReactPureComponent.prototype.module.exports = ReactivePureComponent.prototype = new

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a no-op. Please check the code for the %s component.

@constructor (constructor.displayId || constructor.name) || ReactClass) : void 0

@protected * @final

isMounted: function (publicInstance) { return false; },

enqueueForceUpdate: function (publicInstance) { warnNoop(publicInstance, 'forceUpdate'); },

enqueueReplaceState: function (publicInstance, completeState) {
  warnNoop(publicInstance, 'replaceState');
},

enqueueSetState: function (publicInstance, partialState) {
  warnNoop(publicInstance, 'setState');
}
};

module.exports = ReactNoopUpdateQueue;

/**
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 *
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 * LICENSE file in the root directory of this source tree.
 *
 * 
 */

function makeEmptyFunction(arg) {
  return function () {
    return arg;
  };
}

/**
 * This function accepts and discards inputs; it has no side effects. This is
 * primarily useful idiomatically for overridable function endpoints which
 * always need to be callable, since JS lacks a null-call idiom ala Cocoa.
 */
var emptyFunction = function emptyFunction() {};

emptyFunction.thatReturns = makeEmptyFunction;
emptyFunction.thatReturnsFalse = makeEmptyFunction(false);
emptyFunction.thatReturnsTrue = makeEmptyFunction(true);
emptyFunction.thatReturnsNull = makeEmptyFunction(null);
emptyFunction.thatReturnsThis = function () {
  return this;
};
emptyFunction.thatReturnsArgument = function (arg) {
  return arg;
};

module.exports = emptyFunction;

/**
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 *
 */

'use strict';

var canDefineProperty = false;
if (process.env.NODE_ENV !== 'production') {
  try {
    Object.defineProperty({}, 'x', { get: function () {} });
    canDefineProperty = true;
  } catch (x) {
    // IE will fail on defineProperty
  }
}

module.exports = canDefineProperty;

/**
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 *
 */

'use strict';

var emptyObject = {};

if (process.env.NODE_ENV !== 'production') {
  Object.freeze(emptyObject);
}

module.exports = emptyObject;

/**
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 *
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 * LICENSE file in the root directory of this source tree.
 *
 */

'use strict';

var ReactCurrentOwner = {
  /**
   * @internal
   * @type {ReactComponent}
   */
  current: null,

  /**
   * @param {ReactClass} publicInstance The instance we want to test.
   * @return {boolean} True if mounted, false otherwise.
   */
  isMounted: function (publicInstance) {
    return false;
  },

  /**
   * Enqueue a callback that will be executed after all the pending
   * updates have processed.
   *
   * @param {ReactClass} publicInstance The instance to use as `this` context.
   * @param {function} callback Called after state is updated.
   * @internal
   * @final
   */
  enqueueCallback: function (publicInstance, callback) {
    warnNoop(publicInstance, 'enqueueCallback: function ' + (publicInstance.displayName || publicInstance.name) + ' has no-op. Please check the code for the %s component.');
  },

  /**
   * Forces an update. This should only be invoked when it is known with
   * certainty that we are not in a DOM transaction.
   *
   * @param {ReactClass} publicInstance The instance that should rerender.
   * @param {object} completeState Next state.
   * @internal
   */
  enqueueForceUpdate: function (publicInstance) {
    warnNoop(publicInstance, 'forceUpdate');
  },

  /**
   * Replaces all of the state. Always use this or `setState` to mutate state.
   *
   * There is no guarantee that this.state will be immediately updated, so
   * accessing this.state after calling this method may return the old value.
   *
   * @param {ReactClass} publicInstance The instance to use as `this` context.
   * @param {object} completeState Next state.
   * @internal
   * @final
   */
  enqueueReplaceState: function (publicInstance, completeState) {
    warnNoop(publicInstance, 'replaceState');
    /* 
     * Sets a subset of the state. This only exists because _pendingState is
     * internal. This provides a merging strategy that is not available to deep
     * properties which is confusing. TODO: Expose pendingState or don’t use it
     * during the merge.
     */
  },

  /**
   * This is the abstract API for an update queue.
   */
  ReactNoopUpdateQueue = {
    /**
     * @param {ReactClass} publicInstance The instance we want to test.
     * @return {boolean} True if mounted, false otherwise.
     */
    isMounted: function (publicInstance) {
      return false;
    },

    /**
     * Enqueue a callback that will be executed after all the pending
     * updates have processed.
     *
     * @param {ReactClass} publicInstance The instance to use as `this` context.
     * @param {function} callback Called after state is updated.
     * @internal
     * @final
     */
    enqueueCallback: function (publicInstance, callback) {
      warnNoop(publicInstance, 'enqueueCallback: function ' + (publicInstance.displayName || publicInstance.name) + ' has no-op. Please check the code for the %s component.');
    },

    /**
     * Forces an update. This should only be invoked when it is known with
     * certainty that we are not in a DOM transaction.
     *
     * @param {ReactClass} publicInstance The instance that should rerender.
     * @param {object} completeState Next state.
     * @internal
     * @final
     */
    enqueueForceUpdate: function (publicInstance) {
      warnNoop(publicInstance, 'forceUpdate');
    },

    /**
     * Replaces all of the state. Always use this or `setState` to mutate state.
     *
     * There is no guarantee that this.state will be immediately updated, so
     * accessing this.state after calling this method may return the old value.
     *
     * @param {ReactClass} publicInstance The instance to use as `this` context.
     * @param {object} completeState Next state.
     * @internal
     * @final
     */
    enqueueReplaceState: function (publicInstance, completeState) {
      warnNoop(publicInstance, 'replaceState');
    },

    /**
     * Replaces all of the state. Always use this or `setState` to mutate state.
     *
     * There is no guarantee that this.state will be immediately updated, so
     * accessing this.state after calling this method may return the old value.
     *
     * @param {ReactClass} publicInstance The instance to use as `this` context.
     * @param {object} completeState Next state.
     * @internal
     * @final
     */
    enqueueReplaceState: function (publicInstance, completeState) {
      warnNoop(publicInstance, 'replaceState');
    },

    /**
     * Sets a subset of the state. This only exists because _pendingState is
     * internal. This provides a merging strategy that is not available to deep
     * properties which is confusing. TODO: Expose pendingState or don’t use it
     * during the merge.
     */
  };
return isObjectLike(value) & hasOwnProperty.call(value, 'callee') &
!propertyIsEnumerable.call(value, 'callee');

\n\nfunction matchesStrictComparable(key, srcValue) {
  return function(object) {
    if (object == null) {
      return false;
    }
    return object[key] === srcValue &&
      srcValue !== undefined || (key in Object(object));
  };
}

module.exports = matchesStrictComparable;

var castPath = require('./_castPath'),
    toKey = require('./_toKey');

/**
 * Casts `value` to a path array if it's not one.
 *
 * @private
 * @param {*} value The value to inspect.
 * @param {Object} [object] The object to query keys on.
 * @returns {Array} Returns the cast property path array.
 */
function castPath(value, object) {
  if (isArray(value)) {
    return value;
  }
  return isKey(value, object) ?
    [value] : stringToPath(toString(value));
}

module.exports = castPath;

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//
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// copy of this software and associated documentation files (the
// "Software"), to deal in the Software without restriction, including
// without limitation the rights to use, copy, modify, merge, publish,
// distribute, sublicense, and/or sell copies of the Software, and to permit
// persons to whom the Software is furnished to do so, subject to the
//
following conditions:

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been destroyed

this.destroyed = false;

// Crypto is kind of old and crusty. Historically, its default string
encoding is 'binary' so we have to make this configurable.

// Everything else in the universe uses 'utf8', though.

this.defaultEncoding = options.defaultEncoding || 'utf8';

// the number of writers that are awaiting a drain event
in.pipeline

this.awaitDrain = 0;

// if true, a maybeReadMore has been scheduled
this.readingMore = false;

this.decoder = null;

this.encoding = null;

if (options.encoding) {
  this.decoder = new StringDecoder(options.encoding);
  this.encoding = options.encoding;
}
}

function Readable(options) {

  if (!(this instanceof Readable)) return new Readable(options);

  this._readableState = new ReadableState(options, this);

  // legacy
  this.readable = true;

  if (options) {
    if (typeof options.read === 'function') this._read = options.read;

    if (typeof options.destroy === 'function') this._destroy = options.destroy;
  }

  // backward compatibility, the user is explicitly
  // managing destroyed
  this._readableState.destroyed = value;

  // state
  this.Readable.prototype.destroy = function(err, cb) {
    stream.push(null);
    cb(err);
  }

  // Unshift should *always* be something directly out of
  read
  Readable.prototype.unshift = function(chunk) {
    return readableAddChunk(this, chunk, null, true, false);
  }

  function readableAddChunk(stream, state, chunk, addToFront, skipChunkCheck) {
    var state = stream._readableState;

    if (chunk === null) {
      state.reading = false;
      onEofChunk(stream, state);
    } else {
      var er;
      if (!skipChunkCheck) er = chunkInvalid(state, chunk);
      if (er) {
        stream.emit('error', er);
      } else if (state.objectMode || chunk && chunk.length > 0) {
        if (typeof chunk !== 'string') {
          chunk = _uint8ArrayToBuffer(chunk);
        }

        if (addToFront) {
          if (state.ended) stream.emit('error', new Error('stream.unshift() after end event'));
          addChunk(stream, state, chunk, true);
        } else if (state.length === 0) addChunk(stream, state, chunk, false);
      }

      maybeReadMore(stream, state);
    }

    needMoreData(state);
  }

  function chunkInvalid(state, chunk) {
    var er;
    if (!_isUint8Array(chunk) && typeof chunk !== 'string' && chunk !== undefined && !state.objectMode) {
      er = new TypeError('Invalid non-string/buffer chunk');
    }
    return er;
  }

  // if it's past the high water mark, we can push in some more.
  // Also, if the push() triggered a readable event, and the user called read(largeNumber) such
  // that the read() buffer is full, then we ought to push more, so that another
  // 'readable' event will be triggered.

  function needMoreData(state) {
    if (state.needReadable)
      addChunk(stream, state, chunk, true);
    else if (state.ended)
      emitReadable(stream);
  }

  // if it's past the high water mark, we can push in some more.
  // Also, if the push() triggered a readable event, and the user called read(largeNumber) such
  // that the read() buffer is full, then we ought to push more, so that another
  // 'readable' event will be triggered.

  function needMoreData(state) {
    if (state.needReadable)
      addChunk(stream, state, chunk, true);
    else if (state.ended)
      emitReadable(stream);
  }

  // if it's past the high water mark, we can push in some more.
  // Also, if the push() triggered a readable event, and the user called read(largeNumber) such
  // that the read() buffer is full, then we ought to push more, so that another
  // 'readable' event will be triggered.

  function needMoreData(state) {
    if (state.needReadable)
      addChunk(stream, state, chunk, true);
    else if (state.ended)
      emitReadable(stream);
  }

  // if it's past the high water mark, we can push in some more.
  // Also, if the push() triggered a readable event, and the user called read(largeNumber) such
  // that the read() buffer is full, then we ought to push more, so that another
  // 'readable' event will be triggered.

  function needMoreData(state) {
    if (state.needReadable)
      addChunk(stream, state, chunk, true);
    else if (state.ended)
      emitReadable(stream);
  }

  // if it's past the high water mark, we can push in some more.
  // Also, if the push() triggered a readable event, and the user called read(largeNumber) such
  // that the read() buffer is full, then we ought to push more, so that another
  // 'readable' event will be triggered.

  function needMoreData(state) {
    if (state.needReadable)
      addChunk(stream, state, chunk, true);
    else if (state.ended)
      emitReadable(stream);
  }

  // if it's past the high water mark, we can push in some more.
  // Also, if the push() triggered a readable event, and the user called read(largeNumber) such
  // that the read() buffer is full, then we ought to push more, so that another
  // 'readable' event will be triggered.

  function needMoreData(state) {
    if (state.needReadable)
      addChunk(stream, state, chunk, true);
    else if (state.ended)
      emitReadable(stream);
  }

  // if it's past the high water mark, we can push in some more.
  // Also, if the push() triggered a readable event, and the user called read(largeNumber) such
  // that the read() buffer is full, then we ought to push more, so that another
  // 'readable' event will be triggered.

  function needMoreData(state) {
    if (state.needReadable)
      addChunk(stream, state, chunk, true);
    else if (state.ended)
      emitReadable(stream);
  }

  // if it's past the high water mark, we can push in some more.
  // Also, if the push() triggered a readable event, and the user called read(largeNumber) such
  // that the read() buffer is full, then we ought to push more, so that another
  // 'readable' event will be triggered.
state.highWaterMark || state.length === 0);\n}\n\nReadable.prototype.isPaused = function () {\n return
this._readableState.flowing === false;\n};\n\n// backwards compatibility.\nReadable.prototype.setEncoding =
function (enc) {\n if (!StringDecoder) StringDecoder = require('string_decoder/').StringDecoder;\n
this._readableState.decoder = new StringDecoder(enc);\n this._readableState.encoding = enc;\n return
this;\n};\n\n// Don't raise the hwm > 8MB\nvar MAX_HWM = 0x800000;\nfunction
computeNewHighWaterMark(n) {\n if (n >= MAX_HWM) {\n n = MAX_HWM;\n } else {\n // Get the next
highest power of 2 to prevent increasing hwm excessively in\n // tiny amounts\n n--;\n n |= n >>> 1;\n n |= n
>>> 2;\n n |= n >>> 4;\n n |= n >>> 8;\n n |= n >>> 16;\n n++;\n }\n return n;\n}\n\n// This function is
designed to be inlinable, so please take care when making\n// changes to the function body.\nfunction
howMuchToRead(n, state) {\n if (n <= 0 || state.length === 0 && state.ended) return 0;\n if (state.objectMode)
return 1;\n if (n !== n) {\n // Only flow one buffer at a time\n if (state.flowing && state.length) return
state.buffer.head.data.length;else return state.length;\n }\n // If we're asking for more than the current hwm, then
raise the hwm.\n if (n > state.highWaterMark) state.highWaterMark = computeNewHighWaterMark(n);\n if (n <=
state.length) return n;\n // Don't have enough\n if (!state.ended) {\n state.needReadable = true;\n return 0;\n }\n
return state.length;\n}\n\n// you can override either this method, or the async _read(n)
below.\nReadable.prototype.read = function (n) {\n debug('read', n);\n n = parseInt(n, 10);\n var state =
this._readableState;\n var nOrig = n;\n\n if (n !== 0) state.emittedReadable = false;\n\n // if we're doing read(0) to
trigger a readable event, but we\n // already have a bunch of data in the buffer, then just trigger\n // the 'readable'
event and move on.\n if (n === 0 && state.needReadable && (state.length >= state.highWaterMark || state.ended))
{\n debug('read: emitReadable', state.length, state.ended);\n if (state.length === 0 && state.ended)
endReadable(this);else emitReadable(this);\n return null;\n }\n\n n = howMuchToRead(n, state);\n\n // if we've
ended, and we're now clear, then finish it up.\n if (n === 0 && state.ended) {\n if (state.length === 0)
endReadable(this);\n return null;\n }\n\n // All the actual chunk generation logic needs to be\n // *below* the call
to _read. The reason is that in certain\n // synthetic stream cases, such as passthrough streams, _read\n // may be a
completely synchronous operation which may change\n // the state of the read buffer, providing enough data
when\n // before there was *not* enough.\n //\n // So, the steps are:\n // 1. Figure out what the state of things will
be after we do\n // a read from the buffer.\n //\n // 2. If that resulting state will trigger a _read, then call _read.\n //
Note that this may be asynchronous, or synchronous. Yes, it is\n // deeply ugly to write APIs this way, but that still
doesn't mean\n // that the Readable class should behave improperly, as streams are\n // designed to be sync/async
agnostic.\n // Take note if the _read call is sync or async (ie, if the read call\n // has returned yet), so that we know
whether or not it's safe to emit\n // 'readable' etc.\n //\n // 3. Actually pull the requested chunks out of the buffer
and return.\n\n // if we need a readable event, then we need to do some reading.\n var doRead =
state.needReadable;\n debug('need readable', doRead);\n\n // if we currently have less than the highWaterMark,
then also read some\n if (state.length === 0 || state.length - n < state.highWaterMark) {\n doRead = true;\n
debug('length less than watermark', doRead);\n }\n\n // however, if we've ended, then there's no point, and if we're
already\n // reading, then it's unnecessary.\n if (state.ended || state.reading) {\n doRead = false;\n debug('reading
or ended', doRead);\n } else if (doRead) {\n debug('do read');\n state.reading = true;\n state.sync = true;\n //
if the length is currently zero, then we *need* a readable event.\n if (state.length === 0) state.needReadable =
true;\n // call internal read method\n this._read(state.highWaterMark);\n state.sync = false;\n // If _read
pushed data synchronously, then `reading` will be false,\n // and we need to re-evaluate how much data we can
return to the user.\n if (!state.reading) n = howMuchToRead(nOrig, state);\n }\n\n var ret;\n if (n > 0) ret =
fromList(n, state);else ret = null;\n\n if (ret === null) {\n state.needReadable = true;\n n = 0;\n } else {\n
state.length -= n;\n }\n\n if (state.length === 0) {\n // If we have nothing in the buffer, then we want to know\n
// as soon as we *do* get something into the buffer.\n if (!state.ended) state.needReadable = true;\n\n // If we
tried to read() past the EOF, then emit end on the next tick.\n if (nOrig !== n && state.ended)
endReadable(this);\n }\n\n if (ret !== null) this.emit('data', ret);\n\n return ret;\n};\n\nfunction onEofChunk(stream,
state) {\n if (state.ended) return;\n if (state.decoder) {\n var chunk = state.decoder.end();\n if (chunk &&
chunk.length) {\n
state.buffer.push(chunk);\n
state.length += state.objectMode ? 1 : chunk.length;\n }\n }\n

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Make sure our error handler is attached before userland ones

prependListener(dest, 'error', onerror);

// Both close and finish should trigger unpipe, but only once.
function onclose() { this._destroy(); }

dest._destroy();

// start the flow if it hasn't been started already.
if (!state.flowing) {
  debug('finish');
}

return this;

// just one destination. most common case.
if (state.pipesCount === 1) { return; }

var dest = state.pipes;
var len = state.pipesCount;
var state = this._readableState;

for (var i = 0; i < len; i++) {
  dest[i].emit('unpipe', this, unpipeInfo);
}

return this;

// slow case. multiple pipe destinations.
if (dest) {
  var index = indexOf(state.pipes, dest);
  if (index === -1) return this;

  state.pipes.splice(index, 1);
  state.pipesCount -= 1;
  if (state.pipesCount === 1) state.pipes = state.pipes[0];
}

// got a match.
state.pipes = null;
state.pipesCount = 0;
state.flowing = false;
if (dest) dest.emit('unpipe', this, unpipeInfo);

return this;

// try to find the right one.
var index = indexOf(state.pipes, dest);
if (index === -1) return this;

state.pipes[index].emit('unpipe', this, unpipeInfo);

return this;

// set up data events if they are asked for.
Ensure readable listeners eventually get something.
Readable.prototype.on = function (ev, fn) {
  var res = Stream.prototype.on.call(this, ev, fn);
  return dest;
};

function pipeOnDrain(src) {
  return function () {
    var state = src._readableState;
    debug('pipeOnDrain');
    if (state.awaitDrain) state.awaitDrain--;
    if (state.awaitDrain === 0) {
      debug('pipeResume');
      src.resume();
    }

    // tell the dest that it's being piped to.
    src.emit('pipe', dest);

    // both read and finish should trigger unpipe, but only once.
    dest.removeListener('finish', unpipe);
    dest.removeListener('close', onclose);

    function unpipe() {
      dest.emit('unpipe');
      return this;
    }

    dest.emit('unpipe');
    return this;

    // if (dest.readableListening) {
    //   dest.emit('pipe', src);
    // }

    // both read and finish should trigger unpipe, but only once.
    dest.removeListener('finish', unpipe);
    dest.removeListener('close', onclose);

    function unpipe() {
      dest.emit('unpipe');
      return this;
    }

    dest.emit('unpipe');
    return this;

    // try to find the right one.
    var index = indexOf(state.pipes, dest);
    if (index === -1) return this;

    state.pipes[index].emit('unpipe', this, unpipeInfo);

    return this;

    // set up data events if they are asked for.
Ensure readable listeners eventually get something.
Readable.prototype.on = function (ev, fn) {
  var res = Stream.prototype.on.call(this, ev, fn);
  return dest;
};

function pipeOnDrain(src) {
  return function () {
    var state = src._readableState;
    debug('pipeOnDrain');
    if (state.awaitDrain) state.awaitDrain--;
    if (state.awaitDrain === 0) {
      debug('pipeResume');
      src.resume();
    }

    // tell the dest that it's being piped to.
    src.emit('pipe', dest);

    // both read and finish should trigger unpipe, but only once.
    dest.removeListener('finish', unpipe);
    dest.removeListener('close', onclose);

    function unpipe() {
      dest.emit('unpipe');
      return this;
    }

    dest.emit('unpipe');
    return this;

    // if (dest.readableListening) {
    //   dest.emit('pipe', src);
    // }

    // both read and finish should trigger unpipe, but only once.
    dest.removeListener('finish', unpipe);
    dest.removeListener('close', onclose);

    function unpipe() {
      dest.emit('unpipe');
      return this;
    }

    dest.emit('unpipe');
    return this;

    // try to find the right one.
    var index = indexOf(state.pipes, dest);
    if (index === -1) return this;

    state.pipes[index].emit('unpipe', this, unpipeInfo);

    return this;

    // set up data events if they are asked for.
Ensure readable listeners eventually get something.
Readable.prototype.on = function (ev, fn) {
  var res = Stream.prototype.on.call(this, ev, fn);
  return dest;
};

function pipeOnDrain(src) {
  return function () {
    var state = src._readableState;
    debug('pipeOnDrain');
    if (state.awaitDrain) state.awaitDrain--;
    if (state.awaitDrain === 0) {
      debug('pipeResume');
      src.resume();
    }

    // tell the dest that it's being piped to.
    src.emit('pipe', dest);

    // both read and finish should trigger unpipe, but only once.
    dest.removeListener('finish', unpipe);
    dest.removeListener('close', onclose);

    function unpipe() {
      dest.emit('unpipe');
      return this;
    }

    dest.emit('unpipe');
    return this;

    // try to find the right one.
    var index = indexOf(state.pipes, dest);
    if (index === -1) return this;

    state.pipes[index].emit('unpipe', this, unpipeInfo);

    return this;

    // set up data events if they are asked for.
Ensure readable listeners eventually get something.
Readable.prototype.on = function (ev, fn) {
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      src.resume();
    }

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    src.emit('pipe', dest);

    // both read and finish should trigger unpipe, but only once.
    dest.removeListener('finish', unpipe);
    dest.removeListener('close', onclose);

    function unpipe() {
      dest.emit('unpipe');
      return this;
    }

    dest.emit('unpipe');
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    // try to find the right one.
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      src.resume();
    }

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    src.emit('pipe', dest);

    // both read and finish should trigger unpipe, but only once.
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    dest.removeListener('close', onclose);

    function unpipe() {
      dest.emit('unpipe');
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    }

    dest.emit('unpipe');
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    // both read and finish should trigger unpipe, but only once.
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    dest.removeListener('close', onclose);

    function unpipe() {
      dest.emit('unpipe');
      return this;
    }

    dest.emit('unpipe');
    return this;

    // try to find the right one.
    var index = indexOf(state.pipes, dest);
    if (index === -1) return this;

    state.pipes[index].emit('unpipe', this, unpipeInfo);

    return this;
stream mark the writable part as destroyed as well

if (this._writableState) {
  this._writableState.destroyed = true;
  function (err) {
    if (cb && err) cb(err);
    return this;
  }
}

if (!this._writableState) {
  return this;
}

function undestroy() {
  if (this._readableState) {
    this._readableState.destroyed = false;
    this._readableState.reading = false;
    this._readableState.ended = false;
    this._readableState.endEmitted = false;
  }
  if (this._writableState) {
    this._writableState.destroyed = false;
    this._writableState.finished = false;
    this._writableState.errorEmitted = false;
    this._writableState.ended = false;
    this._writableState.ending = false;
    this._writableState.finished = false;
    this._writableState.errorEmitted = false;
    this._writableState.ended = false;
    this._writableState.NET(err, err);
  }
}

function emitErrorNT(self, err) {
  self.emit('error', err);
}

function cleanupFunction(err) {
  if (!err) return;
  if (this._writableState) {
    this._writableState.errorEmitted = true;
  }
  emitErrorNT(this);
  this._destroy(err || null, function (err) {
    if (!cb && err) {
      pna.nextTick(emitErrorNT, this, err);
      if (this._writableState) {
        this._writableState.errorEmitted = true;
      }
    } else if (cb) {
      cb(err);
    }
  });
}

function _destroy(err, cb) {
  if (cb) {
    cb(err);
  }
}

/*<replacement>*/
var Buffer = require('safe-buffer').Buffer;
/*</replacement>*/

var isEncoding = Buffer.isEncoding || function (encoding) {
  encoding = '' + encoding;
  switch (encoding && encoding.toLowerCase()) {
    case 'hex': case 'utf8': case 'utf-8': case 'ascii': case 'binary':
    case 'base64': case 'ucs2': case 'ucs-2': case 'utf16le': case 'utf-16le':
    case 'raw':
      return true;
    default:
      return false;
  } in function _normalizeEncoding(enc) {
  if (!enc) return 'utf8';
  var retried;
  while (true) {
    switch (enc) {
      case 'utf8': case 'utf-8':
      case 'ascii':
      case 'binary': case 'base64': case 'ucs2': case 'ucs-2':
        var err = new Error);
      case 'utf16le': case 'utf-16le':
      return true;
    }
  } in function normalizeEncoding(ENC) {
  if (ENC) return 'utf8';
  while (true) {
    switch (ENC) {
      case 'utf8': case 'utf-8':
      var err = new Error);
      case 'latInt1': case 'binary':
        return 'utf16le';
      case 'base64':
        return 'ascii';
      case 'hex':
        return true;
    } in function cleanupFunction(err) {
  if (!err) return;
  if (this._writableState) {
    this._writableState.errorEmitted = true;
  }
  emitErrorNT(this);
  this._destroy(err || null, function (err) {
    if (!cb && err) {
      pna.nextTick(emitErrorNT, this, err);
      if (this._writableState) {
        this._writableState.errorEmitted = true;
      }
    } else if (cb) {
      cb(err);
    }
  });
}

function _destroy(err, cb) {
  if (cb) {
    cb(err);
  }
}

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var Buffer = require('safe-buffer').Buffer;
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    case 'raw':
      return true;
    default:
      return false;
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  if (!enc) return 'utf8';
  var retried;
  while (true) {
    switch (enc) {
      case 'utf8': case 'utf-8':
      case 'ascii':
      case 'binary': case 'base64':
        var err = new Error);
      case 'utf16le': case 'utf-16le':
      return true;
    }
  } in function cleanupFunction(err) {
  if (!err) return;
  if (this._writableState) {
    this._writableState.errorEmitted = true;
  }
  emitErrorNT(this);
  this._destroy(err || null, function (err) {
    if (!cb && err) {
      pna.nextTick(emitErrorNT, this, err);
      if (this._writableState) {
        this._writableState.errorEmitted = true;
      }
    } else if (cb) {
      cb(err);
    }
  });
}

function _destroy(err, cb) {
  if (cb) {
    cb(err);
  }
}
number of bytes available, we need to check if we end on a leading/high
// surrogate. In that case, we need to wait
for the next two bytes in order to decode the last character properly. In function utf16Text(buf, i) {\n  if ((buf.length - i) % 2 !== 0) {\n    var r = buf.toString('utf16le', i);\n    if (r) {\n      var c = r.charCodeAt(r.length - 1);\n      if (c >= 0xD800 && c <= 0xDBFF) {\n        this.lastNeed = 2;\n        this.lastTotal = 4;\n      }\n    }\n  }\n  if (buf.length - i % 2 === 0) {\n    var r = buf.toString('utf16le', i);
    if (r) {\n      var c = r.charCodeAt(r.length - 1);
      if (c >= 0xD800 && c <= 0xDBFF) {\n        this.lastNeed = 2;\n        this.lastTotal = 4;\n      }\n    }\n  }\n  return r;\n}\nthis.lastNeed = 1;\nthis.lastTotal = 2;\nthis.lastChar[0] = buf[buf.length - 2];\nthis.lastChar[1] = buf[buf.length - 1];\nreturn r.slice(0, -1);\n}

// For UTF-16LE we do not explicitly append special replacement
characters if we end on a partial character, we simply let v8 handle that.
function utf16End(buf) {\n  var r = buf && buf.length ? this.write(buf) : '';\n  if (this.lastNeed) return r + this.lastChar.toString('utf16le', 0, end);\n  return r;\n}\n
function base64Text(buf, i) {\n  var n = (buf.length - i) % 3;\n  if (n === 0) return buf.toString('base64', i);
  this.lastNeed = 3 - n;\n  this.lastTotal = 3;\n  if (n === 1) {\n    this.lastChar[0] = buf[buf.length - 1];\n  } else {\n    this.lastChar[0] = buf[buf.length - 2];\n    this.lastChar[1] = buf[buf.length - 1];\n  }\n  return buf.toString('base64', i, buf.length - n);\n}\n
function base64End(buf) {\n  var r = buf && buf.length ? this.write(buf) : '';\n  if (this.lastNeed) return r + this.lastChar.toString('base64', 0, 3 - this.lastNeed);\n  return r;\n}\n
// Pass bytes on through for single-byte encodings (e.g. ascii, latin1, hex).
function simpleWrite(buf) {\n  return buf.toString(this.encoding);\n}\n
function simpleEnd(buf) {\n  return buf && buf.length ? this.write(buf) : '';\n}\n
// Copyright Joyent, Inc. and other Node contributors.\n//
// Permission is hereby granted, free of charge, to any person obtaining a
// copy of this software and associated documentation files (the\n// "Software"), to deal in the Software without restriction, including\n// without limitation the rights to use, copy, modify, merge, publish,\n// distribute, sublicense, and/or sell copies of the Software, and to permit\n// persons to whom the Software is furnished to do so, subject to the\n// following conditions:\n// The above copyright notice and this permission notice shall be included\n// in all copies or substantial portions of the Software.\n//\n// THE SOFTWARE IS PROVIDED \"AS IS\", WITHOUT WARRANTY OF ANY KIND,\n// EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF\n// MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN\n// NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM,\n// DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR\n// OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE\n// USE OR OTHER DEALINGS IN THE SOFTWARE.\n//\n// a transform stream is a readable/writable stream where you do\n// something with the data. Sometimes it\'s called a \"filter\",\n// but that\'s not a great name for it, since that implies a thing where\n// some bits pass through, and others are simply ignored. (That would\n// be a valid example of a transform, of course.)\n//\n// While the output is causally related to the input, it\'s not symmetric\n// or synchronous transformation. For example,\n// a zlib stream might take multiple plain-text writes(), and then\n// emit a single compressed chunk some time in the future.\n//\n// The Transform stream has all the aspects of the\n// readable and writable\n// stream classes. When you write(chunk), that calls _write(chunk,cb)\n// internally, and\n// returns false if there\'s a lot of pending writes\n// buffered up. When you call read(), that calls _read(n) until\n// there\'s enough pending readable data buffered up.\n// In a transform stream, the written data is placed in a buffer.\n// When\n// _read(n) is called, it transforms the queued up data, calling the\n// buffered _write cb\'s as it consumes\n// chunks. If consuming a single\n// written chunk would result in multiple output chunks, then the first\n// outputted\n// bit calls the readcb, and subsequent chunks just go into the\n// read buffer, and will cause it to emit \"readable\" if\n// necessary.\n//\n// This way, back-pressure is actually determined by the reading side.\n// since _read has to be called\n// to start processing a new chunk. However,\n// a pathological inflate type of transform can cause excessive\n// buffering\n// here. For example, imagine a stream where every byte of input is\n// interpreted as an integer from 0-255, and then results in that many\n// bytes of output. Writing the 4 bytes \{ff,ff,ff,ff\} would result in\n// 1kb of data\n// being output. In this case, you could write a very small\n// amount of input, and end up with a very large amount of\n// output.\n//\n// such a pathological inflating mechanism, there\'d be no way to tell the\n// system to stop doing the\n// transform. A single 4MB write could\n// cause the system to run out of memory.\n//\n// However, even in such a pathological case, only a single written chunk\n// would be consumed, and then the rest would wait (un-transformed)
until

the results of the previous transformed chunk were consumed.

Transform

isValue

forEach

process

module.exports =

Transform

var Duplex = require('/_stream_duplex');

var _stream_duplex

util.inherits = require('inherits');

Transform, Duplex

function afterTransform(er, data) {
  var ts = this._transformState;
  ts.transforming = false;

  var cb = ts.writecb;

  if (cb)
    cb(return this.emit('error', new Error('write callback called multiple times')));

  if (ts.writechunk == null)
    return null;

  if (data != null)
    single equals check for both 'null' and 'undefined'

  this.push(data);

  cb(er);

  var rs = this._readableState;
  rs.reading = false;

  if (rs.needReadable || rs.length < rs.highWaterMark)
    this._read(rs.highWaterMark);

  if (!this.instanceof Transform)
    return new Transform(options);

  Duplex.call(this, options);

  this._transformState = {
    afterTransform: afterTransform.bind(this),
    needTransform: false,
    transforming: false,
    writecb: null,
    writechunk: null,
    writeencoding: null
  };

  // start out asking for a readable event once data is transformed.

  if (this._readableState.readableState != false)
    return Duplex.prototype.push.call(this, chunk, encoding);

  // This is the part where you do stuff! // override this function in implementation classes.

  chunk is an input chunk.

  Call push(newChunk) to pass along transformed output to the readable side. You may call push' zero or more times.

  if (stream._writableState.length)
    throw new Error('Calling transform done when ws.length != 0');

  if (stream._transformState.transforming)
    throw new Error('Calling transform done when still transforming');

  return stream.push(null);
}

module.exports = function (opts1 /*, …options*/) {
  var result = create(null);

  forEach.call(arguments, function (options) {
    if (!isValue(options)) return;
    process(Object(options), result);
  });

  return result;

  "use strict";

  function opts1 /*, …options*/ {
    var result = create(null);

    forEach.call(arguments, function (options) {
      if (isValue(options)) return;
      process(Object(options), result);
    });

    return result;

    "use strict";

    if (stream.writableState.length) throw new Error('Calling transform done when ws.length != 0');

    if (stream._transformState.transforming) throw new Error('Calling transform done when still transforming');

    return stream.push(null);

    "use strict";

    return function () {
      return result;
    };

    "use strict";

    return opts1 /*, …options*/;
  }

  return result;
}

function afterTransform(bindthis, needTransform: false, transforming: false, writecb: null, writechunk: null, writeencoding: null) {
  // we have implemented the _read method, and done the other things

  if (this._readableState.readableState != false)
    return Duplex.prototype.push.call(this, chunk, encoding);

  // This is the part where you do stuff! // override this function in implementation classes.

  chunk is an input chunk.

  Call push(newChunk) to pass along transformed output to the readable side. You may call push' zero or more times.

  if (stream._writableState.length)
    throw new Error('Calling transform done when ws.length != 0');

  if (stream._transformState.transforming)
    throw new Error('Calling transform done when still transforming');

  return stream.push(null);
}

module.exports = function (optsLength, fnLength, isAsync) {
  var length;

  if (isNaN(optsLength)) {
    length = fnLength;
    if (!(length >= 0)) return 1;

    if (isAsync && length)
      return length - 1;

    result.length = fnLength - 1;
  }

  return result;

  "use strict";

  module.exports = function () {};

  "use strict";

  require('es5-ext/number/to-pos-integer');

  module.exports = function (optsLength)

  (fnLength: number) return 1;

  if (isAsync && length)
    return length - 1;

  module.exports = function (optsLength == false) return false;
var toPosInt = require('number/to-integer')

var test = function (arg1, arg2) {
  return arg2;
}

var desc, defineProperty, generate, mixin;

try {
  Object.defineProperty(test, "length", {
    configurable: true,
    writable: false,
    enumerable: false,
    value: 1
  });
} catch (ignore) {}

if (test.length === 1) {
  // ES6
  desc = {
    configurable: true, writable: false, enumerable: false
  };
  defineProperty = Object.defineProperty;
  module.exports = function (fn, length) {
    length = toPosInt(length);
    if (fn.length === length) return fn;
    desc.value = length;
    return defineProperty(fn, "length", desc);
  }
} else {
  mixin = require('../object/mixin');
  generate = (function () {
    var cache = [];
    return function (length) {
      var args, i = 0;
      while (length--) args.push("a" + (++i).toString(36));
      return new Function(
        "fn", "return function (" + args.join(", ") + ") { return fn.apply(this, arguments); 
      };
    });
  })();
  module.exports = function (src, length) {
    var target;
    length = toPosInt(length);
    if (src.length === length) return src;
    target = generate(length)(src);
    try {
      mixin(target, src);
    } catch (ignore) {}
    return target;
  }
}

var callable = require('./valid-callable')
  , forEach = require('./for-each')
  , call = Function.prototype.call;

module.exports = function (obj, cb /*, thisArg*/) {
  var result = {}, thisArg = arguments[2];
  callable(cb);
  forEach(obj, function (value, key, targetObj, index) {
    result[key] = call.call(cb, thisArg, value, key, targetObj, index);
  });
  return result;
};

/**
 * A JavaScript implementation of the Secure Hash Algorithm, SHA-256, as defined in FIPS 180-2
 * Other contributors: Greg Holt, Andrew Kepert, Ydnar, Lostinet
 * require('inherits')(Sha256);
 * var Sha256 = require('./sha256').Sha256
 * var K = require('safe-buffer').Buffer
 */

var inherits = require('inherits')
var Hash = require('./hash')
var Buffer = require('safe-buffer').Buffer

var K = [
  0x428a2f98, 0x71374491, 0xb5c0fbcf, 0xe9b5dba5,
  0x3956c25b, 0x59f111f1, 0x923f82a4, 0xab1c5ed5,
  0xd807aa98, 0x12835b01, 0x243185be, 0x550c7dc3,
  0x72be5d74, 0x80debf97, 0xa2bfe8a1, 0xb8c26804,
  0xc70116c4, 0xda2c4f5b, 0xe9966a61, 0xf3b8c9e5,
  0x1402afff, 0x271aa9a8, 0x38b53df1, 0x4ac04250,
  0x5ebdca3b, 0x75be68a6, 0x869af7de, 0x9a8d26de,
  0xaeb4c354, 0xbd71aa37, 0xc67178f2, 0xda2c4f5b
]

var W = new Array(64)

function Sha256 () {
  this.init()

  this._w = W // new Array(64)

  Hash.call(this, 64, 56)
}

inherits(Sha256, Hash)

Sha256.prototype.init = function () {
  this._a = 0x6a09e667
  this._b = 0xbb67ae85
  this._c = 0x3c6ef372
  this._d = 0xa54ff53a
  this._e = 0x510e527f
  this._f = 0x9b05688c
  this._g = 0x1f83d9ab
  this._h = 0x5be0cd19

  return this
}

function ch (x, y, z) {
  return z ^ (x & (y ^ z))
}

function maj (x, y, z) {
  return (x & y) | (z & (x | y))
}

function sigma0 (x) {
  return (x >>> 2 | x << 30) ^ (x >>> 13 | x << 19) ^ (x >>> 22 | x << 10)
}

function sigma1 (x)
(\text{un return } (x \gg 6 | x < 26) ^ (x \gg 11 | x < 21) ^ (x \gg 25 | x < 7) | un) \text{unfunction gamma0} (x, 0) \text{un return } (x \gg 7 | x < 25) ^ (x \gg 18 | x < 14) ^ (x \gg 3) | un) \text{unfunction gamma1} (x, 0) \text{un return } (x \gg 17 | x < 15) ^ (x \gg 13 | x < 13) ^ (x \gg 10 | un) \text{unSha256.prototype._update} = \text{function} (M) \text{un var W = this._w | un} \text{var a = this._a | 0} \text{un var b = this._b | 0} \text{un var c = this._c | 0} \text{un var d = this._d | 0} \text{un var e = this._e | 0} \text{un var f = this._f | 0} \text{un var g = this._g | 0} \text{un var h = this._h | 0} \text{un for } (i = 0; i < 64; +++) \text{W[i] = M.readInt32BE(i * 4) \text{for } (i < 64; +++) \text{W[i] = (gamma1(W[i - 2]) + W[i - 7] + gamma0(W[i - 15]) + W[i - 16]) \text{for } (i = 0; i < 64; ++i) \text{0} \text{un var T1 = (h + sigma1(e) + c + (e, f, g) + K[i] + W[j]) | 0} \text{un var T2 = (sigma0(a) + maj(a, b, c)) | 0} \text{un h = h ^ e ^ n = g | 0} \text{un f = e ^ n = c (d + T1) | 0} \text{un d = d ^ e ^ n = a = (T1 + T2) | 0} \text{un this._a = (a + this._a) | 0} \text{un this._b = (b + this._b) | 0} \text{un this._c = (c + this._c) | 0} \text{un this._d = (d + this._d) | 0} \text{un this._e = (e + this._e) | 0} \text{un this._f = (f + this._f) | 0} \text{un this._g = (g + this._g) | 0} \text{un this._h = (h + this._h) | 0} \text{unSha256.prototype._hash} = \text{function } () \text{un var H = Buffer.allocUnsafe(32 | un) \text{H.writeSha32Be(this._a, 0) \text{H.writeSha32Be(this._b, 0) \text{H.writeSha32Be(this._c, 0) \text{H.writeSha32Be(this._d, 0) \text{H.writeSha32Be(this._e, 0) \text{H.writeSha32Be(this._f, 0) \text{H.writeSha32Be(this._g, 24) \text{H.writeSha32Be(this._h, 28) \text{un return } H | un) \text{unmodule.exports = Sha256
  var inherits = require('inherits') \text{var Hash = require('./hash') \text{var Buffer = require('safe-b...
```javascript
function writeInt64BE (h, l, offset) {
    H.writeInt32BE(h, offset)
    H.writeInt32BE(l, offset + 4)
}

module.exports = new Schema({
    include: [
        require('./json')
    ],
    implicit: [
        require('../type/null'),
        require('../type/bool'),
        require('../type/int'),
        require('../type/float')
    ]
});
```

This page contains code related to the implementation of a hash function, specifically for a variant of SHA-512. The code includes functions for manipulating variables and performing operations such as writing integers to a buffer and performing calculations. The variables and functions are declared and initialized with specific values and operations are performed on these variables. The code snippet also includes imports and requires specific modules for its functionality.
BpZD0iUGF0aF8yOTY2IiBkYXRhLW5hbWU9IlBhdGggMjk2NiIgY2xhc3M9ImNscy0yIiBkPSJNMjIwLjcxMiw
xMDEuNTM0YTMuNDM1LDMuNDM1LDAsMCwxLDIuODI3LDEuMjQzLDYuNjUzLDYuNjUzLDAsMCwxL
S4wMDksNy4wNTMsMy40MTcsMy40MTcsMCwwLDEtMi44MTgsMS4yNiw0LDQsMCwwLDEtMS42NDgtLj
MzMywzLjA5NCwzLjA5NCwwLDAsMS0xLjI1MS0xLjAyM2gtLjFsLS4yOTUsMS4xODhoLTFWOTcuODA5a
DEuNFYxMDFxMCwxLjA2OS0uMDY4LDEuOTIxaC4wNjhhMy4zMjIsMy4zMjIsMCwwLDEsMi44OTQtMS4z
ODdabS0uMiwxLjE3MWEyLjQ0LDIuNDQsMCwwLDAtMi4wNjQuODIyLDYuMzM4LDYuMzM4LDAsMCw
wLC4wMTcsNS41NTMsMi40NjQsMi40NjQsMCwwLDAsMi4wODEuODM5LDIuMTU4LDIuMTU4LDAsMCw
wLDEuOTIyLS45NCw0LjgyOCw0LjgyOCwwLDAsMCwuNjMyLTIuNyw0LjY0NSw0LjY0NSwwLDAsMC0uN
jMyLTIuNjg5LDIuMjQyLDIuMjQyLDAsMCwwLTEuOTU5LS44ODVaIi8+DQogICAgICA8cGF0aCBpZD0iUG
F0aF8yOTY3IiBkYXRhLW5hbWU9IlBhdGggMjk2NyIgY2xhc3M9ImNscy0yIiBkPSJNMjI1Ljc1OCwxMDEuNj
g2aDEuNWwyLjAyMyw1LjI2N2EyMC4xODgsMjAuMTg4LDAsMCwxLC44MjYsMi42aC4wNjdxLjEwOS0uN
DMxLjQ1OS0xLjQ3MXQyLjI4OC02LjRoMS41TDIzMC40NTIsMTEyLjJhNS4yNTMsNS4yNTMsMCwwLDEt
MS4zNzgsMi4yMTIsMi45MzIsMi45MzIsMCwwLDEtMS45MzQuNjUzLDUuNjU5LDUuNjU5LDAsMCwxLTEu
MjY0LS4xNDNWMTEzLjhhNC45LDQuOSwwLDAsMCwxLjAzNy4xLDIuMTM2LDIuMTM2LDAsMCwwLDI
uMDU2LTEuNjE4bC41MTQtMS4zMTRaIi8+DQogICAgPC9nPg0KICA8L2c+DQo8L3N2Zz4NCg==\"","var
arrayWithHoles = require(\"./arrayWithHoles\");\n\nvar iterableToArrayLimit =
require(\"./iterableToArrayLimit\");\n\nvar unsupportedIterableToArray =
require(\"./unsupportedIterableToArray\");\n\nvar nonIterableRest = require(\"./nonIterableRest\");\n\nfunction
_slicedToArray(arr, i) {\n return arrayWithHoles(arr) || iterableToArrayLimit(arr, i) ||
unsupportedIterableToArray(arr, i) || nonIterableRest();\n}\n\nmodule.exports = _slicedToArray;","'use
strict';\n\nvar invalidPrototcolRegex = /^(%20|\\s)*(javascript|data)/im;\nvar ctrlCharactersRegex = /[^\\x20\\x7E]/gmi;\nvar urlSchemeRegex = /^([^:]+):/gm;\nvar relativeFirstCharacters = ['.', '/'];\n\nfunction
isRelativeUrlWithoutProtocol(url) {\n return relativeFirstCharacters.indexOf(url[0]) > -1;\n}\n\nfunction
sanitizeUrl(url) {\n var urlScheme, urlSchemeParseResults, sanitizedUrl;\n\n if (!url) {\n return 'about:blank';\n
}\n\n sanitizedUrl = url.replace(ctrlCharactersRegex, '').trim();\n\n if (isRelativeUrlWithoutProtocol(sanitizedUrl))
{\n return sanitizedUrl;\n }\n\n urlSchemeParseResults = sanitizedUrl.match(urlSchemeRegex);\n\n if
(!urlSchemeParseResults) {\n return sanitizedUrl;\n }\n\n urlScheme = urlSchemeParseResults[0];\n\n if
(invalidPrototcolRegex.test(urlScheme)) {\n return 'about:blank';\n }\n\n return
sanitizedUrl;\n}\n\nmodule.exports = {\n sanitizeUrl: sanitizeUrl\n};\n","var capitalize = require('./capitalize'),\n
createCompounder = require('./_createCompounder');\n\n/**\n * Converts `string` to [camel
case](https://en.wikipedia.org/wiki/CamelCase).\n *\n * @static\n * @memberOf _\n * @since 3.0.0\n * @category
String\n * @param {string} [string=''] The string to convert.\n * @returns {string} Returns the camel cased string.\n
* @example\n *\n * _.camelCase('Foo Bar');\n * // => 'fooBar'\n *\n * _.camelCase('--foo-bar--');\n * // =>
'fooBar'\n *\n * _.camelCase('__FOO_BAR__');\n * // => 'fooBar'\n */\nvar camelCase =
createCompounder(function(result, word, index) {\n word = word.toLowerCase();\n return result + (index ?
capitalize(word) : word);\n});\n\nmodule.exports = camelCase;\n","var createFind = require('./_createFind'),\n
findIndex = require('./findIndex');\n\n/**\n * Iterates over elements of `collection`, returning the first element\n *
`predicate` returns truthy for. The predicate is invoked with three\n * arguments: (value, index|key, collection).\n *\n
* @static\n * @memberOf _\n * @since 0.1.0\n * @category Collection\n * @param {Array|Object} collection The
collection to inspect.\n * @param {Function} [predicate=_.identity] The function invoked per iteration.\n * @param
{number} [fromIndex=0] The index to search from.\n * @returns {*} Returns the matched element, else
`undefined`.\n * @example\n *\n * var users = [\n * { 'user': 'barney', 'age': 36, 'active': true },\n * { 'user': 'fred',
'age': 40, 'active': false },\n * { 'user': 'pebbles', 'age': 1, 'active': true }\n * ];\n *\n * _.find(users, function(o) {
return o.age < 40; });\n * // => object for 'barney'\n *\n * // The `_.matches` iteratee shorthand.\n * _.find(users, {
'age': 1, 'active': true });\n * // => object for 'pebbles'\n *\n * // The `_.matchesProperty` iteratee shorthand.\n *
_.find(users, ['active', false]);\n * // => object for 'fred'\n *\n * // The `_.property` iteratee shorthand.\n *
_.find(users, 'active');\n * // => object for 'barney'\n */\nvar find = createFind(findIndex);\n\nmodule.exports =
find;\n","var arraySome = require('./_arraySome'),\n baseIteratee = require('./_baseIteratee'),\n baseSome =

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objects and their keys. For (var oindex = 0; oindex < objects.length; oindex++) {
    for (var kindex = 0; kindex < keys.length; kindex++) {
        var object = objects[oindex];
        var key = keys[kindex];
        var value = object[key];
        var type = getTypeOf(value);

        for (var kindex = 0; kindex < keys.length; kindex++) {
            var key = keys[kindex];
            var value = object[key];
            var type = getTypeOf(value);

            if (type === 'object') {
                if (existingValue !== 'undefined') {
                    var existingValue = existingValueType === 'object' ? output[key] : {};
                    output[key] = executeDeepMerge({}, [existingValue, quickCloneObject(value)], options);
                } else {
                    output[key] = quickCloneObject(value);
                }
            } else if (type === 'array') {
                if (existingValueType === 'array') {
                    var newValue = quickCloneArray(value);
                    output[key] = options.arrayBehaviour === 'merge' ? output[key].concat(newValue) : newValue;
                } else {
                    output[key] = quickCloneArray(value);
                }
            } else {
                output[key] = value;
            }
        }
    }
}

/*
 * Merge all the supplied objects into the target object, breaking all references, including those of
 * nested objects * and arrays, and even objects nested inside arrays. The first parameter is not mutated unlike
 * Object.assign().
 */
module.exports = function objectAssignDeep(target) {
    for (var _len = arguments.length, objects = Array(_len > 1 ? _len - 1 : 0), _key = 1; _key < _len; _key++) {
        objects[_key - 1] = arguments[_key];
    }

    return executeDeepMerge(target, objects);
};

/*
 * Same as objectAssignDeep() except it doesn't mutate the target object and returns an entirely new object.
 */
module.exports.noMutate = function objectAssignDeepInto() {
    for (var _len2 = arguments.length, objects = Array(_len2), _key2 = 0; _key2 < _len2; _key2++) {
        objects[_key2] = arguments[_key2];
    }

    return executeDeepMerge({}, objects);
};

/*
 * Allows an options object to be passed in to customise the behaviour of the function.
 */
module.exports.withOptions = function objectAssignDeepInto(target, objects, options) {
    return executeDeepMerge(target, objects, options);
};
```javascript
const swagger2SchemaKeys = Im.Set.of(
  "type",
  "format",
  "items",
  "default",
  "maximum",
  "exclusiveMaximum",
  "minimum",
  "exclusiveMinimum",
  "maxLength",
  "minLength",
  "pattern",
  "maxItems",
  "minItems",
  "uniqueItems",
  "enum",
  "multipleOf",
  "@type",
  "@ref"
)

/**
 * Get the effective schema value for a parameter, or an empty Immutable.Map if
 * no suitable schema can be found. * Supports OpenAPI 3.0 `Parameter.content` priority -- since a Parameter
 * Object can't have both `schema` and `content`, this function ignores `schema` when `* content` is present.*
 * @param {Immutable.Map} parameter The parameter to identify a schema for
 * @param {boolean} config * @param {boolean} config.isOAS3 Whether the parameter is from an OpenAPI 2.0 or OpenAPI 3.0 definition
 * @return {ParameterSchemaDescriptor} Information about the parameter schema
 */
export default function getParameterSchema(parameter, { isOAS3 } = {}) {
  // Return empty Map if `parameter` isn't a Map
  if (!Im.Map.isMap(parameter)) {
    return {
      schema: Im.Map(),
      parameterContentMediaType: null,
    }
  }

  if (!isOAS3) {
    // Swagger 2.0
    if (parameter.get("in") === "body") {
      return {
        schema: parameter.get("schema", Im.Map()),
        parameterContentMediaType: null,
      }
    } else {
      return {
        schema: parameter.filter((v, k) => swagger2SchemaKeys.includes(k)),
        parameterContentMediaType: null,
      }
    }
  }

  // If we've reached here, the parameter is OpenAPI 3.0

  if (parameter.get("content")) {
    const parameterContentMediaTypes = parameter
      .get("content", Im.Map({}))
      .keySeq()

    const parameterContentMediaType = parameterContentMediaTypes.first()

    return {
      schema: parameter.getIn(
        ["content", parameterContentMediaType, "schema"],
        Im.Map()
      ),
      parameterContentMediaType: parameterContentMediaTypes.first(),
      parameterContentMediaType: null,
    }
  }

  return {
    schema: parameter.get("schema", Im.Map()),
    parameterContentMediaType: null,
  }
}
```

```javascript
const oldBrowser = () {
  throw new Error('Secure random number generation is not supported by this browser. Use Chrome, Firefox or Internet Explorer 11')
}

var crypto = global.crypto || global.msCrypto

if (crypto && crypto.getRandomValues) {
  module.exports = randomBytes
} else {
  module.exports = oldBrowser
}

function randomBytes (size, cb) {
  // phantomjs needs to throw
  if (size > MAX_UINT32) throw new RangeError('requested too many random bytes')

  var bytes = Buffer.allocUnsafe(size)

  if (size > 0) {  // getRandomValues fails on IE if size == 0
    if (size > MAX_BYTES) { // this is the max bytes crypto.getRandomValues
      // can do at once see
    }
    else {
      crypto.getRandomValues(bytes.slice(0, size))
    }
  }

  if (typeof cb === 'function')
    return process.nextTick(function () {
      cb(null, bytes)
    })

  return bytes
}
```

```javascript
var exports = module.exports = function SHA (algorithm) {
  algorithm = algorithm.toLowerCase()

  var Algorithm = exports[algorithm]
  if (!Algorithm) throw new Error(algorithm + ' is not supported (we accept pull requests)')

  return new Algorithm()
}

exports.sha = require('./sha')
exports.sha1 = require('./sha1')
exports.sha224 = require('./sha224')
exports.sha256 = require('./sha256')
exports.sha384 = require('./sha384')
exports.sha512 = require('./sha512')
```

```javascript
var yaml = require('./lib/js-yaml.js');

module.exports = yaml;
```
var $Object = require('./._modules/_core').Object;
module.exports = function defineProperty(it, key, desc) {
  return $Object.defineProperty(it, key, desc);
};

var $export = require('./_export');
module.exports = function create(P, D) {
  return $Object.create(P, D);
};

var $export = require('./_export');
module.exports = require('./_object-create');

var $Object = require('./._modules/_core').Object;
module.exports = function setPrototypeOf(O, proto) {
  O.__proto__ = proto;
  return O;
};

var _Object$setPrototypeOf = require('./._modules/_core/object/set-prototype-of');
function _setPrototypeOf(o, p) {
  module.exports = _setPrototypeOf = _Object$setPrototypeOf || function _setPrototypeOf(o, p) {
    o.__proto__ = p;
    return o;
  }; return _setPrototypeOf(o, p);
}

module.exports = _setPrototypeOf;
missing metadata

```
setMeta(it); return it[META].i;
```

```
var getWeak = function (it, create) {
  var id;
  // if (isFreeze(it, META)) return true;
  // not necessary to add metadata
  if (!create) return false;
  // add missing metadata
  setMeta(it);
  return hash weak collections ID

  var result = getKeys(it);
  var getSymbols = gOPS.f;
  if (getSymbols) {
    var symbols = getSymbols(it);
    var length = pIE.f;
    return result;
  }
  // fallback for IE11 buggy
  Object.getOwnPropertyNames with iframe and window
  var toObject = require('./lib/Object/toObject');
  var gOPN = require('./lib/Object/getOwnPropertyNames');
```

```
/**
 * Copyright (c) 2013-present, Facebook, Inc.
 *
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 * LICENSE file in the root directory of this source tree.
 *
 */

'use strict';

var _assign = require('object-assign');

var ReactBaseClasses = require('./ReactBaseClasses');
var ReactChildren = require('./ReactChildren');
var ReactDOMFactories = require('./ReactDOMFactories');
var ReactElement = require('./ReactElement');
var ReactPropTypes = require('./ReactPropTypes');
var ReactVersion = require('./ReactVersion');

var createReactClass = require('./createClass');
var onlyChild = require('./onlyChild');

var createElement = ReactElement.createElement;
var createFactory = ReactElement.createFactory;
var cloneElement = ReactElement.cloneElement;

if (process.env.NODE_ENV !== 'production') {
  var lowPriorityWarning = require('./lowPriorityWarning');
  var canDefineProperty = require('./canDefineProperty');
  var ReactElementValidator = require('./ReactElementValidator');
  var didWarnPropTypesDeprecated = false;
  createElement = ReactElementValidator.createElement;
  createFactory = ReactElementValidator.createFactory;
}

var React = {
  // Modern

  Children: {
    map: ReactChildren.map,
    forEach: ReactChildren.forEach,
    count: ReactChildren.count,
    toArray: ReactChildren.toArray,
    only: onlyChild
  },

  Component: ReactBaseClasses.Component,
  PureComponent: ReactBaseClasses.PureComponent,

  createElement: createElement,
  cloneElement: cloneElement,
  isValidElement: ReactElement.isValidElement,

  // Classic

  PropTypes: ReactPropTypes,
  createClass: createReactClass,
  createFactory: createReactFactory
```
createMixin,

  // This looks DOM specific but these are actually isomorphic helpers
  // since they are just generating DOM strings.
  DOM: ReactDOMFactories,

  version: ReactVersion,

  // Deprecated hook for JSX spread, don't use this for anything.
  __spread: __spread
};

if (process.env.NODE_ENV !== 'production') {
  var warnedForCreateClass = false;
  if (canDefineProperty) {
    Object.defineProperty(React, 'PropTypes', {
      get: function () {
        lowPriorityWarning(didWarnPropTypesDeprecated, 'Accessing PropTypes via the main React package is deprecated,' + ' and will be removed in React v16.0.' + ' Use the latest available v15.* propTypes package from npm instead.' + ' + For info on usage, compatibility, migration and more, see ' + 'https://fb.me/prop-types-docs');
        didWarnPropTypesDeprecated = true;
        return ReactPropTypes;
      }
    });
    Object.defineProperty(React, 'createClass', {
      get: function () {
        lowPriorityWarning(warnedForCreateClass, 'Accessing createClass via the main React package is deprecated,' + ' and will be removed in React v16.0.' + ' Use a plain JavaScript class instead. If you're not yet v16.0 + ready to migrate,' + ' create-react-class v15.* is available ' + ' + on npm as a temporary, drop-in replacement.' + ' + For more info see ' + 'https://fb.me/react-create-class');
        warnedForCreateClass = true;
        return createReactClass;
      }
    });
    React.DOM = {};
    var warnedForFactories = false;
    Object.keys(ReactDOMFactories).forEach(function (factory) {
      React.DOM[factory] = function () {
        if (!warnedForFactories) {
          lowPriorityWarning(false, 'Accessing factories like React.DOM.%s has been deprecated ' + 'and will be removed in v16.0+. Use the ' + 'react-dom-factories package instead. ' + ' Version 1.0 provides a drop-in replacement.' + ' For more info, see ' + 'https://fb.me/react-dom-factories', factory);
          warnedForFactories = true;
        }
        return ReactDOMFactories[factory].apply(ReactDOMFactories, arguments);
      };
    });
  }

  module.exports = React;
callbacks.

```javascript
function ForEachBookKeeping(forEachFunction, forEachContext) {
  this.func = forEachFunction;
  this.context = forEachContext;
  this.count = 0;
}

function forEachSingleChild(bookKeeping, child, name) {
  var func = bookKeeping.func;
  var context = bookKeeping.context;
  func.call(context, child, bookKeeping.count++);
}

function forEachChildren(children, forEachFunc, forEachContext) {
  if (children == null) {
    return children;
  }
  var traverseContext = ForEachBookKeeping.getPooled(forEachFunc,
    forEachContext);
  traverseAllChildren(children, forEachSingleChild, traverseContext);
  ForEachBookKeeping.release(traverseContext);
}

function mapChildren(children, func, context) {
  if (children == null) {
    return children;
  }
  var result = [];
  mapIntoWithKeyPrefixInternal(children, result, null, func, context);
  return result;
}

function countChildren(children, context) {
  return traverseAllChildren(children,
    forEachSingleChildDummy, null);
}
```

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level-api.html#react.children.toArray

/*\n * function toArray(children) {
 *  var result = [];
 *  mapIntoWithKeyPrefixInternal(children, result, null, emptyFunction.thatReturnsArgument);
 *  return result;
 *}

 var ReactChildren = {
  forEach: forEachChildren,
  map: mapChildren,
  mapIntoWithKeyPrefixInternal: mapIntoWithKeyPrefixInternal,
  count: countChildren,
  toArray: toArray
};

module.exports = ReactChildren;

/**
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 *
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 * *\n * \n * */

'use strict';

var _prodInvariant = require('./reactProdInvariant');

var invariant = require('fbjs/lib/invariant');

/**
 * Static poolers. Several custom versions for each potential number of * arguments. A completely generic pooler is easy to implement, but would * require accessing the `arguments` object. In each of these, `this` refers to the Class itself, not an instance. If any others are needed, simply add them * here, or in their own files.
 * *
 * var oneArgumentPooler = function (copyFieldsFrom) {
 *  var Klass = this;
 *  if (Klass.instancePool.length) {
 *    var instance = Klass.instancePool.pop();
 *    Klass.call(instance, copyFieldsFrom);
 *    return instance;
 *  } else {
 *    return new Klass(copyFieldsFrom);
 *  }
 *}
 *
 * var twoArgumentPooler = function (a1, a2) {
 *  var Klass = this;
 *  if (Klass.instancePool.length) {
 *    var instance = Klass.instancePool.pop();
 *    Klass.call(instance, a1, a2);
 *    return instance;
 *  } else {
 *    return new Klass(a1, a2);
 *  }
 *}
 *
 * var threeArgumentPooler = function (a1, a2, a3) {
 *  var Klass = this;
 *  if (Klass.instancePool.length) {
 *    var instance = Klass.instancePool.pop();
 *    Klass.call(instance, a1, a2, a3);
 *    return instance;
 *  } else {
 *    return new Klass(a1, a2, a3);
 *  }
 *}
 *
 * var fourArgumentPooler = function (a1, a2, a3, a4) {
 *  var Klass = this;
 *  if (Klass.instancePool.length) {
 *    var instance = Klass.instancePool.pop();
 *    Klass.call(instance, a1, a2, a3, a4);
 *    return instance;
 *  } else {
 *    return new Klass(a1, a2, a3, a4);
 *  }
 *}
 *
 * var standardReleaser = function (instance) {
 *  var Klass = this;
 *  !(instance instanceof Klass) ?
 *    process.env.NODE_ENV !== 'production' ? invariant(false, 'Trying to release an instance into a pool of a different type:') : _prodInvariant('25') : void 0;
 *  instance.destructor();
 *  if (Klass.instancePool.length < Klass.poolSize) {
 *    Klass.instancePool.push(instance);
 *  }
 *}
 *
 * var DEFAULT_POOL_SIZE = 10;
 * var DEFAULT_POOLER = oneArgumentPooler;

 var PooledClass = {
  addPoolingTo: addPoolingTo,
  oneArgumentPooler: oneArgumentPooler,
  twoArgumentPooler: twoArgumentPooler,
  threeArgumentPooler: threeArgumentPooler,
  fourArgumentPooler: fourArgumentPooler
};

module.exports = PooledClass;

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 *
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 * the LICENSE file in the root directory of this source
 * tree.
 * *
 */

'use strict';

var _prodInvariant = require('./reactProdInvariant');

var ReactCurrentOwner = require('./ReactCurrentOwner');
var REACT_ELEMENT_TYPE = require('./ReactElementSymbol');

var getIteratorFn = require('./getIteratorFn');
var invariant = require('fbjs/lib/invariant');
var KeyEscapeUtils = require('./KeyEscapeUtils');
var warning = require('fbjs/lib/warning');

var SEPARATOR = '.';
var SUBSEPARATOR = ':';

var didWarnAboutMaps = false;

/**
 * Generate a key string that identifies a component within a set.
 *
 * @param {*} component A component that could contain a manual key.
 * @param {number} index Index that is used if a manual key is not provided.
 * @return {string}
 * *
 */

function getComponentKey(component, index) {
  // Do some typechecking here since we call this blindly. We want to ensure
  // that we don't block potential future ES APIs.
  // *\n  // component & typeof component ==


'object' && component.key != null) {\n // Explicit key\n return KeyEscapeUtils.escape(component.key);\n }\n
// Implicit key determined by the index in the set\n return index.toString(36);\n}\n\n/**\n * @param {?*} children
Children tree container.\n * @param {!string} nameSoFar Name of the key path so far.\n * @param {!function}
callback Callback to invoke with each child found.\n * @param {?*} traverseContext Used to pass information
throughout the traversal\n * process.\n * @return {!number} The number of children in this subtree.\n */\nfunction
traverseAllChildrenImpl(children, nameSoFar, callback, traverseContext) {\n var type = typeof children;\n\n if
(type === 'undefined' || type === 'boolean') {\n // All of the above are perceived as null.\n children = null;\n
}\n\n if (children === null || type === 'string' || type === 'number' ||\n // The following is inlined from
ReactElement. This means we can optimize\n // some checks. React Fiber also inlines this logic for similar
purposes.\n type === 'object' && children.$$typeof === REACT_ELEMENT_TYPE) {\n
callback(traverseContext, children,\n // If it's the only child, treat the name as if it was wrapped in an array\n //
so that it's consistent if the number of children grows.\n nameSoFar === '' ? SEPARATOR +
getComponentKey(children, 0) : nameSoFar);\n return 1;\n }\n\n var child;\n var nextName;\n var subtreeCount
= 0; // Count of children found in the current subtree.\n var nextNamePrefix = nameSoFar === '' ? SEPARATOR :
nameSoFar + SUBSEPARATOR;\n\n if (Array.isArray(children)) {\n for (var i = 0; i < children.length; i++) {\n
child = children[i];\n
nextName = nextNamePrefix + getComponentKey(child, i);\n
subtreeCount +=
traverseAllChildrenImpl(child, nextName, callback, traverseContext);\n }\n } else {\n var iteratorFn =
getIteratorFn(children);\n if (iteratorFn) {\n
var iterator = iteratorFn.call(children);\n
var step;\n
if
(iteratorFn !== children.entries) {\n
var ii = 0;\n
while (!(step = iterator.next()).done) {\n
child =
step.value;\n
nextName = nextNamePrefix + getComponentKey(child, ii++);\n
subtreeCount +=
traverseAllChildrenImpl(child, nextName, callback, traverseContext);\n
}\n
} else {\n
if
(process.env.NODE_ENV !== 'production') {\n
var mapsAsChildrenAddendum = '';\n
if
(ReactCurrentOwner.current) {\n
var mapsAsChildrenOwnerName =
ReactCurrentOwner.current.getName();\n
if (mapsAsChildrenOwnerName) {\n
mapsAsChildrenAddendum = ' Check the render method of `' + mapsAsChildrenOwnerName + '`.';\n
}\n
}\n
process.env.NODE_ENV !== 'production' ? warning(didWarnAboutMaps, 'Using Maps as children is not
yet fully supported. It is an ' + 'experimental feature that might be removed. Convert it to a ' + 'sequence / iterable of
keyed ReactElements instead.%s', mapsAsChildrenAddendum) : void 0;\n
didWarnAboutMaps = true;\n
}\n
// Iterator will provide entry [k,v] tuples rather than values.\n
while (!(step = iterator.next()).done) {\n
var entry = step.value;\n
if (entry) {\n
child = entry[1];\n
nextName = nextNamePrefix +
KeyEscapeUtils.escape(entry[0]) + SUBSEPARATOR + getComponentKey(child, 0);\n
subtreeCount +=
traverseAllChildrenImpl(child, nextName, callback, traverseContext);\n
}\n
}\n
}\n } else if (type
=== 'object') {\n
var addendum = '';\n
if (process.env.NODE_ENV !== 'production') {\n
addendum = ' If
you meant to render a collection of children, use an array ' + 'instead or wrap the object using
createFragment(object) from the ' + 'React add-ons.';\n
if (children._isReactElement) {\n
addendum = \" It
looks like you're using an element created by a different \" + 'version of React. Make sure to use only one copy of
React.';\n
}\n
if (ReactCurrentOwner.current) {\n
var name =
ReactCurrentOwner.current.getName();\n
if (name) {\n
addendum += ' Check the render method of `' +
name + '`.';\n
}\n
}\n
}\n
var childrenString = String(children);\n
!false ?
process.env.NODE_ENV !== 'production' ? invariant(false, 'Objects are not valid as a React child (found: %s).%s',
childrenString === '[object Object]' ? 'object with keys {' + Object.keys(children).join(', ') + '}' : childrenString,
addendum) : _prodInvariant('31', childrenString === '[object Object]' ? 'object with keys {' +
Object.keys(children).join(', ') + '}' : childrenString, addendum) : void 0;\n }\n }\n\n return
subtreeCount;\n}\n\n/**\n * Traverses children that are typically specified as `props.children`, but\n * might also be
specified through attributes:\n *\n * - `traverseAllChildren(this.props.children, ...)`\n * `traverseAllChildren(this.props.leftPanelChildren, ...)`\n *\n * The `traverseContext` is an optional argument that is
passed through the\n * entire traversal. It can be used to store accumulations or anything else that\n * the callback
might find relevant.\n *\n * @param {?*} children Children tree object.\n * @param {!function} callback To invoke

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upon traversing each child.

```javascript
upon traversing each child.

function traverseAllChildren(children, callback, traverseContext) {
  if (children == null) {
    return 0;
  }

  return traverseAllChildrenImpl(children, '', callback, traverseContext);
}
```

```javascript
module.exports = traverseAllChildren;
```

```javascript
/**
 * Copyright (c) 2013-present, Facebook, Inc.
 *
 * This source code is licensed under the MIT license found in the
 * LICENSE file in the root directory of this source tree.
 *
 */

'use strict';

function getIteratorFn(maybeIterable) {
  var iteratorFn = maybeIterable &&
  (ITERATOR_SYMBOL && maybeIterable[ITERATOR_SYMBOL] ||
   maybeIterable[FAUX_ITERATOR_SYMBOL]);
  if (typeof iteratorFn === 'function') {
    return iteratorFn;
  }
}
```

```javascript
var KeyEscapeUtils = {
  escape: escape,
  unescape: unescape
};
```

```javascript
/**
 * Copyright (c) 2013-present, Facebook, Inc.
 *
 * This source code is licensed under the MIT license found in the
 * LICENSE file in the root directory of this source tree.
 *
 */

'use strict';

var ReactElement = require('./ReactElement');

var ReactDOMFactories = {
  a: createDOMFactory('a'),
  abbr: createDOMFactory('abbr'),
  address: createDOMFactory('address'),
  area: createDOMFactory('area'),
  article: createDOMFactory('article'),
  aside: createDOMFactory('aside'),
  audio: createDOMFactory('audio'),
  b: createDOMFactory('b'),
  base: createDOMFactory('base'),
  bdi: createDOMFactory('bdi'),
  bdo: createDOMFactory('bdo'),
  big: createDOMFactory('big'),
  blockquote: createDOMFactory('blockquote'),
  body: createDOMFactory('body'),
  br: createDOMFactory('br'),
  button: createDOMFactory('button'),
  canvas: createDOMFactory('canvas'),
  caption: createDOMFactory('caption'),
  cite: createDOMFactory('cite'),
  code: createDOMFactory('code'),
  col: createDOMFactory('col'),
  colgroup: createDOMFactory('colgroup'),
  data: createDOMFactory('data'),
  datalist: createDOMFactory('datalist'),
  dd: createDOMFactory('dd'),
  del: createDOMFactory('del'),
  details: createDOMFactory('details'),
  dfn: createDOMFactory('dfn'),
  dialog: createDOMFactory('dialog'),
  div: createDOMFactory('div'),
  dl: createDOMFactory('dl'),
  dt: createDOMFactory('dt'),
  em: createDOMFactory('em'),
  embed: createDOMFactory('embed'),
  fieldset: createDOMFactory('fieldset'),
  figcaption: createDOMFactory('figcaption'),
  figure: createDOMFactory('figure'),
  footer: createDOMFactory('footer'),
  form: createDOMFactory('form'),
  h1: createDOMFactory('h1'),
  h2: createDOMFactory('h2'),
  h3: createDOMFactory('h3'),
  h4: createDOMFactory('h4'),
  h5: createDOMFactory('h5'),
  h6: createDOMFactory('h6'),
  head: createDOMFactory('head'),
  header: createDOMFactory('header'),
  hr: createDOMFactory('hr'),
  html: createDOMFactory('html'),
  i: createDOMFactory('i'),
  iframe: createDOMFactory('iframe'),
  img: createDOMFactory('img'),
  input: createDOMFactory('input'),
  ins: createDOMFactory('ins'),
  kbd: createDOMFactory('kbd'),
  label: createDOMFactory('label'),
  legend: createDOMFactory('legend'),
  li: createDOMFactory('li'),
  line: createDOMFactory('line'),
  link: createDOMFactory('link'),
  main: createDOMFactory('main'),
  map: createDOMFactory('map'),
  mark: createDOMFactory('mark'),
  menu: createDOMFactory('menu'),
  meta: createDOMFactory('meta'),
  meter: createDOMFactory('meter'),
  nav: createDOMFactory('nav'),
  noscript: createDOMFactory('noscript'),
  object: createDOMFactory('object'),
  optgroup: createDOMFactory('optgroup'),
  option: createDOMFactory('option'),
  output: createDOMFactory('output'),
  p: createDOMFactory('p'),
  param: createDOMFactory('param'),
  picture: createDOMFactory('picture'),
  pre: createDOMFactory('pre'),
  progress: createDOMFactory('progress'),
  q: createDOMFactory('q'),
 rp: createDOMFactory('rp'),
  rt: createDOMFactory('rt'),
 ruby: createDOMFactory('ruby'),
  s: createDOMFactory('s'),
  samp: createDOMFactory('samp'),
  small: createDOMFactory('small'),
  span: createDOMFactory('span'),
  strong: createDOMFactory('strong'),
  sub: createDOMFactory('sub'),
  summary: createDOMFactory('summary'),
  sup: createDOMFactory('sup'),
  table: createDOMFactory('table'),
  tbody: createDOMFactory('tbody'),
  td: createDOMFactory('td'),
  teg: createDOMFactory('teg'),
  template: createDOMFactory('template'),
  title: createDOMFactory('title'),
  tr: createDOMFactory('tr'),
  track: createDOMFactory('track'),
  u: createDOMFactory('u'),
  ul: createDOMFactory('ul'),
  video: createDOMFactory('video'),
  wbr: createDOMFactory('wbr')
};
```

```

```
createDOMFactory('i'),
  iframe: createDOMFactory('iframe'),
  img: createDOMFactory('img'),
  input: createDOMFactory('input'),
  ins: createDOMFactory('ins'),
  kbd: createDOMFactory('kbd'),
  keygen: createDOMFactory('keygen'),
  label: createDOMFactory('label'),
  legend: createDOMFactory('legend'),
  li: createDOMFactory('li'),
  link: createDOMFactory('link'),
  main: createDOMFactory('main'),
  map: createDOMFactory('map'),
  mark: createDOMFactory('mark'),
  menu: createDOMFactory('menu'),
  menuitem: createDOMFactory('menuitem'),
  meta: createDOMFactory('meta'),
  meter: createDOMFactory('meter'),
  nav: createDOMFactory('nav'),
  noscript: createDOMFactory('noscript'),
  object: createDOMFactory('object'),
  ol: createDOMFactory('ol'),
  optgroup: createDOMFactory('optgroup'),
  option: createDOMFactory('option'),
  output: createDOMFactory('output'),
  p: createDOMFactory('p'),
  param: createDOMFactory('param'),
  picture: createDOMFactory('picture'),
  pre: createDOMFactory('pre'),
  progress: createDOMFactory('progress'),
  q: createDOMFactory('q'),
  rp: createDOMFactory('rp'),
  rt: createDOMFactory('rt'),
  ruby: createDOMFactory('ruby'),
  s: createDOMFactory('s'),
  samp: createDOMFactory('samp'),
  script: createDOMFactory('script'),
  section: createDOMFactory('section'),
  select: createDOMFactory('select'),
  small: createDOMFactory('small'),
  source: createDOMFactory('source'),
  span: createDOMFactory('span'),
  strong: createDOMFactory('strong'),
  style: createDOMFactory('style'),
  sub: createDOMFactory('sub'),
  summary: createDOMFactory('summary'),
  sup: createDOMFactory('sup'),
  table: createDOMFactory('table'),
  tbody: createDOMFactory('tbody'),
  td: createDOMFactory('td'),
  textarea: createDOMFactory('textarea'),
  th: createDOMFactory('th'),
  thead: createDOMFactory('thead'),
  time: createDOMFactory('time'),
  title: createDOMFactory('title'),
  tr: createDOMFactory('tr'),
  track: createDOMFactory('track'),
  u: createDOMFactory('u'),
  ul: createDOMFactory('ul'),
  var: createDOMFactory('var'),
  video: createDOMFactory('video'),
  wbr: createDOMFactory('wbr'),
  // SVG
  circle: createDOMFactory('circle'),
  clipPath: createDOMFactory('clipPath'),
  defs: createDOMFactory('defs'),
  ellipse: createDOMFactory('ellipse'),
  g: createDOMFactory('g'),
  image: createDOMFactory('image'),
  line: createDOMFactory('line'),
  linearGradient: createDOMFactory('linearGradient'),
  mask: createDOMFactory('mask'),
  path: createDOMFactory('path'),
  pattern: createDOMFactory('pattern'),
  polygon: createDOMFactory('polygon'),
  polyline: createDOMFactory('polyline'),
  radialGradient: createDOMFactory('radialGradient'),
  rect: createDOMFactory('rect'),
  stop: createDOMFactory('stop'),
  svg: createDOMFactory('svg'),
  text: createDOMFactory('text'),
  tspan: createDOMFactory('tspan'),

  // module.exports = ReactDOMFactories;";'/**\n * Copyright (c) 2013-present, Facebook, Inc.
 * 
 * This source code is licensed under the MIT license found in the LICENSE file in the root directory of this source tree.
 * @license MIT
 */

if (process.env.NODE_ENV !== 'production') {
  // It is still allowed in 15.5.
  var throwOnDirectAccess = false;
  return factory(isValidElement,
  function(checkPropTypes) {
    // This error was thrown as a convenience so that you can use this stack
    // to find the callsite that caused this warning to fire.
    throw new Error(message);
  });
} else
  throwOnDirectAccess = true;

factory(isValidElement, throwOnDirectAccess);
emptyFunctionThatReturnsNull() { return null; }

module.exports = function(isValidElement, throwOnDirectAccess) {

  /* global Symbol */
  var ITERATOR_SYMBOL = typeof Symbol === 'function' && Symbol.iterator;
  var FAUX_ITERATOR_SYMBOL = '@@iterator';

  /**
   * Returns the iterator method function contained on the iterable object.
   * @returns
   * Be sure to invoke the function with the iterable as context:
   * var iteratorFn = getIteratorFn(myIterable);
   * if (iteratorFn) {
   *   var iterator = iteratorFn.call(myIterable);
   *   ... /* ... */
   *   @param {Object} maybeIterable
   *   @returns {Function}
   */

  function getIteratorFn(maybeIterable) {
    var iteratorFn = maybeIterable && (ITERATOR_SYMBOL && maybeIterable[ITERATOR_SYMBOL] || FAUX_ITERATOR_SYMBOL);
    if (typeof iteratorFn === 'function') {
      return iteratorFn;
    }
  }

  /**
   * Collection of methods that allow declaration and validation of props that are
   * supplied to React components. Example usage:
   * var Props = require('ReactPropTypes');
   * var MyArticle = React.createClass({
   *   propTypes: {
   *     description: Props.string,
   *     category: Props.oneOf(['News', 'Photos']).isRequired,
   *     dialog: Props.instanceOf(Dialog).isRequired
   *   },
   *   render: function() { ... }
   * });
   */

  var ANONYMOUS = '<<anonymous>>';

  // Important!
  // Keep this list in sync with production version in `./factoryWithThrowingShims.js`.
  var ReactPropTypes = {
    array: createPrimitiveTypeChecker('array'),
    bool: createPrimitiveTypeChecker('boolean'),
    func: createPrimitiveTypeChecker('function'),
    number: createPrimitiveTypeChecker('number'),
    object: createPrimitiveTypeChecker('object'),
    string: createPrimitiveTypeChecker('string'),
    symbol: createPrimitiveTypeChecker('symbol'),

    any: createAnyTypeChecker(),
    arrayOf: createArrayOfTypeChecker,
    element: createElementTypeChecker(),
    elementType: createElementTypeTypeChecker(),
    instanceOf: createInstanceTypeChecker,
    node: createNodeChecker(),
    objectOf: createObjectOfTypeChecker,
    oneOf: createEnumTypeChecker,
    oneOfType: createUnionTypeChecker,
    shape: createShapeTypeChecker,
    exact:
  };

  /**
   * inlined Object.is polyfill to avoid requiring consumers ship their
   * own
   */

  function is(x, y) {
    // SameValue algorithm
    if (x === y) {
      // Steps 1-5, 7-10
      return x !== 0 || 1 / x === 1 / y;
    } else {
      // Step 6.a: NaN == NaN
      return is(/** @type {?} */ (x), /** @type {?} */ (y));
    }
  }

  function PropTypeError(message) {
    this.message = message;
    this.stack = '';
  }

  function createChainableTypeChecker(validate) {
    if (process.env.NODE_ENV !== 'production') {
      var manualPropTypeCallCache = {};
      var manualPropTypeWarningCount = 0;
    }
    function checkType(isRequired, props, propName, componentName, location, propFullName, secret) {
      componentName = componentName || ANONYMOUS;
      propFullName = propFullName || propName;
      if (secret !== ReactPropTypesSecret) {
        if (throwOnDirectAccess) {
          // New behavior only for users of
'prop-types' package

var err = new Error('Calling PropTypes validators directly is not supported by
the 'prop-types' package. ' +

'Use PropTypes.checkPropTypes() to call them. ' +

'Read more at
http://fb.me/use-check-prop-types

});

err.name = 'Invariant Violation';

throw err;

} else

if (process.env.NODE_ENV !== 'production' &&

typeof console !== 'undefined') {

// You may be seeing this warning due to a third-party PropTypes

'package. ' +

'library. See

https://fb.me/react-warning-dont-call-prop-types

for details.'

}

manualPropTypeCallCache[cacheKey] &&

// Avoid spamming the console because they are often not

actionable except for lib authors

manualPropTypeWarningCount < 3

} 

printWarning(

'You are manually calling a React.PropTypes validation ' +

'function for the '' + propFullName + ''

prop on '' + componentName + ''. This is deprecated ' +

'and will throw in the standalone 'prop-types'

package. ' +

'You may be seeing this warning due to a third-party PropTypes ' +

'library. See

https://fb.me/react-warning-dont-call-prop-types

for details.'

}

manualPropTypeCallCache[cacheKey] = true;

manualPropTypeWarningCount++;

} 

if (props[propName] == null) {

if (isRequired) {

if (props[propName] === null) {

return new PropTypeError('The ' + location + ' ' +

propFullName + ' is marked as required ' +

('in ' + componentName + '), but its value is `null`.'));

}

return new PropTypeError('The ' + location + ' ' +

propFullName + ' is marked as required in ' +

(' + componentName + '), but its value is `undefined`.'));

}

return null;

} else {

return validate(props, propName, componentName, location, propFullName);

}

}

if (props[propName] == null) {

if (isRequired) {

if (props[propName] === null) {

return new PropTypeError('The ' + location + ' ' +

propFullName + ' is marked as required ' +

('in ' + componentName + '), but its value is `undefined`.'));

}

return null;

} else {

return validate(props, propName, componentName, location, propFullName);

}

}

var cacheKey = componentName + ':' + propName;

if (

!manualPropTypeCallCache[cacheKey] &&

// Avoid spamming the console because they are often not

actionable except for lib authors

manualPropTypeWarningCount < 3

} 

printWarning(

'You are manually calling a React.PropTypes validation ' +

'function for the '' + propFullName + ''

prop on '' + componentName + ''. This is deprecated ' +

'and will throw in the standalone 'prop-types'

package. ' +

'You may be seeing this warning due to a third-party PropTypes ' +

'library. See

https://fb.me/react-warning-dont-call-prop-types

for details.'

}

manualPropTypeCallCache[cacheKey] = true;

manualPropTypeWarningCount++;

} 

if (props[propName] == null) {

if (isRequired) {

if (props[propName] === null) {

return new PropTypeError('The ' + location + ' ' +

propFullName + ' is marked as required ' +

('in ' + componentName + '), but its value is `null`.'));

}

return new PropTypeError('The ' + location + ' ' +

propFullName + ' is marked as required in ' +

(' + componentName + '), but its value is `undefined`.'));

}

return null;

} else {

return validate(props, propName, componentName, location, propFullName);

}

}

var chainedCheckType = checkType.bind(null, false);

chainedCheckType.isRequired =

checkType.bind(null, true);

return chainedCheckType;

}

function createPrimitiveTypeChecker(expectedType) {

function validate(props, propName, componentName, location,

propFullName, secret) {

var propValue = props[propName];

var propType = getPropType(propValue);

if (propType !== expectedType) {

var preciseType = getPreciseType(propValue);

return new PropTypeError('Invalid ' + location + ' ' +

propFullName + ' of type ' +

('`' + preciseType + '` supplied to `' + componentName + '`, expected ' +

(expectedType + ')).');

}

return null;

}

return createChainableTypeChecker(validate);

}

function createAnyTypeChecker() {

return createChainableTypeChecker(emptyFunctionThatReturnsNull);

}

function createArrayOfTypeChecker(typeChecker) {

function validate(props, propName, componentName, location,

propFullName, secret) {

var propValue = props[propName];

if (!Array.isArray(propValue)) {

var propType = getPropType(propValue);

return new PropTypeError('Invalid ' + location + ' ' +

propFullName + ' of type ' +

('`' + propType + '` supplied to `' + componentName + '`, expected an array.'));

}

for (var i = 0; i < propValue.length; i++) {

var error = typeChecker(propValue, i, componentName,

location, propFullName + '[i]', ReactPropTypesSecret);

if (error instanceof Error) {

return error;

}

return null;

}

return createChainableTypeChecker(validate);

}

function function createElementTypeChecker() {

function validate(props, propName, componentName, location,

propFullName) {

if (typeof typeChecker !== 'function') {

throw new PropTypeError('Property `' + propFullName + '` of component `' + componentName + '` has invalid PropType notation inside arrayOf.');

}

var propValue = props[propName];

if (!isValidElement(propValue)) {

var propType =

getPropType(propValue);

if (propType !== typeChecker) {

throw new PropTypeError('Invalid ' + location + ' ' +

(propType + ' of type `' + propType + '` supplied to `' + componentName + '`, expected a single ReactElement.'));

}

}

return null;

}

function createInstanceTypeChecker(expectedClass) {

function validate(props, propName, componentName, location,

propFullName) {

var propValue = props[propName];

if (!isValidElement(propValue)) {

var propType =

getPropType(propValue);

return new PropTypeError('Invalid ' + location + ' ' +

propFullName + ' of type `' + propType + '` supplied to `' + componentName + '`, expected a single ReactElement.'));

}

return null;

}

function createElementTypeChecker() {

function validate(props, propName, componentName, location,

propFullName) {

var propValue = props[propName];

if (!isValidElement(propValue)) {

var propType =

getPropType(propValue);

return new PropTypeError('Invalid ' + location + ' ' +

(propType + ' of type `' + propType + '` supplied to `' + componentName + '`, expected a single ReactElement.'));

}

return null;

}

function createInstanceOfTypeChecker(expectedClass) {

function validate(props, propName, componentName, location,

propFullName) {

if (!isValidElement(propValue)) {

var expectedClassName =


'You may have forgotten to pass an argument to the type checker ' +
'creator (arrayOf, instanceOf, objectOf, oneOf, oneOfType, and ' +
'shape all require an argument).\n');\n
if (error
instanceof Error &
!{error.message in loggedTypeFailures}) {
  // Only monitor this failure once because
  // there tends to be a lot of the\n  // same error.\n  loggedTypeFailures[error.message] = true;\n
  var
  stack = getStack();\n  printWarning('Failed '+ location +': type: ' +
  type + error.message +
  (stack != null ? stack : '')
  );\n}
}

if (error
instanceof Error &&
!(error.message in loggedTypeFailures)) {
  // Only monitor this failure once because
  // there tends to be a lot of the
  // same error.
  loggedTypeFailures[error.message] = true;

  var
  stack = getStack();\n
  printWarning('Failed '+ location +': type: ' +
  error.message +
  (stack != null ? stack : '')
  );\n}

/*
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 *
 * This source code is licensed under the MIT license found in the
 * LICENSE file in the root directory of this source tree.
 *
 */

'use strict';

module.exports = '15.6.2';
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+\n  +\n  may be due to a mixin; in particular, this may be caused by two `\n  +\n  getInitialState() or getDefaultValue() methods returning objects `\n  +\n  with clashing keys.' \n  +\n  key: \n  +\n  ); \n  +\n  one[key] = \
  +\n  two[key]: \n  +\n  return one: \n  +\n  /\n  +\n  */\n  +\n  * Creates a function that invokes two functions and merges 
  +\n  their return values. \n  +\n  @param \n  +\n  function \n  +\n  One Function to invoke first. \n  +\n  @param \n  +\n  function \n  +\n  Two Function to invoke second. \n  +\n  * \n  +\n  @return \n  +\n  function \n  +\n  Function that invokes the two argument functions. \n  +\n  */\n  +\n  function createMergedResultFunction(one, two) { \n  +\n  var a = one.apply(this, arguments); \n  +\n  var b = two.apply(this, arguments); \n  +\n  if (a == null) { \n  +\n  return b; \n  +\n  } else if (b == null) { \n  +\n  return a; \n  +\n  } var c = {}; \n  +\n  mergeIntoWithNoDuplicateKeys(c, a); \n  +\n  mergeIntoWithNoDuplicateKeys(c, b); \n  +\n  return c; \n  +\n  } \n  +\n  */\n  +\n  * Creates a function that invokes two 
  +\n  functions and ignores their return values. \n  +\n  @param \n  +\n  function \n  +\n  One Function to invoke first. \n  +\n  @param \n  +\n  function \n  +\n  Two Function to invoke second. \n  +\n  * \n  +\n  @return \n  +\n  function \n  +\n  Function that invokes the two argument 
  +\n  functions. \n  +\n  */\n  +\n  function createChainedFunction(one, two) { \n  +\n  return function chainedFunction() { \n  +\n  one.apply(this, arguments); \n  +\n  two.apply(this, arguments); \n  +\n  } \n  +\n  } \n  +\n  */\n  +\n  * Binds a method to the 
  +\n  component. \n  +\n  */\n  +\n  function bindAutoBindMethod(component, method) { \n  +\n  var boundMethod = method.bind(component); \n  +\n  if (process.env.NODE_ENV !== 'production') { \n  +\n  boundMethod.__reactBoundContext = component; \n  +\n  boundMethod.__reactBoundMethod = method; \n  +\n  boundMethod.__reactBoundArguments = null; \n  +\n  var componentName = component.constructor.displayName; \n  +\n  var _bind = boundMethod.bind; \n  +\n  boundMethod.bind = function(newThis) { \n  +\n  for (var _len = arguments.length, args = \n  +\n  Array(_len > 1 ? _len - 1 : 0), \n  +\n  _key = 1; _key < _len; \n  +\n  _key+++) \n  +\n  ) { \n  +\n  args[_key - 1] = arguments[_key]; \n  +\n  } \n  +\n  // User is trying to bind() an autobound method; we effectively will \n  +\n  ignore the value of 'this' that the user is trying to use, so \n  +\n  // let's warn. \n  +\n  if (newThis !== component && \n  +\n  newThis !== null) { \n  +\n  warning(false, \n  +\n  'bind(): React component methods may only be bound to the ' +\n  +\n  'component instance. See %s', \n  +\n  componentName); \n  +\n  } else if (!args.length) { \n  +\n  warning(false, \n  +\n  'bind(): You are binding a component method to the \n  +\n  component. ' +\n  +\n  'React does this for you automatically in a high-performance ' +\n  +\n  'way, so you can safely remove this call. See %s', \n  +\n  componentName); \n  +\n  } \n  +\n  var reboundMethod = _bind.apply(boundMethod, arguments); \n  +\n  reboundMethod.__reactBoundContext = component; \n  +\n  reboundMethod.__reactBoundMethod = method; \n  +\n  reboundMethod.__reactBoundArguments = args; \n  +\n  return reboundMethod; \n  +\n  } \n  +\n  } \n  +\n  */\n  +\n  * Binds all auto-bound methods in a component. \n  +\n  */\n  +\n  function bindAutoBindMethods(component) { \n  +\n  var pairs = component.__reactAutoBindPairs; \n  +\n  for (var i = 0; i < pairs.length; i += 2) { \n  +\n  var autoBindKey = pairs[i]; \n  +\n  var method = pairs[i + 1]; \n  +\n  component[autoBindKey] = \n  +\n  bindAutoBindMethod(component, method); \n  +\n  } \n  +\n  var IsMountedPreMixin = { \n  +\n  componentDidMount: \n  +\n  function() { \n  +\n  this.__isMounted = true; \n  +\n  } \n  +\n  } \n  +\n  var IsMountedPostMixin = { \n  +\n  componentWillUnmount: \n  +\n  function() { \n  +\n  this.__isMounted = false; \n  +\n  } \n  +\n  } \n  +\n  */\n  +\n  * Add more to the ReactClass base class. These are all legacy features and \n  +\n  therefore not already part of the modern ReactClass. \n  +\n  */\n  +\n  function ReactComponent() { \n  +\n  this.componentWillUnmount = function() { \n  +\n  this.__isMounted = false; \n  +\n  } \n  +\n  } \n  +\n  */\n  +\n  * TODO: This will be deprecated because state should always keep a consistent \n  +\n  type signature and the only use case for this, is to avoid that. \n  +\n  replaceState: function(newState, callback) { \n  +\n  this.updater.enqueueReplaceState(this, newState, callback); \n  +\n  } \n  +\n  } \n  +\n  */\n  +\n  * Checks whether or not this composite component is mounted. \n  +\n  * @return [boolean] True if \n  +\n  mounted, false otherwise. \n  +\n  * @protected \n  +\n  * @final \n  +\n  * isMounted: function() { \n  +\n  } \n  +\n  } \n  +\n  */\n  +\n  * isMounted is deprecated. Instead, make sure to clean up subscriptions and pending requests in \n  +\n  * componentWillUnmount to prevent memory leaks. \n  +\n  } \n  +\n  (this.constructor & &
this.constructor.displayName) ||
this.name ||
'Component'
); this.__didWarnIs Mounted
= true; } //this._isMounted
); } } } } var ReactClassComponent = function() { } _assign
(ReactClassComponent.prototype, ReactComponent.prototype, ReactClassMixin
); /**
 * Creates a composite component class given a class specification. The
 * argument is used by mocks to assert on what gets mounted. If (process.env.NODE_ENV !== 'production') { 
  warning(this instance of
Constructor, 'Something is calling a React component directly. Use a factory or ' +
'JSX instead. See: https://fb.me/react-legacyfactory
); } } } } // Wire up auto-binding
if (this.__reactAutoBindPairs.length) { 
  bindAutoBindMethods(this);
} this.props = props;
this.context = context;
this.refs = emptyObject;
this.updater = updater || ReactNoopUpdateQueue;
this.state = null;

// ReactClasses doesn't have constructors. Instead, they use the
// getInitialState and componentWillMount methods for initialization.
var initialState = this.getInitialState
(); if (process.env.NODE_ENV !== 'production') {
  // We allow auto-mocks to proceed as if they're
  // returning null.
  if (null == initialState) {
    // This is probably bad practice. Consider warning here and
    // deprecating this convenience.
    initialState = null;
  }
} _invariant(
  typeof initialState === 'object' &&
  !Array.isArray(initialState),
  '%s.getInitialState(): must return an object or null',
Constructor.displayName || 'ReactCompositeComponent'
); this.state = initialState;
}

Constructor.prototype = new ReactClassComponent();
Constructor.prototype.constructor = Constructor;
Constructor.prototype.__reactAutoBindPairs = [];

injectedMixins.forEach(mixSpecIntoComponent.bind(null,
Constructor));
mixSpecIntoComponent(Constructor, IsMountedPreMixin);
mixSpecIntoComponent(Constructor, spec);
mixSpecIntoComponent(Constructor, IsMountedPostMixin);

// Initialize the defaultProps property after all mixins have been merged.
if (Constructor.getDefaultProps) {
Constructor.defaultProps = Constructor.getDefaultProps();
}

if (process.env.NODE_ENV !== 'production') {
  // This is a tag to indicate that the use of these method names is ok,
  // since it's used with createClass. If
  // it's not, then it's likely a
  // mistake so we'll warn you to use the static property, property
  // initializer or constructor respectively.
  if (Constructor.getDefaultProps) {
    Constructor.getDefaultProps.isReactClassApproved = {};
  }
  if (Constructor.prototype.getInitialState) {
    Constructor.prototype.getInitialState.isReactClassApproved = {};
  }
}

_invariant(
  Constructor.prototype.render,
  'createClass(...): Class specification must implement a `render` method.'
); if (process.env.NODE_ENV !== 'production') {
  warning(!Constructor.prototype.componentShouldUpdate,
    '%s has a method called ' +
'componentShouldUpdate(). Did you mean shouldComponentUpdate()? ' +
'The name is phrased as a question because the function is ' +
'expected to return a value. It is ' +
'A component\n')
  warning(!Constructor.prototype.componentWillRecieveProps,
    '%s has a method called ' +
'componentWillRecieveProps(). Did you mean componentWillRecieveProps()?
, spec.displayName || 'A component\n')
  warning(!Constructor.prototype.UNSAFE_componentWillRecieveProps,
    '%s has a method called UNSAFE_' +
'componentWillRecieveProps()'.
) +
'Did you mean
UNSAFE_componentWillRecieveProps()?', spec.displayName || 'A component\n')
  warning(!Constructor.prototype.UNSAFE_componentWillRecieveProps,
    '%s has a method called ' +
'UNSAFE_' +
'componentWillRecieveProps()'.
) +
'Did you mean
UNSAFE_componentWillRecieveProps()?', spec.displayName || 'A component\n')
  warning(!Constructor.prototype.UNSAFE_componentWillRecieveProps,
    '%s has a method called ' +
'UNSAFE_' +
'componentWillRecieveProps()'.
) +
'Did you mean
UNSAFE_componentWillRecieveProps()?', spec.displayName || 'A component\n')

return Constructor;
}

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*/
to compose unicode capture groups. */

```javascript
var rsApos = "['\u2019']";

/** Used to match apostrophes. */
var reApos = RegExp(rsApos, "g");

/**
 * Creates a function like `_.camelCase`. This function is similar
to `_.capitalize` except it's intended to be invoked with
arbitrary inputs. See `_.capitalize` for more details.

@returns {Function} Returns the new function.
*/
function capitalizeCase(string)
```

```javascript
while (++index < length) {
  accumulator = iteratee(accumulator, array[index], index, array);
}
return
```

```javascript
{Function} callback The function to combine each word.
 * @returns {Function} Returns the new compounder
```

```javascript
function createCompounder(callback)
{
  return function(string) {
    return
```

```javascript
function arrayReduce(array, iteratee, accumulator, initAccum) {
```

```javascript
var basePropertyOf = require('./_basePropertyOf');

/** Used to map Latin Unicode letters to basic Latin letters. */
var deburredLetters
```

```javascript
require('./_deburrLetter').replace(reComboMark, '');
}

module.exports = deburr;
```

```javascript
var basePropertyOf = require('./_basePropertyOf');

/** Used to match Latin Unicode letters (excluding mathematical operators). */
var reLatin
```

```javascript
[combining diacritical marks](https://en.wikipedia.org/wiki/Combining_Diacritical_Marks) and
 * [combining diacritical marks for symbols](https://en.wikipedia.org/wiki/Combining_Diacritical_Marks_for_Symbols). 
 */
var reComomboMark = require('./_basePropertyOf');

/**
 * A specialized version of `_.reduce` for arrays without support for
 * iteratee shorthands. This function is similar to `_.arrayReduce` except
 * it invokes the `iteratee` function with the index of each element in
 * the array as the second argument. See `_.arrayReduce` for more details.

@returns {Function} Returns the new function.
*/
function arrayReduce(array, callback, accumulator, initAccum)
```

```javascript
return
```

```javascript

/** Used to compose unicode character classes.
 */
var
```

```javascript
reApos = RegExp(rsApos, "g");
```

```javascript
function
```

```javascript
function
```

```javascript

/** Used to match Latin-1 Supplement marks. */
var rsApos = "['\u2019']";
```

```javascript
function
```

```javascript
function
```

```javascript
function
```

```javascript
function
```

```javascript
function
```

```javascript
function
```

```javascript
function
```

```javascript
function
```
value));
}

var getMapData = require('./_getMapData');

var isKeyable = function(value) {
  var type = typeof value;
  return (type == 'string' || type == 'number' || type == 'symbol' || type == 'boolean')
    ? (value !== '__proto__')
    : (value === null);
}

module.exports = isKeyable;

var getMapData = require('./_getMapData');

function mapCacheGet(key) {
  return getMapData(this, key).get(key);
}

module.exports = mapCacheGet;

function mapCacheHas(key) {
  return getMapData(this, key).has(key);
}

module.exports = mapCacheHas;

function mapCacheSet(key, value) {
  var data = getMapData(this, key),
      size = data.size;

  data.set(key, value);
  this.size += data.size == size ? 0 : 1;
  return this;
}

module.exports = mapCacheSet;

var baseIsMatch = require('./_baseIsMatch'),
    getMatchData = require('./_getMatchData'),
    matchesStrictComparable = require('./_matchesStrictComparable');

function baseMatches(source) {
  var matchData = getMatchData(source);
  if (matchData.length == 1 && matchData[0][2]) {
    return matchesStrictComparable(matchData[0][0], matchData[0][1]);
  }
  return function(object) {
    return object === source || baseIsMatch(object, source, matchData);
  };
}

module.exports = baseMatches;

var Stack = require('./_Stack'),
    baseIsEqual = require('./_baseIsEqual');

var COMPARE_PARTIAL_FLAG = 1,
    COMPARE_UNORDERED_FLAG = 2;

function _matchesStrictComparable(object, source) {
  var Stack = require('./_Stack'),
      baseIsEqual = require('./_baseIsEqual'),
      matchesStrictComparable = require('./_matchesStrictComparable');
  return matchesStrictComparable(object, source);
}

function baseIteratee(baseIsMatch, isArrayLike, keys) {
  var _find = baseIsMatch ? 'find' : 'findLast';
  function getGetMatchData(object, source, matchData) {
    return function(key) {
      var result = baseIsMatch(object, source, matchData);
      if (result === object) {
        return result;
      }
    };
  }
}

module.exports = baseIteratee;

var getMapData = require('./_getMapData');

function mapCacheDelete(key) {
  var result = getMapData(this, key)['delete'](key);
  this.size -= result ? 1 : 0;
  return result;
}

module.exports = mapCacheDelete;

function createFind(findIndexFunc) {
  return function(collection, predicate, fromIndex) {
    var iterable = Object(collection);
    if (!isArrayLike(collection)) {
      var iteratee = baseIteratee(findIndexFunc, isArrayLike, keys);
      predicate = function(key) { return iteratee(iterable[key], key, iterable); };
    }
    var index = findIndexFunc(collection, predicate, fromIndex);
    return index > -1 ? iterable[index] : undefined;
  };
}

module.exports = createFind;
false; | } ] else { in var stack = new Stack; } if (customizer) { in var result = customizer(objValue, srcValue, key, object, source, stack); } in if (!is(result === undefined) ? baseIsEqual(srcValue, objValue, COMPARE_PARTIAL_FLAG | COMPARE_UNORDERED_FLAG, customizer, stack) : result) ) { in return false; } in } in return true; } in module.exports = baseIsMatch; } , \n \n var ListCache = require(\'./_ListCache\'); \n \n /** \n * Removes all key-value entries from the stack. \n * \n * @param {Object} stack The stack to clear. \n * @returns {Object} Returns the stack. \n */ \n function stackClear() { \n this.__data__ = new ListCache; \n this.size = 0; } \n \n module.exports = stackClear; \n \n /** \n * Removes `key` and its value from the stack. \n * \n * @param {Object} stack The stack to delete from. \n * @param {string} key The key of the value to delete. \n * @returns {Object} Returns the stack. \n */ \n function stackDelete(key) { \n var data = this.__data__; \n var result = data[\'delete\'](key); \n \n this.size = data.size; \n return result; } \n \n module.exports = stackDelete; \n \n /** \n * Gets the stack value for `key`. \n * \n * @param {Object} stack The stack to get from. \n * @param {string} key The key of the value to get. \n * @returns {*} \n */ \n function stackGet(key) { \n return this.__data__[key]; \n } \n \n module.exports = stackGet; \n \n /** \n * Checks if a stack value for `key` exists. \n * \n * @param {Object} stack The stack to check. \n * @param {string} key The key of the value to check. \n * @returns {boolean} \n */ \n function stackHas(key) { \n return this.__data__[key]; \n } \n \n module.exports = stackHas; \n \n /** \n * Sets the stack `key` to `value`. \n * \n * @param {Object} stack The stack to set on. \n * @param {string} key The key of the value to set. \n * @param {Object} value The value to set. \n * @returns {Object} Returns the stack. \n */ \n function stackSet(key, value) { \n var data = this.__data__; \n \n if (data instanceof ListCache) { \n \n if (!Map || (data.size < LARGE_ARRAY_SIZE - 1)) { \n \n return stack; \n } \n \n data = this.__data__; \n \n stack.size = data.size; \n return result; } \n \n } \n \n module.exports = stackSet;
convert || (convert = setToArray);

      if (object.size != other.size && !isPartial) { return false;
    } // Assume cyclic values are equal
    var stack = stack.get(object);
    if (stacked) { return stacked == other;
  } // bitmask |= COMPARE_UNORDERED_FLAG;

    return;

  } // convert

    var object = equalArrays(convert(object), convert(other), bitmask, customizer, equalFunc, stack);

    stack.delete(object);

    return result;

  case SymbolTag:

    if (symbolValueOf) {
      return symbolValueOf.call(object) == symbolValueOf.call(other);
    }
  }

  return false;
}

module.exports = equalByTag;

var root = require('./_root');

/** Built-in value references. */
var Uint8Array = root.Uint8Array;

module.exports = Uint8Array;

/**
 * Converts `map` to its key-value pairs.
 *
 * @private
 * @param {Object} map The map to convert.
 * @returns {Array} Returns the key-value pairs.
 */
function mapToArray(map) {
  var index = -1,
      result = Array(map.size);

  map.forEach(function(value, key) {
    result[++index] = [key, value];
  });
  return result;
}

module.exports = mapToArray;

/**
 * Converts `set` to an array of its values.
 *
 * @private
 * @param {Object} set The set to convert.
 * @returns {Array} Returns the values.
 */
function setToArray(set) {
  var index = -1,
      result = Array(set.size);

  set.forEach(function(value) {
    result[++index] = value;
  });
  return result;
}

module.exports = setToArray;

var getAllKeys = require('./_getAllKeys');

/** Used to compose bitmasks for value comparisons. */
var COMPARE_PARTIAL_FLAG = 1;

/** Used for built-in method references. */
var objectProto = Object.prototype;

/** Used to check objects for own properties. */
var hasOwnProperty = objectProto.hasOwnProperty;

/**
 * A specialized version of `baseIsEqualDeep` for objects
 * with support for partial deep comparisons.
 *
 * @private
 * @param {Object} object The object to compare.
 * @param {Object} other The other object to compare.
 * @param {number} bitmask The bitmask flags.
 * @param {Function} customizer The function to customize comparisons.
 * @param {Function} equalFunc The function to determine equivalents of values.
 * @param {Object} stack Tracks traversed `object` and `other` objects.
 * @returns {boolean} Returns `true` if the objects are equivalent, else `false`.
 */
function equalObjects(object, other, bitmask, customizer, equalFunc, stack) {
  var isPartial = bitmask & COMPARE_PARTIAL_FLAG,
      objProps = getAllKeys(object),
      objLength = objProps.length,
      othProps = getAllKeys(other),
      othLength = othProps.length;

  if (objLength != othLength && !isPartial) {
    return false;
  }

  var result = true;
  stack.set(object, other);
  stack.set(other, object);

  var skipCtor = isPartial;
  while (++index < objLength) {
    var key = objProps[index];
    var objValue = object[key],
        othValue = other[key];

    if (customizer) {
      var compared = isPartial
        ? customizer(othValue, objValue, key, other, object, stack)
        : customizer(objValue, othValue, key, object, other, stack);
    }

    // Recursively compare objects (susceptible to call stack limits).
    if (!(compared === undefined
          ? (objValue === othValue || equalFunc(objValue, othValue, bitmask, customizer, stack))
          : compared
        )) {
      result = false;
      break;
    }
  }

  if (result && !skipCtor) {
    var objCtor = object.constructor,
        othCtor = other.constructor;

    // Non `Object` object instances with different constructors are not equal.
    if (objCtor != othCtor &
        ('constructor' in object &
        'constructor' in other) &
        (!typeOf(object) == 'function' &
        'object' in object &
        'object' in other)) {
      return false;
    }
  }

  return result;
}

module.exports = equalObjects;

var baseGetAllKeys = require('./_baseGetAllKeys'),
    getSymbols = require('./_getSymbols'),
    keys = require('./keys');

/**
 * Creates an array of own enumerable property names and symbols of `object`.
 *
 * @private
 * @param {Object} object The object to query.
 * @returns {Array} Returns the array of property names and symbols.
 */
function getAllPropertyNames(object) {
  var result = false;

  return result;
}

module.exports = getAllPropertyNames;
keysFunc The function to get the keys of `object`. `@returns {Array}` Returns the array of property names and symbols.

* `@function baseGetAllKeys(object, keysFunc, symbolsFunc)` { `@param {Function} keysFunc` The function to get the elements of `object`. `@param {Function} symbolsFunc` The function to get the symbols of `object`. `@returns [Array]` Returns the array of property names and symbols.

* `@function arrayPush(result, symbolsFunc(object));` `@unmodule.exports = baseGetAllKeys;` `@/*\n * @param {Array} result` The array to modify. `@returns [Array]` Returns the new filtered array.

* `@function arrayLikeKeys(value, inherited)` Returns an array of property names.

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* `@function arrayLikeKeys(value, inherited)` Returns an array of property names.

* `@function arrayLikeKeys(value, inherited)` Returns an array of property names.

* `@function baseGetAllKeys(object, keysFunc, symbolsFunc)` { `@param {Function} symbolsFunc` The function to get the symbols of `object`. `@returns [Array]` Returns the array of property names and symbols.
objectProto = Object.prototype;

/**
 * Checks if `value` is likely a prototype object.
 * @private
 * @param {*} value The value to check.
 * @returns {boolean} Returns `true` if `value` is a prototype, else `false`.
 */
function isPrototype(value) {
  var Ctor = value && value.constructor,
      proto = (typeof Ctor == 'function' && Ctor.prototype) || objectProto;

  return proto == value;
}

module.exports = isPrototype;

var nativeKeys = Object.keys,
    nativePrototype = Object.prototype;

/**
 * Gets the property names, values, and compare flags of `object`.
 * @private
 * @param {Object} object The object to query.
 * @returns {Array} Returns the match data of `object`.
 */
function getMatchData(object) {
  var result = keys(object),
      length = result.length;

  while (length--) {
    var key = result[length],
        value = object[key];

    result[length] = [key, value, isStrictComparable(value)];
  }
  return result;
}

module.exports = getMatchData;

var baseIsEqual = baseIsEqualDeep, get = getRuntimeValue, hasIn = hasInDeep,
    isKey = isKeyDeep, isStrictComparable = baseIsEqualDeep,
    matchesStrictComparable = matchesStrictComparableDeep,
    toKey = toKeyDeep;

/**
 * The base implementation of `_.matchesProperty` which doesn't clone `srcValue`.
 * @private
 * @param {string} [path] The path of the property to get.
 * @returns {Function} Returns the new spec function.
 */
function matchesProperty(path, srcValue) {
  return matchesStrictComparable(matchesProperty(path, srcValue));
}

var COMPARE_PARTIAL_FLAG = 1,
    COMPARE_UNORDERED_FLAG = 2,
    COMPARE_PARTIAL_FLAG

function(object) {
    var objValue = get(object, path);
    return (objValue === undefined && objValue !== srcValue)
      ? hasIn(object, path)
      : baseIsEqual(srcValue, objValue, COMPARE_PARTIAL_FLAG |
        COMPARE_UNORDERED_FLAG);
  };
}

module.exports = baseMatchesProperty;

var baseGet = require('./_baseGet');

/**
 * Gets the value at `path` of `object`. If the resolved value is `undefined`, the
`defaultValue` is returned in its place.

* @static
* @memberOf _
* @param {Object} object The object to query.
* @param {Array|string} path The path of the property to get.
* @param {*} [defaultValue] The value returned for `undefined` resolved values.
* @returns {*} Returns the resolved value.
*/
function get(object, path, defaultValue) {
  var result = object == null ? undefined : baseGet(object, path);
  return result === undefined ? defaultValue : result;
}

module.exports = get;

var memoizeCapped = require('./_memoizeCapped');

/**
 * Converts `string` to a property path array.
 *
* @private
* @param {string} string The string to convert.
* @returns {Array} Returns the property path array.
*/
var stringToPath = memoizeCapped(function(string) {
  var result = 
    string.replace(rePropName, function(match, number, quote, subString) {
      result.push(quote ? subString.replace(reEscapeChar, '$1') : (number || match));
    });
  return result;
});

module.exports = stringToPath;

var baseHasIn = require('./_baseHasIn'),
    hasPath = require('./_hasPath');

/**
 * Checks if `path` exists on `object`.
 *
* @private
* @param {Object} object The object to query.
* @param {Array|string} path The path to check.
* @returns {boolean} Returns `true` if `path` exists, else `false`.
*/
function hasPath(object, path) {
  path = castPath(path, object);

  var index = -1,
      length = path.length,
      result = false;

  while (++index < length) {
    var key = toKey(path[index]);
    if (!(result = object != null && hasPath(object, key))) {
      break;
    }
    object = object[key];
  }
  if (result || ++index != length) {
    return result;
  }
  length = object == null ? 0 : object.length;
  return !!length && isLength(length) && isIndex(key, length) &&
    (isArray(object) || isArguments(object));
}

module.exports = hasPath;

/**
 * This method
* returns the first argument it receives.
 *
* @static
* @since 0.1.0
* @memberOf _
* @category Util
* @param {*} value Any value.
* @returns {*} Returns `value`.
* @example
*
* var object = { 'a': 1 };
*
* console.log(_.identity(object) === object);
* // => true
*/
function identity(value) {
  return value;
}
value;
} \n \n module.exports = identity;
" var baseProperty = require('./_baseProperty');
 \n basePropertyDeep = require('./_basePropertyDeep');
\n isKey = require('./_isKey');
 \n toKey = require('./_toKey');
\n /* * A simplistic object that represents a property.
\n * @constructor
\n * @param {string} key The key of the property.
\n * @returns {Object} The object that represents the property.
\n * @example
\n * var object = { 'a': { 'b': 2 } };
\n * \n * object.a.b = 3;
\n * \n * object.a.b; // 3
\n */

var property = function (key) {
  return isKey(key) ? baseProperty(toKey(key)) :
                      basePropertyDeep(key);
}

module.exports = property;

/**
 * The base implementation of `_.property` without support for deep paths.
 * @private
 * @param {string} key The key of the property.
 * @returns {Function} A function that returns the value of `key` on `obj`.
 * @example
 * \n * var object = { 'a': { 'b': 2 } };
\n * object.a.b = 3;
\n * \n * object.a.b(); // 3
\n */

function baseProperty(key) {
  return function (object) {
    return object == null ? undefined : object[key];
  };
}

module.exports = baseProperty;

var baseGet = require('./_baseGet');

/**
 * A simplified version of `baseProperty` which supports deep paths.
 * @private
 * @param {Array|string} path The path of the property to get.
 * @returns {Function} A function that returns the value of `path` on `obj`.
 * @example
 * \n * var object = { 'a': { 'b': 2 } };
\n * object.a.b = 3;
\n * \n * object.a.b(); // 3
\n * object.a.b(2); // 2
\n */

function basePropertyDeep(path) {
  return function (object) {
    return baseGet(object, path);
  };
}

module.exports = basePropertyDeep;

var baseFindIndex = require('./_baseFindIndex'),
    baseIteratee = require('./_baseIteratee'),
    toInteger = require('./toInteger');

/**
 * A simplified implementation of `_.findIndex`.
 * @param {Array} array The array to inspect.
 * @param {Function} predicate The function invoked per iteration.
 * @param {number} fromIndex The index to search from.
 * @returns {number} Returns the index of the found value, else `-1`.
 * @example
 * \n * var array = [0, 1, 2, 3, 4];
\n * _.findIndex(array, function (n) {
 *   return n > 2;
 * }); // => 3
\n */

function findIndex(array, predicate, fromIndex) {
  var length = array == null ? 0 : array.length;
  if (!length) {
    return -1;
  }
  var index = fromIndex == null ? 0 : toInteger(fromIndex);
  if (index < 0) {
    index = nativeMax(length + index, 0);
  }
  return baseFindIndex(array, baseIteratee(predicate, 3), index);
}

module.exports = findIndex;

/**
 * The base implementation of `_.findIndex` and `_.findLastIndex` without
 * support for iteratee shorthands.
 * @private
 * @param {Array} array The array to search.
 * @param {Function} predicate The function invoked per iteration.
 * @param {number} fromIndex The index to search from.
 * @param {boolean} [fromRight] Specify iterating from right to left.
 * @returns {number} Returns the index of the found value, else `-1`.
 * @example
 * \n * var array = [0, 1, 2, 3, 4];
\n * _.findIndex(array, function (n) {
 *   return n > 2;
 * }, 2); // => 3
\n */

function baseFindIndex(array, predicate, fromIndex, fromRight) {
  var length = array == null ? 0 : array.length,
      index = fromIndex + (fromRight ? 1 : -1);

  while ((fromRight ? index-- : ++index < length)) {
    if (predicate(array[index], index, array)) {
      return index;
    }
  }
  return -1;
}

module.exports = baseFindIndex;

var toFinite = require('./toFinite');

/** Used as references for various `Number` constants. */
var INFINITY = 1 / 0,
    MAX_INTEGER = 1.7976931348623157e+308;

/**
 * Converts `value` to a number.
 * @static
 * @memberOf _
 * @since 4.0.0
 * @category Lang
 * @param {string|Object} value The value to convert.
 * @returns {number} The converted number.
 * @example
 * \n * _.toNumber(3.2);
 * // => 3.2
\n */

function toNumber(value) {
  return toFinite(value);
}

module.exports = toNumber;

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_.toFinite(Number.MIN_VALUE);\n * // => 5e-324\n *\n * _.toFinite(Infinity);\n * // =>
1.7976931348623157e+308\n *\n * _.toFinite('3.2');\n * // => 3.2\n */\nfunction toFinite(value) {\n if (!value) {\n
return value === 0 ? value : 0;\n }\n value = toNumber(value);\n if (value === INFINITY || value === INFINITY) {\n var sign = (value < 0 ? -1 : 1);\n return sign * MAX_INTEGER;\n }\n return value === value ?
value : 0;\n}\n\nmodule.exports = toFinite;\n","var isObject = require('./isObject'),\n isSymbol =
require('./isSymbol');\n\n/** Used as references for various `Number` constants. */\nvar NAN = 0 / 0;\n\n/** Used
to match leading and trailing whitespace. */\nvar reTrim = /^\\s+|\\s+$/g;\n\n/** Used to detect bad signed
hexadecimal string values. */\nvar reIsBadHex = /^[-+]0x[0-9a-f]+$/i;\n\n/** Used to detect binary string values.
*/\nvar reIsBinary = /^0b[01]+$/i;\n\n/** Used to detect octal string values. */\nvar reIsOctal = /^0o[07]+$/i;\n\n/** Built-in method references without a dependency on `root`. */\nvar freeParseInt = parseInt;\n\n/**\n *
Converts `value` to a number.\n *\n * @static\n * @memberOf _\n * @since 4.0.0\n * @category Lang\n * @param
{*} value The value to process.\n * @returns {number} Returns the number.\n * @example\n *\n *
_.toNumber(3.2);\n * // => 3.2\n *\n * _.toNumber(Number.MIN_VALUE);\n * // => 5e-324\n *\n *
_.toNumber(Infinity);\n * // => Infinity\n *\n * _.toNumber('3.2');\n * // => 3.2\n */\nfunction toNumber(value) {\n
if (typeof value == 'number') {\n return value;\n }\n if (isSymbol(value)) {\n return NAN;\n }\n if
(isObject(value)) {\n var other = typeof value.valueOf == 'function' ? value.valueOf() : value;\n value =
isObject(other) ? (other + '') : other;\n }\n if (typeof value != 'string') {\n return value === 0 ? value : +value;\n
}\n value = value.replace(reTrim, '');\n var isBinary = reIsBinary.test(value);\n return (isBinary ||
reIsOctal.test(value))\n ? freeParseInt(value.slice(2), isBinary ? 2 : 8)\n : (reIsBadHex.test(value) ? NAN :
+value);\n}\n\nmodule.exports = toNumber;\n","var baseEach = require('./_baseEach');\n\n/**\n * The base
implementation of `_.some` without support for iteratee shorthands.\n *\n * @private\n * @param {Array|Object}
collection The collection to iterate over.\n * @param {Function} predicate The function invoked per iteration.\n *
@returns {boolean} Returns `true` if any element passes the predicate check,\n * else `false`.\n */\nfunction
baseSome(collection, predicate) {\n var result;\n\n baseEach(collection, function(value, index, collection) {\n
result = predicate(value, index, collection);\n return !result;\n });\n return !!result;\n}\n\nmodule.exports =
baseSome;\n","var baseForOwn = require('./_baseForOwn'),\n createBaseEach =
require('./_createBaseEach');\n\n/**\n * The base implementation of `_.forEach` without support for iteratee
shorthands.\n *\n * @private\n * @param {Array|Object} collection The collection to iterate over.\n * @param
{Function} iteratee The function invoked per iteration.\n * @returns {Array|Object} Returns `collection`.\n */\nvar
baseEach = createBaseEach(baseForOwn);\n\nmodule.exports = baseEach;\n","var baseFor = require('./_baseFor'),\n
keys = require('./keys');\n\n/**\n * The base implementation of `_.forOwn` without support for iteratee
shorthands.\n *\n * @private\n * @param {Object} object The object to iterate over.\n * @param {Function}
iteratee The function invoked per iteration.\n * @returns {Object} Returns `object`.\n */\nfunction
baseForOwn(object, iteratee) {\n return object && baseFor(object, iteratee, keys);\n}\n\nmodule.exports =
baseForOwn;\n","var createBaseFor = require('./_createBaseFor');\n\n/**\n * The base implementation of
`baseForOwn` which iterates over `object`\n * properties returned by `keysFunc` and invokes `iteratee` for each
property.\n * Iteratee functions may exit iteration early by explicitly returning `false`.\n *\n * @private\n * @param
{Object} object The object to iterate over.\n * @param {Function} iteratee The function invoked per iteration.\n *
@param {Function} keysFunc The function to get the keys of `object`.\n * @returns {Object} Returns `object`.\n
*/\nvar baseFor = createBaseFor();\n\nmodule.exports = baseFor;\n","/**\n * Creates a base function for methods
like `_.forIn` and `_.forOwn`.\n *\n * @private\n * @param {boolean} [fromRight] Specify iterating from right to
left.\n * @returns {Function} Returns the new base function.\n */\nfunction createBaseFor(fromRight) {\n return
function(object, iteratee, keysFunc) {\n var index = -1,\n
iterable = Object(object),\n
props =
keysFunc(object),\n
length = props.length;\n\n while (length--) {\n
var key = props[fromRight ? length :
++index];\n
if (iteratee(iterable[key], key, iterable) === false) {\n
break;\n
}\n }\n return object;\n
};\n}\n\nmodule.exports = createBaseFor;\n","var isArrayLike = require('./isArrayLike');\n\n/**\n * Creates a
`baseEach` or `baseEachRight` function.\n *\n * @private\n * @param {Function} eachFunc The function to iterate
over a collection.\n * @param {boolean} [fromRight] Specify iterating from right to left.\n * @returns {Function}

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Returns the new base function.

```
function createBaseEach(eachFunc, fromRight) {
  function createBaseEachEachFunc, fromRight) {
    var length = collection.length,
    index = fromRight ? length : -1,
    iterable = Object(collection);
    while ((fromRight ? index-- : ++index < length)) {
      if (iteratee(iterator[index], index, iterable) !== false) {
        break;
      }
    }
    return collection;
  }
  return function(collection, iteratee) {
    if (collection == null) {
      return collection;
    }
    if (!isArrayLike(collection)) {
      return eachFunc(collection, iteratee);
    }
    var length = collection.length,
    index = fromRight ? length : -1,
    iterable = Object(collection);
    while ((fromRight ? index-- : ++index < length)) {
      if (iteratee(iterator[index], index, iterable) !== false) {
        break;
      }
    }
    return collection;
  }
}

module.exports = createBaseEach;
```

```
var eq = require('./eq'),
    isArrayLike = require('./isArrayLike'),
    isIndex = require('./_isIndex'),
    isObject = require('./isObject');

/**
 * Checks if the given arguments are
 * from an iteratee call.
 *
 * @private
 * @param {*} value The potential iteratee value argument.
 * @param {*} index The potential iteratee index or key argument.
 * @param {*} object The potential iteratee object argument.
 * @returns {boolean} Returns 'true' if the arguments are from an iteratee call,
 * 'false' otherwise.
 */
function isIterateeCall(value, index, object) {
  if (!isObject(object)) {
    return false;
  }
  var type = typeof index;
  if (type == 'number'
        ? (isArrayLike(object) && isIndex(index, object.length))
        : (type == 'string' && index in object)) {
    return eq(object[index], value);
  }
  return false;
}
```

```
var XML_CHARACTER_MAP = {
    '&': '&amp;',
    '"': '&quot;',
    "'": '&apos;',
    '<': '<',
    '>': '>
};

function escapeForXML(string) {
    return string && string.replace
        ? string.replace(/([&"<>'\])/g, function(str, item) {
            return XML_CHARACTER_MAP[item];
          })
        : string;
}
```

```
// Copyright Joyent, Inc. and other Node contributors.
//
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// THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY,
// WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN
// CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
```

```
module.exports = Stream;
```

```
var EE = require('events').EventEmitter;
var inherits = require('inherits');

inherits(Stream, EE);
Stream.Readable = require('readable-stream/readable.js');
Stream.Writable = require('readable-stream/writable.js');
Stream.Duplex = require('readable-stream/duplex.js');
Stream.Transform = require('readable-stream/transform.js');
Stream.PassThrough = require('readable-stream/passthrough.js');
```

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function Stream() {
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```
installPostMessageImplementation() { 
    // Installs an event handler on `global` for the ‘message’ event: see
    var messagePrefix = "setImmediate$" + Math.random() + "\n";
    var onGlobalMessage = function(event) {
        if (event.source === global &
            typeof event.data === "string" &
            event.data.indexOf(messagePrefix) === 0) {
            runIfPresent(+event.data.slice(messagePrefix.length));
        } else {
            global.postMessage(event.data, "*");
        }
    }
    global.addEventListener("message", onGlobalMessage, false);
    global.addEventListener("message", function(event) {
        if (event.data.indexOf(messagePrefix) === 0) {
            runIfPresent(+event.data.slice(messagePrefix.length));
        } else {
            global.postMessage(event.data, "*");
        }
    }, false);
}

installMessageChannelImplementation() { 
    var channel = new MessageChannel();
    channel.port1.onmessage = function(event) {
        var handle = event.data;
        runIfPresent(handle);
    };
    channel.port2.postMessage(handle);
    registerImmediate = function(handle) {
        channel.port2.postMessage(handle);
    };
}

installReadyStateChangeImplementation() { 
    var html = doc.documentElement;
    registerImmediate = function(handle) {
        // Create a <script> element; its readystatechange event will be
        // fired asynchronously once it is inserted
        // into the document. Do so, thus queuing up the task.
        // Remember to clean up once it’s been called.
        var script = doc.createElement("script");
        script.onreadystatechange = function () {
            runIfPresent(handle);
            script.onreadystatechange = null;
        };
        html.appendChild(script);
    };
}

installSetTimeoutImplementation() { 
    setTimeout(runIfPresent, 0, handle);
}

attachTo = Object.getPrototypeOf &&
Object.getPrototypeOf(global);
attachTo = attachTo &&
attachTo.setTimeout ? attachTo : global;

attachTo = attachTo &&
attachTo.setImmediate ? attachTo : global;

attachTo = attachTo &&
attachTo.clearImmediate ? attachTo : global;

installImmediate = function(handle) {
    var channel = new MessageChannel();
    channel.port1.onmessage = function(event) {
        var handle = event.data;
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    channel.port2.postMessage(handle);
    registerImmediate = function(handle) {
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}

installNextTickImplementation() { 
    var fn = function() {
        runIfPresent(handle);
    };
    fn();
}

installPostMessageImplementation() { 
    var channel = new MessageChannel();
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        var handle = event.data;
        runIfPresent(handle);
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}

installReadyStateChangeImplementation() { 
    var html = doc.documentElement;
    // For web workers, where supported
    installMessageChannelImplementation();
    registerImmediate = function(handle) {
        // Fired when the DOM has reached a new `readyState`.
        // Don’t neglect to fire this even if the document is
        //孕妇
        // insertion.
        runIfPresent(handle);
    };
}

installSetTimeoutImplementation() { 
    setTimeout(runIfPresent, 0, handle);
}

attachTo = Object.getPrototypeOf &&
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attachTo = attachTo &&
attachTo.setTimeout ? attachTo : global;

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}
var assign

module.exports = function (original, length, options) {
  var cache = create(null)
  , conf
  , create = Object.create
  , defineProperties = Object.defineProperties
  , on = ee.on
  , emit = ee.emit
  , normalizer = resolveNormalize(options.normalizer)
  , extGet = normalizer.get
  , extSet = normalizer.set
  , extDel = normalizer.delete
  , extClear = normalizer.clear
  , util = require("../object/assign")
  , isObject = require("../object/is-object")
  , isValue = require("../object/is-value")

  conf = {
    original:
    memoized:
    profileName: options.profileName,
    get: function (args) {
      if (args.length === 1) result = call.call(original, this, args[0]);
      else result = apply.call(original, this, args);
      if (hasOwnProperty.call(cache, "data")) {
        throw customError("Circular invocation", "CIRCULAR_INVOCATION");
      }
      cache.data = result;
      if (hasOwnProperty.call(cache, id)) {
        cache[id] = result;
        if (setListeners) conf.emit("set", id, null, result);
      }
      return result;
    },
    set: function (id, args) {
      var result = apply.call(original, this, args);
      if (hasOwnProperty.call(cache, id)) {
        throw customError("Circular invocation", "CIRCULAR_INVOCATION");
      }
      cache[id] = result;
      if (setListeners) conf.emit("set", id, null, result);
      return result;
    },
    delete: function (id) {
      var result = apply.call(original, this, args);
      if (hasOwnProperty.call(cache, id)) {
        throw customError("Circular invocation", "CIRCULAR_INVOCATION");
      }
      cache[id] = result;
      if (deleteListeners) conf.emit("delete", id, result);
      return result;
    },
    clear: function () {
      var oldCache = cache;
      cache = create(null);
      conf.emit("clear", oldCache);
      function (type, listener) {
        if (type === "get") getListeners = true;
        if (type === "set") setListeners = true;
        if (type === "delete") deleteListeners = true;
        if (type === "return on call.
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      }
    }

  function (type, listener) {
    if (type === "get") getListeners = true;
Open Source Used In Cisco Modeling Labs 2.2

Number.isNaN(value) !== \"function\") return false;\n\nreturn !Number.isNaN({}) &\n& !Number.isNaN(NaN) &\n& !Number.isNaN(34));\n\n\n"use strict";\n\nmodule.exports = function (value) {\n  var indexOf = require("es5-ext/array/#/e-index-of")\n  ;\n  module.exports = function () {\n    var lastId = 0, cache = [], result;\n    var u = \n\n    return function (args) {\n      return result;\n    };\n  };\n};

require("es5-ext/array/#/e-index-of")\nmodule.exports = function () {\n  var lastId = 0, argsMap = [], cache = []\n  \n  return function (args) {\n    return result;\n  };\n};

require("es5-ext/array/#/e-index-of")\nmodule.exports = function () {\n  var lastId = 0, argsMap = [], cache = []\n  \n  return function (args) {\n    return result;\n  };\n};
undefined; self.id; tcb = waiting[id]; delete waiting[id]; tcb(); cb; CB = currentCallback; if (typeof cb === 'function') {
  result = apply.call(cb, this, args);
} else {
  result = cache[id];
}

if (tcb.cb === currentCallback) {
  currentCallback = tcb.cb;
}

if (typeof tcb.cb === 'function') {
  tcb.cb = origCb;
}

return result;

/* eslint max-statements: 0 */

// Support for functions returning promise

"use strict";

var objectMap     = require("es5-ext/object/map")
  , primitiveSet  = require("es5-ext/object/primitive-set")
  , ensureString  = require("es5-ext/object/validate-stringifiable-value")
  , toShortString = require("es5-ext/to-short-string-representation")
  , isPromise     = require("is-promise")
  , nextTick      = require("next-tick");

var create = Object.create
  , supportedModes = primitiveSet("then", "then:finally", "done", "done:finally");

require("../lib/registered-extensions").promise = function (mode, conf) {
  var waiting = create(null), cache = create(null), promises = create(null);

  if (mode === true) {
    mode = null;
  } else if (mode) {
    mode = ensureString(mode);
    if (!supportedModes[mode]) {
      throw new TypeError("'" + toShortString(mode) + "' is not valid promise mode");
    }
  }

  // After not from cache call
  conf.on("set", function (id) {
    if (!currentCallback) {
      conf.delete(id);
      return;
    }
    if (waiting[id]) {
      // Race condition: asyncFn(1, cb), asyncFn.clear(), asyncFn(1, cb)
      if (typeof waiting[id] === 'function') waiting[id] = [waiting[id], currentCallback.cb];
      else waiting[id].push(currentCallback.cb);
    } else {
      waiting[id] = currentCallback.cb;
    }
    delete currentCallback.cb;
    currentCallback.id = id;
    currentCallback = null;
  });

  // On delete
  conf.on("delete", function (id) {
    var result;
    // If false, we don't have value yet, so we assume that intention is not to memoize this call. After value is obtained we don't cache it but gracefully pass to callback
    if (!currentCallback) {
      conf.delete(id);
      return;
    }
    if (waiting[id]) {
      // Race condition: asyncFn(1, cb), asyncFn.clear(), asyncFn(1, cb)
      if (typeof waiting[id] === 'function') waiting[id] = [waiting[id], currentCallback.cb];
      else waiting[id].push(currentCallback.cb);
    }
    delete currentCallback.cb;
    currentCallback.id = id;
    currentCallback = null;
  });

  // After not from cache call
  conf.on("set", function (id) {
    var result;
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    if (!currentCallback) {
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      if (typeof waiting[id] === 'function') waiting[id] = [waiting[id], currentCallback.cb];
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    currentCallback = null;
  });

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    if (!currentCallback) {
      conf.delete(id);
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    delete currentCallback.cb;
    currentCallback.id = id;
    currentCallback = null;
  });

  // After not from cache call
  conf.on("set", function (id) {
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      conf.delete(id);
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    if (!currentCallback) {
      conf.delete(id);
      return;
    }
    if (waiting[id]) {
      // Race condition: asyncFn(1, cb), asyncFn.clear(), asyncFn(1, cb)
      if (typeof waiting[id] === 'function') waiting[id] = [waiting[id], currentCallback.cb];
      else waiting[id].push(currentCallback.cb);
    }
    delete currentCallback.cb;
    currentCallback.id = id;
    currentCallback = null;
  });

  // After not from cache call
  conf.on("set", function (id) {
    var result;
    // If false, we don't have value yet, so we assume that intention is not to memoize this call. After value is obtained we don't cache it but gracefully pass to callback
    if (!currentCallback) {
      conf.delete(id);
      return;
    }
    if (waiting[id]) {
      // Race condition: asyncFn(1, cb), asyncFn.clear(), asyncFn(1, cb)
      if (typeof waiting[id] === 'function') waiting[id] = [waiting[id], currentCallback.cb];
      else waiting[id].push(currentCallback.cb);
    }
    delete currentCallback.cb;
    currentCallback.id = id;
    currentCallback = null;
  });

  // On delete
  conf.on("delete", function (id) {
    var result;
    // If false, we don't have value yet, so we assume that intention is not to memoize this call. After value is obtained we don't cache it but gracefully pass to callback
Error(Memoizee error: Retrieved promise does not implement 'done' in 'done:finally' model);\n\n\nif (typeof promise.done !== "function") {
  throw new Error(
    "Memoizee error: Retrieved promise does not implement 'done' in 'done:finally' model;\n    promise.done\n  );
}

// From cache (sync)\nconf.on("get", function (id, args, context) {
  var promise;
  if (waiting[id]) {
    ++waiting[id]; // Still waiting
    return;
  }
  promise = promises[id];
  var emit = function () {
    if (isPromise(promise)) {
      if (typeof promise.done === "function") promise.done(emit);
      else {
        promise.then(function () { nextTick(emit); });
      }
    } else {
      emit();
    }
  }
  conf.emit("getasync", id, args, context); }
});

// On delete\nconf.on("delete", function (id) {
  delete promises[id];
  if (waiting[id]) {
    delete waiting[id];
    return; // Not yet resolved\n  }
  delete cache[id];
  cache[id] = undefined;
  conf.emit("deleteasync", id, [result]);
});

// On clear\nconf.on("clear", function () {
  var oldCache = cache;
  cache = create(null);
  waiting = create(null);
  promises = create(null);
  conf.emit("clearasync", objectMap(oldCache, function (data) { return [data]; }));
});

// eslint-disable-next-line no-unused-vars\nmodule.exports = function (arg /*, …args*/) {
  var set = create(null);
  foreach.call(arguments, function (name) {
    set[name] = true;
  });
  return set;
};

var ensureValue   = require("./valid-value")
  , stringifiable = require("./validate-stringifiable");

module.exports = function (value) {
  return stringifiable(ensureValue(value));
};

var isCallable = require("./object/is-callable");

module.exports = function (stringifiable) {
  try {
    if (stringifiable && isCallable(stringifiable.toString)) return stringifiable.toString();
    return String(stringifiable);
  } catch (e) {
    throw new TypeError("Passed argument cannot be stringified");
  }
};

var safeToString = require("./safe-to-string");

var reNewLine = /[\n\r\u2028\u2029]/g;

module.exports = function (value) {
  var string = safeToString(value);
  // Trim if too long
  if (string.length > 100) string = string.slice(0, 99) + "…";
  // Replace eventual new lines\n  string = string.replace(reNewLine, function (char) {
    return JSON.stringify(char).slice(1, -1);
  });
  return string;
};

var isCallable = require("./object/is-callable");

module.exports = function (value) {
  try {
    if (value && isCallable(value.toString)) return value.toString();
    return String(value);
  } catch (e) {
    return "<Non-coercible to string value>";
  }
};

// Call dispose callback on each cache purge

"use strict";

var callable   = require("es5-ext/object/valid-callable")
  , forEach    = require("es5-ext/object/for-each")
  , extensions = require("../lib/registered-extensions")

  , apply = Function.prototype.apply;

extensions.dispose = function (dispose, conf, options) {
  var del;
  callable(dispose);
  if ((options.async && extensions.async) || (options.promise && extensions.promise)) {
    conf.on("deleteasync", del = function (id, resultArray) {
      conf.delete(id, resultArray);
    });
    conf.on("clearasync", function (cache) {
      foreach(cache, function (result, id) {
        del(id, result);
      });
    });
    conf.on("deleteasync", function (cache) {
      foreach(cache, function (result, id) {
        del(id, result);
      });
      delete cache[id];
      cache[id] = undefined;
      conf.emit("deleteasync", id, [result]);
    });
    conf.on("clearasync", function (cache) {
      foreach(cache, function (result, id) {
        del(id, result);
      });
      delete cache[id];
      cache[id] = undefined;
      conf.emit("clearasync", objectMap(cache, function (data) { return [data]; }));
    });
  }
  conf.on("delete", del = function (id, result) {
    dispose(result);
  });
  conf.on("clear", function (cache) {
    foreach(cache, function (result, id) {
      del(id, result);
    });
    delete cache[id];
    cache[id] = undefined;
    conf.emit("clearasync", objectMap(cache, function (data) { return [data]; }));
  });
};
var W = new Array(80)

function Sha () {
  this.init()

  Hash.call(this, 56)
}

inherits(Sha, Hash)

Sha.prototype.init = function () {
  this._a = 0x55555555
  this._b = 0x33333333
  this._c = 0x99999999
  this._d = 0xBBBBBBBB
  this._e = 0x88888888
  this._f = 0xEEEEEEEE

  return this
}

Sha.prototype._hash = function () {
  var H = Buffer.allocUnsafe(20)

  H.writeInt32BE(this._a | 0, 0)
  H.writeInt32BE(this._b | 0, 4)
  H.writeInt32BE(this._c | 0, 8)
  H.writeInt32BE(this._d | 0, 12)

  return H
}

module.exports = Sha

var Sha256 = new Sha();

var hash = Sha256.update('a').digest();

console.log(hash);
module.exports = Sha384

var inherits = require('inherits')
var SHA512 = require('./sha512')
var Hash = require('safe-buffer').Buffer
var Buffer

var W = new Array(160)

function Sha384 () {
  this.init()
  this._w = W

  Hash.call(this, 128,

  SHA512.prototype.init = function () {
    this._ah = 0xcbbb9d5d
    this._bh

Open Source Used In Cisco Modeling Labs 2.2

```
0x30;\n
/*eslint-disable no-bitwise*/\nlc = c | 0x20;\nif ((0x61/* a */ <= lc) && (lc <= 0x66/* f */)) {\n  return lc - 0x61 + 10;\n}\nreturn -1;\nfunction escapedHexLen(c) {\n  if (c === 0x61/* a */ <= 0x66/* f */) {\n    return 4;\n  }\n  return 0;\n}\nfunction fromDecimalCode(c) {\n  if ((0x30/* 0 */ <= c) && (c <= 0x39/* 9 */)) {\n    return c - 0x30;\n  }\n  return -1;\n}\nfunction simpleEscapeSequence(c) {\n  return (c === 0x30/* 0 */) ? '\x00' :
        (c === 0x61/* a */) ? '\x07' :
        (c === 0x62/* b */) ? '\x08' :
        (c === 0x74/* t */) ? '\x09' :
        (c === 0x09/* Tab */) ? '\x09' :
        (c === 0x6E/* n */) ? '\x0A' :
        (c === 0x66/* f */) ? '\x0C' :
        (c === 0x72/* r */) ? '\x0D' :
        (c === 0x65/* e */) ? '\x1B' :
        (c === 0x20/* Space */) ? ' ' :
        (c === 0x22/* " */) ? '\x22' :
        (c === 0x2F/* / */) ? '/' :
        (c === 0x5C/* \ */) ? '\x5C' :
        (c === 0x4E/* N */) ? '\x85' :
        (c === 0x5F/* _ */) ? '\xA0' :
        (c === 0x4C/* L */) ? '\u2028' :
        (c === 0x50/* P */) ? '\u2029' :
        (c === 0x22/* " */) ? '\x22' :
        (c === 0x2F/* / */) ? '/' :
        (c === 0x5C/* \ */) ? '\x5C' :
        (c === 0x4E/* N */) ? '\x85' :
        (c === 0x5F/* _ */) ? '\xA0' :
        (c === 0x4C/* L */) ? '\u2028' :
        (c === 0x50/* P */) ? '\u2029' :
        (c === 0x22/* " */) ? '\x22' :
        (c === 0x2F/* / */) ? '/' :
        (c === 0x5C/* \ */) ? '\x5C' :
        (c === 0x4E/* N */) ? '\x85' :
        (c === 0x5F/* _ */) ? '\xA0' :
        (c === 0x4C/* L */) ? '\u2028' :
        (c === 0x50/* P */) ? '\u2029' :
        (c === 0x22/* " */) ? '\x22' :
        (c === 0x2F/* / */) ? '/' :
        (c === 0x5C/* \ */) ? '\x5C' :
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        (c === 0x5F/* _ */) ? '\xA0' :
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        (c === 0x2F/* / */) ? '/' :
        (c === 0x5C/* \ */) ? '\x5C' :
        (c === 0x4E/* N */) ? '\x85' :
        (c === 0x5F/* _ */) ? '\xA0' :
        (c === 0x4C/* L */) ? '\u2028' :
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        (c === 0x22/* " */) ? '\x22' :
        (c === 0x2F/* / */) ? '/' :
        (c === 0x5C/* \ */) ? '\x5C' :
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        (c === 0x5C/* \ */) ? '\x5C' :
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        (c === 0x22/* " */) ? '\x22' :
        (c === 0x2F/* / */) ? '/' :
        (c === 0x5C/* \ */) ? '\x5C' :
        (c === 0x4E/* N */) ? '\x85' :
        (c === 0x5F/* _ */) ? '\xA0' :
        (c === 0x4C/* L */) ? '\u2028' :
        (c === 0x50/* P */) ? '\u2029' :
        (c === 0x22/* " */) ? '\x22' :
        (c === 0x2F/* / */) ? '/' :
        (c === 0x5C/* \ */) ? '\x5C' :
        (c === 0x4E/* N */) ? '\x85' :
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        (c === 0x50/* P */) ? '\u2029' :
        (c === 0x22/* " */) ? '\x22' :
        (c === 0x2F/* / */) ? '/' :
        (c === 0x5C/* \ */) ? '\x5C' :
        (c === 0x4E/* N */) ? '\x85' :
        (c === 0x5F/* _ */) ? '\xA0' :
        (c === 0x4C/* L */) ? '\u2028' :
        (c === 0x50/* P */) ? '\u2029' :
        (c === 0x22/* " */) ? '\x22' :
        (c === 0x2F/* / */) ? '/' :
        (c === 0x5C/* \ */) ? '\x5C' :
        (c === 0x4E/* N */) ? '\x85' :
        (c === 0x5F/* _ */) ? '\xA0' :
        (c === 0x4C/* L */) ? '\u2028' :
        (c === 0x50/* P */) ? '\u2029' :
        (c === 0x22/* " */) ? '\x22' :
        (c === 0x2F/* / */) ? '/' :
        (c === 0x5C/* \ */) ? '\x5C' :
        (c === 0x4E/* N */) ? '\x85' :
        (c === 0x5F/* _ */) ? '\xA0' :
        (c === 0x4C/* L */) ? '\u2028' :
        (c === 0x50/* P */) ? '\u2029' :
        (c === 0x22/* " */) ? '\x22' :
        (c === 0x2F/* / */) ? '/' :
        (c === 0x5C/* \ */) ? '\x5C' :
        (c === 0x4E/* N */) ? '\x85' :
        (c === 0x5F/* _ */) ? '\xA0' :
        (c === 0x4C/* L */) ? '\u2028' :
        (c === 0x50/* P */) ? '\u2029' :
        (c === 0x22/* " */) ? '\x22' :
        (c === 0x2F/* / */) ? '/' :
        (c === 0x5C/* \ */) ? '\x5C' :
        (c === 0x4E/* N */) ? '\x85' :
        (c === 0x5F/* _ */) ? '\xA0' :
        (c === 0x4C/* L */) ? '\u2028' :
        (c === 0x50/* P */) ? '\u2029' :
        (c === 0x22/* " */) ? '\x22' :
        (c === 0x2F/* / */) ? '/' :
```
source, overrideableKeys) {

  var sourceKeys, key, index, quantity;

  if (!common.isObject(source)) {
    throw new Error('cannot merge mappings; the provided source object is unacceptable');
  }

  sourceKeys = Object.keys(source);

  for (index = 0, quantity = sourceKeys.length; index < quantity; index += 1) {
    key = sourceKeys[index];

    if (!_hasOwnProperty.call(destination, key)) {
      destination[key] = source[key];
      overrideableKeys[key] = true;
    }
  }
}

function storeMappingPair(state, _result, overridableKeys, keyTag, keyNode, valueNode, startLine, startPos) {

  var index, quantity;

  // The output is a plain object here, so keys
  // can only be strings.

  // We need to convert keyNode to a string, but doing so can hang the process
  // (deeply nested arrays that explode exponentially using aliases).

  if (Array.isArray(keyNode)) {
    keyNode = Array.prototype.slice.call(keyNode);

    for (index = 0, quantity = keyNode.length; index < quantity; index += 1) {
      if (Array.isArray(keyNode[index])) {
        throwError(state, 'nested arrays are not supported inside keys');
      }
    }
  }

  if (typeof keyNode === 'object' && _class(keyNode) === 'Object') {
    keyNode = '[object Object]';
  }

  keyNode = String(keyNode);

  if (_result === null) {
    _result = {};
  }

  if (keyTag === 'tag:yaml.org,2002:merge') {
    if (Array.isArray(valueNode)) {
      for (index = 0, quantity = valueNode.length; index < quantity; index += 1) {
        mergeMappings(state, _result, valueNode[index], overridableKeys);
      }
    } else {
      mergeMappings(state, _result, valueNode, overridableKeys);
    }
  } else {
    if (!state.json &&
        !_hasOwnProperty.call(overridableKeys, keyNode) &&
        _hasOwnProperty.call(_result, keyNode)) {
      state.line = startLine || state.line;
      state.position = startPos || state.position;
      throwError(state, 'duplicated mapping key');
    }
    _result[keyNode] = valueNode;
    delete overridableKeys[keyNode];
  }

  return _result;
}

function testDocumentSeparator(state) {

  var _position = state.position,
      ch;

  ch = state.input.charCodeAt(_position);

  // Condition state.position === state.lineStart is tested
  // in parent on each call, for efficiency. No needs to test here again.

  if ((ch === 0x2D/* - */ || ch === 0x2E/* . */) &&
      ch === state.input.charCodeAt(_position + 1) &&
      ch === state.input.charCodeAt(_position + 2)) {

    _position += 3;

    ch = state.input.charCodeAt(_position + 1);

    return false;
  }

  if (ch === 0x3F/* ? */ || ch === 0x2D/* - */) {
    return false;
  }

  if (is_WS_OR_EOL(ch) || is_FLOW_INDICATOR(ch) ||
      ch === 0x23/* # */ ||
      ch === 0x26/* & */ ||
      ch === 0x2A/* * */ ||
      ch === 0x21/* ! */ ||
      ch === 0x7C/* | */ ||
      ch === 0x3E/* > */ ||
      ch === 0x27/* ' */ ||
      ch === 0x22/* " */ ||
      ch === 0x60/* ` */) {
    return false;
  }

  if (is_WHITE_SPACE(ch) ||
      is_FLOW_INDICATOR(ch) ||
      ch === 0x3F/* ? */ ||
      ch === 0x2D/* - */) {
    return false;
  }

  do {
    ch = state.input.charCodeAt(_position);
  } while (is_WHITE_SPACE(ch) ||
              is_FLOW_INDICATOR(ch) ||
              ch === 0x3F/* ? */ ||
              ch === 0x2D/* - */);
function composeNode(state, parentIndent, nodeContext, allowToSeek, allowCompact) {
  var allowBlockStyles, allowBlockScalars, allowBlockCollections, indentStatus = 1, // 1: this>parent, 0: this=parent, -1: this<parent

  atNewLine = false;
  hasContent = false;
  typeIndex, typeQuantity, type, flowIndent, blockIndent;

  if (state.listener !== null) {
    state.listener('open', state);
  }

  state.tag = null;
  state.anchor = null;
  state.kind = null;
  state.result = null;

  allowBlockStyles = allowBlockScalars = allowBlockCollections =
    CONTEXT_BLOCK_OUT === nodeContext ||
    CONTEXT_BLOCK_IN === nodeContext

  if (allowToSeek) {
    if (skipSeparationSpace(state, true, -1)) {
      atNewLine = true;

      if (state.lineIndent > parentIndent) {
        indentStatus = 1;
      } else if (state.lineIndent === parentIndent) {
        indentStatus = 0;
      } else if (state.lineIndent < parentIndent) {
        indentStatus = -1;
      }
    }
  }

  if (indentStatus === 1) {
    while (readTagProperty(state) || readAnchorProperty(state)) {
      if (skipSeparationSpace(state, true, -1)) {
        atNewLine = true;
        allowBlockCollections = allowBlockStyles;

        if (state.lineIndent > parentIndent) {
          indentStatus = 1;
        } else if (state.lineIndent === parentIndent) {
          indentStatus = 0;
        } else if (state.lineIndent < parentIndent) {
          indentStatus = -1;
        }
      } else {
        allowBlockCollections = false;
      }
    }
  } else if (CONTEXT_BLOCK_OUT === nodeContext) {
    flowIndent = parentIndent;
  } else if (CONTEXT_BLOCK_IN === nodeContext) {
    flowIndent = parentIndent + 1;
  } else if (allowBlockCollections) {
    blockIndent = state.position - state.lineStart;

    if (indentStatus === 1) {
      if (allowBlockCollections &&
          (readBlockSequence(state, blockIndent) ||
           readBlockMapping(state, blockIndent)) ||
          readFlowCollection(state, flowIndent)) {
        hasContent = true;
      } else if ((allowBlockScalars &&
          readBlockScalar(state, flowIndent)) ||
          readSingleQuotedScalar(state, flowIndent) ||
          readDoubleQuotedScalar(state, flowIndent)) {
        hasContent = true;
      } else if (readAlias(state)) {
        hasContent = true;

        if (state.tag !== null || state.anchor !== null) {
          throwError(state, 'alias node should not have any properties');
        }
      } else if (readPlainScalar(state, CONTEXT_FLOW_IN === nodeContext)) {
        hasContent = true;

        if (state.tag === '?') {
          for (typeIndex = 0, typeQuantity = state.implicitTypes.length; typeIndex < typeQuantity; typeIndex += 1) {
            type = state.implicitTypes[typeIndex];

            // Implicit resolving is not allowed for non-scalar types, and '?'
            // non-specific tag is only assigned to plain scalars. So, it isn't
            // needed to check for 'kind' conformity.

            if (type.resolve(state.result)) { // `state.result` updated in resolver if matched
              state.result = type.construct(state.result);
              state.tag = type.tag;
              if (state.anchor !== null) {
                state.anchorMap[state.anchor]
                = state.result;
              }
            }
          }
          hasContent = true;
        }
      }
    } else if (state.tag !== null) {
      hasContent = true;

      if (state.tag !== '!') {
        if (state.tag === '?') {
          for (typeIndex = 0, typeQuantity = state.implicitTypes.length; typeIndex < typeQuantity; typeIndex += 1) {
            type = state.implicitTypes[typeIndex];

            // Implicit resolving is not allowed for non-scalar types, and '?'
            // non-specific tag is only assigned to plain scalars. So, it isn't
            // needed to check for 'kind' conformity.

            if (type.resolve(state.result)) { // `state.result` updated in resolver if matched
              state.result = type.construct(state.result);
              state.tag = type.tag;
              if (state.anchor !== null) {
                state.anchorMap[state.anchor] = state.result;
              }
            }
          }
          hasContent = true;
        }
      }
    }
  } else if (state.tag !== null) {
    hasContent = true;

    if (state.tag !== '!') {
      hasContent = true;

      if (state.tag === '?') {
        for (typeIndex = 0, typeQuantity = state.implicitTypes.length; typeIndex < typeQuantity; typeIndex += 1) {
          type = state.implicitTypes[typeIndex];

          // Implicit resolving is not allowed for non-scalar types, and '?'
          // non-specific tag is only assigned to plain scalars. So, it isn't
          // needed to check for 'kind' conformity.

          if (type.resolve(state.result)) { // `state.result` updated in resolver if matched
            state.result = type.construct(state.result);
            state.tag = type.tag;
            if (state.anchor !== null) {
              state.anchorMap[state.anchor] = state.result;
            }
          }
        }
        hasContent = true;
      }
    }
  }

  if (state.listener !== null) {
    state.listener('close', state);
  }
  return state.tag !== null || state.anchor !== null || hasContent;
state.checkLineBreaks = state.legacy;\nstate.tagMap = {};\nstate.anchorMap = {};\nwhile ((ch = state.input.charCodeAt(state.position)) !== 0) {\n  skipSeparationSpace(state, true, -1);\n  ch = state.input.charCodeAt(state.position);\n  if (state.lineIndent > 0 || ch !== 0x25/* % */) {\n    break;\n  }\n  hasDirectives = true;\n  ch = state.input.charCodeAt(+state.position);\n  _position = state.position;\n  while (ch !== 0 && !is_WS_OR_EOL(ch)) {\n    \n    ch = state.input.charCodeAt(state.position + 1);\n    if (hasDirectives) {\n      throwError(state, 'directives end mark is expected');\n    } else {\n      throwWarning(state, 'unknown document directive "' + directiveName + '"');\n    }\n    break;\n  }\n  DirectiveArg = [];\n  directiveName = state.input.slice(_position, state.position);\n  if (directiveName.length < 1) {\n    throwError(state, 'directive name must not be less than one character in length');\n  }\n  while (ch !== 0) {\n    while (is_WS_OR_EOL(ch)) {\n      ch = state.input.charCodeAt(state.position + 1);\n    }\n    directiveName = state.input.slice(_position, state.position);\n    directiveArgs = [];\n    if (directiveName.length < 1) {\n      throwError(state, 'directive name must not be less than one character in length');\n    }\n    while (ch !== 0) {\n      if (ch === 0x23/* # */) {\n        do { ch = state.input.charCodeAt(state.position + 1); } while (ch !== 0 && !is_EOL(ch));\n      }\n      if (is_EOL(ch)) break;\n      while (ch !== 0 && !is_WS_OR_EOL(ch)) {\n        ch = state.input.charCodeAt(state.position + 1);\n      }\n      directiveArgs.push(state.input.slice(_position, state.position));\n    }\n    if (ch !== 0) readLineBreak(state);\n  }\n  skipSeparationSpace(state, true, -1);\n  if (state.lineIndent === 0 &&
      state.input.charCodeAt(state.position) === 0x2D/* - */ &&
      state.input.charCodeAt(state.position + 1) === 0x2D/* - */ &&
      state.input.charCodeAt(state.position + 2) === 0x2D/* - */) {\n    state.position += 3;\n  } else if (hasDirectives) {\n    throwError(state, 'directives end mark is expected');\n  }\n  composeNode(state, state.lineIndent - 1, CONTEXT_BLOCK_OUT, false, true);\n  skipSeparationSpace(state, true, -1);\n  if (state.checkLineBreaks &&
      PATTERN_NON_ASCII_LINE_BREAKS.test(state.input.slice(documentStart, state.position))) {\n    throwError(state, 'non-ASCII line breaks are interpreted as content');\n  }\n  state.documents.push(state.result);\n  if (state.position === state.length - 2) {\n    state.position += 1;\n  }\n  if (state.position === state.length - 1) {\n    state.position += 1;\n  }\n  if (state.position === state.length - 1) {\n    throwError(state, 'end of the stream or a document separator is expected');\n  } else {\n    return;\n  }\n}
function needIndentIndicator(string) {
  var leadingSpaceRe = /^\n* /;
  return leadingSpaceRe.test(string);
}

var
  STYLE_PLAIN   = 1,
  STYLE_SINGLE  = 2,
  STYLE_LITERAL = 3,
  STYLE_FOLDED  = 4,
  STYLE_DOUBLE  = 5;

function chooseScalarStyle(string, singleLineOnly, indentPerLevel, lineWidth, testAmbiguousType) {
  var i;
  var char;

  var hasLineBreak = false;
  var shouldTrackWidth = lineWidth !== -1;
  var previousLineBreak = -1; // count the first line correctly
  var plain = isPlainSafeFirst(string.charCodeAt(0))
    && isWhitespace(string.charCodeAt(string.length - 1));

  var hasFoldableLine = false; // only checked if shouldTrackWidth

  if (singleLineOnly) {
    // Case: no block styles.
    // Check for disallowed characters to rule out plain and single.
    for (i = 0; i < string.length; i++) {
      char = string.charCodeAt(i);
      if (!isPrintable(char)) {
        return STYLE_DOUBLE;
      }
      plain = plain && isPlainSafe(char);
    }
  } else { // Case: block styles permitted.
    for (i = 0; i < string.length; i++) {
      char = string.charCodeAt(i);
      if (char === CHAR_LINE_FEED) {
        hasLineBreak = true;
      }
      plain = plain && isPlainSafe(char);
    }
  }

  // Although every style can represent \n without escaping, prefer
  // block styles for multiline, since they're more readable and they don't add empty lines.
  // Also prefer folding a
  // super-long line.
  if (!hasLineBreak && !hasFoldableLine) {
    // Strings interpretable as another type have to be quoted;
    // e.g. the string 'true' vs. the boolean true.
    return plain && !testAmbiguousType(string) ?
      STYLE_PLAIN : STYLE_SINGLE;
  }

  // Edge case: block indentation indicator can only have one digit.
  if (indentPerLevel > 9 && needIndentIndicator(string)) {
    return STYLE_DOUBLE;
  }

  // At this point we know block styles are valid.
  // Prefer literal style unless we want to fold.
  return hasFoldableLine ?
    STYLE_FOLDED : STYLE_LITERAL;
}

function writeScalar(state, string, level, iskey) {
  state.dump = (function () {
    if (string.length === 0) {
      return "''";
    }

    var indent = state.indent * Math.max(1, level); // no 0-indent scalars
    var lineWidth = state.lineWidth - indent; // to the lower bound min(state.lineWidth, 40);
    var hasFoldableLine = hasFoldableLine ||
      // Foldable line = too long, and not
      // more-indented.
      (i - previousLineBreak - 1 > lineWidth)
    && string[previousLineBreak + 1] !== '\n');

    // As indentation gets deeper, let the width
    // decrease monotonically
    // to the lower bound min(state.lineWidth, 40).
    if (indentPerLevel > 9 && needIndentIndicator(string)) {
      return STYLE_DOUBLE;
    }

    var plain = isPlainSafeFirst(string.charCodeAt(0))
      && isWhitespace(string.charCodeAt(string.length - 1));

    return plain && !testAmbiguousType(string) ?
      STYLE_PLAIN : STYLE_SINGLE;
}

// Note: line breaking/folding is implemented for only the folded
// style.\n// NB. We drop the last trailing newline (if any) of a returned block scalar\n// since the dumper adds its own
// newline. This always works:\n// • No ending newline => unaffected; already using strip "\n\n" chomping:\n// • Ending newline => removed then restored.\n// Importantly, this keeps the \n\n\n\nchomp indicator from gaining an extra line.\nfunction writeScalar(state, string, level, iskey) {
  state.dump = (function () {
    if (string.length === 0) {
      return "";
    }

    var lineWidth = state.lineWidth - indent; // to the lower bound min(state.lineWidth, 40).
    if (indentPerLevel > 9 && needIndentIndicator(string)) {
      return STYLE_DOUBLE;
    }

    • The boolean true.\n    return plain && !testAmbiguousType(string) ?
      STYLE_PLAIN : STYLE_SINGLE;
}

// Note: line breaking/folding is implemented for only the folded
// style.\n// NB. We drop the last trailing newline (if any) of a returned block scalar\n// since the dumper adds its own
// newline. This always works:\n// • No ending newline => unaffected; already using strip "\n\n" chomping:\n// • Ending newline => removed then restored.\n// Importantly, this keeps the \n\n\n\nchomp indicator from gaining an extra line.\nfunction writeScalar(state, string, level, iskey) {
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    }

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    if (indentPerLevel > 9 && needIndentIndicator(string)) {
      return STYLE_DOUBLE;
    }

    • The boolean true.\n    return plain && !testAmbiguousType(string) ?
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// newline. This always works:\n// • No ending newline => unaffected; already using strip "\n\n" chomping:\n// • Ending newline => removed then restored.\n// Importantly, this keeps the \n\n\n\nchomp indicator from gaining an extra line.\nfunction writeScalar(state, string, level, iskey) {
  state.dump = (function () {
    if (string.length === 0) {
      return "";
    }

    var lineWidth = state.lineWidth - indent; // to the lower bound min(state.lineWidth, 40).
    if (indentPerLevel > 9 && needIndentIndicator(string)) {
      return STYLE_DOUBLE;
    }

    • The boolean true.\n    return plain && !testAmbiguousType(string) ?
      STYLE_PLAIN : STYLE_SINGLE;
}

// Note: line breaking/folding is implemented for only the folded
// style.\n// NB. We drop the last trailing newline (if any) of a returned block scalar\n// since the dumper adds its own
// newline. This always works:\n// • No ending newline => unaffected; already using strip "\n\n" chomping:\n// • Ending newline => removed then restored.\n// Importantly, this keeps the \n\n\n\nchomp indicator from gaining an extra line.\nfunction writeScalar(state, string, level, iskey) {
  state.dump = (function () {
    if (string.length === 0) {
      return "";
    }

    var lineWidth = state.lineWidth - indent; // to the lower bound min(state.lineWidth, 40).
    if (indentPerLevel > 9 && needIndentIndicator(string)) {
      return STYLE_DOUBLE;
    }

    • The boolean true.\n    return plain && !testAmbiguousType(string) ?
      STYLE_PLAIN : STYLE_SINGLE;
}

// Note: line breaking/folding is implemented for only the folded
// style.\n// NB. We drop the last trailing newline (if any) of a returned block scalar\n// since the dumper adds its own
// newline. This always works:\n// • No ending newline => unaffected; already using strip "\n\n" chomping:\n// • Ending newline => removed then restored.\n// Importantly, this keeps the \n\n\n\nchomp indicator from gaining an extra line.\nfunction writeScalar(state, string, level, iskey) {
  state.dump = (function () {
    if (string.length === 0) {
      return "";
    }

    var lineWidth = state.lineWidth - indent; // to the lower bound min(state.lineWidth, 40).
    if (indentPerLevel > 9 && needIndentIndicator(string)) {
      return STYLE_DOUBLE;
    }

    • The boolean true.\n    return plain && !testAmbiguousType(string) ?
      STYLE_PLAIN : STYLE_SINGLE;
}
block styles in flow mode.

   function testAmbiguity(string) { /* return testImplicitResolving(state, string); */
   switch (chooseScalarStyle(string, singleLineOnly, state.indent, lineWidth, testAmbiguity)) {
     case STYLE_PLAIN:
       return \n return string.replace(/g, '\"') + '\"';
     case STYLE_LITERAL:
       return '' + blockHeader(state, state.indent) + dropEndingNewline(indentString(string, state.indent));
     case STYLE_FOLDED:
       return '' + blockHeader(state, state.indent) + dropEndingNewline(indentString(foldString(string, lineWidth), indent));
     case STYLE_DOUBLE:
       return \n       + escapeString(string, lineWidth) + '\n';
   }

   default:
     throw new YAMLException('impossible error: invalid scalar style');
   }
}

function dropEndingNewline(string) {
  return string[string.length - 1] === '\n' ? string.slice(0, -1) : string;
}

// Greedy line breaking. Picks the longest line under the limit each time, otherwise settles for the shortest line over the limit.\n// NB. More-indent lines *cannot* be folded, as that would add an extra \n.\n// first line (possibly an empty line)\nvar lineRe = /(\n+)([^\n]*)/g;\n// rest of the lines\nvar match;\nwhile ((match = lineRe.exec(string))) {
  var prefix = match[1], line = match[2];\n  moreIndented = (line[0] === ' ');
  result += prefix + (moreIndented & line !== '' ? '' : '\n') + foldLine(line, lineWidth);\n}

// pre-conditions: every string is valid for a block scalar, 1 <= indentPerLevel <= 9\n}\nfunction blockHeader(string, indentPerLevel) {
  var indentIndicator = needIndentIndicator(string) ? '\n' : ' ';
}

// write a double-quoted scalar string for block styles in flow mode.\n// NB. More-indent lines *cannot* be folded, as that would add an extra \n.\n}
Write only valid elements.

```javascript
function writeNode(state, level, object, block, compact, iskey) {
  state.tag = null;

  if (!writeNode(state, level + 1, object[objectKey], true, true)) {
    continue; // Skip this pair because of invalid key.
  }

  if (CHAR_LINE_FEED === state.dump.charCodeAt(0)) {
    _result += '?';
  } else {
    _result += '? ';
  }

  pairBuffer += state.dump;

  if (state.dump && CHAR_LINE_FEED === state.dump.charCodeAt(0)) {
    _result += '-';
  } else {
    _result += '- ';
  }

  _result += state.dump;

  if (state.dump && CHAR_LINE_FEED === state.dump.charCodeAt(0)) {
    _result += '"';
  }

  _result += state.dump;

  // Both key and value are valid.
  _result += state.dump + (state.condenseFlow ? '"' : '') + ':' + (state.condenseFlow ? '' : ' ');

  if (!writeNode(state, level, objectKey, false, false)) {
    continue; // Skip this pair because of invalid value.
  }

  _result += state.dump + ('') + ':' + (state.condenseFlow ? '' : ' ');

  // Write only valid elements.
  _result += state.dump;
}
```

```javascript

```

// Serializes `object` and writes it to global `result`.
// Returns true on success, or false

function writeNode(state, level, object, block, compact, iskey) {
  state.tag = null;

  if (!writeNode(state, level + 1, object[objectKey], true, true)) {
    continue; // Skip this pair because of invalid key.
  }

  if (CHAR_LINE_FEED === state.dump.charCodeAt(0)) {
    _result += '?';
  } else {
    _result += '? ';
  }

  pairBuffer += state.dump;

  if (state.dump && CHAR_LINE_FEED === state.dump.charCodeAt(0)) {
    _result += '-';
  } else {
    _result += '- ';
  }

  _result += state.dump;

  if (state.dump && CHAR_LINE_FEED === state.dump.charCodeAt(0)) {
    _result += '"';
  }

  _result += state.dump;

  // Both key and value are valid.
  _result += state.dump + (state.condenseFlow ? '"' : '') + ':' + (state.condenseFlow ? '' : ' ');

  if (!writeNode(state, level, objectKey, false, false)) {
    continue; // Skip this pair because of invalid value.
  }

  _result += state.dump + ('') + ':' + (state.condenseFlow ? '' : ' ');

  // Write only valid elements.
  _result += state.dump;
}
```

```

```
var objectOrArray = type === '[object Object]' || type === '[object Array]',
  duplicateIndex, duplicate;

if (objectOrArray) {
  duplicateIndex = state.duplicates.indexOf(object);
  duplicate = duplicateIndex !== -1;
}

if ((state.tag !== null && &state.tag !== '?') || duplicate || (state.indent !== 2 && &level > 0)) {
  compact = false;
}

if (duplicate) {
  state.dump = '&ref_' + duplicateIndex + state.dump;
}

if (state.tag !== null && state.tag !== '?') {
  state.dump = '!<' + state.tag + '> ' + state.dump;
}

if (state.tag !== null && state.tag !== '?') {
  state.dump = '&ref_' + duplicateIndex + state.dump;
}

if (state.face && state.dump) {
  state.dump = '&ref_' + state.dump;
}

if (objectOrArray && duplicate && !state.usedDuplicates[duplicateIndex]) {
  state.usedDuplicates[duplicateIndex] = true;
}

if (type === '[object Object]') {
  writeBlockMapping(state, level, state.dump, compact);
}

if (type === '[object Array]') {
  var arrayLevel = (state.noArrayIndent && (level > 0)) ? level - 1 : level;
  if (block && (state.dump.length !== 0)) {
    writeBlockSequence(state, arrayLevel, state.dump, compact);
    if (duplicate) {
      state.dump = '&ref_' + duplicateIndex + state.dump;
    }
  }
}

if (type === '[object String]') {
  if (state.tag !== '?') {
    writeScalar(state, state.dump, level, iskey);
  }
}

if (state.skipInvalid) return false;
throw new YAMLException('unacceptable kind of an object to dump' + type);
}

function getDuplicateReferences(object, state) {
  var objects = [],
    duplicatesIndexes = [],
    index,
    length;

  inspectNode(object, objects, duplicatesIndexes);

  for (index = 0, length = duplicatesIndexes.length; index < length; index += 1) {
    state.duplicates.push(objects[duplicatesIndexes[index]]);
  }
  state.usedDuplicates = new Array(length);
}

function inspectNode(object, objects, duplicatesIndexes) {
  var objectKeyList,
    index,
    length;

  if (object !== null && typeof object === 'object') {
    index = objects.indexOf(object);
    if (index !== -1) {
      if (duplicatesIndexes.indexOf(index) === -1) {
        duplicatesIndexes.push(index);
      }
    } else {
      objects.push(object);

      if (Array.isArray(object)) {
        for (index = 0, length = object.length; index < length; index += 1) {
          inspectNode(object[index], objects, duplicatesIndexes);
        }
      } else {
        objectKeyList = Object.keys(object);

        for (index = 0, length = objectKeyList.length; index < length; index += 1) {
          inspectNode(object[objectKeyList[index]], objects, duplicatesIndexes);
        }
      }
    }
  }
}

function dump(input, options) {
  options = options || {};

  var state = new State(options);

  if (!state.noRefs) getDuplicateReferences(input, state);

  if (writeNode(state, 0, input, true, true)) return state.dump + '\n';

  return '';
}

function safeDump(input, options) {
  return dump(input, common.extend({ schema: DEFAULT_SAFE_SCHEMA }, options));
}

module.exports.dump = dump;
module.exports.safeDump = safeDump;

import React from "react"
import PropTypes from "prop-types"

export default class StandaloneLayout extends React.Component {

  static propTypes = {
    errSelectors: PropTypes.object.isRequired,
    errActions: PropTypes.object.isRequired,
    specActions: PropTypes.object.isRequired,
    specSelectors: PropTypes.object.isRequired,
    layoutSelectors: PropTypes.object.isRequired,
    getComponent: PropTypes.func.isRequired
  }

  constructor(props, context) {
    super(props, context)
    this.state = {
      container: null
    }
  }

  componentWillReceiveProps(nextProps) {
    this.setState({
      container: null
    })
  }

  render() {
    let { getComponent } = this.props

    let Container = getComponent("Container")
    let Row = getComponent("Row")
    let Col = getComponent("Col")

    const Topbar = getComponent("Topbar", true)
    const BaseLayout = getComponent("BaseLayout", true)
    const OnlineValidatorBadge = getComponent("onlineValidatorBadge", true)

    const Topbar = this.props.errSelectors;

    return (

      <Container
        className='swagger-ui'>
        {Topbar ? <Topbar /> : null}
        <BaseLayout /> 
        <Row>
          <Col>
            <OnlineValidatorBadge />
          </Col>
        </Row>
      </Container>
    )
  }

}

import React, { cloneElement } from "react"
import { parseSearch, serializeSearch } from "./core/utils"

export default class Topbar extends React.Component {

  static propTypes = {
    layoutActions: PropTypes.object.isRequired
  }

  constructor(props, context) {
    super(props, context)
    this.state = {
      url: props.specSelectors.url()
    }
  }

  render() {
    let { parseSearch, serializeSearch } = this.props

    let Container = cloneElement(<Container />, {
      className: 'topbar'
    })

    const Topbar = this.props.errSelectors;

    return (

      <Container
        className='topbar'>
        {Topbar ? <Topbar /> : null}
      </Container>
    )
  }

}

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```javascript
nextProps.specSelectors.url() || ) ||

onUrlChange = (e) => {
  let { target: { value }} = e;
  this.setState({ url: value });

  loadSpec = (url) => {
    nextProps.specSelectors.loadSpec(url)
  }

  onUrlSelect = (e) => {
    let url = e.target.value || e.target.href
    this.setState({ url: url })
  }

  loadSpec = (url) => {
    this.props.specActions.updateUrl(url)
  }

  onUrlChange = (e) => {
    let { target: { value } } = e
    this.setState({ url: value });
  }

  loadSpec = (url) => {
    this.props.specActions.updateUrl(url)
    this.props.specActions.download(url)
  }

  onUrlSelect = (e) => {
    let url = e.target.value || e.target.href
    this.loadSpec(url)
    this.setSelectedUrl(url)
    e.preventDefault()
  }

  downloadUrl = (e) => {
    this.loadSpec(this.state.url)
    e.preventDefault()
  }

  setSearch = (spec) => {
    let search = parseSearch()
    search["urls.primaryName"] = spec.name
    const newUrl = `${window.location.protocol}//${window.location.host}${window.location.pathname}`
    if (window && window.history && window.history.pushState) {
      window.history.replaceState(null, "", `${newUrl}?${serializeSearch(search)}`)
    }

    const configs = this.props.getConfigs()
    const urls = configs.urls || []

    if (urls && urls.length) {
      var targetIndex = this.state.selectedIndex
      let primaryName = configs["urls.primaryName"]
      if (primaryName) {
        urls.forEach((spec, i) => {
          if (spec.url === primaryName)
            { this.setState({ selectedIndex: i })
            this.setSearch(spec)
            targetIndex = i
          }
        })
      }
      this.loadSpec(urls[targetIndex].url)
    }

    this.props.layoutActions.updateFilter(value)
  }

  onFilterChange = (e) => {
    let { target: { value } } = e
    this.props.layoutActions.updateFilter(value)
  }

  render() {
    let { getComponent, specSelectors, getConfigs } = this.props
    const Button = getComponent("Button")
    const Link = getComponent("Link")

    let isLoading = specSelectors.loadingStatus() === "loading"
    let isFailed = specSelectors.loadingStatus() === "failed"

    const classNames = ["download-url-input"]
    if (isFailed) classNames.push("failed")
    if (isLoading) classNames.push("loading")

    const { urls } = getConfigs()
    let control = []
    let formOnSubmit = null

    if (urls) {
      let rows = []
      urls.forEach((link, i) => {
        rows.push(<option key={i} value={link.url}>{link.name}</option>)
      })

      control.push(<label className="select-label" htmlFor="select"><span>Select a definition</span>
          <select id="select" disabled={isLoading} onChange={this.onUrlSelect} value={urls[this.state.selectedIndex].url}>
            {rows}
          </select>
        </label>)
    }
    else {
      formOnSubmit = this.downloadUrl
      control.push(<input className={classNames.join(" ")} type="text" onChange={this.onUrlChange} value={this.state.url} disabled={isLoading} />)
      control.push(<Button className="download-url-button" onClick={this.downloadUrl}>Explore</Button>)
    }

    return (
      <div className="topbar">
        <div className="wrapper">
          <div className="topbar-wrapper">
            <Link>
              <img height="40" src={Logo} alt="Swagger UI"/>
            </Link>
            <form className="download-url-wrapper" onSubmit={formOnSubmit}>
              {control.map((el, i) => cloneElement(el, { key: i }))}
            </form>
          </div>
        </div>
      </div>
    )
  }
}
```

---

**Export Properties**

```javascript
Topbar.propTypes = {
  specSelectors: PropTypes.object.isRequired,
  specActions: PropTypes.object.isRequired,
  getComponent: PropTypes.func.isRequired,
  getConfigs: PropTypes.func.isRequired
}
```

---

**Download Configuration**

```javascript
export const downloadConfig = (req) => (system) => {
  const { fn: { fetch } } = system

  return fetch(req)
}
```

---

**Get Configuration by URL**

```javascript
export const getConfigByUrl = (req, cb) => ({ specActions }) => {
  if (req) {
    return specActions.downloadConfig(req).then(next, next)
  }

  function next(res) {
    if (res instanceof Error || res.status >= 400) {
      specActions.updateLoadingStatus("failedConfig")
      specActions.updateLoadingStatus("failedConfig")
    }
  }
```

---

**Update Configuration**

```javascript
export function update(configName, configValue) {
  return {
    type: UPDATE_CONFIGS,
    payload: {
      [configName]: configValue
    },
  }
}
```

---

**Toggle Configuration**

```javascript
export function toggle(configName) {
  return {
    type: TOGGLE_CONFIGS,
    payload: configName,
  }
}
```

---

**Check Configuration Status**

```javascript
export const loaded = () => () => {}
t=!(arguments.length>1&&void 0!==arguments[1])||arguments[1],n=L(e,this.getSystem());V(this.system,n),t&&this.buildSystem();var r=U.call(this.system,e,this.getSystem());r&&this.buildSystem()}},{key:"buildSystem",value:function(){var e=!(arguments.length>1&&void 0!==arguments[1])||arguments[1],t=this.getStore().dispatch,n=this.getStore().getState;this.boundSystem=g()({},this.getRootInjects(),this.getWrappedAndBoundActions(t),this.getWrappedAndBoundSelectors(n),this.getRootThunks(n),this.getFn(),this.getConfigs()),e&&this.rebuildReducer()}},{key:"getRootThunks",value:function(){return this.system.statePlugins[(n=Object(D.y)(this.system.statePlugins,(function(e){return e.thunks})),t=c()(e).reduce((function(t,n){var r;return t[n]=(r=e[n],function(){var e=arguments.length>0&&void 0!==arguments[0]?arguments[0]:new O.Map,t=arguments.length>1?arguments[1]:void 0;return r(t,e,t,e,r));if(!Object(D.r)(r))throw new TypeError("thunks needs to return a function that returns a new function (ie the wrapped thunk)");return r}),t||Function.prototype)):t})]}},{key:"getRootInjects",value:function(){return new Map((n=Object(D.y)(this.system.statePlugins,(function(e){return e.rootInjects})),t=c()(e).reduce((function(t,n){var r;return t[n]=n.slice(0,-7),t||Function.prototype)):t||function(e,t){return e}.apply(void 0,[e].concat(n))}:t))}},{key:"getActions",value:function(){var e=this.getType("actions");return Object(D.y)(e,(function(e){return Object(D.z)(e,(function(e,t){if(Object(D.r)(e))return m()({},t,e)}))}))}},{key:"getWrappedAndBoundSelectors",value:function(){var e=!(arguments.length>1&&void 0!==arguments[1])||arguments[1],t=this.getBoundActions(e);return Object(D.y)(t,(function(t){return Object(w.bindActionCreators)(function
Select which ones you want to grant to Swagger UI.

Scopes are used to grant an application different levels of access to data on behalf of the end user. Each API may declare one or more scopes.

Unknown security definition type "",

Name:
```javascript
r=n.first(),o=n.keyOf(r);this._onSelect(o,{isSyntheticChange:!0})}}],[key:"render",value:function(){var 
e=this.props,t=e.examples,n=e.currentExampleKey,r=e.isValueModified,o=e.isModifiedValueAvailable,a=e.showL 
ables;return _a.createElement("div","className:"examples- 
select"),a?_a.createElement("span","className:examples-select_section-label"),"Examples: 
")null,_a.createElement("select",onChange:this._onDomSelect,value:o&&r?"__MODIFIED__VALUE__":"n")", 
o?_a.createElement("option",{value:"__MODIFIED__VALUE__"},[Modified 
value:]")null,t.map((function(e,t){return 
_a.createElement("option",{key:t,value:e.e.get("summary")||t}),valueSeq())})],n]=_a.PureComponent;funcio 
ze(e){var t=function(){if("undefined"==typeof Reflect||!ae.a)return!1;if(ae.a.sham)return!1;if("function"==typeof Proxy)return!0;try {return Date.prototype.toString.call(aet(DJ(e)),(function(){})),!0}catch(e){return!1 }));return 
var n,r=he()(e);if(t){var o=he()(this).constructor;n=ae()(r,arguments,o)}else 
n=r.apply(this,arguments);return 
fe((this,n))m(Ve,"defaultProps",[examples:C.a.Map(),onSelect:function(t){for(var 
e.t=arguments.length,n=new Array(t),r=0;r<n;r++)n[r]=arguments[r];return(e=console).log.apply(e,"[DEBUG: 
ExamplesSelect was not given an onSelect callback]").concat(n))}];var Fe=function(e){return O.List.isList(e)?e:Object(D.J)(e),n(e);r= 
var r:E()(this,n),r=st.call(this,e),m()(ue(r),"_getStateForCurrentNamespace","(function)"{ 
var e=r.props.currentNamespace;return(r.state[e][Object(O.Map())].toObject()))},m()(ue(r),"_setStateForCurrentNam 
espace","(function)"{var t=r.props.currentNamespace,return 
_r.setStateForNamespace(e,t),m()(ue(r),"_setStateForNamespace","(function)"{var 
n=r.state[e][Object(O.Map())].mergeDeep(t)}),return 
_r.setValueForExample(e,r),"_isCurrentUserInputSameAsExampleValue","(function)"{var 
var e=r.props.currentNamespace=return 
_r.getValueForExample(e),"_getCurrentExampleValue","(function)"{var 
var n=[i][p].props;return 
Fe(Object(O.Map()),getIn([e,"value"])),m()(ue(r),"_getValueForExample","(function)"{var 
var e=r.props.currentNamespace=return 
_r.getValueForExample(t,e[r.props]),m()(ue(r),"_onExamplesSelect","(function)"{var 
t=arguments.length>1&&void 
0!==arguments[1]?arguments[1]:{},n=t,isSyntheticChange,o=r.props,a=o.onSelect,i=o.updateValue,u=o.currentUse 
InputValue,e=_r.setStateForCurrentNamespace(),s=c.lastUserEditedValue,l=r._getValueForExample(e);if("__MO 
DIFIED__VALUE__"===e)return 
i(o,e._setStateForCurrentNamespace({isModifiedValueSelected:!0}));if("function"==typeof a){for(var 
f=arguments.length,p=new Array(f>2?f-2:0),h=2;h<f;h++)p[h-2]=arguments[h];a.apply(void 
0,[e,[isSyntheticChange:n]].concat(p))}r=_r.setStateForCurrentNamespace({lastDownstreamValue:1,isModifiedValue 
Selected:n&&!u&&u&u!==!1}),n["function"==typeof i&&!it(Fe())]);var o=r._getValueForExample();return 
r.state=m(([])),e.currentNamespace,Object(O.Map()),lastUserEditedValue,currentUserInputValue, 
lastDownstreamValue,o,isModifiedValueSelected;r.props.currentInputValue!==o)),r}return 
S((n,[]),"key:componentWillReceiveProps",value:function(e){var 
var t=e,currentUserInputValue,n=e.examples,r=e.onSelect,o=this._getStartElementName(),a=0.lastUserEdited 
Value,i=0.lastDownstreamValue,u=th._getValueForExample(e.currentKey,e),n.find(function(e){return 
e.get("value")===][Object(DJ(e).get("value")===[])}),t=()r(n.keyOf(e),[isSyntheticChange:!0]));t!==this.props.curre 
ntUserInputValue&&t||a=a&&t=t&&i&&this._setStateForNamespace(e.currentNamespace,[lastUserEditedValue:e.cu 
rentUserInputValue,isModifiedValueSelected:t!==u]);},"key:"render",value:function(){var 
e=this.props,t=e.currentUserInputValue,n=e.examples,r=e.currentKey,o=e.getComponent,a=this._getStart 
TNamespace(),i=lastDownstreamValue,u=lastUserEditedValue,ca=a.isModifiedValueSelected,s=0("ExamplesSele 
ct"),return 
_a.createElement(s,[examples:n,currentUserKey:r,onSelect:this._onExamplesSelect,isModifiedValueAvailable
null "a", Object(O.Map)([])).get("examples", null).keySeq().first(); return
if (!i)) o.state={responseContentType: ", o) return
S(n, ["key": "render", value:function() { var
e, t, r = this.props, o = r.path, a = r.method, i = r.code, u = r.response, c = r.className, s = r.specPath, l = r.fn,
f = r.getComponent, p = r.getConfigs, h = r.specSelectors, d = r.contentType, v = r.controls.AcceptHeader, m = r.os3Actions,
y = r.inferSchema, g = h.isOAS3(), b = u.get("headers"), E = u.get("links"), x = f("headers"), S = (f("highlightCode"), j = f("modelExample"), w = f("Markdown"), !0), C = f("operationLink"), A = f("contentType"), k = f("ExamplesSelect"), P = f("Example"), I = this.state
response
eContentType|d, T = u.getIn(["content", I], Object(O.Map)([])), R = t.get("examples", null); if (g) { var
N = T.get("schema"); t: n? N? Object(O.List)({"content", this.state.responseContentType, "schema"}) : s} else
u.get("schema"), n = u.has("schema") ? s.push("schema") : s; if (g) { var
M = T.get("schema", Object(O.Map)([])); if (R) { var
q = this.getTargetExamplesKey(); B = R.get(q, Object(O.Map)([])); e = Object(D.J)(B.get("value"))
} else e = void
0; T.get("example")? Object(D.J)(T.get("example")) : Object(D.o)(M.toJS(), this.state.responseContentType, {include
ReadOnly: !0}) } }
e = u.getIn(["examples", I])? u.getIn(["examples", I]): t? Object(D.o)(t.toJS(), I, {includeReadOnly: !0, includeWriteOnly: !
0}); null! = e? _a.createElement("div", null, _a.createElement(t, {className: ", example", getConfigs:n, value: Object(D.J(e))
}) : null) e, S, p) return _a.createElement("tr", [class: Name: "render ", contentType=""]["data-
code":i], _a.createElement("td", [className: "response-
col_status"], i), _a.createElement("element"("td", [className: ", description""]), _a.createElement("div", [className: ", description__inner"], _a.createElement(w, {source: u.get("description")})), g, & u.get("content") ? _a.createElement
nt("section", [className: "control")s", _a.createElement("div", [className: un()("response-control-media-
type", ["response-control-media-type--accept-controller": v])) , _a.createElement("small", [className: ", media-
type")], _a.createElement(A, {value: this.state.responseContentType, contentType: u.get("content")? u.get("content"), keySeq(): Object(O.Seq)(), onChange: this.onContentTypeChange, v: _a.createElement("small", [className: "response-con
control-media-type--accept-message"], "Controls ", _a.createElement("code", null, "Accept"), 
header.): null), R? _a.createElement("div", [className: "response-control-examples"], _a.createElement("small", [className: "response-control-examples_title"], "Examples"), _a.createElement(k, [examples: R, currentExampleKey: this.getTargetExamplesKey() , onselect: function(e) { return
m.setActiveExamplesMember({name:e,pathMethod:[0,a],contextType: responses", contextName: i}) }, showLabels: !
1})): null) L[? _a.createElement(t, [specPath:n, getComponent:f, getConfigs:p, specSelectors: h, schema: Object(D.
i)(t), example:L, includeReadOnly: !0])]: null, g && R? _a.createElement(P, [example: R.get(this.getTargetExamplesKey
(), Object(O.Map)([])), getComponent:f, omitValue: !0]): null, b? _a.createElement(x, [headers:b, getComponent: f]): nu
ll), g? _a.createElement("div", [className: "response-col_links"], E? E.toSeq().map((function(e, t) return
_ a.createElement(C, {key:t.name:t.link:e.getComponent(f)}))): _a.createElement("i", null, "No
links")): null]) }, n)](_a.Component); m)(sn, "defaultProps", [response: Object(O.fromJS)({})), onContentTypeChange :
function() {}]); var
l = n(446), fn = n(ln), pn = n(447), hn = n(nn); function dn(e) { var
t = function() { if ("undefined" === typeof Reflect[ae.a].return1 !1) if (ae.a.sham) return1 !1; if ("function" ===
typeof Proxy) return1 !1; try {
return Date.prototype.toString.call(ae(e)(Date,[, (function() {})]), !0) catch (e) { return1 !1 } });
return function() { var n, r = he(e); if (t) var o = he(t);
constructor: n = ae(t)(r, arguments, o) } else
n = t.apply(this, arguments); return fe((this,n)}] var
v = function(o { set(n, e); var t = dn(n); function n (var
e: E)(this, n); for (var r = arguments.length, o = new Array(r), a = 0; a < r; a++) if (a == arguments[a]; return
t.call.apply(t, this, o.concat(o)), t)(o)(e), "state", [parsedContent:n], m)(o)(e), "updateParsedContent", (function(t)
var n = e, props.content: i = (n) ? i: n & & instanceof Blob] { var r = new FileReader; r.onload = function() { e, s(e, [parsedContent:n.toString()]), r.readAsText(n) } } else
e, s(e, [parsedContent:n.toString()]) } ), e{return
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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.

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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.

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1.343 python-secretstorage 2.3.1

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1.345 hpack 3.0.0

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1.348 chi v4.1.2+incompatible

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1.350 libusbx 1.0.23 4.el8

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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
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. The `grn' preprocessor, written by Barry Roitblat <barry@rentonww.com> and David Slattengren <slatteng@Xinet.COM>. These files have been part of the original Berkeley ditroff distribution, without AT&T code, and are in the public domain.

The original package can be found at http://ftp.cs.wisc.edu/pub/misc/grn.tar.Z.

   src/preproc/grn/gprint.h
   src/preproc/grn/hdb.cpp
   src/preproc/grn/hgraph.cpp
   src/preproc/grn/hpoint.cpp
   src/preproc/grn/main.cpp

. The `gxditview' output device. It is based on X11's `xditview' program and thus has the X license.

   src/devices/xditview/DESC.in
   src/devices/xditview/Dvi.c
   src/devices/xditview/Dvi.h
   src/devices/xditview/DviP.h
   src/devices/xditview/FontMap
   src/devices/xditview/GXditview.ad
   src/devices/xditview/Menu.h
   src/devices/xditview/ad2c
   src/devices/xditview/device.c
   src/devices/xditview/device.h
   src/devices/xditview/draw.c
   src/devices/xditview/font.c
   src/devices/xditview/gray1.bm
   src/devices/xditview/gray2.bm
   src/devices/xditview/gray3.bm
   src/devices/xditview/gray4.bm
   src/devices/xditview/gray5.bm
   src/devices/xditview/gray6.bm
   src/devices/xditview/gray7.bm
Macro Packages
-------------

. The -mdoc macro set, using the BSD license.

  tmac/doc.tmac
  tmac/doc-old.tmac
  tmac/doc-common
  tmac/doc-ditroff
  tmac/doc-nroff
  tmac/doc-syms
  tmac/groff_mdoc.man

. The -me macro set, using the BSD license.

  tmac/e.tmac
  tmac/groff_me.man
  doc/meintro.me
  doc/meintro_fr.me
  doc/meref.me

Hyphenation Patterns
---------------------

. The file `tmac/hyphen.us' is identical to the file `hyphen.tex', part of
the TeX system written by Donald E. Knuth; the master file can be found
at

    ftp://labrea.stanford.edu/pub/tex/dist/lib/hyphen.tex

It has been renamed for consistency, i.e., to make patterns available
under the filenames `hyphen.<language>' , e.g. `hyphen.de' or `hyphen.uk'.

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. The file `tmac/hyphen.fr' contains the same patterns as the file
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    http://dante.ctan.org/CTAN/language/hyphenation/frhyph.tex

The patterns have been converted to a format groff can understand.

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. The file `tmac/hyphen.sv' is identical to the file `svhyph.tex', which
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. The files `tmac/hyphen.det' and `tmac/hyphen.den' contain the same
patterns as the files `dehyph-x-2017-03-31.pat' and
`dehyphn-x-2017-03-31.pat' (for TeX), respectively, which can be found at

    http://ctan.org/tex-archive/language/hyphenation/dehyph-exptl

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. The file `tmac/hyphen.cs' contains the same patterns as the file
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    http://dante.ctan.org/CTAN/macros/cstex/base/csplain.tar.gz

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1.356 python-httplib2 0.14.0

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1.357 libxrandr 1.5.2-r1

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1.358 libxkbfile 1.1.0-r0

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1.360 font-cursor-misc 1.0.3-r1

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1.361 dataclasses 0.8

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1.362 icu 60.3 2.el8_1
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## Commands to generate dependency files
GEN_DEPS.c=$(CC) -E -MM $(DEFS) $(CPPFLAGS)
GEN_DEPS.cc=$(CXX) -E -MM $(DEFS) $(CPPFLAGS)

## Flags for position independent code
SHAREDLIBCFLAGS = -fPIC
SHAREDLIBCXXFLAGS = -fPIC
SHAREDLIBCPPFLAGS = -DPIC

## Additional flags when building libraries and with threads
THREADSCPPFLAGS = -D_REENTRANT
LIBCPPFLAGS =

## Compiler switch to embed a runtime search path
LD_RPATH=
LD_RPATH_PRE=-Wl,-rpath,

## Compiler switch to embed a library name
LD_SONAME = -Wl,-soname -Wl,$(notdir $(MIDDLE_SO_TARGET))

## Shared library options
LD_SOOPTIONS= -Wl,-Bs symbolic

## Shared object suffix
SO = so

## Non-shared intermediate object suffix
STATIC_O = ao

## Compilation rules
%.$(STATIC_O): $(srcdir)/%.c
$(COMPILE.c) $(STATICCPPFLAGS) $(STATICCFLAGS) -o $@ $<

%.o: $(srcdir)/%.c
$(COMPILE.c) $(DYNAMICCPPFLAGS) $(DYNAMICCFLAGS) -o $@ $<

%.$(STATIC_O): $(srcdir)/%.cpp
$(COMPILE.cc) $(STATICCPPFLAGS) $(STATICCXXFLAGS) -o $@ $<

%.o: $(srcdir)/%.cpp
$(COMPILE.cc) $(DYNAMICCPPFLAGS) $(DYNAMICCXXFLAGS) -o $@ $<
## Dependency rules

%.d: $(srcdir)/%.c
@echo "generating dependency information for $<"
@$(SHELL) -ec '$(GEN_DEPS.c) $< \
| sed "s/\([^\*]\)/\1.o $@ : /g" > $@; \
[ -s $@ ] || rm -f $@’

%.d: $(srcdir)/%.cpp
@echo "generating dependency information for $<"
@$(SHELL) -ec '$(GEN_DEPS.cc) $< \
| sed "s/\([^\*]\)/\1.o $@ : /g" > $@; \
[ -s $@ ] || rm -f $@’

## Versioned libraries rules

%.S$(SO).$((SO_TARGET_VERSION_MAJOR)): %.S$(SO).$((SO_TARGET_VERSION))
$(RM) $@ && ln -s ${<F} $@

%.S$(SO): %.S$(SO).$((SO_TARGET_VERSION_MAJOR))
$(RM) $@ && ln -s ${*F}.S$(SO).$((SO_TARGET_VERSION)) $@

## Bind internal references

# LDflags that pkgdata will use
BIR_LDFLAGS= -Wl,-Bsymbolic

# Dependencies [i.e. map files] for the final library
BIR_DEPS=

## Remove shared library 's'
STATIC_PREFIX_WHEN_USED =
STATIC_PREFIX =

## End BSD-specific setup

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1.368 bzip2 1.0.6 26.el8

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

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1.369 mkinitfs 3.5.0-r0

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1.376 alpine-conf 3.11.0-r2

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Ackeret, Matt
Adler, Mark
Allbery, Russ
Anderson, Jamie
Andrew, Nick
Andric, Dimitry
Barron, Danny
Bates, Tom
Behan, Zdenk
Bellis, Ray
Benali, Elias
Beverly, Jamie
Boardman, Spider
Bos, Sander
Bostley, P.J.
Bowes, Keith
Boyce, Keith Garry
Peschel, Aaron
Peslyak, Alexander
Peterson, Toby
Petten, Diego Elio
Pickett, Joel
Plotnick, Alex
de Raadt, Theo
Rasch, Gudleik
Reid, Steve
Richards, Matt
Rossum, Guido van
Rouillard, John P.
Rowe, William A., Jr.
Roy, Alain
Ruusame, Elan
Ryabinkin, Eygene
Sato, Yuichi
Sánchez, Wilfredo
Sanders, Miguel
Sasaki, Kan
Saucier, Jean-Francois
Schoenfeld, Patrick
Schuring, Arno
Schwarze, Ingo
Scott, Dougal
Sieger, Nick
Simon, Thor Lancelot
Slemko, Marc
Smith, Andy
Sobrado, Igor
Soulen, Steven
Spangler, Aaron
Spradling, Cloyce D.
Spradling, Michael
Stier, Matthew
Stoeckmann, Tobias
Street, Russell
Stritzky, Tilo
Stroucken, Michael
Tarrall, Robert
Thomas, Matthew
Todd, Giles
Toft, Martin
Torek, Chris
Tucker, Darren
Uhl, Robert
Uzel, Petr
Valery, Reznic
Van Dinter, Theo
Venckus, Martynas
de Vries, Maarten
Wagner, Klaus
Walsh, Dan
Warburton, John
Webb, Kirk
Wetzel, Timm
Wieringen, Marco van
Wilk, Jakub
Winiger, Gary
Wood, David
Zacarias, Gustavo
Zolnowsky, John

The following people have worked to translate sudo into other languages as part of the Translation Project, see https://translationproject.org for more details.

Albuquerque, Pedro
Blittermann, Mario
Bogusz, Jakub
Buoren, Lin
Casagrande, Milo
Castro, Felipe
Cho, Seong-ho
Chornoivan, Yuri
Diguez, Francisco
Fontenelle, Rafael
Garca-Fontes, Walter
Gezer, Volkan
Hamasaki, Takeshi
Hamming, Peter
Hansen, Joe
Hantrais, Frederic
Hein, Jochen
Hufthammer, Karl Ove
Jerovek, Damir
Karvonen, Jorma
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Kelemen, Gbor
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Marchal, Frederic
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Maryanov, Pavel
Nikoli, Miroslav
Nylander, Daniel
Psa, Petr
Puente, Enol
Putanec, Boidar
Qun, Trn Ngc
Rasmussen, Sebastian
Regueiro, Leandro
Sarer, zgr
Sendn, Abel
Sikrom, ka
Spingos, Dimitris
Taniguchi, Yasuaki
Tomat, Fbio
r, Balzs
Uranga, Mikel Olasagasti
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1.379 alpine-keys 2.2-r0

1.380 fribidi 1.0.4 8.el8

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1.387 initramfs-tools 0.136ubuntu6.3
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The Debian tree is maintained with "git" at:
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That's all there is to it!

1.391 python-idna 2.5 5.el8

1.391.1 Available under license:
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* /opt/ws_local/PERMITS_SQL/1018810534_1591381484.4/0/python-idna-2.5-5.el8.src.rpm-cosi-expand-archive-x48w3eme/python-idna.spec
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```python
import io, sys
from setuptools import setup
```

A library to support the Internationalised Domain Names in Applications (IDNA) protocol as specified in RFC 5890 et.al. This new methodology, known as IDNA 2008, can generate materially different results to the previous standard. The library can act as a drop-in replacement for the "encodings.idna" module.
version = "2.5"

def main():

    python_version = sys.version_info[:2]
    if python_version < (2,6):
        raise SystemExit("Sorry, Python 2.6 or newer required")

arguments = {
    'name': 'idna',
    'packages': ['idna'],
    'version': version,
    'description': 'Internationalized Domain Names in Applications (IDNA)',
    'long_description': io.open("README.rst", encoding="UTF-8").read(),
    'author': 'Kim Davies',
    'author_email': 'kim@cynosure.com.au',
    'license': 'BSD-like',
    'url': 'https://github.com/kjd/idna',
    'classifiers': [
        'Development Status :: 5 - Production/Stable',
        'Intended Audience :: Developers',
        'Intended Audience :: System Administrators',
        'License :: OSI Approved :: BSD License',
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        'Programming Language :: Python :: 2.6',
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        'Programming Language :: Python :: 3.3',
        'Programming Language :: Python :: 3.4',
        'Programming Language :: Python :: 3.5',
        'Programming Language :: Python :: 3.6',
        'Topic :: Internet :: Name Service (DNS)',
        'Topic :: Software Development :: Libraries :: Python Modules',
        'Topic :: Utilities',
    ],
    'test_suite': 'tests',
}

setup(**arguments)

if __name__ == '__main__':
    main()

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1018810534_1591381484.40/python-idna-2.5-5.el8.src.rpm-cosi-expand-archive-x48w3eme/idna-2.5.tar.gz-cosi-expand-archive-XsxtdB65/idna-2.5/setup.py
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1.392 dnf 4.2.23 4.el8

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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)
Otherwise, if the work is a derivative of the Library, you may
distribute the object code for the work under the terms of Section 6.
Any executables containing that work also fall under Section 6,
whether or not they are linked directly with the Library itself.

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

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directing the user to the copy of this License. Also, you must do one
of these things:

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

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

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

d) If distribution of the work is made by offering access to copy
from a designated place, offer equivalent access to copy the above
specified materials from the same place.
e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

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

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

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

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

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a \``work based on the library\'' and a \``work that uses the library\''. The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

\begin{enumerate}
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A \``library\'' means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.
The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification").

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

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

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.

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The modified work must itself be a software library.

You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.
You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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.)

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.
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.

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.

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

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

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

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:

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

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RENDERED(198,619),(790,815)

@end enumerate

@subheading END OF TERMS AND CONDITIONS

@page
@subheading 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.

@smallexample
@var{one line to give the library's name and an idea of what it does.}
Copyright (C) @var{year}  @var{name of author}
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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:

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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.

Ty Coon, President of Vice

That's all there is to it!

Description:
Concatenate two arbitrary file names.

Files:
lib/filenamecat.h
lib/filenamecat-lgpl.c
m4/filenamecat.m4

Depends-on:
dirname-lgpl

cfg/FILE_NAME_CONCAT_LGPL

Makefile.am:
lib_SOURCES += filenamecat-lgpl.c
Include:
"filenamecat.h"

License:
LGPLv2+

Maintainer:
Jim Meyering
Please email the following information to assign@gnu.org, and we will send you the assignment form for your past and future changes.

Please use your full legal name (in ASCII characters) as the subject line of the message.

REQUEST: SEND FORM FOR PAST AND FUTURE CHANGES

[What is the name of the program or package you're contributing to?] 

[Did you copy any files or text written by someone else in these changes? Even if that material is free software, we need to know about it.]

[Do you have an employer who might have a basis to claim to own your changes? Do you attend a school which might make such a claim?]

[For the copyright registration, what country are you a citizen of?] 

[What year were you born?] 

[Please write your email address here.] 

[Please write your postal address here.] 

[Which files have you changed so far, and which new files have you written so far?]

Description:
Provide the GNU Free Documentation License in Texinfo format.

Files:
Depends-on:

configure.ac:

Makefile.am:

Include:

License:
unmodifiable license text

Maintainer:
all

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Description:
Ensure getcwd(NULL, 0) returns a buffer allocated by the malloc() function.

Files:
lib/getcwd-lgpl.c
m4/getcwd.m4
depends-on:
unistd
strdup [test $REPLACE_GETCWD = 1]

configure.ac:

if test $REPLACE_GETCWD = 1; then
  AC_LIBOBJ([getcwd-lgpl])
fi

gl_UNISTD_MODULE_INDICATOR([getcwd])

Makefile.am:

include:
<unistd.h>

license:
LGPLv2+

maintainer:
Eric Blake

Legal Issues about Contributing Code to GNUlast updated 14 July 2015

Project GNU has to be careful to obey copyright laws, even though these laws are wrong when they stop people from sharing generally useful published information such as software, because we are in the public eye. We also use copyright to defend users' freedom, by means of copyleft (though this does not excuse copyright law for helping to make software proprietary).

This means that if you want to contribute software to GNU, you have to do something to give us legal permission to use it. There are three ways this can be done:

* Assign the copyright to the Free Software Foundation. This allows the FSF to act to stop violations of the GPL.

* Keep the copyright and release the program yourself under the GNU GPL. (This alternative is too impractical for contributions to a preexisting FSF-copyrighted GNU program.)

* Put the code in the public domain. Then there is nothing to stop hoarding of modified versions, but we can still use the program in GNU.

Most of these alternatives require a signed piece of paper, or in some cases a digital signature, to make it happen.
* Assigning copyright.

Assigning the copyright means signing a contract that makes the Free Software Foundation the "owner" of the program according to the law. As the copyright holder, the Foundation can sue anyone who tries to distribute the program as a proprietary product. We are willing to keep your name on the program as the author for as long as the program remains recognizably distinct. ("Owner" is in quotes to show that we don't really believe in this kind of ownership.)

The assignment contract commits the foundation to setting distribution terms that permit free redistribution.

Often we don't want to do the work of starting to distribute a program right away. There are many things which we will need in order to have a complete system but which aren't really useful until the rest of the system is done. But signing the assignment does not stop you from distributing the program yourself--as long as you do so under the GNU terms. You don't have to wait for us to start distributing. You can start distributing as soon as you attach our standard copyleft to the files. (Ask for our advice on how to do this.)

The assignment contract we normally use has a clause that permits you to use your code in proprietary programs, on 30 days' notice. (The 30 days' notice is there because, through a legal technicality, it would improve our position in a suit against a hoarder.) Although we believe that proprietary software is wrong, we include this clause because it would serve no purpose to ask you to promise not to do it. You're giving us a gift in the first place.

You don't need to invoke this clause in order to distribute copies as free software under the GNU GPL, since everyone is allowed to do that.

* Releasing it yourself.

You can release a program yourself under copyleft distribution terms such as the GNU GPL. (In order to accept the program as GNU software, we would have to be happy with your choice of terms.) This does not require a contract between you and the FSF, but we would appreciate having a signed piece of paper to confirm your decision.

If someone violates your terms--for example, if someone gets a copy from us, and uses it as a basis for a proprietary product in violation of the terms--we cannot sue him. You would have to sue, or he gets away with it.

* Public domain.
If you put the program in the public domain, we prefer to have a signed piece of paper—a disclaimer of rights—from you confirming this. If the program is not very important, we can do without one; the worst that could happen is that we might some day be forced to stop using it.

The law says that anyone can copyright a modified version of the public domain work. (This doesn't restrict the original, which remains in the public domain; only the changes are copyrighted.) If we make extensive changes, we will probably do this and add our usual copyleft. If we make small changes, we will leave the version we distribute in the public domain.

* What about your employer?

If you are employed to do programming, or have made an agreement with your employer that says it owns programs you write, we need a signed piece of paper from your employer disclaiming rights to the program. It should be signed by a vice president or general manager of the company. If you can't get at them, it is almost as good to find someone who signs licenses for software that is purchased. Here is a sample wording:

Digital Simulation Corporation hereby disclaims all copyright interest in the program "sample.el" (a program to direct assemblers to make passes at compilers under GNU Emacs) written by Hugh Hacker.

<signature of Mo Ghoul>, 1 April 1987
Mo Ghoul, President of Vice, Digital Simulation Corp.

The description of what the program does is just to make it clearer what the disclaimer covers.

If what you did was change an existing program, it should say this:

...in the changes and enhancements made by Hugh Hacker to the program "sample.el".

* Did anyone else contribute?

If someone else contributed more than a few lines here or there to the program, then that person too is an author, and that person too needs to sign papers just as you do. So may that person's employer. However, if his contribution is just a fraction of the whole work, it is satisfactory if he disclaims his own rights, even if you are assigning yours. (If just the minor contributors' work goes in the public domain, that doesn't leave much of a loophole for hoarders.)

If you incorporated packages which you found floating around as "public domain", we might still want to track down their authors, to get
disclaimers to reassure us that they really are in the public domain. So keep track of what these packages are and who wrote them.

* A reminder:

In working on a project for GNU, DO NOT study and follow any Unix sources or other non-free software that might have any bearing on the project. Don't refer to them at all, unless you are forced to for non-GNU reasons.

It is not considered a serious problem if you have read Unix sources or other non-free source code in the past for other purposes, provided you don't copy anything in particular from them. However, referring to them while you do the work could cause us legal problems later.

The files in this directory describe the gnulib modules.

The following copyright notice applies to each of these description files.

Copyright (C) 2002-2019 Free Software Foundation, Inc.
This file is free software; the Free Software Foundation gives unlimited permission to copy and/or distribute it, with or without modifications, as long as this notice is preserved.
Please email the following information to assign@gnu.org, and we will send you the assignment form that covers the changes you have already written. That form will cover subsequent corrections to those changes, but it will not cover other unrelated future changes to the same program.

Please use your full legal name (in ASCII characters) as the subject line of the message.

REQUEST: SEND FORM FOR CHANGES ALREADY MADE

[What is the name of the program or package you're contributing to?]

[Did you copy any files or text written by someone else in these changes? Even if that material is free software, we need to know about it.]

[Do you have an employer who might have a basis to claim to own your changes? Do you attend a school which might make such a claim?]

[For the copyright registration, what country are you a citizen of?]

[What year were you born?]
[Which files have you changed so far, and which new files have you written so far?]
Please email the following information to assign@gnu.org, and we will send you the disclaimer form for your changes. This form is preferred when your changes are small, they do not add any nontrivial new files, and you are finished making them (aside perhaps from small bug fixes).

If you would like to make further contributions to the same package, and you would like to avoid the need to sign more papers when you contribute them, you have another option: to sign a copyright assignment covering your future changes. If that is what you want to do, please tell the maintainer you would prefer to sign an assignment of past and future changes.

Please use your full legal name (in ASCII characters) as the subject line of the message.

REQUEST: SEND DISCLAIMER FORM

[What is the name of the program or package you're contributing to?]

[Did you copy any files or text written by someone else in these changes? Even if that material is free software, we need to know about it.]

[Do you have an employer who might have a basis to claim to own your changes?]

[Please write your email address here.]
[Please list the files involved, or give a brief description of the changes being disclaimed.]

Description:
realpath, canonicalize_file_name: Provide canonical absolute file name

Files:
lib/canonicalize-lgpl.c
m4/canonicalize.m4
m4/double-slash-root.m4

Depends-on:
extensions
stdlib
nocrash
alloca-opt [test $HAVE_CANONICALIZE_FILE_NAME = 0 || test $REPLACE_CANONICALIZE_FILE_NAME = 1]
ererrno [test $HAVE_CANONICALIZE_FILE_NAME = 0 || test $REPLACE_CANONICALIZE_FILE_NAME = 1]
lstat [test $HAVE_CANONICALIZE_FILE_NAME = 0 || test $REPLACE_CANONICALIZE_FILE_NAME = 1]
malloc [test $HAVE_CANONICALIZE_FILE_NAME = 0 || test $REPLACE_CANONICALIZE_FILE_NAME = 1]
memmove [test $HAVE_CANONICALIZE_FILE_NAME = 0 || test $REPLACE_CANONICALIZE_FILE_NAME = 1]
pathmax [test $HAVE_CANONICALIZE_FILE_NAME = 0 || test $REPLACE_CANONICALIZE_FILE_NAME = 1]
readlink [test $HAVE_CANONICALIZE_FILE_NAME = 0 || test $REPLACE_CANONICALIZE_FILE_NAME = 1]
sys_stat [test $HAVE_CANONICALIZE_FILE_NAME = 0 || test $REPLACE_CANONICALIZE_FILE_NAME = 1]

configure.ac:
  gl_CANONICALIZE_LGPL
  if test $HAVE_CANONICALIZE_FILE_NAME = 0 || test $REPLACE_CANONICALIZE_FILE_NAME = 1; then
    AC_LIBOBJ([canonicalize-lgpl])
  fi
  gl_MODULE_INDICATOR([canonicalize-lgpl])
  gl_STDLIB_MODULE_INDICATOR([canonicalize_file_name])
  gl_STDLIB_MODULE_INDICATOR([realpath])

Makefile.am:

  Include:
  <stdlib.h>
License:
LGPLv2+

Maintainer:
all

Description:
Extract specific portions of filenames.

Files:
lib/dirname.h
lib/dirname-lgpl.c
lib/basename-lgpl.c
lib/stripslash.c
m4/dirname.m4

Depends-on:
dosname
double-slash-root
malloc-posix
stdbool

configure.ac:
gl_DIRNAME_LGPL

Makefile.am:
lib_SOURCES += dirname-lgpl.c basename-lgpl.c stripslash.c

Include:
"dirname.h"

License:
LGPLv2+

Maintainer:
Jim Meyering, Eric Blake

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Version 3, 29 June 2007

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Files:
tests/test-update-copyright.sh

Depends-on:

configure.ac:
abs_aux_dir=`cd "$ac_aux_dir"; pwd`
AC_SUBST([abs_aux_dir])

Makefile.am:
TESTS += test-update-copyright.sh
TESTS_ENVIRONMENT += abs_aux_dir="$(abs_aux_dir)"

Files:
tests/test-canonicalize-lgpl.c
tests/signature.h
tests/null-ptr.h
tests/macros.h

Depends-on:
ignore-value
same-inode
symlink

configure.ac:

Makefile.am:
TESTS += test-canonicalize-lgpl
check_PROGRAMS += test-canonicalize-lgpl
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```
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```

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```
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the files to have an LGPL header as part of copying them from gnulib
to your project directory, or fails because the modules you requested
were not licensed under LGPL.

Some of the source files in lib/ have different licenses. Also, the
copy of maintain.texi in doc/ has a verbatim-copying license, and
doc/standards.texi and make-stds.texi are GFDL. Most (but not all)
m4/*.m4 files have nearly unlimited licenses.
Description:
Help make libraries relocatable, that is, to allow them to function
properly when copied to an arbitrary directory.

Files:
doc/relocatable.texi
lib/relocatable.h
lib/relocatable.c
lib/relocatable.valgrind
m4/relocatable-lib.m4

Depends-on:
strdup

configure.ac:
gl_RELOCATABLE_LIBRARY
if test $RELOCATABLE = yes; then
   AC_LIBOBJ([relocatable])
fi

Makefile.am:
DEFS += -DNO_XMALLOC

Include:
"relocatable.h"

License:
LGPLv2+

Maintainer:
Ben Pfaff
Description:
Locating a program in PATH (LGPLed version).

Files:
lib/findprog.h
lib/findprog.c
lib/findprog-lgpl.c
m4/findprog.m4
m4/eaccess.m4

Depends-on:
stdbool
strdup
concat-filename
unistd

configure.ac:
gl_FINDPROG
gl_MODULE_INDICATOR((findprog-lgpl))

Makefile.am:
lib_SOURCES += findprog.h findprog.c

Include:
"findprog.h"

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Maintainer:
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Files:

- tests/test-getcwd-lgpl.c
- tests/signature.h
- tests/macros.h

Depends-on:

configure.ac:

Makefile.am:

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test_getcwd_lgpl_LDADD = $(LDADD) $(LIBINTL)

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1.415 python-service-identity 18.1.0

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possible use to the public, the best way to achieve this is to make it
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to attach them to the start of each source file to most effectively
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<signature of Ty Coon>, 1 April 1989
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1.424 curl 7.68.0

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License Mixing
==============

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

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

One common dilemma is that [GPL](https://www.gnu.org/licenses/gpl.html) licensed code is not allowed to be linked with code licensed under the
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## libcurl

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

## OpenSSL

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## GnuTLS

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## WolfSSL

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## BearSSL

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## c-ares

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

## zlib

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

## MIT Kerberos

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## Heimdal

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## GNU GSS

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## OpenLDAP

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

## libssh2

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

1.425 cpio 2.12 8.el8

1.425.1 Available under license :

```
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Version 3, 29 June 2007

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1.439 libpcap 1.10.0-r0

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1.440 protobuf 3.15.5

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* Optimize Java serialization of strings so that UTF-8 encoding happens only
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* Fixed minor IBM xlC compiler build issues
* Added atomicops for AIX (POWER)

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1.448 core-js 3.9.1

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1.450 gsettings-desktop-schemas 3.36.0

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1.460 adduser 3.118ubuntu2

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1.462 cryptsetup 2.3.3 2.el8

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1.463 userspace-rcu 0.10.1 2.el8

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Mathieu Desnoyers
May 13th, 2009

IBM Corporation allowed LGPLv2.1+ licensing of their contribution to the userspace RCU library in a patch submitted on May 8, 2009 from Paul E. McKenney and reviewed by Steven L. Bennett:


I (Mathieu Desnoyers) re-implemented ACCESS_ONCE(), likely(), unlikely() and barrier() from scratch without reference to the original code.
commit id: 2dc5fa0f7cfbfb0a64a7a67b39626650e863f16a

Bert Wesarg <bert.wesarg@googlemail.com> approved LGPL relicensing of his patch in an email dated May 13, 2009:

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xchg() primitives has been rewritten from a MIT-licensed cmpxchg for Intel and powerpc. They are MIT-licensed and therefore usable in LGPL code. This cmpxchg code was obtained from the atomic_ops project:

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I (Mathieu Desnoyers) wrote the remainder of the code.

The license for the library files in this project was therefore changed to LGPLv2.1 on May 13, 2009, as detailed in LICENSE.

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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
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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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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.
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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
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6. As an exception to the Sections above, you may also combine or
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that the user who changes the contents of definitions files in the
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to use the modified definitions.)

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

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1.466 setroubleshoot 3.3.24 1.el8

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1.467 fonts-ubuntu 0.83
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Ubuntu Font Family Licensing FAQ

Stylistic Foundations

The Ubuntu Font Family is the first time that a libre typeface has been designed professionally and explicitly with the intent of developing a public and long-term community-based development process.

When developing an open project, it is generally necessary to have firm foundations: a font needs to maintain harmony within itself even across many type designers and writing systems. For the Ubuntu Font Family, the process has been guided with the type foundry Dalton Maag setting the project up with firm stylistic foundation covering several left-to-right scripts: Latin, Greek and Cyrillic; and right-to-left scripts: Arabic and Hebrew (due in 2011).
With this starting point the community will, under the supervision of 
sources to expand their character coverage. Ultimately everybody will 
be able to use the Ubuntu Font Family in their own written languages 
across the whole of Unicode (and this will take some time!).

Licensing

The licence chosen by any free software project is one of the 
foundational decisions that sets out how derivatives and contributions 
can occur, and in turn what kind of community will form around the 
project.

Using a licence that is compatible with other popular licences is a 
powerful constraint because of the [4]network effects: the freedom to 
share improvements between projects allows free software to reach 
high-quality over time. Licence-proliferation leads to many 
incompatible licences, undermining the network effect, the freedom to 
share and ultimately making the libre movement that Ubuntu is a part of 
less effective. For all kinds of software, writing a new licence is not 
to be taken lightly and is a choice that needs to be thoroughly 
justified if this path is taken.

Today it is not clear to Canonical what the best licence for a font 
project like the Ubuntu Font Family is: one that starts life designed 
by professionals and continues with the full range of community 
development, from highly commercial work in new directions to curious 
beginners’ experimental contributions. The fast and steady pace of the 
Ubuntu release cycle means that an interim libre licence has been 
necessary to enable the consideration of the font family as part of 
Ubuntu 10.10 operating system release.

Before taking any decision on licensing, Canonical as sponsor and 
backer of the project has reviewed the many existing licenses used for 
libre/open fonts and engaged the stewards of the most popular licenses 
in detailed discussions. The current interim licence is the first step 
in progressing the state-of-the-art in licensing for libre/open font 
development.

The public discussion must now involve everyone in the (comparatively 
new) area of the libre/open font community; including font users, 
software freedom advocates, open source supporters and existing libre 
font developers. Most importantly, the minds and wishes of professional 
type designers considering entering the free software business 
community must be taken on board.

Conversations and discussion has taken place, privately, with
individuals from the following groups (generally speaking personally on behalf of themselves, rather than their affiliations):
* [5] SIL International
* [6] Open Font Library
* [7] Software Freedom Law Center
* [8] Google Font API

Document embedding

One issue highlighted early on in the survey of existing font licences is that of document embedding. Almost all font licences, both free and unfree, permit embedding a font into a document to a certain degree. Embedding a font with other works that make up a document creates a "combined work" and copyleft would normally require the whole document to be distributed under the terms of the font licence. As beautiful as the font might be, such a licence makes a font too restrictive for useful general purpose digital publishing.

The situation is not entirely unique to fonts and is encountered also with tools such as GNU Bison: a vanilla GNU GPL licence would require anything generated with Bison to be made available under the terms of the GPL as well. To avoid this, Bison is published with an additional permission to the GPL which allows the output of Bison to be made available under any licence.

The conflict between licensing of fonts and licensing of documents, is addressed in two popular libre font licences, the SIL OFL and GNU GPL:
* [10] SIL Open Font Licence: When OFL fonts are embedded in a document, the OFL’s terms do not apply to that document. (See OFL-FAQ for details.
* [12] GPL Font Exception: The situation is resolved by granting an additional permission to allow documents to not be covered by the GPL. (The exception is being reviewed).

The Ubuntu Font Family must also resolve this conflict, ensuring that if the font is embedded and then extracted it is once again clearly under the terms of its libre licence.

Long-term licensing

Those individuals involved, especially from Ubuntu and Canonical, are interested in finding a long-term libre licence that finds broad favour across the whole libre/open font community. The deliberation during the past months has been on how to licence the Ubuntu Font Family in the short-term, while knowingly encouraging everyone to pursue a long-term goal.
* [13] Copyright assignment will be required so that the Ubuntu Font Family's licensing can be progressively expanded to one (or more)
licences, as best practice continues to evolve within the libre/open font community.

* Canonical will support and fund legal work on libre font licensing. It is recognised that the cost and time commitments required are likely to be significant. We invite other capable parties to join in supporting this activity.

The GPL version 3 (GPLv3) will be used for Ubuntu Font Family build scripts and the CC-BY-SA for associated documentation and non-font content: all items which do not end up embedded in general works and documents.

Ubuntu Font Licence

For the short-term only, the initial licence is the [14]Ubuntu Font License (UFL). This is loosely inspired from the work on the SIL OFL 1.1, and seeks to clarify the issues that arose during discussions and legal review, from the perspective of the backers, Canonical Ltd. Those already using established licensing models such as the GPL, OFL or Creative Commons licensing should have no worries about continuing to use them. The Ubuntu Font Licence (UFL) and the SIL Open Font Licence (SIL OFL) are not identical and should not be confused with each other. Please read the terms precisely. The UFL is only intended as an interim license, and the overriding aim is to support the creation of a more suitable and generic libre font licence. As soon as such a licence is developed, the Ubuntu Font Family will migrate to it made possible by copyright assignment in the interim. Between the OFL 1.1, and the UFL 1.0, the following changes are made to produce the Ubuntu Font Licence:

* Clarification:

2. Apply at point of distribution, instead of receipt
3. Author vs. copyright holder disambiguation (type designers are authors, with the copyright holder normally being the funder)
4. Define "Propagate" (for internationalisation, similar to the GPLv3)
5. Define "Substantially Changed"
6. Trademarks are explicitly not transferred
7. Refine renaming requirement

Streamlining:

8. Remove "not to be sold separately" clause
9. Remove "Reserved Font Name(s)" declaration

A visual demonstration of how these points were implemented can be found in the accompanying coloured diff between SIL OFL 1.1 and the Ubuntu Font Licence 1.0: [16]ofl-1.1-ufl-1.0.diff.html
References

13. https://launchpad.net/~uff-contributors

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1.468 libpciaccess 0.14 1.el8

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1.473 libinput 1.16.4-r0

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

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

These requirements apply to the modified work as a whole. If 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.

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

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

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

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

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

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

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

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

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

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

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

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

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

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.
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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 materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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

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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derivative of the original library, and the ordinary General Public License
treats it as such.

Because of this blurred distinction, using the ordinary General
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concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the
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preserving your freedom as a user of such programs to change the free
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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.

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

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

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

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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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1.483 ima-evm-utils 1.1 5.el8

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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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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
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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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1.490 python-jsonschema 3.2.0

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1.494 libxml 2.9.10-r6

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<signature of Ty Coon>, 1 April 1989
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The End

1.501 rpm 4.14.3 4.el8

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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
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.

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

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

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

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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.

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

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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 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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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.)

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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!
This package was debianized by Jean Pierre LeJacq <jplejacq@quoininc.com> on Wed, 25 Feb 1998. Martin Pitt <martin@piware.de> was the package's maintainer up to version 2.7.19-1. The current maintainer is Jan Dittberner <jandd@debian.org>.

It was downloaded from http://sourceforge.net/projects/cracklib

Copyright (c) 1993 Alec Muffett <alecm@crypto.dircon.co.uk>,
Copyright (c) 2005-2009 Nathan Neulinger <nneul@umr.edu>,
Copyright (c) 2008-2009 Jan Dittberner <jan@dittberner.info>

Modifications: Added cronjob, configuration file, and man pages.

This library is free software; you can redistribute it and/or modify it under the terms of the GNU Lesser General Public License as published by the Free Software Foundation; either version 2.1 of the License, or (at your option) any later version.
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WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU
Lesser General Public License for more details.

A copy of the GNU Lesser General Public License 2.1 is available as
/usr/share/common-licenses/LGPL-2.1 in the Debian GNU/Linux
distribution or on the World Wide Web at
http://www.gnu.org/licenses/old-licenses/lgpl-2.1.html. You can also
obtain it by writing to the Free Software Foundation, Inc., 51
Franklin St, Fifth Floor, Boston, MA 02110-1301, USA.

Copyright information:

CrackLib was originally licensed with a variant of the Artistic
license. In the interests of wider acceptance and more modern
licensing, it was switched with the original author's blessing to GPL
v2.

This approval was carried out in email discussions in 2005, and has
been reconfirmed as of 2007-10-01 with the following email from Alec
Muffett. Cracklib's license was changed from the GPL to the LGPL after
consensus of all previous developers in October 2008, effective with
release 2.8.15 released on 2009-11-19. See the email discussion below
for both license changes.

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-----------
EFFECTIVE OCT 2008, LICENSE IS BEING CHANGED TO LGPL-2.1 (though not reflected
in released code until Nov 2009 - slow release cycle...)
-----------

Discussion thread from mailing list archive, with approval from everyone actively
involved or holding original licensing rights included.

[Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2007-10-02 01:16

Attachments: Message as HTML
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University of Missouri - Rolla Phone: (573) 341-6679
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From: Neulinger, Nathan <nneul@um...> - 2007-10-02 01:46

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From: Alec Muffett <alecm@cr...> - 2007-10-02 08:57
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Re: [Cracklib-devel] cracklib license
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it via GPL will just make it less likely that the library gets used, and
will not usually cause companies/developers to GPL the dependent code
(where it is not already GPL).

I like GPL, I use it when I can, but I don't think that it's the correct
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If it's sinful, it's more fun.

Re: [Cracklib-devel] cracklib license
From: Nalin Dahyabhai <nalin@re...> - 2008-01-28 16:32
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I'd also suggest the LGPL, for the reason you noted above. Alternately,
GPLv2 with the option of using the library under a later version of the
GPL would permit applications which were released under version 3 of the
GPL to use the library, too, which would be sufficient for the packages
which are included in Fedora. FWIW, I'd personally lean toward LGPL.

In any case, I thank you both for working on sorting this out.

Cheers,

Nalin

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yes. go for it. thanks++

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Re: [Cracklib-devel] cracklib license
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Attaches: Message as HTML

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> make the change now?

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Nathan Neulinger is the only one who can actually make said change ...

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---------

BELOW IS ORIGINAL LICENSING DISCUSSION RE CHANGING TO GPL from Artistic.

---------
CrackLib was originally licensed with a variant of the Artistic license. In the interests of wider acceptance and more modern licensing, it was switched with the original author's blessing to GPL v2.

This approval was carried out in email discussions in 2005, and has been reconfirmed as of 2007-10-01 with the following email from Alec Muffett.

The below email references nneul@umr.edu address, as that is the address that was used at the time. For any future emails regarding this, please use nneul@neulinger.org.

-------------------------------------
From alecm@crypticide.com Mon Oct  1 12:26:03 2007
Received: from umr-exproto2.cc.umr.edu ([131.151.0.192]) by UMR-CMAIL1.umr.edu with Microsoft SMTPSVC(6.0.3790.3959);	Mon, 1 Oct 2007 12:26:03 -0500
Received: from scansrv2.srv.mst.edu ([131.151.1.114]) by umr-exproto2.cc.umr.edu with Microsoft SMTPSVC(6.0.3790.3959);	Mon, 1 Oct 2007 12:26:02 -0500
Received: (qmail 8022 invoked from network); 1 Oct 2007 16:59:55 -0000
Received: from smtp1.srv.mst.edu (131.151.1.43) by scanin-ipvs.cc.umr.edu with SMTP; 1 Oct 2007 16:59:55 -0000
Received: from spunkymail-mx8.g.dreamhost.com (mx1.spunky.mail.dreamhost.com [208.97.132.47]) by smtp1.srv.mst.edu (8.13.1/8.13.1) with ESMTP id l91Gxtpr020623 for <nneul@umr.edu>; Mon, 1 Oct 2007 11:59:55 -0500
Received: from rutherford.zen.co.uk (rutherford.zen.co.uk [212.23.3.142]) by spunkymail-mx8.g.dreamhost.com (Postfix) with ESMTP id 2C7734D311 for <nneul@neulinger.org>; Mon, 01 Oct 2007 09:59:50 -0700 (PDT)
Received: from [82.68.43.14] (helo=[192.168.1.3]) by rutherford.zen.co.uk with esmtp (Exim 4.50) id 1IcOcX-0004Qt-6L for nneul@neulinger.org; Mon, 01 Oct 2007 16:59:49 +0000
Mime-Version: 1.0 (Apple Message framework v752.2)
In-Reply-To: <1b1b3fd80710010908k1ldac0afp1f2dd471059ff9a4@mail.gmail.com>
References: <1190922867.3457.147.camel@localhost.localdomain>
            <EC90713277D2BE1B7110CCD74E235CEF44F38@UMR-CMAIL1.umr.edu>
            <1b1b3fd80710010908k1ldac0afp1f2dd471059ff9a4@mail.gmail.com>
Content-Type: text/plain; charset=US-ASCII; delsp=yes; format=flowed
Message-Id: <117A1264-F6DC-4E25-B0DD-56FBFEBE6E9F@crypticide.com>
Content-Transfer-Encoding: 7bit
From: Alec Muffett <alecm@crypticide.com>
Subject: Re: cracklib license
Date: Mon, 1 Oct 2007 17:59:46 +0100
To: Nathan Neulinger <nneul@neulinger.org>
Any chance you could write me a self-contained email stating clearly that the license is being changed to GPL, so I could include that email in the repository and clean up the repository/tarballs? I have all the original discussion, but something succinct and self contained would be ideal.

The license for my code in the Cracklib distribution is henceforth GPL.

Happy now? :-)

-a

----------
EFFECTIVE OCT 2008, LICENSE IS BEING CHANGED TO LGPL-2.1 (though not reflected in released code until Nov 2009 - slow release cycle...)

Discussion thread from mailing list archive, with approval from everyone actively involved or holding original licensing rights included.

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From alecm@crypticide.com Mon Oct  1 12:26:03 2007
Received: from umr-exproto2.cc.umr.edu ([131.151.0.192]) by UMR-CMAIL1.umr.edu with Microsoft
SMTPSVC(6.0.3790.3959);
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SMTPSVC(6.0.3790.3959);
   Mon, 1 Oct 2007 12:26:02 -0500
Received: (qmail 8022 invoked from network); 1 Oct 2007 16:59:55 -0000
Received: from smtp1.srv.mst.edu (131.151.1.43)
   by scanin-ipvs.cc.umr.edu with SMTP; 1 Oct 2007 16:59:55 -0000
Received: from spunkymail-mx8.g.dreamhost.com (mx1.spunky.mail.dreamhost.com [208.97.132.47])
   by smtp1.srv.mst.edu (8.13.1/8.13.1) with ESMTP id l91Gxtpt020623
   for <nneul@umr.edu>; Mon, 1 Oct 2007 11:59:55 -0500
Received: from rutherford.zen.co.uk (rutherford.zen.co.uk [212.23.3.142])
   by spunkymail-mx8.g.dreamhost.com (Postfix) with ESMTP id 2C7734D311
   for <nneul@neulinger.org>; Mon, 1 Oct 2007 09:59:50 -0700 (PDT)
   Received: from [82.68.43.14] (helo=[192.168.1.3])
   by rutherford.zen.co.uk with esmtp (Exim 4.50)
   id 1lCoC-X-0004Qt-6L
   for nneul@neulinger.org; Mon, 01 Oct 2007 16:59:49 +0000
Mime-Version: 1.0 (Apple Message framework v752.2)
In-Reply-To: <1b1b3fd80710010908k11dac0afp1f2dd471059ff9a4@mail.gmail.com>
References: <1190922867.3457.147.camel@localhost.localdomain>
<EC90713277D2BE41B7110CCD74E235CEF44F38@UMR-CMAIL1.umr.edu>
<1b1b3fd80710010908k11dac0afp1f2dd471059ff9a4@mail.gmail.com>
Content-Type: text/plain; charset=US-ASCII; delsp=yes; format=flowed
Message-Id: <117A1264-F6DC-4E25-B0DD-56FBFEBE6E9F@crypticide.com>
Content-Transfer-Encoding: 7bit
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X-Originating-Rutherford-IP: [82.68.43.14]
Any chance you could write me a self-contained email stating clearly that the license is being changed to GPL, so I could include that email in the repository and clean up the repository/tarballs? I have all the original discussion, but something succinct and self contained would be ideal.

The license for my code in the Cracklib distribution is henceforth GPL.

Happy now? :-)

-a

1.503 libproxy 0.4.15
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Version 2.1, February 1999

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1.517 bsdmainutils 11.1.2ubuntu3

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Then the package has been maintained by Charles Briscoe-Smith <cpbs@debian.org>. I gathered data for the 1999-2001 calendar files from various sources on the Internet, and I'd also like to thank Oliver Elphick, Julian Gilbey, Daniel Martín and Jaldhar H. Vyas for providing much useful data on the various religious calendars. I have edited the files they provided to fit calendar's requirements, so any errors should be attributed to me.

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Whether this is true is especially significant if the work can be
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threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data
structure layouts and accessors, and small macros and small inline
functions (ten lines or less in length), then the use of the object
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Otherwise, if the work is a derivative of the Library, you may
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@author Vincent Rijmen <vincent.rijmen@esat.kuleuven.ac.be>
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1.553 findutils 4.6.0 20.el8

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src/base/md5.h
#
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src/pcf/module.mk
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src/gzip/infblock.h
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src/gzip/inftrees.c
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The Licensed Software may provide links to third party libraries or code (collectively "Third-Party Software") to implement various functions. Third-Party Software does not comprise part of the Licensed Software. In some cases, access to Third-Party Software may be included with the Licensed Software. Such Third-Party Software will be listed in the "/src/3rdparty" source tree delivered with the Licensed Software or documented in the Licensed
Software, as such may be amended from time to time. Licensee acknowledges that use or distribution of Third-Party Software is in all respects subject to applicable license terms of applicable third-party right holders.

5. PRE-RELEASE CODE
The Licensed Software may contain pre-release code and functionality, or sample code marked or otherwise stated with appropriate designation such as "Technology Preview", "Alpha", "Beta", "Sample" etc. ("Pre-Release Code").

Such Pre-Release Code may be present complimentary for the Licensee, in order to provide experimental support or information for new platforms or preliminary versions of one or more new functionalities or for other similar reasons. The Pre-Release Code may not be at the level of performance and compatibility of a final, generally available, product offering. The Pre-Release Code may not operate correctly, may contain errors and may be substantially modified by The Qt Company prior to the first commercial product release, if any. The Qt Company is under no obligation to make Pre-Release Code commercially available, or provide any Support or Updates relating thereto. The Qt Company assumes no liability whatsoever regarding any Pre-Release Code, but any use thereof is exclusively at Licensee’s own risk and expense.

For clarity, unless Licensed Software specifies different license terms for the respective Pre-Release Code, the Licensee is entitled to use such pre-release code pursuant to Section 3, just like other Licensed Software, provided however that in the event Add-on Products are included and available as such Pre-Release Code, Licensee’s right to use such Add-on Products is nevertheless subject to and conditional upon conclusion of separate agreement with The Qt Company.

6. LIMITED WARRANTY AND WARRANTY DISCLAIMER
The Qt Company hereby represents and warrants that it has the power and authority to grant the rights and licenses granted to Licensee under this Agreement.

Except as set forth above, the Licensed Software is licensed to Licensee "as is" and Licensee’s exclusive remedy and The Qt Company’s entire liability for errors in the Licensed Software shall be limited, at The Qt Company’s option, to correction of the error, replacement of the Licensed Software or return of the applicable fees paid for the defective Licensed Software for the time period during which the License is not able to utilize the Licensed Software under the terms of this Agreement.

TO THE MAXIMUM EXTENT PERMITTED BY APPLICABLE LAW, THE QT COMPANY ON BEHALF OF ITSELF AND ITS LICENSORS, SUPPLIERS AND AFFILIATES, DISCLAIMS ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, TITLE AND NON-INFRINGEMENT WITH REGARD TO THE LICENSED SOFTWARE. THE QT COMPANY DOES NOT WARRANT THAT THE LICENSED SOFTWARE WILL SATISFY LICENSEE’S REQUIREMENTS OR THAT
IT WILL OPERATE WITHOUT DEFECT OR ERROR OR THAT THE OPERATION THEREOF WILL BE UNINTERRUPTED.

7. INDEMNIFICATION AND LIMITATION OF LIABILITY
7.1. Limitation of Liability
EXCEPT FOR (I) CASES OF GROSS NEGLIGENCE OR INTENTIONAL MISCONDUCT, AND (II) BREACH OF CONFIDENTIALITY, AND TO THE EXTENT PERMITTED BY APPLICABLE LAW, IN NO EVENT SHALL EITHER PARTY BE LIABLE TO THE OTHER PARTY FOR ANY LOSS OF PROFIT, LOSS OF DATA, LOSS OF BUSINESS OR GOODWILL OR ANY OTHER INDIRECT, SPECIAL, CONSEQUENTIAL, INCIDENTAL OR PUNITIVE COST, DAMAGES OR EXPENSE OF ANY KIND, HOWEVER ARISING UNDER OR IN CONNECTION WITH THIS AGREEMENT.

EXCEPT FOR (I) CASES OF GROSS NEGLIGENCE OR INTENTIONAL MISCONDUCT, AND (II) BREACH OF CONFIDENTIALITY, AND TO THE EXTENT PERMITTED BY APPLICABLE LAW, IN NO EVENT SHALL EITHER PARTY’S TOTAL AGGREGATE LIABILITY UNDER THIS AGREEMENT EXCEED THE AGGREGATE LICENSE FEES PAID OR PAYABLE TO THE QT COMPANY FROM LICENSEE DURING THE PERIOD OF TWELVE (12) MONTHS IMMEDIATELY PRECEDING THE EVENT RESULTING IN SUCH LIABILITY.

THE PROVISIONS OF THIS SECTION 7 ALLOCATE THE RISKS UNDER THIS AGREEMENT BETWEEN THE QT COMPANY AND LICENSEE AND THE PARTIES HAVE RELIED UPON THE LIMITATIONS SET FORTH HEREIN IN DETERMINING WHETHER TO ENTER INTO THIS AGREEMENT.

NOTWITHSTANDING ANYTHING TO THE CONTRARY IN THIS AGREEMENT, LICENSEE SHALL ALWAYS BE LIABLE TO PAY THE APPLICABLE LICENSE FEES CORRESPONDING TO ITS ACTUAL USE OF LICENSED SOFTWARE.

8. SUPPORT, UPDATES AND ONLINE SERVICES
Upon due payment of the agreed License Fees the Licensee will be eligible to receive Support and Updates and to use the Online Services during the License Term, provided, however, that in the event the License Term is longer than 36 months, the initial payment includes Support for only the first 12 months, unless the Parties specifically otherwise agree.

Unless otherwise decided by The Company at its free and absolute discretion, Upgrades will not be included in the Support but may be available subject to additional fees.

From time to time The Qt Company may change the Support terms, provided that during the respective ongoing License Term the level of Support provided by The Qt Company may not be reduced without the consent of the Licensee.

Unless otherwise agreed, The Qt Company shall not be responsible for providing any service or support to Customers.

9. CONFIDENTIALITY
Each Party acknowledges that during the Term of this Agreement each Party may
receive information about the other Party's business, business methods, business plans, customers, business relations, technology, and other information, including the terms of this Agreement, that is confidential and of great value to the other Party, and the value of which would be significantly reduced if disclosed to third parties ("Confidential Information"). Accordingly, when a Party (the "Receiving Party") receives Confidential Information from the other Party (the "Disclosing Party"), the Receiving Party shall only disclose such information to employees and Contractors on a need to know basis, and shall cause its employees and employees of its Affiliates to: (i) maintain any and all Confidential Information in confidence; (ii) not disclose the Confidential Information to a third party without the Disclosing Party's prior written approval; and (iii) not, directly or indirectly, use the Confidential Information for any purpose other than for exercising its rights and fulfilling its responsibilities pursuant to this Agreement. Each Party shall take reasonable measures to protect the Confidential Information of the other Party, which measures shall not be less than the measures taken by such Party to protect its own confidential and proprietary information.

Obligation of confidentiality shall not apply to information that (i) is or becomes generally known to the public through no act or omission of the Receiving Party; (ii) was in the Receiving Party's lawful possession prior to the disclosure hereunder and was not subject to limitations on disclosure or use; (iii) is developed independently by employees or Contractors of the Receiving Party or other persons working for the Receiving Party who have not had access to the Confidential Information of the Disclosing Party, as proven by the written records of the Receiving Party; (iv) is lawfully disclosed to the Receiving Party without restrictions, by a third party not under an obligation of confidentiality; or (v) the Receiving Party is legally compelled to disclose, in which case the Receiving Party shall notify the Disclosing Party of such compelled disclosure and assert the privileged and confidential nature of the information and cooperate fully with the Disclosing Party to limit the scope of disclosure and the dissemination of disclosed Confidential Information to the minimum extent necessary.

The obligations under this Section 9 shall continue to remain in force for a period of five (5) years after the last disclosure, and, with respect to trade secrets, for so long as such trade secrets are protected under applicable trade secret laws.

10. FEES, DELIVERY AND PAYMENT
10.1. License Fees
License Fees are described in The Qt Company's standard price list, quote or Purchase Order confirmation or in an appendix hereto, as the case may be.

The License Fees shall not be refunded or claimed as a credit in any event or for any reason whatsoever.

10.2. Ordering Licenses
Licensee may purchase Development Licenses and Distribution Licenses pursuant to agreed pricing terms or, if no specific pricing terms have been agreed upon, at The Qt Company's standard pricing terms applicable at the time of purchase. Unless specifically otherwise provided, any pricing terms referenced in this Agreement shall be valid for twelve (12) months from the date of this Agreement.

Licensee shall submit all purchase orders for Development Licenses and Distribution Licenses to The Qt Company by email or any other method acceptable to The Qt Company (each such order is referred to herein as a "Purchase Order") for confirmation, whereupon the Purchase Order shall become binding between the Parties.

10.3. Distribution License Packs
Unless otherwise agreed, Distribution Licenses shall be purchased by way of Distribution License Packs.

Upon due payment of the ordered Distribution License Pack(s), the Licensee will have an account of Distribution Licenses available for distributing the Redistributables in accordance with this Agreement.

Each time Licensee distributes a copy of Redistributables, then one Distribution License is used, and Licensee's account of available Distribution Licenses is decreased accordingly. Licensee may distribute copies of the Redistributables so long as Licensee has Distribution Licenses remaining on its account.

10.4. Payment Terms
License Fees and any other charges under this Agreement shall be paid by Licensee no later than thirty (30) days from the date of the applicable invoice from The Qt Company.

The Qt Company will submit an invoice to Licensee after the date of this Agreement and/or after The Qt Company receives a Purchase Order from Licensee.

A late payment charge of the lower of (a) one percent per month; or (b) the interest rate stipulated by applicable law, shall be charged on any unpaid balances that remain past due.

10.5. Taxes
All License Fees and other charges payable hereunder are gross amounts but exclusive of any value added tax, use tax, sales tax, withholding tax and other taxes, duties or tariffs ("Taxes") levied directly for the sale, delivery or use of Licensed Software hereunder pursuant to any applicable law. Such applicable Taxes shall be paid by Licensee to The Qt Company, or, where applicable, in lieu of payment of such Taxes to The Qt Company, Licensee shall provide an exemption certificate to The Qt Company and any applicable authority.

11. RECORD-KEEPING AND REPORTING OBLIGATIONS; AUDIT RIGHTS
11.1. Licensee’s Record-keeping
Licensee shall at all times during the Term of this Agreement and for a period of seven (7) years thereafter maintain Licensee's Records in an accurate and up-to-date form. Licensee’s Records shall be adequate to reasonably enable The Qt Company to determine Licensee's compliance with the provisions of this Agreement. The records shall conform to general good accounting practices.

Licensee shall, within thirty (30) days from receiving The Qt Company’s request to that effect, deliver to The Qt Company a report based on Licensee's Records, such report to contain information, in sufficient detail, on (i) number and identity of users working with Licensed Software or Open Source Qt, (ii) copies of Redistributables distributed by Licensee during the most recent calendar quarter and/or any other term specified by The Qt Company, (iii) number of undistributed copies of Redistributables and corresponding number of unused Distribution Licenses remaining on Licensee's account, and (iv) any other information as The Qt Company may reasonably require from time to time.

11.2. The Qt Company’s Audit Rights
The Qt Company or an independent auditor acting on behalf of The Qt Company's, may, upon at least five (5) business days’ prior written notice and at its expense, audit Licensee with respect to the Licensee's use of the Licensed Software, but not more frequently than once during each 6-month period. Such audit may be conducted by mail, electronic means or through an in-person visit to Licensee's place of business. Any such in-person audit shall be conducted during regular business hours at Licensee's facilities and shall not unreasonably interfere with Licensee's business activities. The Qt Company or the independent auditor acting on behalf of The Qt Company shall be entitled to inspect Licensee's Records and conduct necessary interviews of Licensee's relevant employees and Contractors. All such Licensee's Records and use thereof shall be subject to an obligation of confidentiality under this Agreement.

If an audit reveals that Licensee is using the Licensed Software beyond scope of the licenses Licensee has paid for, Licensee agrees to pay The Qt Company any amounts owed for such unauthorized use within 30 days from receipt of the corresponding invoice from The Qt Company. In addition, in the event the audit reveals a material violation of the terms of this Agreement (without limitation, either (i) underpayment of more than 10 % of License Fees or 10,000 euros (whichever is more) or (ii) distribution of products, which include or result from Prohibited Combination, shall be deemed a material violation for purposes of this section), then the Licensee shall pay The Qt Company's reasonable cost of conducting such audit.

12. TERM AND TERMINATION
12.1. Agreement Term
This Agreement shall enter into force upon due acceptance by both Parties and remain in force for as long as there is any Development License(s) purchased under this Agreement in force (“Term”), unless and until terminated pursuant to the terms of this Section 12.
12.2. Termination and suspension of rights
Either Party shall have the right to terminate this Agreement upon thirty (30) days prior written notice if the other Party commits a material breach of any obligation of this Agreement and fails to remedy such breach within such notice period.

Instead of termination, The Qt Company shall have the right to suspend or withhold grants of all rights to the Licensed Software hereunder, including but not limited to the Development Licenses, Distribution License, and Support, should Licensee fail to make payment in timely fashion or otherwise violates or is reasonably suspected to violate its obligations or terms of this Agreement, and where such violation or breach is not cured within five (5) business days following The Qt Company's written notice thereof.

12.3. Mutual Right to Terminate
Either Party shall have the right to terminate this Agreement immediately upon written notice in the event that the other Party becomes insolvent, files for any form of bankruptcy, makes any assignment for the benefit of creditors, has a receiver, administrative receiver or officer appointed over the whole or a substantial part of its assets, ceases to conduct business, or an act equivalent to any of the above occurs under the laws of the jurisdiction of the other Party.

12.4. Parties Rights and Duties upon Termination
Upon expiry or termination of the Agreement, Licensee shall cease and shall cause all Designated Users (including those of its Affiliates' and Contractors') to cease using the Licensed Software and distribution of the Redistributables under this Agreement.

Notwithstanding the above, in the event the Agreement expires or is terminated:
(i) as a result of The Qt Company choosing not to renew the Development License(s) as set forth in Section 3.1, then all valid licenses possessed by the Licensee at such date shall be extended to be valid in perpetuity under the terms of this Agreement and Licensee is entitled to purchase additional licenses as set forth in Section 10.2; or
(ii) for reason other than by The Qt Company pursuant to item (i) above or pursuant to Section 12.2, then the Licensee is entitled, for a period of six (6) months after the effective date of termination, to continue distribution of Devices under the Distribution Licenses paid but unused at such effective date of termination.

Upon any such termination the Licensee shall destroy or return to The Qt Company all copies of the Licensed Software and all related materials and will certify the same to The Qt Company upon its request, provided however that Licensee may retain and exploit such copies of the Licensed Software as it may reasonably require in providing continued support to Customers.
Expiry or termination of this Agreement for any reason whatsoever shall not relieve Licensee of its obligation to pay any License Fees accrued or payable to The Qt Company prior to the effective date of termination, and Licensee shall immediately pay to The Qt Company all such fees upon the effective date of termination. Termination of this Agreement shall not affect any rights of Customers to continue use of Applications and Devices (and therein incorporated Redistributables).

12.5. Extension in case of bankruptcy
In the event The Qt Company is declared bankrupt under a final, non-cancellable decision by relevant court of law, and this Agreement is not, at the date of expiry of the Development License(s) pursuant to Section 3.1, assigned to party, who has assumed The Qt Company's position as a legitimate licensor of Licensed Software under this Agreement, then all valid licenses possessed by the Licensee at such date of expiry, and which the Licensee has not notified for expiry, shall be extended to be valid in perpetuity under the terms of this Agreement.

13. GOVERNING LAW AND LEGAL VENUE
In the event this Agreement is in the name of The Qt Company Inc., a Delaware Corporation, then:
   (i) this Agreement shall be construed and interpreted in accordance with the laws of the State of California, USA, excluding its choice of law provisions;
   (ii) the United Nations Convention on Contracts for the International Sale of Goods will not apply to this Agreement; and
   (iii) any dispute, claim or controversy arising out of or relating to this Agreement or the breach, termination, enforcement, interpretation or validity thereof, including the determination of the scope or applicability of this Agreement to arbitrate, shall be determined by arbitration in San Francisco, USA, before one arbitrator. The arbitration shall be administered by JAMS pursuant to JAMS' Streamlined Arbitration Rules and Procedures. Judgment on the Award may be entered in any court having jurisdiction. This Section shall not preclude parties from seeking provisional remedies in aid of arbitration from a court of appropriate jurisdiction.

In the event this Agreement is in the name of The Qt Company Ltd., a Finnish Company, then:
   (i) this Agreement shall be construed and interpreted in accordance with the laws of Finland, excluding its choice of law provisions;
   (ii) the United Nations Convention on Contracts for the International Sale of Goods will not apply to this Agreement; and
   (iii) any disputes, controversy or claim arising out of or relating to this Agreement, or the breach, termination or validity thereof shall be finally settled by arbitration in accordance with the
Arbitration Rules of Finland Chamber of Commerce. The arbitration tribunal shall consist of one (1), or if either Party so requires, of three (3), arbitrators. The award shall be final and binding and enforceable in any court of competent jurisdiction. The arbitration shall be held in Helsinki, Finland and the process shall be conducted in the English language. This Section shall not preclude parties from seeking provisional remedies in aid of arbitration from a court of appropriate jurisdiction.

14. GENERAL PROVISIONS
14.1. No Assignment
Except in the case of a merger or sale of substantially all of its corporate assets, Licensee shall not be entitled to assign or transfer all or any of its rights, benefits and obligations under this Agreement without the prior written consent of The Qt Company, which shall not be unreasonably withheld or delayed. The Qt Company shall be entitled to freely assign or transfer any of its rights, benefits or obligations under this Agreement.

14.2. No Third-Party Representations
Licensee shall make no representations or warranties concerning the Licensed Software on behalf of The Qt Company. Any representation or warranty Licensee makes or purports to make on The Qt Company's behalf shall be void as to The Qt Company.

14.3. Surviving Sections
Any terms and conditions that by their nature or otherwise reasonably should survive termination of this Agreement shall so be deemed to survive. Such sections include especially the following: 1, 2, 6, 7, 9, 11, 12.4, 13 and 14.

14.4. Entire Agreement
This Agreement, the exhibits hereto, the License Certificate and any applicable Purchase Order accepted by The Qt Company constitute the complete agreement between the Parties and supersedes all prior or contemporaneous discussions, representations, and proposals, written or oral, with respect to the subject matters discussed herein.

In the event of any conflict or inconsistency between this Agreement and any Purchase Order, the terms of this Agreement will prevail over the terms of the Purchase Order with respect to such conflict or inconsistency.

Parties specifically acknowledge and agree that this Agreement prevails over any click-to-accept or similar agreements the Designated Users may need to accept online upon download of the Licensed Software, as may be required by The Qt Company's applicable processes relating to Licensed Software.

14.5. Modifications
No modification of this Agreement shall be effective unless contained in a writing executed by an authorized representative of each Party. No term or
condition contained in Licensee's Purchase Order ("Deviating Terms") shall apply unless The Qt Company has expressly agreed such Deviating Terms in writing. Unless and to the extent expressly agreed by The Qt Company, any such Deviating Terms shall be deemed void and with no legal effect. For clarity, delivery of the Licensed Software following the receipt of the Purchase Order including Deviating Terms shall not constitute acceptance of such Deviating Terms."

14.6. Force Majeure
Except for the payment obligations hereunder, neither Party shall be liable to the other for any delay or non-performance of its obligations hereunder in the event and to the extent that such delay or non-performance is due to an event of act of God, terrorist attack or other similar unforeseeable catastrophic event that prevents either Party for fulfilling its obligations under this Agreement and which such Party cannot avoid or circumvent ("Force Majeure Event"). If the Force Majeure Event results in a delay or non-performance of a Party for a period of three (3) months or longer, then either Party shall have the right to terminate this Agreement with immediate effect without any liability (except for the obligations of payment arising prior to the event of Force Majeure) towards the other Party.

14.7. Notices
Any notice given by one Party to the other shall be deemed properly given and deemed received if specifically acknowledged by the receiving Party in writing or when successfully delivered to the recipient by hand, fax, or special courier during normal business hours on a business day to the addresses specified for each Party on the signature page. Each communication and document made or delivered by one Party to the other Party pursuant to this Agreement shall be in the English language.

14.8. Export Control
Licensee acknowledges that the Redistributables, as incorporated in Applications or Devices, may be subject to export control restrictions under the applicable laws of respective countries. Licensee shall fully comply with all applicable export license restrictions and requirements as well as with all laws and regulations relating to the Redistributables and exercise of licenses hereunder and shall procure all necessary governmental authorizations, including without limitation, all necessary licenses, approvals, permissions or consents, where necessary for the re-exportation of the Redistributables, Applications and/or Devices.

14.9. No Implied License
There are no implied licenses or other implied rights granted under this Agreement, and all rights, save for those expressly granted hereunder, shall remain with The Qt Company and its licensors. In addition, no licenses or immunities are granted to the combination of the Licensed Software with any other software or hardware not delivered by The Qt Company under this Agreement.
14.10. Attorney Fees
The prevailing Party in any action to enforce this Agreement shall be entitled to recover its attorney's fees and costs in connection with such action.

14.11. Privacy
Licensee acknowledges and agrees that for the purpose of this Agreement, The Qt Company may collect, use, transfer and disclose personal data pertaining to Designated Users as well as any other employees and directors of the Licensee and its Contractors relevant for carrying out the intent of this Agreement. Such personal data may be collected from the Licensee or directly from the relevant individuals. The Parties acknowledge that with regard to such personal data processed hereunder, The Qt Company shall be regarded as the Data Controller under the applicable Data Protection Legislation. The Qt Company shall process any such personal data in accordance with its privacy policies and practices, which will comply with all applicable requirements of the Data Protection Legislation.

14.12. Severability
If any provision of this Agreement shall be adjudged by any court of competent jurisdiction to be unenforceable or invalid, that provision shall be limited or eliminated to the minimum extent necessary so that this Agreement shall otherwise remain in full force and effect and enforceable.

APPENDICES
The Agreement includes Appendix 1, and possibly one or more of the appendices 3-5, depending on the product(s) purchased by the Licensee, what is stated in the quote or invoice, and/or what is stated in the Licensee's License Certificate.

APPENDIX 1
The modules and/or tools that are included in the respective product - Qt for Application Development (QtAD), Qt for Device Creation (QtDC), Qt for MCUs (QtMCU), Qt 3D Studio (Qt3DS) and Qt Design Studio (QtDS) - are marked with 'X' in the below table.

Parts of the product that are permitted for distribution in object-code form only ("Redistributables") are marked with 'R' in the below table.

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APPENDIX 3: ADDITIONS TO LICENSED SOFTWARE

In addition to what is provided under the definition of the Licensed Software, Parties agree that Licensed Software shall also include the Add-On Products of The Qt Company, as mentioned in this Appendix, if included in the quote / invoice.

The Modules and/or Tools of the Licensed Software that are included with each Add-On Product respectively are marked with 'X' in the below table. Parts of the respective Add-On Product that are permitted for distribution in object-code form only ("Redistributables") are marked with 'R' in the below table.

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All the above Redistributables are subject to applicable provisions and limitations including but not limited to what is defined in section 3 of the Agreement.

APPENDIX 4: SMALL BUSINESS AND STARTUP

The provisions of this Appendix 4 are applicable for Start-up Companies and for the Evaluation Term. For the purpose of this Appendix 4, the following additional definitions shall be applicable:

"Trial Term" shall mean a period of twelve (12) months.

"Start-up Company" means a company with a maximum annual revenue, including funding, equivalent to 100,000 USD (in applicable currency) during a respective calendar year, as evidenced by duly audited records of the Licensee and approved by The Qt Company.

During the Trial Term, Section 3 shall apply with following modifications ("Trial Term Modifications"):

(i) Licenses granted under Sections 3.1 and 3.2 shall be free of any charge. For clarity, License for distribution of Devices pursuant to Section 3.3 is subject to applicable License Fee for necessary Distribution Licenses;

(ii) Development License under Section 3.1 is limited to a maximum of three (3) Designated Users; and

(iii) Support is available subject to availability, as judged by The Qt Company at its free and absolute discretion, provided that support will be limited to a maximum of ten (10) tickets during the Trial Term.

Upon expiry of the Trial Term:

(a) This Appendix 4 is terminated, Trial Term Modifications cease to remain in force, Licensee's Development Licenses shall be automatically converted into licenses subject to a License Fee (in the amount specified in the quote or in Appendix 2 and payable with a 30-day payment term) and Licensee's rights and obligations under this Agreement shall continue to remain in force under the standard provisions of the Agreement, unless the Licensee notifies The Qt Company in writing no less than ninety (90) days before such expiry date that Licensee does not agree to such continuance, in which event the Agreement, and all rights of the Licensee thereunder,
shall expire; provided however that
(b) in the event the Licensee still qualifies as a Start-up Company, the Licensee has an option ("Option"), instead of what is stated in item a) above, to renew the Trial Term. Renewal is limited to one time, and the total duration of Trial Term is thus 24 months after the effective date. Licensee shall notify The Qt Company in writing, no less than ninety (90) days before the expiry date, if Licensee wish to exercise the Option.

APPENDIX 5: NON-COMMERCIAL USE
The provisions of this Appendix 5 are applicable for non-commercial use of the Licensed Software by the Licensee.

For the purpose of this Appendix 5, the following additional definitions (replacing the relevant definition of the Agreement, where applicable) shall be applicable:

"Demo Units" shall mean (i) hardware development platform, which incorporates the Licensed Software along with Licensee’s software and/or hardware, and (ii) prototype versions of Applications or Devices.

"Designated User(s)" shall mean the employees and students of the Licensee.

"Licensee Products" shall mean Applications and/or Devices.

"Permitted Purpose" shall mean (i) Licensee’s internal evaluation and testing of Licensed Software, (ii) building Demo Units as well as (iii) educational use.

"Term" shall mean a period of twelve (12) months or any such other period as may be agreed between the Parties.

For the purpose of this Appendix 5, the following changes shall be agreed with respect to relevant Sections of the Agreement:

I. Recital (A) shall be replaced in its entirety to read as follows:

"(A) Licensee wishes to use the Licensed Software for the Permitted Purpose."

II. Section 3.1 shall be replaced in its entirety to read as follows:

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III. Sections 3.2, 3.3, 8 and 10 shall be deleted.

IV. Section 3.4 shall be replaced in its entirety to read as follows:

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- remove or alter any copyright, trademark or other proprietary rights notice contained in any portion of the Licensed Software;

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V. Section 12 shall be replaced in its entirety to read as follows:

"This Agreement shall enter into force upon due acceptance by both Parties and remain in force for the Term, unless and until terminated pursuant to the terms of Section 12."
Upon termination of the Agreement, Licensee shall cease using the Licensed Software. All other copies of Licensed Software in the possession or control of Licensee must be erased or destroyed. An officer of Licensee must, upon request, promptly deliver to The Qt Company a written confirmation that this has occurred.

Except for the modifications specified above, this Appendix carries no change to the terms of the Agreement which shall remain in full force.

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(ii) Applications must add primary and substantial functionality to the Licensed Software so as not to compete with the Licensed Software;

(iii) Applications may not pass on functionality which in any way makes it possible for others to create software with the Licensed Software; provided however that Licensee may use the Licensed Software's scripting and QML ("Qt Quick") functionality solely in order to enable scripting, themes and styles that augment the functionality and appearance of the Application(s) without adding primary and substantial functionality to the Application(s);

(iv) Licensee shall not use Licensed Software in any manner or for any purpose that infringes, misappropriates or otherwise violates any Intellectual property or right of any third party, or that violates any applicable law;

(v) Licensee shall not use The Qt Company's or any of its suppliers' names, logos, or trademarks to market Applications, except that Licensee may use "Built with Qt" logo to indicate that Application(s) was developed using the Licensed Software;

(vi) Licensee shall not distribute, sublicense or disclose source code of Licensed Software to any third party (provided however that Licensee may appoint employee(s) of Contractors as Designated Users to use Licensed Software pursuant to this Agreement). Such right may be available for the Licensee subject to a separate software development kit ("SDK") license agreement to be concluded with The Qt Company;

(vii) Licensee shall not grant the Customers a right to (i) make copies of the Redistributables except when and to the extent required to use the Applications and/or Devices for their intended purpose, (ii) modify the Redistributables or create derivative works thereof, (iii) decompile, disassemble or otherwise reverse engineer Redistributables, or (iv) redistribute any copy or portion of the Redistributables to any third party, except as part of the onward sale of the Device on which the Redistributables are installed;

(viii) Licensee shall not and shall cause that its Affiliates or Contractors shall not use Licensed Software in any Prohibited Combination, unless Licensee has received an advance written permission from The Qt Company to do so. Absent such written permission, any and all distribution by the Licensee during the Term of a hardware device or product a) which incorporate or integrate any part of Licensed Software or Open Source Qt; or b) where the main user interface or substantial functionality is provided by software built with Licensed Software or Open Source Qt or otherwise depends on the Licensed Software or Open Source Qt, shall be considered to be Device distribution under this Agreement and shall be dependent on
Licensee's compliance thereof (including but not limited to obligation to pay applicable License Fees for such distribution). Notwithstanding what is provided above in this sub-section (viii), Licensee is entitled to use and combine Licensed Software with any Permitted Software;

(ix) Licensee shall cause all of its Affiliates and Contractors entitled to make use of the licenses granted under this Agreement, to be contractually bound to comply with the relevant terms of this Agreement and not to use the Licensed Software beyond the terms hereof and for any purposes other than operating within the scope of their services for Licensee. Licensee shall be responsible for any and all actions and omissions of its Affiliates and Contractors relating to the Licensed Software and use thereof (including but not limited to payment of all applicable License Fees);

(x) Except when and to the extent explicitly provided in this Section 3, Licensee shall not transfer, publish, disclose, display or otherwise make available the Licensed Software; and

(xi) Licensee shall not attempt or enlist a third party to conduct or attempt to conduct any of the above.

Above terms shall not be applicable if and to the extent they conflict with any mandatory provisions of any applicable laws. Any use of Licensed Software beyond the provisions of this Agreement is strictly prohibited and requires an additional license from The Qt Company.

4. THIRD-PARTY SOFTWARE

The Licensed Software may provide links to third party libraries or code (collectively "Third-Party Software") to implement various functions. Third-Party Software does not comprise part of the Licensed Software. In some cases, access to Third-Party Software may be included with theLicensed Software. Such Third-Party Software will be listed in the ".../src/3rdparty" source tree delivered with the Licensed Software or documented in the Licensed Software, as such may be amended from time to time. Licensee acknowledges that use or distribution of Third-Party Software is in all respects subject to applicable license terms of applicable third-party right holders.

5. PRE-RELEASE CODE

The Licensed Software may contain pre-release code and functionality, or sample code marked or otherwise stated with appropriate designation such as "Technology Preview", "Alpha", "Beta", "Sample" etc. ("Pre-Release Code").

Such Pre-Release Code may be present complimentary for the Licensee, in order to provide experimental support or information for new platforms or preliminary versions of one or more new functionalities or for other similar reasons. The Pre-Release Code may not be at the level of performance and compatibility of a final, generally available, product offering. The Pre-Release Code may not
operate correctly, may contain errors and may be substantially modified by The Qt Company prior to the first commercial product release, if any. The Qt Company is under no obligation to make Pre-Release Code commercially available, or provide any Support or Updates relating thereto. The Qt Company assumes no liability whatsoever regarding any Pre-Release Code, but any use thereof is exclusively at Licensee's own risk and expense.

For clarity, unless Licensed Software specifies different license terms for the respective Pre-Release Code, the Licensee is entitled to use such pre-release code pursuant to Section 3, just like other Licensed Software, provided however that in the event Add-on Products are included and available as such Pre-Release Code, Licensee's right to use such Add-on Products is nevertheless subject to and conditional upon conclusion of separate agreement with The Qt Company.

6. LIMITED WARRANTY AND WARRANTY DISCLAIMER

The Qt Company hereby represents and warrants that it has the power and authority to grant the rights and licenses granted to Licensee under this Agreement.

Except as set forth above, the Licensed Software is licensed to Licensee "as is" and Licensee's exclusive remedy and The Qt Company's entire liability for errors in the Licensed Software shall be limited, at The Qt Company's option, to correction of the error, replacement of the Licensed Software or return of the applicable fees paid for the defective Licensed Software for the time period during which the License is not able to utilize the Licensed Software under the terms of this Agreement.

TO THE MAXIMUM EXTENT PERMITTED BY APPLICABLE LAW, THE QT COMPANY ON BEHALF OF ITSELF AND ITS LICENSORS, SUPPLIERS AND AFFILIATES, DISCLAIMS ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, TITLE AND NON-INFRINGEMENT WITH REGARD TO THE LICENSED SOFTWARE. THE QT COMPANY DOES NOT WARRANT THAT THE LICENSED SOFTWARE WILL SATISFY LICENSEE'S REQUIREMENTS OR THAT IT WILL OPERATE WITHOUT DEFECT OR ERROR OR THAT THE OPERATION THEREOF WILL BE UNINTERRUPTED.

7. INDEMNIFICATION AND LIMITATION OF LIABILITY

7.1. Limitation of Liability
EXCEPT FOR (I) CASES OF GROSS NEGLIGENCE OR INTENTIONAL MISCONDUCT, AND (II) BREACH OF CONFIDENTIALITY, AND TO THE EXTENT PERMITTED BY APPLICABLE LAW, IN NO EVENT SHALL EITHER PARTY BE LIABLE TO THE OTHER PARTY FOR ANY LOSS OF PROFIT, LOSS OF DATA, LOSS OF BUSINESS OR GOODWILL OR ANY OTHER INDIRECT, SPECIAL, CONSEQUENTIAL, INCIDENTAL OR PUNITIVE COST, DAMAGES OR EXPENSE OF ANY KIND, HOWEVER ARISING UNDER OR IN CONNECTION WITH THIS AGREEMENT.
EXCEPT FOR (I) CASES OF GROSS NEGLIGENCE OR INTENTIONAL MISCONDUCT, AND (II) BREACH OF CONFIDENTIALITY, AND TO THE EXTENT PERMITTED BY APPLICABLE LAW, IN NO EVENT SHALL EITHER PARTY’S TOTAL AGGREGATE LIABILITY UNDER THIS AGREEMENT EXCEED THE AGGREGATE LICENSE FEES PAID OR PAYABLE TO THE QT COMPANY FROM LICENSEE DURING THE PERIOD OF TWELVE (12) MONTHS IMMEDIATELY PRECEDING THE EVENT RESULTING IN SUCH LIABILITY.

THE PROVISIONS OF THIS SECTION 7 ALLOCATE THE RISKS UNDER THIS AGREEMENT BETWEEN THE QT COMPANY AND LICENSEE AND THE PARTIES HAVE RELIED UPON THE LIMITATIONS SET FORTH HEREIN IN DETERMINING WHETHER TO ENTER INTO THIS AGREEMENT.

NOTWITHSTANDING ANYTHING TO THE CONTRARY IN THIS AGREEMENT, LICENSEE SHALL ALWAYS BE LIABLE TO PAY THE APPLICABLE LICENSE FEES CORRESPONDING TO ITS ACTUAL USE OF LICENSED SOFTWARE.

8. SUPPORT, UPDATES AND ONLINE SERVICES

Upon due payment of the agreed License Fees the Licensee will be eligible to receive Support and Updates and to use the Online Services during the License Term, provided, however, that in the event the License Term is longer than 36 months, the initial payment includes Support for only the first 12 months, unless the Parties specifically otherwise agree.

Unless otherwise decided by The Company at its free and absolute discretion, Upgrades will not be included in the Support but may be available subject to additional fees.

From time to time The Qt Company may change the Support terms, provided that during the respective ongoing License Term the level of Support provided by The Qt Company may not be reduced without the consent of the Licensee.

Unless otherwise agreed, The Qt Company shall not be responsible for providing any service or support to Customers.

9. CONFIDENTIALITY

Each Party acknowledges that during the Term of this Agreement each Party may receive information about the other Party’s business, business methods, business plans, customers, business relations, technology, and other information, including the terms of this Agreement, that is confidential and of great value to the other Party, and the value of which would be significantly reduced if disclosed to third parties ("Confidential Information"). Accordingly, when a Party (the "Receiving Party") receives Confidential Information from the other Party (the "Disclosing Party"), the Receiving Party shall only disclose such information to employees and Contractors on a need to know basis, and shall cause its employees and employees of its Affiliates to: (i) maintain any and all Confidential
Information in confidence; (ii) not disclose the Confidential Information to a third party without the Disclosing Party's prior written approval; and (iii) not, directly or indirectly, use the Confidential Information for any purpose other than for exercising its rights and fulfilling its responsibilities pursuant to this Agreement. Each Party shall take reasonable measures to protect the Confidential Information of the other Party, which measures shall not be less than the measures taken by such Party to protect its own confidential and proprietary information.

Obligation of confidentiality shall not apply to information that (i) is or becomes generally known to the public through no act or omission of the Receiving Party; (ii) was in the Receiving Party's lawful possession prior to the disclosure hereunder and was not subject to limitations on disclosure or use; (iii) is developed independently by employees or Contractors of the Receiving Party or other persons working for the Receiving Party who have not had access to the Confidential Information of the Disclosing Party, as proven by the written records of the Receiving Party; (iv) is lawfully disclosed to the Receiving Party without restrictions, by a third party not under an obligation of confidentiality; or (v) the Receiving Party is legally compelled to disclose, in which case the Receiving Party shall notify the Disclosing Party of such compelled disclosure and assert the privileged and confidential nature of the information and cooperate fully with the Disclosing Party to limit the scope of disclosure and the dissemination of disclosed Confidential Information to the minimum extent necessary.

The obligations under this Section 9 shall continue to remain in force for a period of five (5) years after the last disclosure, and, with respect to trade secrets, for so long as such trade secrets are protected under applicable trade secret laws.

10. FEES, DELIVERY AND PAYMENT

10.1. License Fees
License Fees are described in The Qt Company's standard price list, quote or Purchase Order confirmation or in an appendix hereto, as the case may be.

The License Fees shall not be refunded or claimed as a credit in any event or for any reason whatsoever.

10.2. Ordering Licenses
Licensee may purchase Development Licenses and Distribution Licenses pursuant to agreed pricing terms or, if no specific pricing terms have been agreed upon, at The Qt Company's standard pricing terms applicable at the time of purchase. Unless specifically otherwise provided, any pricing terms referenced in this Agreement shall be valid for twelve (12) months from the date of this Agreement.

Licensee shall submit all purchase orders for Development Licenses and
Distribution Licenses to The Qt Company by email or any other method acceptable to The Qt Company (each such order is referred to herein as a "Purchase Order") for confirmation, whereupon the Purchase Order shall become binding between the Parties.

10.3. Distribution License Packs
Unless otherwise agreed, Distribution Licenses shall be purchased by way of Distribution License Packs.

Upon due payment of the ordered Distribution License Pack(s), the Licensee will have an account of Distribution Licenses available for distributing the Redistributables in accordance with this Agreement.

Each time Licensee distributes a copy of Redistributables, then one Distribution License is used, and Licensee's account of available Distribution Licenses is decreased accordingly.

Licensee may distribute copies of the Redistributables so long as Licensee has Distribution Licenses remaining on its account.

10.4. Payment Terms
License Fees and any other charges under this Agreement shall be paid by Licensee no later than thirty (30) days from the date of the applicable invoice from The Qt Company.

The Qt Company will submit an invoice to Licensee after the date of this Agreement and/or after The Qt Company receives a Purchase Order from Licensee.

A late payment charge of the lower of (a) one percent per month; or (b) the interest rate stipulated by applicable law, shall be charged on any unpaid balances that remain past due.

10.5. Taxes
All License Fees and other charges payable hereunder are gross amounts but exclusive of any value added tax, use tax, sales tax, withholding tax and other taxes, duties or tariffs ("Taxes") levied directly for the sale, delivery or use of Licensed Software hereunder pursuant to any applicable law. Such applicable Taxes shall be paid by Licensee to The Qt Company, or, where applicable, in lieu of payment of such Taxes to The Qt Company, Licensee shall provide an exemption certificate to The Qt Company and any applicable authority.

11. RECORD-KEEPING AND REPORTING OBLIGATIONS; AUDIT RIGHTS

11.1. Licensee's Record-keeping
Licensee shall at all times during the Term of this Agreement and for a period of seven (7) years thereafter maintain Licensee's Records in an accurate and up-to-date form. Licensee's Records shall be adequate to
reasonably enable The Qt Company to determine Licensee's compliance with the provisions of this Agreement. The records shall conform to general good accounting practices.

Licensee shall, within thirty (30) days from receiving The Qt Company's request to that effect, deliver to The Qt Company a report based on Licensee's Records, such report to contain information, in sufficient detail, on (i) number and identity of users working with Licensed Software or Open Source Qt, (ii) copies of Redistributables distributed by Licensee during the most recent calendar quarter and/or any other term specified by The Qt Company, (iii) number of undistributed copies of Redistributables and corresponding number of unused Distribution Licenses remaining on Licensee's account, and (iv) any other information as The Qt Company may reasonably require from time to time.

11.2. The Qt Company's Audit Rights
The Qt Company or an independent auditor acting on behalf of The Qt Company's, may, upon at least five (5) business days' prior written notice and at its expense, audit Licensee with respect to the Licensee's use of the Licensed Software, but not more frequently than once during each 6-month period. Such audit may be conducted by mail, electronic means or through an in-person visit to Licensee's place of business. Any such in-person audit shall be conducted during regular business hours at Licensee's facilities and shall not unreasonably interfere with Licensee's business activities. The Qt Company or the independent auditor acting on behalf of The Qt Company shall be entitled to inspect Licensee's Records and conduct necessary interviews of Licensee's relevant employees and Contractors. All such Licensee's Records and use thereof shall be subject to an obligation of confidentiality under this Agreement.

If an audit reveals that Licensee is using the Licensed Software beyond scope of the licenses Licensee has paid for, Licensee agrees to pay The Qt Company any amounts owed for such unauthorized use within 30 days from receipt of the corresponding invoice from The Qt Company.

In addition, in the event the audit reveals a material violation of the terms of this Agreement (without limitation, either (i) underpayment of more than 10 % of License Fees or 10,000 euros (whichever is more) or (ii) distribution of products, which include or result from Prohibited Combination, shall be deemed a material violation for purposes of this section), then the Licensee shall pay The Qt Company's reasonable cost of conducting such audit.

12. TERM AND TERMINATION
12.1. Agreement Term
This Agreement shall enter into force upon due acceptance by both Parties and remain in force for as long as there is any Development License(s) purchased under this Agreement in force (“Term”), unless and
until terminated pursuant to the terms of this Section 12.

12.2. Termination and suspension of rights
Either Party shall have the right to terminate this Agreement upon thirty (30) days prior written notice if the other Party commits a material breach of any obligation of this Agreement and fails to remedy such breach within such notice period.

Instead of termination, The Qt Company shall have the right to suspend or withhold grants of all rights to the Licensed Software hereunder, including but not limited to the Development License, Distribution License, and Support, should Licensee fail to make payment in timely fashion or otherwise violates or is reasonably suspected to violate its obligations or terms of this Agreement, and where such violation or breach is not cured within five (5) business days following The Qt Company’s written notice thereof.

12.3. Mutual Right to Terminate
Either Party shall have the right to terminate this Agreement immediately upon written notice in the event that the other Party becomes insolvent, files for any form of bankruptcy, makes any assignment for the benefit of creditors, has a receiver, administrative receiver or officer appointed over the whole or a substantial part of its assets, ceases to conduct business, or an act equivalent to any of the above occurs under the laws of the jurisdiction of the other Party.

12.4. Parties’ Rights and Duties upon Termination
Upon expiry or termination of the Agreement, Licensee shall cease and shall cause all Designated Users (including those of its Affiliates’ and Contractors’) to cease using the Licensed Software and distribution of the Redistributables under this Agreement.

Notwithstanding the above, in the event the Agreement expires or is terminated:
(i) as a result of The Qt Company choosing not to renew the Development License(s) as set forth in Section 3.1, then all valid licenses possessed by the Licensee at such date shall be extended to be valid in perpetuity under the terms of this Agreement and Licensee is entitled to purchase additional licenses as set forth in Section 10.2; or
(ii) for reason other than by The Qt Company pursuant to item (i) above or pursuant to Section 12.2, then the Licensee is entitled, for a period of six (6) months after the effective date of termination, to continue distribution of Devices under the Distribution Licenses paid but unused at such effective date of termination.

Upon any such termination the Licensee shall destroy or return to The Qt Company all copies of the Licensed Software and all related materials and will certify the same to The Qt Company upon its request, provided however that
Licensee may retain and exploit such copies of the Licensed Software as it may reasonably require in providing continued support to Customers.

Expiry or termination of this Agreement for any reason whatsoever shall not relieve Licensee of its obligation to pay any License Fees accrued or payable to The Qt Company prior to the effective date of termination, and Licensee shall immediately pay to The Qt Company all such fees upon the effective date of termination. Termination of this Agreement shall not affect any rights of Customers to continue use of Applications and Devices (and therein incorporated Redistributables).

12.5. Extension in case of bankruptcy
In the event The Qt Company is declared bankrupt under a final, non-cancellable decision by relevant court of law, and this Agreement is not, at the date of expiry of the Development License(s) pursuant to Section 3.1, assigned to party, who has assumed The Qt Company’s position as a legitimate licensor of Licensed Software under this Agreement, then all valid licenses possessed by the Licensee at such date of expiry, and which the Licensee has not notified for expiry, shall be extended to be valid in perpetuity under the terms of this Agreement.

13. GOVERNING LAW AND LEGAL VENUE

In the event this Agreement is in the name of The Qt Company Inc., a Delaware Corporation, then:
(i) this Agreement shall be construed and interpreted in accordance with the laws of the State of California, USA, excluding its choice of law provisions;
(ii) the United Nations Convention on Contracts for the International Sale of Goods will not apply to this Agreement; and
(iii) any dispute, claim or controversy arising out of or relating to this Agreement or the breach, termination, enforcement, interpretation or validity thereof, including the determination of the scope or applicability of this Agreement to arbitrate, shall be determined by arbitration in San Francisco, USA, before one arbitrator. The arbitration shall be administered by JAMS pursuant to JAMS’ Streamlined Arbitration Rules and Procedures. Judgment on the Award may be entered in any court having jurisdiction. This Section shall not preclude parties from seeking provisional remedies in aid of arbitration from a court of appropriate jurisdiction.

In the event this Agreement is in the name of The Qt Company Ltd., a Finnish Company, then:
(i) this Agreement shall be construed and interpreted in accordance with the laws of Finland, excluding its choice of law provisions;
(ii) the United Nations Convention on Contracts for the International Sale of Goods will not apply to this Agreement; and
(iii) any disputes, controversy or claim arising out of or relating to
this Agreement, or the breach, termination or validity thereof shall be finally settled by arbitration in accordance with the Arbitration Rules of Finland Chamber of Commerce. The arbitration tribunal shall consist of one (1), or if either Party so requires, of three (3), arbitrators. The award shall be final and binding and enforceable in any court of competent jurisdiction. The arbitration shall be held in Helsinki, Finland and the process shall be conducted in the English language. This Section shall not preclude parties from seeking provisional remedies in aid of arbitration from a court of appropriate jurisdiction.

14. GENERAL PROVISIONS

14.1. No Assignment
Except in the case of a merger or sale of substantially all of its corporate assets, Licensee shall not be entitled to assign or transfer all or any of its rights, benefits and obligations under this Agreement without the prior written consent of The Qt Company, which shall not be unreasonably withheld or delayed. The Qt Company shall be entitled to freely assign or transfer any of its rights, benefits or obligations under this Agreement.

14.2. No Third-Party Representations
Licensee shall make no representations or warranties concerning the Licensed Software on behalf of The Qt Company. Any representation or warranty Licensee makes or purports to make on The Qt Company’s behalf shall be void as to The Qt Company.

14.3. Surviving Sections
Any terms and conditions that by their nature or otherwise reasonably should survive termination of this Agreement shall so be deemed to survive. Such sections include especially the following: 1, 2, 6, 7, 9, 11, 12.4, 13 and 14.

14.4. Entire Agreement
This Agreement, the exhibits hereto, the License Certificate and any applicable Purchase Order accepted by The Qt Company constitute the complete agreement between the Parties and supersedes all prior or contemporaneous discussions, representations, and proposals, written or oral, with respect to the subject matters discussed herein.

In the event of any conflict or inconsistency between this Agreement and any Purchase Order, the terms of this Agreement will prevail over the terms of the Purchase Order with respect to such conflict or inconsistency.

Parties specifically acknowledge and agree that this Agreement prevails over any click-to-accept or similar agreements the Designated Users may need to accept online upon download of the Licensed Software, as may be required by The Qt Company’s applicable processes relating to Licensed Software.
14.5. Modifications
No modification of this Agreement shall be effective unless contained in a writing executed by an authorized representative of each Party. No term or condition contained in Licensee's Purchase Order ("Deviating Terms") shall apply unless The Qt Company has expressly agreed such Deviating Terms in writing. Unless and to the extent expressly agreed by The Qt Company, any such Deviating Terms shall be deemed void and with no legal effect. For clarity, delivery of the Licensed Software following the receipt of the Purchase Order including Deviating Terms shall not constitute acceptance of such Deviating Terms.

14.6. Force Majeure
Except for the payment obligations hereunder, neither Party shall be liable to the other for any delay or non-performance of its obligations hereunder in the event and to the extent that such delay or non-performance is due to an event of act of God, terrorist attack or other similar unforeseeable catastrophic event that prevents either Party for fulfilling its obligations under this Agreement and which such Party cannot avoid or circumvent ("Force Majeure Event"). If the Force Majeure Event results in a delay or non-performance of a Party for a period of three (3) months or longer, then either Party shall have the right to terminate this Agreement with immediate effect without any liability (except for the obligations of payment arising prior to the event of Force Majeure) towards the other Party.

14.7. Notices
Any notice given by one Party to the other shall be deemed properly given and deemed received if specifically acknowledged by the receiving Party in writing or when successfully delivered to the recipient by hand, fax, or special courier during normal business hours on a business day to the addresses specified for each Party on the signature page. Each communication and document made or delivered by one Party to the other Party pursuant to this Agreement shall be in the English language.

14.8. Export Control
Licensee acknowledges that the Redistributables, as incorporated in Applications or Devices, may be subject to export control restrictions under the applicable laws of respective countries. Licensee shall fully comply with all applicable export license restrictions and requirements as well as with all laws and regulations relating to the Redistributables and exercise of licenses hereunder and shall procure all necessary governmental authorizations, including without limitation, all necessary licenses, approvals, permissions or consents, where necessary for the re-exportation of the Redistributables, Applications and/or Devices.

14.9. No Implied License
There are no implied licenses or other implied rights granted under
this Agreement, and all rights, save for those expressly granted hereunder, shall remain with The Qt Company and its licensors. In addition, no licenses or immunities are granted to the combination of the Licensed Software with any other software or hardware not delivered by The Qt Company under this Agreement.

14.10. Attorney Fees
The prevailing Party in any action to enforce this Agreement shall be entitled to recover its attorney's fees and costs in connection with such action.

14.11. Privacy
Licensee acknowledges and agrees that for the purpose of this Agreement, The Qt Company may collect, use, transfer and disclose personal data pertaining to Designated Users as well as any other employees and directors of the Licensee and its Contractors relevant for carrying out the intent of this Agreement. Such personal data may be collected from the Licensee or directly from the relevant individuals. The Parties acknowledge that with regard to such personal data processed hereunder, The Qt Company shall be regarded as the Data Controller under the applicable Data Protection Legislation. The Qt Company shall process any such personal data in accordance with its privacy policies and practices, which will comply with all applicable requirements of the Data Protection Legislation.

14.12. Severability
If any provision of this Agreement shall be adjudged by any court of competent jurisdiction to be unenforceable or invalid, that provision shall be limited or eliminated to the minimum extent necessary so that this Agreement shall otherwise remain in full force and effect and enforceable.

APPENDICES

The Agreement includes Appendix 1, and possibly one or more of the appendices 3-5, depending on the product(s) purchased by the Licensee, what is stated in the quote or invoice, and/or what is stated in the Licensee’s License Certificate.

APPENDIX 1

The modules and/or tools that are included in the respective product - Qt for Application Development (QtAD), Qt for Device Creation (QtDC), Qt for MCUs (QtMCU), Qt 3D Studio (Qt3DS) and Qt Design Studio (QtDS) - are marked with 'X' in the below table.

Parts of the product that are permitted for distribution in object-code form only (“Redistributables”) are marked with ‘R’ in the below table.
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APPENDIX 3: ADDITIONS TO LICENSED SOFTWARE

In addition to what is provided under the definition of the Licensed Software, Parties agree that Licensed Software shall also include the Add-On Products of The Qt Company, as mentioned in this Appendix, if included in the quote / invoice.

The Modules and/or Tools of the Licensed Software that are included with each Add-On Product respectively are marked with ‘X’ in the below table.

Parts of the respective Add-On Product that are permitted for distribution in object-code form only (“Redistributables”) are marked with ‘R’ in the below table.

<p>| Module                          | X | X | | | |
|--------------------------------|---|---| | | |
| Qt Debugging Bridge (QDB) Host | | | X | | |
| Tools                          | | | | | |
| qtconfig-gui                   | | | X | | |
| Qt Emulator                    | | | X | | |
| Qmlinterfacegenerator          | | | | X | |
| Qmltocpp                       | | | X | | |
| qulfontcompiler                | | | X | | |
| Qt53DStudioRuntime2            | | | | X, R | |
| Qt 3D Studio                   | | | | X | |
| Qt Design Studio               | | | | X | |</p>
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| Qt Safe Renderer | X, R | X, R | X, R | | | |
| Qt Application Manager | X, R | X, R | | | | |
| Qt IVI | X, R | | | | | |
| Reference UI | X, R | | | | | |
| Qt GENIVI Extras | X, R | | | | | |
| QML Live | X | | | | | |
| Qt Creator | X | | | | | |
| Deployment | X | | | | | |
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| for Qt Application Manager | X | | | | | |
| Qt Automotive Suite | X | | | | | |
| Deployment Server | X | | | | | |
| Qt Design Studio | X | | | | | |
| Qt 3D Studio | X | | | | | |
| GammaRay | X | X | | | | |
| Platform adaptations | X | | | | | |
| for specified Deployment Platforms | X | | | | | |
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APPENDIX 4: SMALL BUSINESS AND STARTUP

The provisions of this Appendix 4 are applicable for companies with an annual revenue, including funding, equivalent to maximum of 250,000 USD (in applicable currency) during the latest full calendar year, as evidenced by duly audited records of the Licensee and approved by The Qt Company ("Start-up Company").

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"Demo Units" shall mean (i) hardware development platform, which incorporates the Licensed Software along with Licensee's software and/or hardware, and (ii) prototype versions of Applications or Devices.

"Designated User(s)" shall mean the employees and students of the Licensee.

"Licensee Products" shall mean Applications and/or Devices.

"Permitted Purpose" shall mean (i) Licensee's internal evaluation and
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"Term" shall mean a period of twelve (12) months or any such other period as may be agreed between the Parties.

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II. Section 3.1 shall be replaced in its entirety to read as follows:

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III. Sections 3.2, 3.3, 8 and 10 shall be deleted.

IV. Section 3.4 shall be replaced in its entirety to read as follows:

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  The contributed BDF and PCF drivers come with a license similar to that of the X Window System. It is compatible to the above two licenses (see file src/bdf/README and src/pcf/README). The same holds for the files `fthash.c` and `fthash.h`; their code was part of the BDF driver in
earlier FreeType versions.

The gzip module uses the zlib license (see src/gzip/zlib.h) which too is compatible to the above two licenses.

The MD5 checksum support (only used for debugging in development builds) is in the public domain.

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12.3 Mutual Right to Terminate

Either Party shall have the right to terminate this Agreement immediately upon
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(i) this Agreement shall be construed and interpreted in accordance with the laws of the State of California, USA, excluding its choice of law provisions;

(ii) the United Nations Convention on Contracts for the International Sale of Goods will not apply to this Agreement; and

(iii) any dispute, claim or controversy arising out of or relating to this Agreement or the breach, termination, enforcement, interpretation or validity thereof, including the determination of the scope or applicability of this
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(ii) the United Nations Convention on Contracts for the International Sale of Goods will not apply to this Agreement; and

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- The Licensed Software's help tool ("Qt Assistant")

- The Licensed Software's internationalization tools ("Qt Linguist", "lupdate", "lrelease")

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- The Licensed Software's installer framework
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- The Licensed Software's tool for writing makefiles ("qmake")

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- The Licensed Software's User Interface Compiler ("uic" or in the case of Qt Jambi: "juic")

- The Licensed Software's Resource Compiler ("rcc")

- The Licensed Software's generator (only in the case of Qt Jambi if applicable)

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1.560 theora 1.1.1-r16

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1.563 ethtool 5.4

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1.573 libxtst 1.2.3-r3

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1.574 xz 5.2.5-r0

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<signature of Ty Coon>, 1 April 1989
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Upstream-Contact: Manoj Srivastava <srivasta@debian.org>
Source: https://anonscm.debian.org/users/srivasta/debian/ucf.git
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1.586 jinja2 2.11.2
1.586.1 Available under license :

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```
import io
import re

from setuptools import find_packages
from setuptools import setup

with io.open("README.rst", "rt", encoding="utf8") as f:
    readme = f.read()

with io.open("src/jinja2/__init__.py", "rt", encoding="utf8") as f:
    version = re.search(r'__version__ = "(.*)"', f.read(), re.M).group(1)

setup(
    name="Jinja2",
    version=version,
    url="https://palletsprojects.com/p/jinja/",
    project_urls={
        "Documentation": "https://jinja.palletsprojects.com/",
        "Code": "https://github.com/pallets/jinja",
        "Issue tracker": "https://github.com/pallets/jinja/issues",
    },
    license="BSD-3-Clause",
    author="Armin Ronacher",
    author_email="armin.ronacher@active-4.com",
```
maintainer="Pallets",
maintainer_email="contact@palletsprojects.com",
description="A very fast and expressive template engine.",
long_description=readme,
classifiers=[
    "Development Status :: 5 - Production/Stable",
    "Environment :: Web Environment",
    "Intended Audience :: Developers",
    "License :: OSI Approved :: BSD License",
    "Operating System :: OS Independent",
    "Programming Language :: Python",
    "Programming Language :: Python :: 2",
    "Programming Language :: Python :: 2.7",
    "Programming Language :: Python :: 3",
    "Programming Language :: Python :: 3.5",
    "Programming Language :: Python :: 3.6",
    "Programming Language :: Python :: 3.7",
    "Programming Language :: Python :: 3.8",
    "Programming Language :: Python :: Implementation :: CPython",
    "Programming Language :: Python :: Implementation :: PyPy",
    "Topic :: Internet :: WWW/HTTP :: Dynamic Content",
    "Topic :: Software Development :: Libraries :: Python Modules",
    "Topic :: Text Processing :: Markup :: HTML",
],
packages=find_packages("src"),
package_dir={":" "src"},
include_package_data=True,
python_requires=">=2.7, !=3.0.*, !=3.1.*, !=3.2.*, !=3.3.*, !=3.4.*",
install_requires=["MarkupSafe>=0.23"],
extras_require={"i18n": ["Babel>=0.8"]},
entry_points={"babel.extractors": ["jinja2 = jinja2.ext:babel_extract[i18n]"]},
)

Found in path(s):
* /opt/cola/permits/1144331566_1615905659.36/0/jinja2-2-11-2-1-tar-gz/Jinja2-2.11.2/setup.py

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Metadata-Version: 2.1
Name: Jinja2
Version: 2.11.2
Summary: A very fast and expressive template engine.
Home-page: https://palletsprojects.com/p/jinja/
Author: Armin Ronacher
Author-email: armin.ronacher@active-4.com
Maintainer: Pallets
Maintainer-email: contact@palletsprojects.com
License: BSD-3-Clause
Jinja is a fast, expressive, extensible templating engine. Special placeholders in the template allow writing code similar to Python syntax. Then the template is passed data to render the final document.

It includes:

- Template inheritance and inclusion.
- Define and import macros within templates.
- HTML templates can use autoescaping to prevent XSS from untrusted user input.
- A sandboxed environment can safely render untrusted templates.
- AsyncIO support for generating templates and calling async functions.
- I18N support with Babel.
- Templates are compiled to optimized Python code just-in-time and cached, or can be compiled ahead-of-time.
- Exceptions point to the correct line in templates to make debugging easier.
- Extensible filters, tests, functions, and even syntax.

Jinja's philosophy is that while application logic belongs in Python if possible, it shouldn't make the template designer's job difficult by restricting functionality too much.

Installing
----------

Install and update using `pip`:

```
$ pip install -U Jinja2
```


In A Nutshell
-------------

```
{% extends "base.html" %}
```
{% block title %}Members{% endblock %}
{% block content %}
<ul>
{% for user in users %}
<li><a href="{{ user.url }}">{{ user.username }}</a></li>
{% endfor %}
</ul>
{% endblock %}

Links
-----

Website: https://palletsprojects.com/p/jinja/
Documentation: https://jinja.palletsprojects.com/
Releases: https://pypi.org/project/Jinja2/
Code: https://github.com/pallets/jinja
Issue tracker: https://github.com/pallets/jinja/issues
Test status: https://dev.azure.com/pallets/jinja/_build
Official chat: https://discord.gg/t6rrQZH

Platform: UNKNOWN
Classifier: Development Status :: 5 - Production/Stable
Classifier: Environment :: Web Environment
Classifier: Intended Audience :: Developers
Classifier: License :: OSI Approved :: BSD License
Classifier: Operating System :: OS Independent
Classifier: Programming Language :: Python
Classifier: Programming Language :: Python :: 2
Classifier: Programming Language :: Python :: 2.7
Classifier: Programming Language :: Python :: 3
Classifier: Programming Language :: Python :: 3.5
Classifier: Programming Language :: Python :: 3.6
Classifier: Programming Language :: Python :: 3.7
Classifier: Programming Language :: Python :: 3.8
Classifier: Programming Language :: Python :: Implementation :: CPython
Classifier: Programming Language :: Python :: Implementation :: PyPy
Classifier: Topic :: Internet :: WWW/HTTP :: Dynamic Content
Classifier: Topic :: Software Development :: Libraries :: Python Modules
Classifier: Topic :: Text Processing :: Markup :: HTML
Requires-Python: >=2.7, !=3.0.*, !=3.1.*, !=3.2.*, !=3.3.*, !=3.4.*
Description-Content-Type: text/x-rst
Provides-Extra: i18n
Found in path(s):
* /opt/cola/permits/1144331566_1615905659.36/0/jinja2-2-11-2-1-tar-gz/Jinja2-2.11.2/src/Jinja2.egg-info/PKGINFO
* /opt/cola/permits/1144331566_1615905659.36/0/jinja2-2-11-2-1-tar-gz/Jinja2-2.11.2/PKG-INFO

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* /opt/cola/permits/1144331566_1615905659.36/0/jinja2-2-11.2-1-tar-gz/Jinja2-2.11.2/LICENSE.rst

1.587 isomd5sum 1.2.3 3.el8

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1.588 gtk 3.24.23-r2
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For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link a program with the library, you must provide complete object files to the recipients so that they can relink them with the library, after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

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Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that companies distributing free software will individually obtain patent licenses, thus in effect transforming the program into proprietary software. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License, which was designed for utility programs. This license, the GNU Library General Public License, applies to certain designated libraries. This license is quite different from the ordinary one; be sure to read it in full, and don't assume that anything in it is the same as in the ordinary license.

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

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

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

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

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

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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:

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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.

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

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

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

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.
In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

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

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

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

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

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

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

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

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

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

6. As an exception to the Sections above, you may also compile or
link a “work that uses the Library” with the Library to produce a
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a) Accompany the work with the complete corresponding
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Sections 1 and 2 above); and, if the work is an executable linked
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uses the Library", as object code and/or source code, so that the
user can modify the Library and then relink to produce a modified
executable containing the modified Library. (It is understood
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to use the modified definitions.)

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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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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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   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.

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Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free
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In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

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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.)

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

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

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

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.
5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

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

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

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

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

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

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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, which became
Zope Corporation. In 2001, the Python Software Foundation (PSF, see
https://www.python.org/psf/) was formed, a non-profit organization
created specifically to own Python-related Intellectual Property.
Zope Corporation was a sponsoring member of the PSF.

All Python releases are Open Source (see http://www.opensource.org for
the Open Source Definition). Historically, most, but not all, Python
releases have also been GPL-compatible; the table below summarizes
the various releases.

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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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(2) According to Richard Stallman, 1.6.1 is not GPL-compatible, because its license has a choice of law clause. According to CNRI, however, Stallman's lawyer has told CNRI's lawyer that 1.6.1 is "not incompatible" with the GPL.

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jloup@gzip.org          madler@alumni.caltech.edu

The following list of people, sorted by last name, have contributed
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maintaining it in 1993. This list is known to be incomplete--if
you believe you should be listed, please send a note to sudo@sudo.ws.

Ackeret, Matt
Adler, Mark
Allbery, Russ
Anderson, Jamie
Andrew, Nick
Andric, Dimitry
Barron, Danny
Bates, Tom
Behan, Zdenk
Bellis, Ray
Benali, Elias
Beverly, Jamie
Boardman, Spider
Bos, Sander
Bostley, P.J.
Bowes, Keith
Boyce, Keith Garry
Brantley, Michael
Braun, Rob
Bezina, Pavel
Brooks, Piete
Brown, Jerry
Burr, Michael E
Burton, Ross
Bussjaeger, Andreas
Calvin, Gary
Campbell, Aaron
Chazelas, Stephane
Cheloha, Scott
ek, Vtzslav
Coleman, Chris
Corzine, Deven T.
Cusack, Frank
Dai, Wei
Dill, David
Earickson, Jeff
Eckhardt, Drew
Edgington, Ben
Esipovich, Marc
Espie, Marc
Faigon, Ariel
Farrell, Brian
Fobes, Steve
Fryinger, Mike
G., Daniel Richard
Gailly, Jean-loup
Gelman, Stephen
Gerraty, Simon J.
Graber, Stephane
Guillory, B.
Hayman, Randy M.
Henke, Joachim
Hidaaki, Yoshifuji
Hieb, Dave
Holloway, Nick
Hoover, Adam
Hunter, Michael T.
Hutchings, Ben
Irving, Eric
Jackson, Brian
Jackson, John R.
Jackson, Richard L., Jr.
Janssen, Mark
Jepeway, Chris
Jorge, Joel Pele
Jover, Guillel
Juhani, Timo
Kikuchi, Ayamura
Kadow, Kevin
Kasal, Stepan
Kienenberger, Mike
King, Dale
King, Michael
Klyachkin, Andrey
Knoble, Jim
Knox, Tim
Komarnitsky, Alek O.
Kondrashov, Nikolai
Kopeek, Daniel
Kranenburg, Paul
Krause, David
Lakin, Eric
Larsen, Case
Levin, Dmitry V.
Libby, Kendall
Lobbes, Phillip E.
McIntyre, Jason
MacKenzie, David J.
McLaughlin, Tom
Makey, Jeff
Mallayya, Sangamesh
Marchionna, Michael D.
Markham, Paul
Martinian, Emin
Meskes, Michael
Michael, David
Miller, Todd C.
Minier, Loc
Moffat, Darren
Moldung, Jan Thomas
Morris, Charles
Mueller, Andreas
Miller, Dworkin
Nieusma, Jeff
Nikitser, Peter A.
Nussel, Ludwig
Ouellet, Jean-Philippe
Paquet, Eric
Paradis, Chantal
Pasteleurs, Frederic
Percival, Ted
Perera, Andres
Peron, Christian S.J.
Peschel, Aaron
Peslyak, Alexander
Peterson, Toby
Petten, Diego Elio
Pickett, Joel
Plotnick, Alex
de Raadt, Theo
Rasch, Gudleik
Reid, Steve
Richards, Matt
Rossum, Guido van
Rouillard, John P.
Rowe, William A., Jr.
Roy, Alain
Ruusame, Elan
Ryabinkin, Eygene
Sato, Yuichi
Snechez, Wilfredo
Sanders, Miguel
Sasaki, Kan
Saucier, Jean-Francois
Schoenfeld, Patrick
Schuring, Arno
Schwarz, Ingo
Scott, Dougal
Sieger, Nick
Simon, Thor Lancelot
Slemko, Marc
Smith, Andy
Sobrado, Igor
Soulen, Steven
Spangler, Aaron
Spradling, Cloyce D.
Spradling, Michael
Stier, Matthew
Stoeckmann, Tobias
Street, Russell
Stritzky, Tilo
Stroucken, Michael
Tarrall, Robert
Thomas, Matthew
Todd, Giles
Toft, Martin
The following people have worked to translate sudo into other languages as part of the Translation Project, see https://translationproject.org for more details.

Albuquerque, Pedro
Blittermann, Mario
Bogusz, Jakub
Buo-ren, Lin
Casagrande, Milo
Castro, Felipe
Cho, Seong-ho
Chornoivan, Yuri
Diguez, Francisco
Fontenelle, Rafael
Garca-Fontes, Walter
Gezer, Volkan
Hamasaki, Takeshi
Hamming, Peter
Hansen, Joe
Hantrais, Frederic
Hein, Jochen
Hufthammer, Karl Ove
Jerovek, Damir
Karvonen, Jorma
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1.622 glibc 2.31

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@page
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@c End:

1.623 adwaita-icon-theme 3.38.0-r0

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man/bitstring.3bsd
man/errc.3bsd
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src/arc4random.c
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src/arc4random_uniform.c
src/arc4random_unix.h
src/arc4random_win.h
src/closefrom.c
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src/getentropy_bsd.c
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“Source code” for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

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

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

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

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

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

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

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

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.
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a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

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

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

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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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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a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)
b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

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1.658 nghttp2 1.42.0-r1

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set yrange [0:]
set terminal pngcairo font 'Sans, 8' lw 1 size 1400,1024
set xtics rotate by -45
set style histogram errorbars gap 2 lw 1
set style fill solid border -1

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1.659 xorg-server 1.20.10-r0

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1.664 sysv-init 2.96

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```
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1.670 garcon 0.8.0-r0

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1.672 libmodman 2.0.1 17.el8

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1.673 dhcp 4.3.6 41.el8
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* configure.ac, Makefile.am: The original versions were derived from the ones in the XML Catalog Manager project, version 2.2.

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* atf-c/ui.c: The format_paragraph and format_text functions were derived from the ones in the Monotone project, revision 3a0982da308228d796df35f98d787c5cffe2bb5b6.

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* atf-c++/detail/io.hpp, atf-c++/detail/io.cpp, atf-c++/detail/io_test.cpp: These files were derived from the file_handle, systembuf, pipe and pistream classes and tests found in the Boost.Process library.

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* admin/check-style.sh, admin/check-style-common.awk, admin/check-style-cpp.awk, admin/check-style-shell.awk: These files, except the first one, were first implemented in the Buildtool project. They were later adapted to be part of Boost.Process and, during that process, the shell script was created.
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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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4. You may copy and distribute the Library (or a portion or
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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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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
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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
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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.)

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.

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

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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
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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.

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### 1.685 e2fsprogs 1.45.7-r0

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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 Tso <tytso@mit.edu> and Remy Card <card@masi.ibp.fr>.

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```
# This is a Makefile stub which handles the creation of BSD shared libraries.
#
# In order to use this stub, the following makefile variables must be defined.
#
# BSDLIB_VERSION = 1.0
# BSDLIB_IMAGE = libce
# BSDLIB_MYDIR = et
```
all:: image

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

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

image:$ (BSDLIB_LIB)

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

install-shlibs install:: $(BSDLIB_LIB)
@echo "INSTALL_PROGRAM $(BSDLIB_INSTALL_DIR)/$(BSDLIB_LIB)"
@$(INSTALL_PROGRAM) $(BSDLIB_LIB) $(DESTDIR)$(BSDLIB_INSTALL_DIR)/$(BSDLIB_LIB)
@-$(LDCONFIG)

install-shlibs-strip:: install-shlibs

uninstall-shlibs uninstall:: 
$(RM) -f $(DESTDIR)/$(BSDLIB_INSTALL_DIR)/$(BSDLIB_LIB)

clean::
$(RM) -rf pic
$(RM) -f $(BSDLIB_LIB)
$(RM) -f ../$(BSDLIB_LIB)

This package was added to the e2fsprogs debian source package by Theodore Ts'o <tytso@mit.edu> on Sat Mar 15 15:33:37 EST 2003

It is part of the main e2fsprogs distribution, which can be found at:

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Index: tdbsa/tdb.c

--- tdbsa.orig/tdb.c
+++ tdbsa/tdb.c
@@ -4,11 +4,11 @@
 Last Changed Date: 2007-06-06 20:14:06 -0400 (Wed, 06 Jun 2007)
 */
/*
- Unix SMB/CIFS implementation.
+ trivial database library - standalone version

- trivial database library - private includes
-
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Theodore Ts'o
23-June-2007

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This package was added to the e2fsprogs debian source package by Theodore Ts'o <tytso@mit.edu> on Sat Mar 15 15:33:37 EST 2003

It is part of the main e2fsprogs distribution, which can be found at:

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This package was put together by Yann Dirson <dirson@debian.org>,
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Gadi Oxman, August 1995

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1.688 iputils 20180629 2.el8
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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 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
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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10. Each time you redistribute the Library (or any work based on the Library), the recipient automatically receives a license from the original licensor to copy, distribute, link with or modify the Library subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

11. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Library at all. For example, if a patent 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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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.>
Copyright (C) <year> <name of author>

This library is free software; you can redistribute it and/or modify it under the terms of the GNU Library General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This library is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANDABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU
Library General Public License for more details.

You should have received a copy of the GNU Library General Public
License along with this library; if not, write to the Free
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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!

1.694 json-glib 1.4.4

1.694.1 Available under license :

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Version 2.1, February 1999

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[This is the first released version of the Lesser GPL. It also counts
as the successor of the GNU Library Public License, version 2, hence
the version number 2.1.]

Preamble

The licenses for most software are designed to take away your
freedom to share and change it. By contrast, the GNU General Public
Licenses are intended to guarantee your freedom to share and change
free software--to make sure the software is free for all its users.

This license, the Lesser General Public License, applies to some
specially designated software packages--typically libraries--of the
Free Software Foundation and other authors who decide to use it. You
can use it too, but we suggest you first think carefully about whether this license or the ordinary General Public License is the better strategy to use in any particular case, based on the explanations below.

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

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

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link other code with the library, you must provide complete object files to the recipients, so that they can relink them with the library after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.

Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those
When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

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

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

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

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

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

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

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

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

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

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.
d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

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

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

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

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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### 1.703 vuetify 2.4.5

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1.706 expat 2.2.10-r1

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1.707 element-ui 2.13.2

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1.708 libfastjson 0.99.8 2.el8

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1.709 netifaces 0.10.4

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Metadata-Version: 1.1
Name: netifaces
Version: 0.10.4
Summary: Portable network interface information.
Home-page: https://bitbucket.org/al45tair/netifaces
Author: Alastair Houghton
Author-email: alastair@alastairs-place.net
License: MIT License
Description: netifaces 0.10.4

.. image:: https://drone.io/bitbucket.org/al45tair/netifaces/status.png
   :target: https://drone.io/bitbucket.org/al45tair/netifaces/latest
   :alt: Build Status

1. What is this?

It's been annoying me for some time that there's no easy way to get the address(es) of the machine's network interfaces from Python. There is a good reason for this difficulty, which is that it is virtually impossible to do so in a portable manner. However, it seems to me that there should be a package you can easy_install that will take care of working out the details of doing so on the machine you're using, then you can get on with writing Python code without concerning yourself with the nitty gritty of system-dependent low-level networking APIs.

This package attempts to solve that problem.

2. How do I use it?

First you need to install it, which you can do by typing:

    tar xvzf netifaces-0.10.4.tar.gz
    cd netifaces-0.10.4
    python setup.py install

Once that's done, you'll need to start Python and do something like the following:
>>> import netifaces

Then if you enter

```python
>>> netifaces.interfaces()
['lo0', 'gif0', 'stf0', 'en0', 'en1', 'fw0']
```
you'll see the list of interface identifiers for your machine.

You can ask for the addresses of a particular interface by doing

```python
>>> netifaces.ifaddresses('lo0')
{18: [{}], 2: [{'peer': '127.0.0.1', 'netmask': '255.0.0.0', 'addr': '127.0.0.1'}], 30: [{'peer': ':1', 'netmask': 'ffff:ffff:ffff:ffff:ffff:ffff:ffff:ffff', 'addr': '::1'}, {'peer': '', 'netmask': 'ffff:ffff:ffff:ffff:ffff:ffff:ffff:ffff', 'addr': 'fe80::1%lo0'}]}
```

Hmmmm. That result looks a bit cryptic; let's break it apart and explain what each piece means. It returned a dictionary, so let's look there first:

```python
{ 18: [...], 2: [...], 30: [...] }
```

Each of the numbers refers to a particular address family. In this case, we have three address families listed; on my system, 18 is ``AF_LINK`` (which means the link layer interface, e.g. Ethernet), 2 is ``AF_INET`` (normal Internet addresses), and 30 is ``AF_INET6`` (IPv6).

But wait! Don't use these numbers in your code. The numeric values here are system dependent; fortunately, I thought of that when writing netifaces, so the module declares a range of values that you might need. e.g.

```python
>>> netifaces.AF_LINK
18
```

Again, on your system, the number may be different.

So, what we've established is that the dictionary that's returned has one entry for each address family for which this interface has an address. Let's take a look at the ``AF_INET`` addresses now:

```python
>>> addrs = netifaces.ifaddresses('lo0')
>>> addrs[netifaces.AF_INET]
[{'peer': '127.0.0.1', 'netmask': '255.0.0.0', 'addr': '127.0.0.1'}]
```

You might be wondering why this value is a list. The reason is that it's possible for an interface to have more than one address, even within the same family. I'll say that again: *you can have more than one address of the same type associated with each interface*.

*Asking for "the" address of a particular interface doesn't make sense.*
Right, so, we can see that this particular interface only has one address, and, because it's a loopback interface, it's point-to-point and therefore has a *peer* address rather than a broadcast address.

Let's look at a more interesting interface.

```python
>>> addrs = netifaces.ifaddresses('en0')
>>> addrs[netifaces.AF_INET]
[{'broadcast': '10.15.255.255', 'netmask': '255.240.0.0', 'addr': '10.0.1.4'}, {'broadcast': '192.168.0.255', 'addr': '192.168.0.47'}]
```

This interface has two addresses (see, I told you...) Both of them are regular IPv4 addresses, although in one case the netmask has been changed from its default. The netmask *may not* appear on your system if it's set to the default for the address range.

Because this interface isn't point-to-point, it also has broadcast addresses.

Now, say we want, instead of the IP addresses, to get the MAC address; that is, the hardware address of the Ethernet adapter running this interface. We can do

```python
>>> addrs[netifaces.AF_LINK]
[{'addr': '00:12:34:56:78:9a'}]
```

Note that this may not be available on platforms without getifaddrs(), unless they happen to implement ``SIOCGIFHWADDR``. Note also that you just get the address; it's unlikely that you'll see anything else with an ``AF_LINK`` address. Oh, and don't assume that all ``AF_LINK`` addresses are Ethernet; you might, for instance, be on a Mac, in which case:

```python
>>> addrs = netifaces.ifaddresses('fw0')
>>> addrs[netifaces.AF_LINK]
[{'addr': '00:12:34:56:78:9a:bc:de'}]
```

No, that isn't an exceptionally long Ethernet MAC address---it's a FireWire address.

As of version 0.10.0, you can also obtain a list of gateways on your machine:

```python
>>> netifaces.gateways()
{2: [('10.0.1.1', 'en0', True), ('10.2.1.1', 'en1', False)], 30: [('fe80::1', 'en0', True), 'default': { 2: ('10.0.1.1', 'en0'), 30: ('fe80::1', 'en0') }]
```

This dictionary is keyed on address family---in this case, ``AF_INET``---and each entry is a list of gateways as ``(address, interface, is_default)`` tuples.
Notice that here we have two separate gateways for IPv4 (`AF_INET`); some operating systems support configurations like this and can either route packets based on their source, or based on administratively configured routing tables.

For convenience, we also allow you to index the dictionary with the special value `''default''`, which returns a dictionary mapping address families to the default gateway in each case. Thus you can get the default IPv4 gateway with

```python
>>> gws = netifaces.gateways()
>>> gws['default'][netifaces.AF_INET]
('10.0.1.1', 'en0')
```

Do note that there may be no default gateway for any given address family; this is currently very common for IPv6 and much less common for IPv4 but it can happen even for `''AF_INET''`.

BTW, if you're trying to configure your machine to have multiple gateways for the same address family, it's a very good idea to check the documentation for your operating system *very* carefully, as some systems become extremely confused or route packets in a non-obvious manner.

I'm very interested in hearing from anyone (on any platform) for whom the `''gateways()''` method doesn't produce the expected results. It's quite complicated extracting this information from the operating system (whichever operating system we're talking about), and so I expect there's at least one system out there where this just won't work.

3. This is great! What platforms does it work on?

It gets regular testing on OS X, Linux and Windows. It has also been used successfully on Solaris, and it's expected to work properly on other UNIX-like systems as well. If you are running something that is not supported, and wish to contribute a patch, please use BitBucket to send a pull request.

4. What license is this under?

It's an MIT-style license. Here goes:

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5. Why the jump to 0.10.0?

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

Because someone released a fork of netifaces with the version 0.9.0. Hopefully skipping the version number should remove any confusion. In addition starting with 0.10.0 Python 3 is now supported and other features/bugfixes have been included as well. See the CHANGELOG for a more complete list of changes.

Platform: UNKNOWN
Classifier: Development Status :: 4 - Beta
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Classifier: Programming Language :: Python :: 2.6
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Found in path(s):
* /opt/cola/permits/1144634651_1616129207.51/0/netifaces-0-10-4-1-tar-gz/netifaces-0.10.4/PKG-INFO
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netifaces 0.10.4

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You can ask for the addresses of a particular interface by doing

>>> netifaces.ifaddresses('lo0')
{18: [{'addr': ''}], 2: [{'peer': '127.0.0.1', 'netmask': '255.0.0.0', 'addr': '127.0.0.1'}], 30: [{'peer': '::1', 'netmask': 'ffff:ffff:ffff:ffff:ffff:ffff:ffff:ffff', 'addr': '::1'}, {'peer': '', 'netmask': 'ffff:ffff:ffff:ffff::', 'addr': 'fe80::1%lo0'}]

Hmmmm. That result looks a bit cryptic; let's break it apart and explain what each piece means. It returned a dictionary, so let's look there first::
Each of the numbers refers to a particular address family. In this case, we have three address families listed; on my system, 18 is ``AF_LINK`` (which means the link layer interface, e.g. Ethernet), 2 is ``AF_INET`` (normal Internet addresses), and 30 is ``AF_INET6`` (IPv6).

But wait! Don't use these numbers in your code. The numeric values here are system dependent; fortunately, I thought of that when writing netifaces, so the module declares a range of values that you might need. e.g.

```python
>>> netifaces.AF_LINK
18
```

Again, on your system, the number may be different.

So, what we've established is that the dictionary that's returned has one entry for each address family for which this interface has an address. Let's take a look at the ``AF_INET`` addresses now:

```python
>>> addrs = netifaces.ifaddresses('lo0')
>>> addrs[netifaces.AF_INET]
[{'peer': '127.0.0.1', 'netmask': '255.0.0.0', 'addr': '127.0.0.1'}]
```

You might be wondering why this value is a list. The reason is that it's possible for an interface to have more than one address, even within the same family. I'll say that again: *you can have more than one address of the same type associated with each interface*.

*Asking for "the" address of a particular interface doesn't make sense.*

Right, so, we can see that this particular interface only has one address, and, because it's a loopback interface, it's point-to-point and therefore has a *peer* address rather than a broadcast address.

Let's look at a more interesting interface.

```python
>>> addrs = netifaces.ifaddresses('en0')
>>> addrs[netifaces.AF_INET]
[['broadcast': '10.15.255.255', 'netmask': '255.240.0.0', 'addr': '10.0.1.4'], ['broadcast': '192.168.0.255', 'addr': '192.168.0.47']]
```

This interface has two addresses (see, I told you...) Both of them are regular IPv4 addresses, although in one case the netmask has been changed from its default. The netmask *may not* appear on your system if it's set to the default for the address range.
Because this interface isn't point-to-point, it also has broadcast addresses.

Now, say we want, instead of the IP addresses, to get the MAC address; that is, the hardware address of the Ethernet adapter running this interface. We can do

```python
>>> addrs[netifaces.AF_LINK]
[{'addr': '00:12:34:56:78:9a'}]
```

Note that this may not be available on platforms without getifaddrs(), unless they happen to implement ``SIOCGIFHWADDR``. Note also that you just get the address; it's unlikely that you'll see anything else with an ``AF_LINK`` address. Oh, and don't assume that all ``AF_LINK`` addresses are Ethernet; you might, for instance, be on a Mac, in which case:

```python
>>> addrs = netifaces.ifaddresses('fw0')
>>> addrs[netifaces.AF_LINK]
[{'addr': '00:12:34:56:78:9a:bc:de'}]
```

No, that isn't an exceptionally long Ethernet MAC address---it's a FireWire address.

As of version 0.10.0, you can also obtain a list of gateways on your machine:

```python
>>> netifaces.gateways()
{2: [('10.0.1.1', 'en0', True), ('10.2.1.1', 'en1', False)], 30: [('fe80::1', 'en0', True)]},
'default': {2: ('10.0.1.1', 'en0'), 30: ('fe80::1', 'en0')}
```

This dictionary is keyed on address family---in this case, ``AF_INET``---and each entry is a list of gateways as ``(address, interface, is_default)`` tuples. Notice that here we have two separate gateways for IPv4 (``AF_INET``); some operating systems support configurations like this and can either route packets based on their source, or based on administratively configured routing tables.

For convenience, we also allow you to index the dictionary with the special value ``default``, which returns a dictionary mapping address families to the default gateway in each case. Thus you can get the default IPv4 gateway with

```python
>>> gws = netifaces.gateways()
>>> gws['default'][netifaces.AF_INET]
('10.0.1.1', 'en0')
```

Do note that there may be no default gateway for any given address family; this is currently very common for IPv6 and much less common for IPv4 but it can happen even for ``AF_INET``.

BTW, if you're trying to configure your machine to have multiple gateways for
the same address family, it's a very good idea to check the documentation for
your operating system *very* carefully, as some systems become extremely
confused or route packets in a non-obvious manner.

I'm very interested in hearing from anyone (on any platform) for whom the
`gateways()` method doesn't produce the expected results. It's quite
complicated extracting this information from the operating system (whichever
operating system we're talking about), and so I expect there's at least one
system out there where this just won't work.

3. This is great! What platforms does it work on?

It gets regular testing on OS X, Linux and Windows. It has also been used
successfully on Solaris, and it's expected to work properly on other UNIX-like
systems as well. If you are running something that is not supported, and
wish to contribute a patch, please use BitBucket to send a pull request.

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5. Why the jump to 0.10.0?

Because someone released a fork of netifaces with the version 0.9.0.
Hopefully skipping the version number should remove any confusion. In
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features/bugfixes have been included as well. See the CHANGELOG for a
more complete list of changes.

Found in path(s):
* /opt/cola/permits/1144634651_1616129207.51/0/netifaces-0-10-4-1-tar-gz/netifaces-0.10.4/README.rst

1.710 gettext 0.20.2-r2

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1.711 boost 1.66.0 10.el8

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This is an attempt to acknowledge early contributions to the garbage collector. Later contributions should instead be mentioned in README.changes.

HISTORY -

Early versions of this collector were developed as a part of research projects supported in part by the National Science Foundation and the Defense Advance Research Projects Agency.

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

Some other contributors:

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

The SPARC specific code was originally contributed by Mark Weiser. The Encore Multimax modifications were supplied by Kevin Kenny (kenny@m.cs.uiuc.edu). The adaptation to the IBM PC/RT is largely due to Vernon Lee, on machines made available to Rice by IBM.

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

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### 1.712 babel-runtime 6.26.0

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1.721 linux-kernel 5.4.0

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1.735 at-spi2-atk 2.38.0-r0

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1.744 opus 1.3 0.4.beta.el8

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1.746 gawk 5.0.1+dfsg

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numbered 2 because it goes with version 2 of the ordinary GPL.]

Preamble

The licenses for most software are designed to take away your
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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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1.747 lddtree 1.26-r2

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# A grammar to describe tree matching patterns.
# Not shown here:
# - 'TOKEN' stands for any token (leaf node)
# - 'any' stands for any node (leaf or interior)
# With 'any' we can still specify the sub-structure.

# The start symbol is 'Matcher'.

Matcher: Alternatives ENDMARKER

Alternatives: Alternative ('|' Alternative)*

Alternative: (Unit | NegatedUnit)+

Unit: [NAME '='] ( STRING [Repeater]
  | NAME [Details] [Repeater]
  | '(' Alternatives ')' [Repeater]
  | '[' Alternatives ']' )

NegatedUnit: 'not' (STRING | NAME [Details] | '(' Alternatives ')

Repeater: '*' | '+' | '{' NUMBER [',' NUMBER] '}

Details: '<' Alternatives '>

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* /opt/cola/permits/1144634244_1616075160.32/0/python3-stdeblib-extensions-3.8-5-orig-tar-xz/python3-stdeblib-extensions-3.8.5/3.9/Lib/lib2to3/pgen2/literals.py
* /opt/cola/permits/1144634244_1616075160.32/0/python3-stdeblib-extensions-3.8-5-orig-tar-xz/python3-stdeblib-extensions-3.8.5/3.9/Lib/lib2to3/pgen2/conv.py
* /opt/cola/permits/1144634244_1616075160.32/0/python3-stdeblib-extensions-3.8-5-orig-tar-xz/python3-stdeblib-extensions-3.8.5/3.9/Lib/lib2to3/pgen2/grammar.py
* /opt/cola/permits/1144634244_1616075160.32/0/python3-stdeblib-extensions-3.8-5-orig-tar-xz/python3-stdeblib-extensions-3.8.5/3.9/Lib/lib2to3/pgen2/literals.py
* /opt/cola/permits/1144634244_1616075160.32/0/python3-stdeblib-extensions-3.8-5-orig-tar-xz/python3-stdeblib-extensions-3.8.5/3.9/Lib/lib2to3/pgen2/conv.py
* /opt/cola/permits/1144634244_1616075160.32/0/python3-stdeblib-extensions-3.8-5-orig-tar-xz/python3-stdeblib-extensions-3.8.5/3.7/Lib/lib2to3/pgen2/grammar.py
* /opt/cola/permits/1144634244_1616075160.32/0/python3-stdeblib-extensions-3.8-5-orig-tar-xz/python3-stdeblib-extensions-3.8.5/3.7/Lib/lib2to3/pgen2/literals.py
No license file was found, but licenses were detected in source scan.

file.write('License: %s
' % self.get_license())

Found in path(s):
* /opt/cola/permits/1144634244_1616075160.32/0/python3-stdlib-extensions-3-8.5-orig-tar-xz/python3-stdlib-
  extensions-3.8.5/3.7/Lib/distutils/dist.py
* /opt/cola/permits/1144634244_1616075160.32/0/python3-stdlib-extensions-3-8.5-orig-tar-xz/python3-stdlib-
  extensions-3.8.5/3.9/Lib/distutils/dist.py
* /opt/cola/permits/1144634244_1616075160.32/0/python3-stdlib-extensions-3-8.5-orig-tar-xz/python3-stdlib-
  extensions-3.8.5/3.6/Lib/distutils/dist.py
* /opt/cola/permits/1144634244_1616075160.32/0/python3-stdlib-extensions-3-8.5-orig-tar-xz/python3-stdlib-
  extensions-3.8.5/3.8/Lib/distutils/dist.py

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* /opt/cola/permits/1144634244_1616075160.32/0/python3-stdlib-extensions-3-8.5-orig-tar-xz/python3-stdlib-
  extensions-3.8.5/3.7/Modules/_tkinter.c
* /opt/cola/permits/1144634244_1616075160.32/0/python3-stdlib-extensions-3-8.5-orig-tar-xz/python3-stdlib-
  extensions-3.8.5/3.9/Modules/_tkinter.c
* /opt/cola/permits/1144634244_1616075160.32/0/python3-stdlib-extensions-3-8.5-orig-tar-xz/python3-stdlib-
  extensions-3.8.5/3.6/Modules/_tkinter.c
* /opt/cola/permits/1144634244_1616075160.32/0/python3-stdlib-extensions-3-8.5-orig-tar-xz/python3-stdlib-
  extensions-3.8.5/3.8/Modules/_tkinter.c

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  extensions-3.8.5/3.7/Lib/lib2to3/pgen2/tokenize.py
* /opt/cola/permits/1144634244_1616075160.32/0/python3-stdlib-extensions-3-8.5-orig-tar-xz/python3-stdlib-
  extensions-3.8.5/3.9/Lib/lib2to3/pgen2/tokenize.py
* /opt/cola/permits/1144634244_1616075160.32/0/python3-stdlib-extensions-3-8.5-orig-tar-xz/python3-stdlib-
  extensions-3.8.5/3.6/Lib/lib2to3/pgen2/tokenize.py
* /opt/cola/permits/1144634244_1616075160.32/0/python3-stdlib-extensions-3-8.5-orig-tar-xz/python3-stdlib-
  extensions-3.8.5/3.8/Lib/lib2to3/pgen2/tokenize.py
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 extensions-3.8.5/3.8/lib/lib2to3/pgen2/driver.py
* /opt/cola/permits/1144634244_1616075160.32/0/python3-stdlib-extensions-3-8-5-orig-tar-xz/python3-stdlib-
 extensions-3.8.5/3.7/lib/lib2to3/pgen2/driver.py
* /opt/cola/permits/1144634244_1616075160.32/0/python3-stdlib-extensions-3-8-5-orig-tar-xz/python3-stdlib-
 extensions-3.8.5/3.9/lib/lib2to3/pgen2/driver.py
* /opt/cola/permits/1144634244_1616075160.32/0/python3-stdlib-extensions-3-8-5-orig-tar-xz/python3-stdlib-
 extensions-3.8.5/3.6/lib/lib2to3/pgen2/driver.py

1.757 uuid v1.0.0

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in order of appearance:

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1.760 gtk 2.24.33-r0

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

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1.773 libsoup 2.70.0

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

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

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

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

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

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

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

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

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

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

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1.778 python-decorator 4.2.1 2.el8

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1.779 mime-support 3.64ubuntu1

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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.

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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
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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.

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

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

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

## libcurl

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

## OpenSSL

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## GnuTLS

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## c-ares

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

## zlib

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

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

## libssh2

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

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1.786 open-vm-tools 11.1.5

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If distribution of object code is made by offering access to copy
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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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a) Accompany the work with the complete corresponding
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with the Library, with the complete machine-readable "work that
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base64.c -- routines to encode/decode base64 data
$OpenLDAP: pkg/Idap/libraries/liblutil/base64.c,v 1.15 2006/01/03 22:12:11 kurt Exp $ /
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A. HISTORY OF THE SOFTWARE

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

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

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

Zope Corporation was a sponsoring member of the PSF.

All Python releases are Open Source (see http://www.opensource.org for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

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2.2 and above      2.1.1      2001-now      PSF      yes

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(2) According to Richard Stallman, 1.6.1 is not GPL-compatible, because its license has a choice of law clause. According to CNRI, however, Stallman's lawyer has told CNRI's lawyer that 1.6.1 is "not incompatible" with the GPL.

Thanks to the many outside volunteers who have worked under Guido's direction to make these releases possible.

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1.793 selinux-policy 3.14.3 54.el8_3.2

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 */
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// from https://spdx.org/licenses/
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"Zimbra-1.4",
"Zlib",

"zlib-acknowledgement",
"ZPL-1.1",
"ZPL-2.0",

"ZPL-2.1",

// FIXME: non SPDX licenses that the snapstore uses
"Proprietary",
}

// from
https://www.google.com/url?q=https://docs.google.com/a/s.sfusd.edu/document/d/1wE_zvLU4c291AC9wIImQoE4htKRW4rzM1TYiIvEVOs/edit?pli%3D1%23heading%3Dh.ruv3yl8g6czd&sa=D&ust=1473291615601000&usg=AFQjCNFyLcPLdEaXrX1TOesGWxg9Af57mA

var licenseExceptions = []string{
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"Autoconf-exception-3.0",
"Bison-exception-2.2",
"Classpath-exception-2.0",}
"eCos-exception-2.0",
"Font-exception-2.0",
"GCC-exception-2.0",
"GCC-exception-3.1",
"WxWindows-exception-3.1",
}
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Gocheck - A rich testing framework for Go

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BSON library for Go

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mgo - MongoDB driver for Go

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tomb - support for clean goroutine termination in Go.

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default_prepare
}

build() {
    cd "$builddir"
    ./configure \
    --build=$CBUILD \
    --host=$CHOST \
    --prefix=/usr
    make
}

package() {
    cd "$builddir"
    make DESTDIR="$pkgdir" install
}
sha512sums="8a632a6a4da59e5e02ec2f5a57e36d182b325b46513765425e5f171ff9ae326af1b133725beba28f7e76654309e001ae9bace727b5b4c8589405256a3c020  libart_lgpl-2.3.21.tar.bz2"

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http://www.aleksey.com/pipermail/xmlsec/attachments/20030729/0e25648e/attachment.htm

* Cordys R&D BV

* Cryptocom LTD

1.824 liblocale-gettext-perl 1.07
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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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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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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.

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1.834 xcb-util-wm 0.4.1-r1

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**1.835 libiscsi 1.18.0**

**8.module_el8.3.0+555+a55c8938**

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

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

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In addition, mere aggregation of another work not based on the Library 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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1.840 typing-extensions 3.7.4.3
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A. HISTORY OF THE SOFTWARE

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

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

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

All Python releases are Open Source (see http://www.opensource.org for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

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1.841 python-certifi 2019.11.28

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This is a bundle of X.509 certificates of public Certificate Authorities (CA). These were automatically extracted from Mozilla's root certificates file (certdata.txt). This file can be found in the mozilla source tree:
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1.842 gdisk 1.0.5

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1.847 xf86-input-libinput 0.30.0-r0

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This Agreement shall enter into force upon due acceptance by both Parties and remain in force for as long as there is any Development License(s) purchased under this Agreement in force ("Term"), unless and until terminated pursuant to the terms of this Section 12.

12.2. Termination and suspension of rights
Either Party shall have the right to terminate this Agreement upon thirty (30) days prior written notice if the other Party commits a material breach of any obligation of this Agreement and fails to remedy such breach within such notice period.

Instead of termination, The Qt Company shall have the right to suspend or withhold grants of all rights to the Licensed Software hereunder, including but not limited to the Development Licenses, Distribution License, and Support, should Licensee fail to make payment in timely
fashion or otherwise violates or is reasonably suspected to violate its obligations or terms of this Agreement, and where such violation or breach is not cured within five (5) business days following The Qt Company’s written notice thereof.

12.3. Mutual Right to Terminate
Either Party shall have the right to terminate this Agreement immediately upon written notice in the event that the other Party becomes insolvent, files for any form of bankruptcy, makes any assignment for the benefit of creditors, has a receiver, administrative receiver or officer appointed over the whole or a substantial part of its assets, ceases to conduct business, or an act equivalent to any of the above occurs under the laws of the jurisdiction of the other Party.

12.4. Parties' Rights and Duties upon Termination
Upon expiry or termination of the Agreement, Licensee shall cease and shall cause all Designated Users (including those of its Affiliates' and Contractors') to cease using the Licensed Software and distribution of the Redistributables under this Agreement.

Notwithstanding the above, in the event the Agreement expires or is terminated:
(i) as a result of The Qt Company choosing not to renew the Development License(s) as set forth in Section 3.1, then all valid licenses possessed by the Licensee at such date shall be extended to be valid in perpetuity under the terms of this Agreement and Licensee is entitled to purchase additional licenses as set forth in Section 10.2; or
(ii) for reason other than by The Qt Company pursuant to item (i) above or pursuant to Section 12.2, then the Licensee is entitled, for a period of six (6) months after the effective date of termination, to continue distribution of Devices under the Distribution Licenses paid but unused at such effective date of termination.

Upon any such termination the Licensee shall destroy or return to The Qt Company all copies of the Licensed Software and all related materials and will certify the same to The Qt Company upon its request, provided however that Licensee may retain and exploit such copies of the Licensed Software as it may reasonably require in providing continued support to Customers.

Expiry or termination of this Agreement for any reason whatsoever shall not relieve Licensee of its obligation to pay any License Fees accrued or payable to The Qt Company prior to the effective date of termination, and Licensee shall immediately pay to The Qt Company all such fees upon the effective date of termination. Termination of this Agreement shall not affect any rights of Customers to continue use of Applications and Devices (and therein incorporated Redistributables).

12.5. Extension in case of bankruptcy
In the event The Qt Company is declared bankrupt under a final, non-cancellable decision by relevant court of law, and this Agreement is not, at the date of expiry of the Development License(s) pursuant to Section 3.1, assigned to party, who has assumed The Qt Company's position as a legitimate licensor of Licensed Software under this Agreement, then all valid licenses possessed by the Licensee at such date of expiry, and which the Licensee has not notified for expiry, shall be extended to be valid in perpetuity under the terms of this Agreement.

13. GOVERNING LAW AND LEGAL VENUE

In the event this Agreement is in the name of The Qt Company Inc., a Delaware Corporation, then:

(i) this Agreement shall be construed and interpreted in accordance with the laws of the State of California, USA, excluding its choice of law provisions;
(ii) the United Nations Convention on Contracts for the International Sale of Goods will not apply to this Agreement; and
(iii) any dispute, claim or controversy arising out of or relating to this Agreement or the breach, termination, enforcement, interpretation or validity thereof, including the determination of the scope or applicability of this Agreement to arbitrate, shall be determined by arbitration in San Francisco, USA, before one arbitrator. The arbitration shall be administered by JAMS pursuant to JAMS' Streamlined Arbitration Rules and Procedures. Judgment on the Award may be entered in any court having jurisdiction. This Section shall not preclude parties from seeking provisional remedies in aid of arbitration from a court of appropriate jurisdiction.

In the event this Agreement is in the name of The Qt Company Ltd., a Finnish Company, then:

(i) this Agreement shall be construed and interpreted in accordance with the laws of Finland, excluding its choice of law provisions;
(ii) the United Nations Convention on Contracts for the International Sale of Goods will not apply to this Agreement; and
(iii) any disputes, controversy or claim arising out of or relating to this Agreement, or the breach, termination or validity thereof shall be finally settled by arbitration in accordance with the Arbitration Rules of Finland Chamber of Commerce. The arbitration tribunal shall consist of one (1), or if either Party so requires, of three (3), arbitrators. The award shall be final and binding and enforceable in any court of competent jurisdiction. The arbitration shall be held in Helsinki, Finland and the process shall be conducted in the English language. This Section shall not preclude parties from seeking provisional remedies in aid of arbitration from a court of appropriate jurisdiction.

14. GENERAL PROVISIONS
14.1. No Assignment
Except in the case of a merger or sale of substantially all of its corporate assets, Licensee shall not be entitled to assign or transfer all or any of its rights, benefits and obligations under this Agreement without the prior written consent of The Qt Company, which shall not be unreasonably withheld or delayed. The Qt Company shall be entitled to freely assign or transfer any of its rights, benefits or obligations under this Agreement.

14.2. No Third-Party Representations
Licensee shall make no representations or warranties concerning the Licensed Software on behalf of The Qt Company. Any representation or warranty Licensee makes or purports to make on The Qt Company's behalf shall be void as to The Qt Company.

14.3. Surviving Sections
Any terms and conditions that by their nature or otherwise reasonably should survive termination of this Agreement shall so be deemed to survive. Such sections include especially the following: 1, 2, 6, 7, 9, 11, 12, 13 and 14.

14.4. Entire Agreement
This Agreement, the exhibits hereto, the License Certificate and any applicable Purchase Order accepted by The Qt Company constitute the complete agreement between the Parties and supersedes all prior or contemporaneous discussions, representations, and proposals, written or oral, with respect to the subject matters discussed herein.

In the event of any conflict or inconsistency between this Agreement and any Purchase Order, the terms of this Agreement will prevail over the terms of the Purchase Order with respect to such conflict or inconsistency.

Parties specifically acknowledge and agree that this Agreement prevails over any click-to-accept or similar agreements the Designated Users may need to accept online upon download of the Licensed Software, as may be required by The Qt Company's applicable processes relating to Licensed Software.

14.5. Modifications
No modification of this Agreement shall be effective unless contained in a writing executed by an authorized representative of each Party. No term or condition contained in Licensee's Purchase Order ("Deviating Terms") shall apply unless The Qt Company has expressly agreed such Deviating Terms in writing. Unless and to the extent expressly agreed by The Qt Company, any such Deviating Terms shall be deemed void and with no legal effect. For clarity, delivery of the Licensed Software following the receipt of the Purchase Order including Deviating Terms shall not constitute acceptance of such Deviating Terms."
14.6. Force Majeure
Except for the payment obligations hereunder, neither Party shall be liable to the other for any delay or non-performance of its obligations hereunder in the event and to the extent that such delay or non-performance is due to an event of act of God, terrorist attack or other similar unforeseeable catastrophic event that prevents either Party for fulfilling its obligations under this Agreement and which such Party cannot avoid or circumvent ("Force Majeure Event"). If the Force Majeure Event results in a delay or non-performance of a Party for a period of three (3) months or longer, then either Party shall have the right to terminate this Agreement with immediate effect without any liability (except for the obligations of payment arising prior to the event of Force Majeure) towards the other Party.

14.7. Notices
Any notice given by one Party to the other shall be deemed properly given and deemed received if specifically acknowledged by the receiving Party in writing or when successfully delivered to the recipient by hand, fax, or special courier during normal business hours on a business day to the addresses specified for each Party on the signature page. Each communication and document made or delivered by one Party to the other Party pursuant to this Agreement shall be in the English language.

14.8. Export Control
Licensee acknowledges that the Redistributables, as incorporated in Applications or Devices, may be subject to export control restrictions under the applicable laws of respective countries. Licensee shall fully comply with all applicable export license restrictions and requirements as well as with all laws and regulations relating to the Redistributables and exercise of licenses hereunder and shall procure all necessary governmental authorizations, including without limitation, all necessary licenses, approvals, permissions or consents, where necessary for the re-exportation of the Redistributables, Applications and/or Devices.

14.9. No Implied License
There are no implied licenses or other implied rights granted under this Agreement, and all rights, save for those expressly granted hereunder, shall remain with The Qt Company and its licensors. In addition, no licenses or immunities are granted to the combination of the Licensed Software with any other software or hardware not delivered by The Qt Company under this Agreement.

14.10. Attorney Fees
The prevailing Party in any action to enforce this Agreement shall be entitled to recover its attorney’s fees and costs in connection with such action.

14.11. Privacy
Licensee acknowledges and agrees that for the purpose of this Agreement, The Qt Company may collect, use, transfer and disclose personal data pertaining to Designated Users as well as any other employees and directors of the Licensee and its Contractors relevant for carrying out the intent of this Agreement. Such personal data may be collected from the Licensee or directly from the relevant individuals. The Parties acknowledge that with regard to such personal data processed hereunder, The Qt Company shall be regarded as the Data Controller under the applicable Data Protection Legislation. The Qt Company shall process any such personal data in accordance with its privacy policies and practices, which will comply with all applicable requirements of the Data Protection Legislation.

14.12. Severability
If any provision of this Agreement shall be adjudged by any court of competent jurisdiction to be unenforceable or invalid, that provision shall be limited or eliminated to the minimum extent necessary so that this Agreement shall otherwise remain in full force and effect and enforceable.

APPENDICES

The Agreement includes Appendix 1, and possibly one or more of the appendices 3-5, depending on the product(s) purchased by the Licensee, what is stated in the quote or invoice, and/or what is stated in the Licensee's License Certificate.

APPENDIX 1

The modules and/or tools that are included in the respective product - Qt for Application Development (QtAD), Qt for Device Creation (QtDC), Qt for MCUs (QtMCU), Qt 3D Studio (Qt3DS) and Qt Design Studio (QtDS) - are marked with 'X' in the below table.

Parts of the product that are permitted for distribution in object-code form only ("Redistributables") are marked with 'R' in the below table.

+-----------------------------------------------------------------------+
| Modules / Tools                  | QtAD | QtDC | QtMCU | Qt3DS | QtDS |
+-----------------------------------------------------------------------+
| Qt Core                          | X, R | X, R |       |       |      |
+-----------------------------------------------------------------------+
| Qt GUI                           | X, R | X, R |       |       |      |
+-----------------------------------------------------------------------+
| Qt Multimedia                    | X, R | X, R |       |       |      |
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| Qt Multimedia Widgets            | X, R | X, R |       |       |      |
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<p>| Qt Network                       | X, R | X, R |       |       |      |</p>
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Open Source Used In Cisco Modeling Labs 2.2  10055
| Qt OPC UA  | X, R | | | | | |
| Qt CoAP  | X, R | | | | | |
| Qt Safe Renderer  | | X, R | X, R | | |
| Qt Application Manager  | | X, R | X, R | | |
| Qt IVI  | X, R | | | | | |
| Reference UI  | | X, R | | | | |
| Qt GENIVI Extras  | | X, R | | | | |
| QML Live  | | X | | | | |
| Qt Creator Deployment  | | | | | |
| Qt Creator Plugin for Qt Application Manager  | | | | | |
| Qt Automotive Suite Deployment Server  | | X | | | |
| Qt Design Studio  | | X | | | | |
| Qt 3D Studio  | | X | | | | |
| GammaRay  | | X | | X | |
| Platform adaptations| | | | | X | |
| for specified Deployment Platforms  | | | | | |
| Qt for Device Creation  | | X | | | | |

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"Licensed Software" shall mean all versions of The Qt Company's computer software products, online or electronic documentation, associated media and printed materials, including the source code, example programs and the documentation, licensed to the Licensee under this Agreement. Licensed Software does not include Third Party Software (as defined in Section 4) or Open Source Qt.

"Modified Software" shall mean bug-fixes, error corrections, patches or modifications made to the Licensed Software by Licensee, including documentation related thereto.

"Online Services" shall mean any services or access to systems made available by The Qt Company to the Licensee over the Internet relating to the Licensed Software or for the purpose of use by the Licensee of the Licensed Software or Support. Use of any such Online Services is discretionary for the Licensee and some of them may be subject to additional fees.

"Open Source Qt" shall mean all versions of The Qt Company's Qt computer software products, online or electronic documentation, associated media and printed materials, including the source code, example programs and the documentation available under the terms of the GNU Lesser General Public License, version 2.1 or later ("LGPL") or the GNU General Public License, version 2.0 or later ("GPL").

"Party" or "Parties" shall mean Licensee and/or The Qt Company.

"Program" shall mean Licensee's business program for which purpose the Licensee
is entitled to use the Licensed Software and grant the Licensee's SDK Contractors a right to use the Licensed Software as part of a SDK.

"Redistributables" shall mean the portions of the Licensed Software set forth in Appendix 1, Section 1 that may be distributed pursuant to the terms of this Agreement in object code form only, including any relevant documentation. Where relevant, any reference to Licensed Software in this Agreement shall include and refer also to Redistributables.

"SDK" or "Software Development Kit" shall mean a combination of software modules including Licensed Software intended to be utilized in connection with the Program.

"Submitted Modified Software" shall have the meaning as set forth in Section 2.3.

"Support" shall mean standard developer support that is provided by The Qt Company to assist Designated Users in using the Licensed Software in accordance with The Qt Company's standard support terms.

"Support Renewal Term" shall mean a time period of twelve (12) months, calculated from the end of the Initial Support Term or previous Support Renewal Term, as applicable.

"Support Term" shall mean the Initial Support Term and any possible Support Renewal Terms(s) during which time the Licensee is eligible to receive for Support for the Licensed Software.

"Taxes" shall have the meaning set forth in Section 10.5.

"Term" shall mean the validity period of this Agreement, as set forth in the License Certificate.

The Qt Company shall mean:

(i) in the event Licensee is an individual residing in the United States or a legal entity incorporated in the United States or having its headquarters in the United States, The Qt Company Inc., a Delaware corporation with its office at 2350 Mission College Blvd., Suite 1020, Santa Clara, CA 95054, USA.; or

(ii) in the event the Licensee is an individual residing outside of the United States or a legal entity incorporated outside of the United States or having its registered office outside of the United States, The Qt Company Ltd., a Finnish company with its registered office at Bertel Jungin aukio D3A, 02600 Espoo, Finland.

"Updates" shall mean a release or version of the Licensed Software containing bug fixes, error corrections and other changes that are generally made available
to users of the Licensed Software that have contracted for Support. Updates are generally depicted as a change to the digits following the decimal in the Licensed Software version number. The Qt Company shall make Updates available to the Licensee under the Support. Updates shall be considered as part of the Licensed Software hereunder.

"Upgrades" shall mean a release or version of the Licensed Software containing enhancements and new features and are generally depicted as a change to the first digit of the Licensed Software version number. In the event Upgrades are provided to the Licensee under this Agreement, they shall be considered as part of the Licensed Software hereunder.

2. OWNERSHIP 2.1

Ownership of The Qt Company

The Licensed Software is protected by copyright laws and international copyright treaties, as well as other intellectual property laws and treaties. The Licensed Software is licensed, not sold.

All The Qt Company's Intellectual Property Rights are and shall remain the exclusive property of The Qt Company or its licensors respectively.

2.2 Ownership of Licensee

All the Licensee's Intellectual Property Rights are and shall remain the exclusive property of the Licensee or its licensors respectively.

All Intellectual Property Rights to the Modified Software, Applications and Devices shall remain with the Licensee and no rights thereto shall be granted by the Licensee to The Qt Company under this Agreement (except as set forth in Section 2.3 below).

2.3 Modified Software

Licensee may create Modified Software that breaks the source or binary compatibility with the Licensed Software. This includes, but is not limited to, changing the application programming interfaces ("API") by adding, changing or deleting any variable, method, or class signature in the Licensed Software and/or any inter-process protocols, services or standards in the Licensed Software libraries. To the extent that Licensee breaks source or binary compatibility with the Licensed Software, Licensee acknowledges that The Qt Company's ability to provide Support may be prevented or limited and Licensee's ability to make use of Updates may be restricted.

To the extent Licensee submits Modified Software to The Qt Company ("Submitted Modified Software"), Licensee hereby grants The Qt Company a sublicensable, assignable, irrevocable, perpetual, worldwide, non-exclusive, royalty-free and
fully paid-up license, under all of Licensee's Intellectual Property Rights, to reproduce, adapt, translate, modify, and prepare derivative works of, publicly display, publicly perform, sublicense, make available and distribute such Submitted Modified Software as The Qt Company sees fit at its free and absolute discretion. For the sake of clarity, the Licensee shall have no obligation to provide Modified Software to The Qt Company.

3. LICENSES GRANTED

3.1 Development with Licensed Software

Subject to the terms of this Agreement, The Qt Company grants to Licensee a personal, worldwide, non-exclusive, non-transferable license, valid for the Term, to use, modify and copy the Licensed Software by Designated Users on the Development Platforms for the sole purposes of designing, developing, demonstrating and testing Application(s) and/or Devices, and to provide thereto related support and other services to end-user Customers.

Licensee may install copies of the Licensed Software on an unlimited number of computers provided that (i) only the Designated Users may use the Licensed Software, and (ii) all Designated Users must have a valid Development License to use Licensed Software.

Licensee may at any time designate another Designated User to replace a then-current Designated User by notifying The Qt Company in writing, provided that any Designated User may be replaced only once during any six-month period.

3.2 Distribution of Redistributables

Subject to the terms of this Agreement, The Qt Company grants to Licensee a personal, worldwide, non-exclusive, non-transferable license, valid for the Term, to (i) distribute, by itself or through its Contractors, Redistributables as installed, incorporated or integrated into Applications for execution on the Deployment Platforms, and (ii) distribute, by itself or through one or more tiers of Contractors, Redistributables as installed, incorporated or integrated, or intended to be installed, incorporated or integrated into Devices for execution on the Deployment Platforms, and (iii) grant sublicenses to Redistributables, as distributed hereunder, for Customers solely for Customer's internal use and to the extent necessary in order for the Customers to use the Applications and/or Devices for their respective intended purposes.

Right to distribute the Redistributables as provided herein is conditional upon the Licensee having purchased and paid the appropriate amount of Development and Distribution Licenses from The Qt Company before distributing any Redistributables to Customers.

For the avoidance of any doubt it is specifically acknowledged and agreed that distribution of Redistributables solely as installed, incorporated or integrated
into Applications for execution on the Deployment Platform(s), as specified in (i) of the first paragraph of Section 3.2 above, i.e. with no connection to Devices or intention to use in connection therewith, shall not require a Distribution License.

3.3 SDK License

The Qt Company grants to Licensee a personal, worldwide, non-exclusive, non-transferable license, valid for the Term, to (i) distribute Licensed Software as a part of the SDK to Licensees SDK Contractors in connection with the Program and (ii) in connection with the Program, by itself or by Licensee's SDK Contractors, combine, incorporate or integrate Licensed Software with, or use Licensed Software for creation of, any software created with or incorporating Open Source Qt, provided, however, that:

(i) the Licensees SDK Contractors are only entitled to use the Licensed Software as part of SDK and for the sole purpose of developing software for Devices that are distributed under the Program; and

(ii) Licensees SDK Contractors shall not be entitled to distribute the SDK or any part thereof to any third parties.

For the avoidance of any doubt, the distribution of such software development tools that do not contain Licensed Software shall not be covered by this Agreement.

3.4 Further Requirements

The licenses granted above in this Section 3 by The Qt Company to Licensee are conditional and subject to Licensee's compliance with the following terms:

(i) Licensee shall not remove or alter any copyright, trademark or other proprietary rights notice contained in any portion of the Licensed Software;

(ii) Applications and SDKs must add primary and substantial functionality to the Licensed Software;

(iii) Applications may not pass on functionality which in any way makes it possible for others to create software with the Licensed Software; provided however that Licensee may use the Licensed Software's scripting and QML ("Qt Quick") functionality solely in order to enable scripting, themes and styles that augment the functionality and appearance of the Application(s) without adding primary and substantial functionality to the Application(s);

(iv) Applications and SDKs must not compete with the Licensed Software;

(v) Licensee shall not use The Qt Company's or any of its suppliers' names, logos, or trademarks to market Applications or SDKs, except that Licensee may
use "Built with Qt" logo to indicate that Application(s) was developed using
the Licensed Software;

(vi) Except as expressly provided in Section 3.3, Licensee shall not
distribute, sublicense or disclose source code of Licensed Software to any third
party (provided however that Licensee may appoint employee(s) of Contractors as
Designated Users to use Licensed Software pursuant to this Agreement);

(vii) Licensee shall not grant the Customers a right to (i) make copies of the
Redistributables except when and to the extent required to use the Applications
and/or Devices for their intended purpose, (ii) modify the Redistributables or
create derivative works thereof, (iii) decompile, disassemble or otherwise
reverse engineer Redistributables, or (iv) redistribute any copy or portion of
the Redistributables to any third party, except as part of the onward sale of
the Device on which the Redistributables are installed;

(viii) Except as expressly provided in Section 3.3, Licensee shall not and
shall cause that its Affiliates, Contractors and Licensee's SDK Contractors
shall not a) in any way, combine, incorporate or integrate Licensed Software
with, or use Licensed Software for creation of, any software created with or
incorporating Open Source Qt or b) incorporate or integrate Applications into a
hardware device or product other than a Device, unless Licensee has received an
advance written permission from The Qt Company to do so. Unless specifically
otherwise agreed, any and all distribution by the Licensee during the Term of
a hardware device or product a) which incorporate or integrate any part of
Licensed Software or Open Source Qt; or b) where the main user interface or
substantial functionality is provided by software build with Licensed
Software or Open Source Qt or otherwise depends on the Licensed Software or Open
Open Source Qt, shall be considered as distribution under this Agreement and
dependent on compliance thereof (including but not limited to obligation to
pay applicable License Fees for such distribution);

(ix) Licensee shall cause all of its Affiliates and Contractors entitled to make
use of the licenses granted under this Agreement, to be contractually bound to
comply with the relevant terms of this Agreement and not to use the Licensed
Software beyond the terms hereof and for any purposes other than operating
within the scope of their services for Licensee. Licensee shall be responsible
for any and all actions and omissions of its Affiliates and Contractors relating
to the Licensed Software and use thereof (including but not limited to payment
of all applicable License Fees);

(x) Except when and to the extent explicitly provided in this Section 3,
Licensee shall not transfer, publish, disclose, display or otherwise make
available the Licensed Software;

(xi) Licensee shall not take any action inconsistent with The Qt Company's
Intellectual Property Rights; and
(xii) Attempt or enlist a third party to conduct or attempt to conduct any of the above.

Above terms shall not be applicable if and to the extent they conflict with any mandatory provisions of any applicable laws.

Any use of Licensed Software beyond the provisions of this Agreement is strictly prohibited and requires an additional license from The Qt Company.

4. THIRD PARTY SOFTWARE

The Licensed Software may provide links to third party libraries or code (collectively "Third Party Software") to implement various functions. Third Party Software does not comprise part of the Licensed Software. In some cases, access to Third Party Software may be included in the Licensed Software. Such Third Party Software will be listed in the ".../src/3rdparty" source tree delivered with the Licensed Software or documented in the Licensed Software, as such may be amended from time to time. Licensee acknowledges that use or distribution of Third Party Software is in all respects subject to applicable license terms of applicable third party right holders.

5. PRE-RELEASE CODE

The Licensed Software may contain pre-release code and functionality marked or otherwise stated as "Technology Preview", "Alpha", "Beta" or similar designation. Such pre-release code may be present in order to provide experimental support for new platforms or preliminary versions of one or more new functionalities. The pre-release code may not be at the level of performance and compatibility of a final, generally available, product offering of the Licensed Software. The pre-release parts of the Licensed Software may not operate correctly, may contain errors and may be substantially modified by The Qt Company prior to the first commercial product release, if any. The Qt Company is under no obligation to make pre-release code commercially available, or provide any Support or Updates relating thereto. The Qt Company assumes no liability whatsoever regarding any pre-release code, but any use thereof is exclusively at Licensee's own risk and expense.

6. LIMITED WARRANTY AND WARRANTY DISCLAIMER

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Except as set forth above, the Licensed Software is licensed to Licensee "as is".

TO THE MAXIMUM EXTENT PERMITTED BY APPLICABLE LAW, THE QT COMPANY ON BEHALF OF ITSELF AND ITS LICENSORS, SUPPLIERS AND AFFILIATES, DISCLAIMS ALL WARRANTIES, EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, TITLE AND NON-INFRINGEMENT.
WITH REGARD TO THE LICENSED SOFTWARE. THE QT COMPANY DOES NOT WARRANT THAT THE LICENSED SOFTWARE WILL SATISFY LICENSEE'S REQUIREMENTS OR THAT IT WILL OPERATE WITHOUT DEFECT OR ERROR OR THAT THE OPERATION THEREOF WILL BE UNINTERRUPTED. ALL USE OF AND RELIANCE ON THE LICENSED SOFTWARE IS AT THE SOLE RISK OF AND RESPONSIBILITY OF LICENSEE.

Licensee's exclusive remedy and The Qt Company's entire liability for Licensed Software shall be limited, at The Qt Company's option, to correction of the error, replacement of the Licensed Software or return of the applicable fees paid for the defective Licensed Software for the time period during which the License is not able to utilize the Licensed Software under the terms of this Agreement.

7. INDEMNIFICATION AND LIMITATION OF LIABILITY

7.1 Limitation of Liability

EXCEPT FOR (I) CASES OF GROSS NEGLIGENCE OR INTENTIONAL MISCONDUCT, (II) LICENSEE'S DUTY TO PAY ALL APPLICABLE LICENSE FEES AND COMPENSATIONS, AND (III) BREACH OF CONFIDENTIALITY, AND TO THE EXTENT PERMITTED BY APPLICABLE LAW, IN NO EVENT SHALL EITHER PARTY BE LIABLE TO THE OTHER PARTY FOR ANY LOSS OF PROFIT, LOSS OF DATA, LOSS OF BUSINESS OR GOODWILL OR ANY OTHER INDIRECT, SPECIAL, CONSEQUENTIAL, INCIDENTAL OR PUNITIVE COST, DAMAGES OR EXPENSE OF ANY KIND, HOWSOEVER ARISING UNDER OR IN CONNECTION WITH THIS AGREEMENT.

EXCEPT FOR (I) CASES OF GROSS NEGLIGENCE OR INTENTIONAL MISCONDUCT, (II) LICENSEE'S DUTY TO PAY ALL APPLICABLE LICENSE FEES AND COMPENSATIONS, AND (III) BREACH OF CONFIDENTIALITY, AND TO THE EXTENT PERMITTED BY APPLICABLE LAW, IN NO EVENT SHALL EITHER PARTY'S TOTAL AGGREGATE LIABILITY UNDER THIS AGREEMENT EXCEED THE AGGREGATE LICENSE FEES RECEIVED BY THE QT COMPANY FROM LICENSEE DURING THE PERIOD OF TWELVE (12) MONTHS IMMEDIATELY PRECEDING THE EVENT RESULTING IN SUCH LIABILITY.

THE PROVISIONS OF THIS SECTION 7 ALLOCATE THE RISKS UNDER THIS AGREEMENT BETWEEN THE QT COMPANY AND LICENSEE AND THE PARTIES HAVE RELIED UPON THE LIMITATIONS SET FORTH HEREIN IN DETERMINING WHETHER TO ENTER INTO THIS AGREEMENT.

7.2 Licensees Indemnification

Licensee shall indemnify and hold harmless The Qt Company from and against any claim, injury, judgment, settlement, loss or expense, including attorneys' fees related to: (a) Licensee's misrepresentation in connection with The Qt Company or the Licensed Software or breach of this Agreement, (b) the Application or Device (except where such cause of liability is solely attributable to the Licensed Software).

8. SUPPORT, UPDATES AND ONLINE SERVICES
Licensee will be eligible to receive Support and Updates and to use the Online Services during the Support Term. Unless otherwise decided by The Company at its free and absolute discretion, Upgrades will not be included in the Support but may be available subject to additional fees.

Licenses granted under this Agreement shall include a prepaid Initial Support Term.

Initial Support Term shall be automatically extended to one or more Support Renewal Term(s), unless and until either Party notifies the other Party in writing that it does not wish to continue the Support, such notification to be provided to the other Party no less than ninety (90) days before expiry of the Initial Support Term or respective Support Renewal Term. During any such Support Renewal Term Support shall be available subject to prices and terms agreed between the Parties or, if no advance agreement exists, subject to The Qt Company's standard pricing applicable at the commencement date of any such Support Renewal Term. From time to time The Qt Company may change Support provided within each Support plan; provided that during the respective Initial Support Term or Support Renewal Term (as the case may be), the level of Support provided by The Qt Company may not be reduced without the consent of the Licensee.

Unless otherwise agreed, The Qt Company shall not be responsible for providing any service or support to the Customers.

9. CONFIDENTIALITY

Each Party acknowledges that during the Term of this Agreement each Party may receive information about the other Party's business, business methods, business plans, customers, business relations, technology, and other information, including the terms of this Agreement, that is confidential and of great value to the other Party, and the value of which would be significantly reduced if disclosed to third parties ("Confidential Information"). Accordingly, when a Party (the "Receiving Party") receives Confidential Information from the other Party (the "Disclosing Party"), the Receiving Party shall only disclose such information to employees and Contractors on a need to know basis, and shall cause its employees and employees of its Affiliates to: (i) maintain any and all Confidential Information in confidence; (ii) not disclose the Confidential Information to a third party without the Disclosing Party's prior written approval; and (iii) not, directly or indirectly, use the Confidential Information for any purpose other than for exercising its rights and fulfilling its responsibilities pursuant to this Agreement. Each Party shall take reasonable measures to protect the Confidential Information of the other Party, which measures shall not be less than the measures taken by such Party to protect its own confidential and proprietary information.

Obligation of confidentiality shall not apply to information that (i) is or becomes generally known to the public through no act or omission of the
Receiving Party; (ii) was in the Receiving Party's lawful possession prior to
the disclosure hereunder and was not subject to limitations on disclosure or
use; (iii) is developed independently by employees or Contractors of the
Receiving Party or other persons working for the Receiving Party who have not
had access to the Confidential Information of the Disclosing Party, as proven by
the written records of the Receiving Party; (iv) is lawfully disclosed to the
Receiving Party without restrictions, by a third party not under an obligation
of confidentiality; or (v) the Receiving Party is legally compelled to disclose,
in which case the Receiving Party shall notify the Disclosing Party of such
compelled disclosure and assert the privileged and confidential nature of the
information and cooperate fully with the Disclosing Party to limit the scope of
disclosure and the dissemination of disclosed Confidential Information to the
minimum extent necessary.

The obligations under this Section 9 shall continue to remain in force for a
period of five (5) years after the last disclosure, and, with respect to trade
secrets, for so long as such trade secrets are protected under applicable trade
secret laws.

10. FEES, DELIVERY AND PAYMENT

10.1 License Fees

License Fees are described in The Qt Company's standard price list, quote or
Purchase Order confirmation or in an appendix hereto, as the case may be. The
License Fees shall not be refunded or claimed as a credit, even on the ground
that Distribution Licenses are not used, i.e. Redistributables are not actually
distributed corresponding to the Distribution Licenses purchased, or for any
other reason.

10.2 Ordering Licenses

Licensee may purchase Development Licenses and Distribution Licenses pursuant to
agreed pricing terms or, if no specific pricing terms have been agreed upon, at
The Qt Company's standard pricing terms applicable at the time of purchase.

Licensee shall submit all purchase orders for Development Licenses and
Distribution Licenses to The Qt Company by email or any other method acceptable
to The Qt Company (each such order is referred to herein as a "Purchase Order")
for confirmation, whereupon the Purchase Order shall become binding between the
Parties.

10.3 Distribution

License Packs Unless otherwise agreed, the Distribution Licenses are bought by
way of Distribution License Packs.

Upon due payment of the ordered Distribution License Pack(s), the Licensee will
have an account of Distribution Licenses available for installing, bundling or
integrating (all jointly "installing") the Redistributables with the Devices or
for otherwise distributing the Redistributables in accordance with this
Agreement.

Each time Licensee "installs" or distributes a copy of Redistributables, then
one Distribution License is used, and Licensee's account of available
Distribution Licenses is decreased accordingly.

Licensee may "install" copies of the Redistributables so long as Licensee has
Distribution Licenses remaining on its account.

Redistributables will be deemed to have been "installed" into a Device when one
of the following circumstances shall have occurred: a) the Redistributables
have been loaded onto the Device and used outside of the Licensee's premises or
b) the Device has been fully tested and placed into Licensee's inventory (or
sold) for the first time (i.e., Licensee will not be required to use (or pay
for) more than one Distribution License for each individual Device, e.g. in a
situation where a Device is returned to Licensee's inventory after delivery to
distributor or sale to a Customer). In addition, if Licensee includes a
back-up copy of the Redistributables on a CD-ROM or other storage medium
along with the product, that backup copy of the Redistributables will not
be deemed to have been "installed" and will not require an additional
Distribution License.

10.4 Payment Terms
License Fees and any other charges under this Agreement shall be paid by
Licensee no later than thirty (30) days from the date of the applicable invoice
from The Qt Company.

The Qt Company will submit an invoice to Licensee after the date of this
Agreement and/or after The Qt Company receives a Purchase Order from Licensee.
A late payment charge of the lower of (a) one percent per month; or (b) the
interest rate stipulated by applicable law, shall be charged on any unpaid
balances that remain past due.

The Qt Company shall have the right to suspend, terminate or withhold grants of
all rights to the Licensed Software hereunder, including but not limited to the
Developer License, Distribution License, and Support, should Licensee fail to
make payment in a timely fashion.

10.5 Taxes
All License Fees and other charges payable hereunder are gross amounts but
exclusive of any value added tax, use tax, sales tax and other taxes, duties or
tariffs ("Taxes"). Such applicable Taxes shall be paid by Licensee, or, where
applicable, in lieu of payment of such Taxes, Licensee shall provide an
exemption certificate to The Qt Company and any applicable authority.
11 RECORD-KEEPING AND REPORTING OBLIGATIONS; AUDIT RIGHTS

11.1 Licensee's Record-keeping

Licensee shall at all times maintain accurate and up-to-date written records of Licensee's activities related to the use of Licensed Software and distribution of Redistributables. The records shall be adequate to determine Licensee's compliance with the provisions of this Agreement and to demonstrate the number of Designated Users and Redistributables distributed by Licensee. The records shall conform to good accounting practices reasonably acceptable to The Qt Company.

Licensee shall, within thirty (30) days from the end of each calendar quarter, deliver to The Qt Company a report detailing the number of Designated Users and copies of Redistributables distributed by Licensee during that calendar quarter, and also detailing the number of undistributed copies of Redistributables made by Licensee and remaining in its account (i.e., undistributed copies for which Distribution Licenses have been or need to be obtained from The Qt Company). Such report shall contain such other information as The Qt Company shall reasonably require from time to time.

11.2. The Qt Company's Audit Rights

The Qt Company or an independent auditor acting on behalf of The Qt Company's, may, upon at least five (5) business days' prior written notice and at its expense, audit Licensee with respect to the use of the Redistributables, but not more frequently than once during each 6-month period. Such audit may be conducted by mail, electronic means or through an in-person visit to Licensee's place of business. Any such in-person audit shall be conducted during regular business hours at Licensee's facilities and shall not unreasonably interfere with Licensee's business activities. The Qt Company or the independent auditor acting on behalf of The Qt Company shall be entitled to inspect Licensee's Records. All such Licensee's Records and use thereof shall be subject to an obligation of confidentiality under this Agreement.

If an audit reveals that Licensee is using the Licensed Software beyond scope of the licenses Licensee has paid for, Licensee agrees to immediately pay The Qt Company any amounts owed for such unauthorized use.

In addition, in the event the audit reveals a material violation of the terms of this Agreement (underpayment of more than 5% of License Fees shall always be deemed a material violation for purposes of this section), then the Licensee shall pay The Qt Company's reasonable cost of conducting such audit.

12 TERM AND TERMINATION

12.1 Term
This Agreement shall enter into force upon due acceptance by both Parties and remain in force for the Term, unless and until terminated pursuant to the terms of this Section 12.

12.2 Termination by The Qt Company

The Qt Company shall have the right to terminate this Agreement upon thirty (30) days prior written notice if (i) the Licensee is in material breach of any obligation of this Agreement and fails to remedy such breach within such notice period; (ii) or Licensee or any of its Affiliates bring a suit before any court or administrative agency or otherwise assert a claim against The Qt Company’s or any of its Affiliates’ Intellectual Property Rights or validity thereof.

12.3 Mutual Right to Terminate

Either Party shall have the right to terminate this Agreement immediately upon written notice in the event that the other Party becomes insolvent, files for any form of bankruptcy, makes any assignment for the benefit of creditors, has a receiver, administrative receiver or officer appointed over the whole or a substantial part of its assets, ceases to conduct business, or an act equivalent to any of the above occurs under the laws of the jurisdiction of the other Party.

12.4 Parties Rights and Duties upon Termination

Upon expiry or termination of the Agreement for any reason, Licensee shall, within 30 days after such termination, cease and shall cause all Designated Users (including those of its Affiliates' and Contractors') and Licensee's SDK Contractors to cease using the Licensed Software and distribution of the Redistributables under this Agreement. Notwithstanding the above, in the event the Agreement expires or is terminated for reason other than by The Qt Company pursuant to Section 12.2, the Licensee is entitled, for a period of six (6) months after the effective date of termination, to continue distribution of Devices under the Distribution Licenses paid but unused at such effective date of termination.

Upon any such termination the Licensee shall destroy or return to The Qt Company all copies of the Licensed Software and all related materials and will certify the same to The Qt Company upon its request, provided however that Licensee may retain and exploit such copies of the Licensed Software as it may reasonably require in providing continued support to Customers.

Expiry or termination of this Agreement for any reason whatsoever shall not relieve Licensee of its obligation to pay any License Fees accrued or payable to The Qt Company prior to the effective date of termination, and Licensee shall immediately pay to The Qt Company all such fees upon the effective date of termination. Termination of this Agreement shall not affect any rights of Customers to continue use of Applications and Devices (and therein incorporated
13. GOVERNING LAW AND LEGAL VENUE

In the event this Agreement is in the name of The Qt Company Inc., a Delaware Corporation, then:

(i) this Agreement shall be construed and interpreted in accordance with the laws of the State of California, USA, excluding its choice of law provisions;

(ii) the United Nations Convention on Contracts for the International Sale of Goods will not apply to this Agreement; and

(iii) any dispute, claim or controversy arising out of or relating to this Agreement or the breach, termination, enforcement, interpretation or validity thereof, including the determination of the scope or applicability of this Agreement to arbitrate, shall be determined by arbitration in San Francisco, USA, before one arbitrator. The arbitration shall be administered by JAMS pursuant to JAMS' Streamlined Arbitration Rules and Procedures. Judgment on the Award may be entered in any court having jurisdiction. This Section shall not preclude parties from seeking provisional remedies in aid of arbitration from a court of appropriate jurisdiction.

In the event this Agreement is in the name of The Qt Company Ltd., a Finnish Company, then:

(i) this Agreement shall be construed and interpreted in accordance with the laws of Finland, excluding its choice of law provisions;

(ii) the United Nations Convention on Contracts for the International Sale of Goods will not apply to this Agreement; and

(iii) any disputes, controversy or claim arising out of or relating to this Agreement, or the breach, termination or validity thereof shall be finally settled by arbitration in accordance with the Arbitration Rules of Finland Chamber of Commerce. The arbitration tribunal shall consist of one (1), or if either Party so requires, of three (3), arbitrators. The award shall be final and binding and enforceable in any court of competent jurisdiction. The arbitration shall be held in Helsinki, Finland and the process shall be conducted in the English language. This Section shall not preclude parties from seeking provisional remedies in aid of arbitration from a court of appropriate jurisdiction.

14. GENERAL PROVISIONS

14.1 No Assignment Licensee

shall not be entitled to assign or transfer all or any of its rights, benefits
and obligations under this Agreement without the prior written consent of The Qt Company, which shall not be unreasonably withheld or delayed. The Qt Company shall be entitled to freely assign or transfer any of its rights, benefits or obligations under this Agreement.

14.2 No Third Party Representations

Licensee shall make no representations or warranties concerning the Licensed Software on behalf of The Qt Company. Any representation or warranty Licensee makes or purports to make on The Qt Company’s behalf shall be void as to The Qt Company.

14.3 Surviving Sections

Any terms and conditions that by their nature or otherwise reasonably should survive termination of this Agreement shall so be deemed to survive.

14.4 Entire Agreement

This Agreement, the exhibits hereto, the License Certificate and any applicable Purchase Order constitute the complete agreement between the Parties and supersedes all prior or contemporaneous discussions, representations, and proposals, written or oral, with respect to the subject matters discussed herein. In the event of any conflict or inconsistency between this Agreement and any Purchase Order, the terms of this Agreement will prevail over the terms of the Purchase Order with respect to such conflict or inconsistency.

14.5 Modifications

No modification of this Agreement shall be effective unless contained in a writing executed by an authorized representative of each Party. No term or condition contained in Licensee’s Purchase Order shall apply unless expressly accepted by The Qt Company in writing.

14.6 Force Majeure

Except for the payment obligations hereunder, neither Party shall be liable to the other for any delay or non-performance of its obligations hereunder in the event and to the extent that such delay or non-performance is due to an event of act of God, terrorist attack or other similar unforeseeable catastrophic event that prevents either Party for fulfilling its obligations under this Agreement and which such Party cannot avoid or circumvent (“Force Majeure Event”). If the Force Majeure Event results in a delay or non-performance of a Party for a period of three (3) months or longer, then either Party shall have the right to terminate this Agreement with immediate effect without any liability (except for the obligations of payment arising prior to the event of Force Majeure) towards the other Party.
14.7 Notices

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#
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#
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@heading END OF TERMS AND CONDITIONS
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@page
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@end smallexample

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@var{signature of Ty Coon}, 1 April 1989
Ty Coon, President of Vice
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10th April 2012

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1.881 coreutils 8.30
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1.882 talloc 2.3.1 2.el8

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1.891 gnutls 3.6.13

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========

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Found in path(s):
* /opt/cola/permits/1144331370_1615905571.49/0/kjd-idna-v2-10-0-ge5c11db-1-tar-gz/kjd-idna-
import io, sys
from setuptools import setup

def main():

    python_version = sys.version_info[:2]
    if python_version < (2,7):
        raise SystemExit("Sorry, Python 2.7 or newer required")

    package_data = {}
    exec(open('idna/package_data.py').read(), package_data)

    arguments = {
        'name': 'idna',
        'packages': ['idna'],
        'version': package_data['__version__'],
        'description': 'Internationalized Domain Names in Applications (IDNA)',
        'long_description': io.open("README.rst", encoding="UTF-8").read(),
        'author': 'Kim Davies',
        'author_email': 'kim@cynosure.com.au',
        'license': 'BSD-like',
        'url': 'https://github.com/kjd/idna',
        'classifiers': [
            'Development Status :: 5 - Production/Stable',
            'Intended Audience :: Developers',
            'Intended Audience :: System Administrators',
            'License :: OSI Approved :: BSD License',
            'Operating System :: OS Independent',
            'Programming Language :: Python',
            'Programming Language :: Python :: 2',
            'Programming Language :: Python :: 2.7',
            'Programming Language :: Python :: 3',
            'Programming Language :: Python :: 3.4',
            'Programming Language :: Python :: 3.5',
            'Programming Language :: Python :: 3.6',
            'Programming Language :: Python :: 3.7',
        ]
    }

    setup(**arguments)
'Programming Language :: Python :: 3.8',
'Programming Language :: Python :: Implementation :: CPython',
'Programming Language :: Python :: Implementation :: PyPy',
'Topic :: Internet :: Name Service (DNS)',
'Topic :: Software Development :: Libraries :: Python Modules',
'Topic :: Utilities',
],
'python_requires': '>=2.7, !=3.0.*, !=3.1.*, !=3.2.*, !=3.3.*',
}
}

setup(**arguments)

if __name__ == '__main__':
    main()

Found in path(s):
* /opt/cola/permits/1144331370_1615905571.49/0/kjd-idna-v2-10-0-ge5c11db-l-tar-gz/kjd-idna-b8defb9/setup.py

1.902 python-editor 1.0.4

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1.906 libtheora 1.1.1 21.el8

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1.907 pyrsistent 0.17.3

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1. Create a change description in the format specified below to use in the source control commit log.

2. Your commit message must include your "Signed-off-by" signature, and "Contributed-under" message.

3. Your "Contributed-under" message explicitly states that the contribution is made under the terms of the specified contribution agreement. Your "Contributed-under" message must include the name of contribution agreement and version.

   For example: Contributed-under: TianoCore Contribution Agreement 1.1

   The "TianoCore Contribution Agreement" is included below in this document.

4. Submit your code to the TianoCore project using the process that the project documents on its web page. If the process is not documented, then submit the code on development email list for the project.

5. It is preferred that contributions are submitted using the same copyright license as the base project. When that is not possible, then contributions using the following licenses can be accepted:

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Your change description should use the standard format for a
commit message, and must include your "Signed-off-by" signature
and the "Contributed-under" message.

== Sample Change Description / Commit Message =

=== Start of sample patch email message ===

From: Contributor Name <contributor@example.com>
Subject: [Repository/Branch PATCH] Module: Brief-single-line-summary

Full-commit-message

Contributed-under: TianoCore Contribution Agreement 1.1
Signed-off-by: Contributor Name <contributor@example.com>
---

An extra message for the patch email which will not be considered part
of the commit message can be added here.

Patch content inline or attached

=== End of sample patch email message ===

=== Notes for sample patch email ===

* The first line of commit message is taken from the email's subject
  line following [Repository/Branch PATCH]. The remaining portion of the
  commit message is the email's content until the '---' line.
* git format-patch is one way to create this format

=== Definitions for sample patch email ===

* "Repository" is the identifier of the repository the patch applies.
  This identifier should only be provided for repositories other than
  'edk2'. For example 'edk2-BuildSpecification' or 'staging'.
* "Branch" is the identifier of the branch the patch applies. This
  identifier should only be provided for branches other than 'edk2/master'.
  For example 'edk2/UDK2015', 'edk2-BuildSpecification/release/1.27', or
  'staging/edk2-test'.
* "Module" is a short identifier for the affected code or documentation. For
  example 'MdePkg', 'MdeModulePkg/UsbBusDxe', 'Introduction', or
  'EDK II INF File Format'.

---

Open Source Used In Cisco Modeling Labs 2.2 10732
* "Brief-single-line-summary" is a short summary of the change.
* The entire first line should be less than ~70 characters.
* "Full-commit-message" a verbose multiple line comment describing the change. Each line should be less than ~70 characters.
* "Contributed-under" explicitly states that the contribution is made under the terms of the contribution agreement. This agreement is included below in this document.
* "Signed-off-by" is the contributor’s signature identifying them by their real/legal name and their email address.

========================================
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Contributions.txt: TianoCore Contribution Agreement 1.0

To make a contribution to a TianoCore project, follow these steps.
1. Create a change description in the format specified below to
   use in the source control commit log.
2. Your commit message must include your "Signed-off-by" signature,
   and "Contributed-under" message.
3. Your "Contributed-under" message explicitly states that the
   contribution is made under the terms of the specified
   contribution agreement. Your "Contributed-under" message
   must include the name of contribution agreement and version.
   For example: Contributed-under: TianoCore Contribution Agreement 1.0
   The "TianoCore Contribution Agreement" is included below in
   this document.
4. Submit your code to the TianoCore project using the process
   that the project documents on its web page. If the process is
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   Contributions using other licenses might be accepted, but further
   review will be required.

= Change Description / Commit Message / Patch Email =

=====================================================
Your change description should use the standard format for a commit message, and must include your "Signed-off-by" signature and the "Contributed-under" message.

== Sample Change Description / Commit Message ==

=== Start of sample patch email message ===

From: Contributor Name <contributor@example.com>
Subject: [PATCH] CodeModule: Brief-single-line-summary

Full-commit-message

Contributed-under: TianoCore Contribution Agreement 1.0
Signed-off-by: Contributor Name <contributor@example.com>
---

An extra message for the patch email which will not be considered part of the commit message can be added here.

Patch content inline or attached

=== End of sample patch email message ===

=== Notes for sample patch email ===

* The first line of commit message is taken from the email's subject line following [PATCH]. The remaining portion of the commit message is the email's content until the '---' line.
* git format-patch is one way to create this format

=== Definitions for sample patch email ===

* "CodeModule" is a short identifier for the affected code. For example MdePkg, or MdeModulePkg UusbusDxe.
* "Brief-single-line-summary" is a short summary of the change.
* The entire first line should be less than ~70 characters.
* "Full-commit-message" a verbose multiple line comment describing the change. Each line should be less than ~70 characters.
* "Contributed-under" explicitly states that the contribution is made under the terms of the contribution agreement. This agreement is included below in this document.
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1.916 lzo 2.08 14.el8

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/*
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common events code for signal events

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1.930 kmod 27

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/* nicstar.c v0.22 Jawaid Bazyar (bazyar@hypermall.com)
 * nicstar.c, M. Welsh (matt.welsh@cl.cam.ac.uk)
 * 
 * Hacked October, 1997 by Jawaid Bazyar, Interlink Advertising Services Inc.
 * http://www.hypermall.com/
 * 10/1/97 - commented out CFG_PHYIE bit - we don't care when the PHY interrupts us (except possibly for removal/insertion of the cable?)
 * 10/4/97 - began heavy inline documentation of the code. Corrected typos and spelling mistakes.
 * 10/5/97 - added code to handle PHY interrupts, disable PHY on loss of link, and correctly re-enable PHY when link is re-established. (put back CFG_PHYIE) */
* Modified to work with the IDT7721 nicstar -- AAL5 (tested) only.
* 
* R. D. Rechenmacher <ron@fnal.gov>, Aug. 6, 1997
* 
* Linux driver for the IDT77201 NICStAR PCI ATM controller.
* PHY component is expected to be 155 Mbps S/UNI-Lite or IDT 77155;
* see init_nicstar() for PHY initialization to change this. This driver
* expects the Linux ATM stack to support scatter-gather lists
* (skb->atm.iovcnt != 0) for Rx skb's passed to vcc->push.
* 
* Implementing minimal-copy of received data:
* IDT always receives data into a small buffer, then large buffers
* as needed. This means that data must always be copied to create
* the linear buffer needed by most non-ATM protocol stacks (e.g. IP)
* Fix is simple: make large buffers large enough to hold entire
* SDU, and leave <small_buffer_data> bytes empty at the start. Then
* copy small buffer contents to head of large buffer.
* Trick is to avoid fragmenting Linux, due to need for a lot of large
* buffers. This is done by 2 things:
* 1) skb->destructor / skb->atm.recycle_buffer
*    combined, allow nicstar_free_rx_skb to be called to
*    recycle large data buffers
* 2) skb_clone of received buffers
* See nicstar_free_rx_skb and linearize_buffer for implementation
* details.
* 
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* 
* M. Welsh, 6 July 1996
*
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1.933 librsvg 2.50.3-r0

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1.934 argon2 20190702-r1

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<signature of Ty Coon>, 1 April 1989
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## Special Recognition ##

One of the key reasons we got delayed on the CentOS-6 release was lack of suitable build resources, especially when we had to repeatedly build large chunks of code. Norwood S came forward and worked with me to set up a large build machine, then tune the build process and help improve the overall build, test and validate process we were using. This build machine he donated to the project was about 5 times more capable than the entire buildsystem we had. And he did this out of his own pocket, from his own time, and has since upgraded the machine as well. It's now a 128GB, 48 core machine, with 4 SSD's and 4 sata disks: but the key metric is that it can build from source, the entire CentOS-7 distro in under 22 hrs.

Having this capability was key in our ability to build, test and deliver CentOS-7 as rapidly as we have been able to.

We'd like to dedicate the CentOS-7 Release to Mr Norwood S, of Phoenix, AZ, USA for his continued support for the project.

Contributors:
The Red Hat developers, without whom CentOS would look very different

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1.940 libogg 1.3.4-0ubuntu1

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1.941 libxdmcp 1.1.3-r0

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1.950 libusb 1.0.24-r1

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   (For example, a function in a library to compute square roots has...
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1.956 libwebp 1.1.0-r0

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libfreedreno_layout = static_library(
 'freedreno_layout',
 [ 'fd5_layout.c',
   'fd6_layout.c',
   'freedreno_layout.c',
 ],
 include_directories : [inc_freereno, inc_include, inc_src, inc_mapi, inc_mesa, inc_gallium, inc_gallium_aux],
 c_args : [no_override_init_args],

foreach major : ['5', '6']
test(
    'fd' + major + '_layout',
    executable(
        'fd' + major + '_layout',
        [ 'fd_layout_test.c',
          'fd' + major + '_layout_test.c',
          freedreno_xml_header_files
        ],
        link_with: libfreedreno_layout, dependencies : idep_mesautil, include_directories: [
            inc_include,
            inc_src,
            inc_mapi,
            inc_mesa,
            inc_gallium,
            inc_gallium_aux,
            inc_freedreno
        ],
        suite : ['freedreno'],
    )
endforeach
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1.965 pyyaml 5.3.1

1.module_el8.3.0+441+3b561464

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1.966 pyasn1 0.4.2

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ASN.1 library for Python

Abstract Syntax Notation One (ASN.1) is a technology for exchanging structured data in a universally understood, hardware agnostic way. Many industrial, security and telephony applications heavily rely on ASN.1.

The `pyasn1 <https://pypi.python.org/pypi/pyasn1/>`_ library implements ASN.1 support in pure-Python.

What is ASN.1

ASN.1 is a large, arguably over-engineered and extremely old data modelling and serialisation tool. It is probably among the first serialisation protocols in the history of computer science and technology.

ASN.1 started its life over 30 years ago as a serialisation mechanism for the first electronic mail (known as X.400). Later on it was split off the e-mail application and become a stand-alone tech still being actively supported by its designers and widely used in industry and technology.

Since then ASN.1 is sort of haunted by its relations with the OSI model -- the first, unsuccessful, version of the Internet. You can read many interesting `discussions <https://news.ycombinator.com/item?id=8871453>`_ on that topic.

In the following years, generations of software engineers tackled the serialisation problem many times. We can see that in Google's `ProtoBuffers <https://developers.google.com/protocol-buffers>`_
buffers/> or `FlatBuffers <https://google.github.io/flatbuffers/>`, for example.

Interestingly, many new takes on binary protocol design do not depart far from ASN.1 from technical perspective. It's more of a matter of striking a balance between processing overhead, wire format overhead and human readability.

Looking at what ASN.1 has to offer, it has three loosely coupled parts:

* Data types: the standard introduces a collection of basic data types (integers, bits, strings, arrays and records) that can be used for describing arbitrarily complex, nested data structures.

* Serialisation protocols: the above data structures could be converted into a series of octets for storage or transmission over the wire as well as recovered back into their structured form. The system is fully agnostic to hardware architectures differences.

* Schema language: ASN.1 data structures could be described in terms of a schema language for ASN.1 compiler to turn it into platform-specific implementation.

ASN.1 applications

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

Being an old and generally successful standard, ASN.1 is widely adopted for many uses. To give you an example, these technologies use ASN.1 for their data exchange needs:

* Signaling standards for the public switched telephone network (SS7 family)
* Network management standards (SNMP, CMIP)
* Directory standards (X.500 family, LDAP)
* Public Key Infrastructure standards (X.509, etc.)
* PBX control (CSTA)
* IP-based Videoconferencing (H.323 family)
* Biometrics (BIP, CBEFF, ACBio)
* Intelligent transportation (SAE J2735)
* Cellular telephony (GSM, GPRS/EDGE, UMTS, LTE)

ASN.1 gotchas

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

Apparently, ASN.1 is hard to implement properly. Quality open-source ASN.1 tools are rare, but ad-hoc implementations are numerous. Judging from the `statistics <http://cve.mitre.org/cgi-bin/cvekey.cgi?keyword=ASN.1>`_ on discovered security vulnerabilities, many people have implemented ASN.1 parsers and oftentimes fell victim to its edge cases.
On the bright side, ASN.1 has been around for a long time, it is well understood and security reviewed.

Documentation
-------------

.. toctree::
   :maxdepth: 2

/pyasn1/contents

Use case
--------

.. toctree::
   :maxdepth: 2

/example-use-case

Download & Install
------------------

.. toctree::
   :maxdepth: 2

/download

Changes
-------

All changes and release history is maintained in changelog. There you could also download the latest unreleased pyasn1 tarball containing the latest fixes and improvements.

.. toctree::
   :maxdepth: 1

/changelog

License
-------

The PyASN1 software is distributed under 2-clause BSD License.
Getting help

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


Books on ASN.1

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

The pyasn1 implementation is largely based on reading up the following awesome books:

* `ASN.1 - Communication between heterogeneous systems <http://www.oss.com/asn1/dubuisson.html>`_ by Olivier Dubuisson

Here you can get the official standards which is hard to read:


On the other end of the readability spectrum, here is a quick and sweet write up:


If you are working with ASN.1, we'd highly recommend reading a proper book on the subject.

Found in path(s):
* `/opt/cola/permits/1144635429_1616035831.44/0/jlw345-pyasn1-v0-4-2-0-gdf3a2b7-tar-gz/jlw345-pyasn1-df3a2b7/docs/source/contents.rst`

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ASN.1 library for Python
------------------------

This is a free and open source implementation of ASN.1 types and codecs as a Python package. It has been first written to support particular protocol (SNMP) but then generalized to be suitable for a wide range of protocols based on [ASN.1 specification](https://www.itu.int/rec/dologin_pub.asp?lang=e&id=T-REC-X.208-198811-W!!PDF-E&type=items).

Features
--------

* Generic implementation of ASN.1 types (X.208)
* Standards compliant BER/CER/DER codecs
* Dumps/loads ASN.1 structures from Python types
* 100% Python, works with Python 2.4 up to Python 3.6
* MT-safe
* Contributed ASN.1 compiler [Asn1ate](https://github.com/kimgr/asn1ate)

Why using pyasn1
----------------

ASN.1 solves the data serialisation problem. This solution was designed long ago by the wise Ancients. Back then, they did not have the luxury of wasting bits. That is why ASN.1 is designed to serialise data structures of unbounded complexity into something compact and efficient when it comes to processing the data.

That probably explains why many network protocols and file formats still rely on the 30+ years old technology. Including a number of high-profile Internet protocols and file formats.

Quite a number of books cover the topic of ASN.1. [Communication between heterogeneous systems](http://www.oss.com/asn1/dubuisson.html) by Olivier Dubuisson is one of those high quality books freely
available on the Internet.

The pyasn1 package is designed to help Python programmers tackling network protocols and file formats at the comfort of their Python prompt. The tool struggles to capture all aspects of a rather complicated ASN.1 system and to represent it on the Python terms.

How to use pyasn1

With pyasn1 you can build Python objects from ASN.1 data structures. For example, the following ASN.1 data structure:

```bash
Record ::= SEQUENCE {
    id       INTEGER,
    room  [0] INTEGER OPTIONAL,
    house [1] INTEGER DEFAULT 0
}
```

Could be expressed in pyasn1 like this:

```python
class Record(Sequence):
    componentType = NamedTypes(
        NamedType('id', Integer()),
        OptionalNamedType(
            'room', Integer().subtype(
                implicitTag=Tag(tagClassContext, tagFormatSimple, 0)
            ),
        ),
        DefaultedNamedType(
            'house', Integer(0).subtype(
                implicitTag=Tag(tagClassContext, tagFormatSimple, 1)
            ),
        )
    )
```

It is in the spirit of ASN.1 to take abstract data description and turn it into a programming language specific form. Once you have your ASN.1 data structure expressed in Python, you can use it along the lines of similar Python type (e.g. ASN.1 `SET` is similar to Python `dict`, `SET OF` to `list`):

```python
>>> record = Record()
```
Part of the power of ASN.1 comes from its serialisation features. You can serialise your data structure and send it over the network.

```python
>>> from pyasn1.codec.der.encoder import encode
>>> substrate = encode(record)
>>> hexdump(substrate)
00000: 30 07 02 01 7B 80 02 01 41
```  
Conversely, you can turn serialised ASN.1 content, as received from network or read from a file, into a Python object which you can introspect, modify, encode and send back.

```python
>>> from pyasn1.codec.der.decoder import decode
>>> received_record, rest_of_substrate = decode(substrate, asn1Spec=Record())
>>> for field in received_record:
...    print('{} is {}'.format(field, received_record[field]))
id is 123
room is 321
house is 0
>>> record == received_record
True
>>> received_record.update(room=123)
>>> substrate = encode(received_record)
>>> hexdump(substrate)
00000: 30 06 02 01 7B 80 01 7B
```  
The pyasn1 classes struggle to emulate their Python prototypes (e.g. int, list, dict etc.). But ASN.1 types exhibit more complicated behaviour. To make life easier for a Pythonista, they can turn their pyasn1 classes into Python built-ins:

```python
>>> from pyasn1.codec.native.encoder import encode
```
Or vice-versa -- you can initialize an ASN.1 structure from a tree of Python objects:

```python
>>> from pyasn1.codec.native.decoder import decode
>>> record = decode( {'id': 123, 'room': 321, 'house': 0}, asn1Spec=Record() )
>>> str(record)
Record:
id=123
room=321
```

With ASN.1 design, serialisation codecs are decoupled from data objects, so you could turn every single ASN.1 object into many different serialised forms. As of this moment, pyasn1 supports BER, DER, CER and Python built-ins codecs. The extremely compact PER encoding is expected to be introduced in the upcoming pyasn1 release.

More information on pyasn1 APIs can be found in the [documentation](http://snmplabs.com/pyasn1/), compiled ASN.1 modules for different protocols and file formats could be found in the pyasn1-modules [repo](https://github.com/etingof/pyasn1-modules).

How to get pyasn1
-----------------

The pyasn1 package is distributed under terms and conditions of 2-clause BSD [license](http://snmplabs.com/pyasn1/license.html). Source code is freely available as a GitHub [repo](https://github.com/etingof/pyasn1).

You could `pip install pyasn1` or download it from [PyPI](https://pypi.python.org/pypi/pyasn1).

If something does not work as expected, [open an issue](https://github.com/etingof/pyasn1/issues) at GitHub or post your question [on Stack Overflow](http://stackoverflow.com/questions/ask) or try browsing pyasn1 [mailing list archives](https://sourceforge.net/p/pyasn1/mailman/pyasn1-users/).

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1.969 libxkbcommon 0.9.1 1.el8

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1.971 pciutils 3.6.4

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1.983 e2fsprogs 1.45.5

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#
# This is a Makefile stub which handles the creation of BSD shared
# libraries.
#
# In order to use this stub, the following makefile variables must be defined.
#
# BSDLIB_VERSION = 1.0
# BSDLIB_IMAGE = libce
# BSDLIB_MYDIR = et
# BSDLIB_INSTALL_DIR = $(SHLIBDIR)
#
all:: image

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

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

image::$(BSD_LIB)

$(BSD_LIB): $(OBJ)
    $(cd pic; ld -Bshareable -o $(BSD_LIB) $(LDFLAGS_SHLIB) $(OBJ))
    $(MV) pic/$(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-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)

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Index: tdbsa/tdb.c
===================================================================
--- tdbsa.orig/tdb.c
+++ tdbsa/tdb.c
@@ -4,11 +4,11 @@ Rev: 23371
 Last Changed Date: 2007-06-06 20:14:06 -0400 (Wed, 06 Jun 2007)
 */
 /*
- Unix SMB/CIFS implementation.
+ trivial database library - standalone version

- trivial database library - private includes
- 
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Theodore Ts'o
23-June-2007

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This package was added to the e2fsprogs debian source package by Theodore Ts'o <tytso@mit.edu> on Sat Mar 15 15:33:37 EST 2003

It is part of the main e2fsprogs distribution, which can be found at:

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Upstream Author: Theodore Ts'o <tytso@mit.edu>

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This package was put together by Yann Dirson <dirson@debian.org>,
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Gadi Oxman, August 1995

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*/

# Automatically generated by apkbuild-cpan, template 1
# Contributor: Valery Kartel <valery.kartel@gmail.com>
# Maintainer: Valery Kartel <valery.kartel@gmail.com>
pkgname=perl-bsd-resource
_pkgreal=BSD-Resource
pkgver=1.2911
pkgrel=1
pkgdesc="Perl extension implements the BSD process resource limit functions"
url="http://search.cpan.org/dist/BSD-Resource/"
arch="all"
license="GPL PerlArtistic"
cpandepends=""
cpanmakedepends=""
depends="$cpandepends"
makedepends="perl-dev $cpanmakedepends"
subpackages="$pkgname-doc"
source="http://search.cpan.org/CPAN/authors/id/J/JH/JHI/$_pkgreal-$pkgver.tar.gz"

builddir="$srctdir/$pkgreal-$pkgver"

prepare() {
default_prepare

cd "$builddir"
export CFLAGS="perl -MConfig -E 'say $Config{ccflags}""
PERL_MM_USE_DEFAULT=1 perl Makefile.PL INSTALLDIRS=vendor
}

build() {
cd "$builddir"
export CFLAGS="perl -MConfig -E 'say $Config{ccflags}""

make
}

check() {
cd "$builddir"
make test
}

package() {
cd "$builddir"
make DESTDIR="$pkgdir" install
find "$pkgdir" \(-name perllocal.pod -o -name .packlist \) -delete
}

sha512sums="d0032d41c7c0468ed1c6d8f57b885f6cb97a5039d754c8cb60b2067daedaf53bd15fb6561a3d0f828df16
dfa5417f663b8065ba65f4fea16de9262728b3b6b85  BSD-Resource-1.2911.tar.gz"
# Contributor: Carlo Landmeter <clandmeter@alpinelinux.org>
# Maintainer: Kevin Daudt <kdaudt@alpinelinux.org>
pkgname=spdx-licenses
pkgver=3.5
pkgrel=0
pkgdesc="Various data formats for the SPDX License List"
url="https://spdx.org/"
arch="noarch"
options="!check"
license="CC-BY-3.0"
source="license-list-data-$pkgver.tar.gz::https://github.com/spdx/license-list-data/archive/v$pkgver.tar.gz"
builddir="$srcdir/license-list-data-$pkgver"
subpackages="$pkgname-list"

_types="html json rdfa rdfsnt rdfturtle rdfxml template text"

for type in $_types; do
 subpackages="$subpackages $pkgname-$type:_subpkg"
done

build() {
cd "$builddir"
}

package() {
mkdir -p "$pkgdir"
}

_subpkg() {
local type=${subpkgname/$pkgname-/}
pkgdesc="$pkgdesc ($type)"
install_if="$pkgdesc"
}
mkdir -p "$subpkgdir"/usr/share/spdx
cp -r "$builddir"/$type "$subpkgdir"/usr/share/spdx/
}

list() {
pkgdesc="$pkgdesc (licence list)"
mkdir -p "$subpkgdir"/usr/share/spdx
local i; for i in $builddir/text/*.txt; do
local license=${i##*/}
    echo ${license%.*} >> "$subpkgdir"/usr/share/spdx/license.lst
done
}

sha512sums="4b4bcde554ee69e9e0703152a2d09e2a3c49314718d6b7e0847c0dff6a989d5d4684d152e899e8bbbb3ba2767ded027eacf7eb6aecff945ef2c5aa9335f2ec  license-list-data-3.5.tar.gz"

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Charlotte, NC 28269
USA

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pkgname=py-flake8-copyright
__pkgname=flake8-copyright
pkgver=0.2.0
pkgrel=2
pkgdesc="Extension for flake8 which checks for copyrights"
url="https://github.com/savoirfairelinux/flake8-copyright"
arch="noarch"
license="MIT"
depends="flake8"
makedepends="python3-dev"
source="https://files.pythonhosted.org/packages/source/${__pkgname:0:1}/${__pkgname}__pkgname-$pkgver.tar.gz"
builddir="$srcdir"/${__pkgname}__pkgname-$pkgver

build() {
  cd "$builddir"
  python3 setup.py build || return 1
}

package() {
  cd "$builddir"
  python3 setup.py install --prefix=/usr --root="$pkgdir" || return 1
}

md5sums="c6348990c6d74933bf5d5f6a55a14bdf  flake8-copyright-0.2.0.tar.gz"
sha256sums="aeef26eb4d5223c9cd5b101e68175fcef6d2b353bf36da688fdde62fcfe2b73  flake8-copyright-
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Version 3, 19 November 2007

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pkgname=libart-lgpl
pkgver=2.3.21
pkgrel=5
pkgdesc="A library for high-performance 2D graphics"
url="http://www.levien.com/libart/
arch="all"
options=!check" # No test suite.
license="LGPL-2.0+"
depends=
makedepends=
subpackages="$pkgname-dev"
source="https://download.gnome.org/sources/libart_lgpl/2.3/libart_lgpl-$pkgver.tar.bz2

builddir="$srcdir"/libart_lgpl-$pkgver

prepare() {
  cd "$builddir"
  update_config_sub
  default_prepare
}

build() {
  cd "$builddir"
  ./configure \
    --build=$CBUILD \
    --host=$CHOST \
    --prefix=/usr

make

}

package() {
    cd "$builddir"
    make DESTDIR="$pkgdir" install
}

sha512sums="8a632a6a4da59e5e8c02ec2f5a57e36d182b325b46513765425e5f171ff9ae326af1b133725beba28f7e76654599e001ae98bace727b5b4c8589405256a3c020  libart_lgpl-2.3.21.tar.bz2"
    
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1.1014 libunwind 1.2.1

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1.1015 startup-notification 0.12-r4

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1.1026 python-idna 2.8

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---

A library to support the Internationalised Domain Names in Applications (IDNA) protocol as specified in RFC 5890 et.al. This new methodology, known as IDNA 2008, can generate materially different results to the previous standard. The library can act as a drop-in replacement for the "encodings.idna" module.

---

```python
def main():
    python_version = sys.version_info[:2]
    if python_version < (2, 7):
        raise SystemExit("Sorry, Python 2.7 or newer required")

    package_data = {}
    exec(open('idna/package_data.py').read(), package_data)

    arguments = {
        'name': 'idna',
        'packages': ['idna'],
        'version': package_data['__version__'],
        'description': 'Internationalized Domain Names in Applications (IDNA)',
        'long_description': io.open("README.rst", encoding="UTF-8").read(),
        'author': 'Kim Davies',
        'author_email': 'kim@cynosure.com.au',
        'license': 'BSD-like',
        'url': 'https://github.com/kjd/idna',
        'classifiers': [
```
'Development Status :: 5 - Production/Stable',
'Intended Audience :: Developers',
'Intended Audience :: System Administrators',
'License :: OSI Approved :: BSD License',
'Operating System :: OS Independent',
'Programming Language :: Python',
'Programming Language :: Python :: 2',
'Programming Language :: Python :: 2.7',
'Programming Language :: Python :: 3',
'Programming Language :: Python :: 3.4',
'Programming Language :: Python :: 3.5',
'Programming Language :: Python :: 3.6',
'Topic :: Internet :: Name Service (DNS)',
'Topic :: Software Development :: Libraries :: Python Modules',
'Topic :: Utilities',
]
'python_requires': '>=2.7, !=3.0.*, !=3.1.*, !=3.2.*, !=3.3.*',
'test_suite': 'tests',
}

setup(**arguments)

if __name__ == '__main__':
    main()

Found in path(s):
* /opt/cola/permits/1144635275_1616115237.42/0/python-idna-2.8-6.module_el8.3.0+441+3b561464-1.src.rpm-

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* /opt/cola/permits/1144635275_1616115237.42/0/python-idna-2.8-6.module_el8.3.0+441+3b561464-1.src.rpm-
cosi-expand-archive-vRHeNbDH/idna-2.8.tar.gz-cosi-expand-archive-RRR4bQBH/idna-2.8/LICENSE.rst
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Metadata-Version: 1.2
Name: idna
Version: 2.8
Summary: Internationalized Domain Names in Applications (IDNA)
Home-page: https://github.com/kjd/idna
Author: Kim Davies
Author-email: kim@cynosure.com.au
License: BSD-like
Description: Internationalized Domain Names in Applications (IDNA)

===============================================
Support for the Internationalised Domain Names in Applications
(IDNA) protocol as specified in `RFC 5891 <http://tools.ietf.org/html/rfc5891>`_.
This is the latest version of the protocol and is sometimes referred to as
“IDNA 2008”.

This library also provides support for Unicode Technical Standard 46,
`Unicode IDNA Compatibility Processing <http://unicode.org/reports/tr46/>`_.

This acts as a suitable replacement for the “encodings.idna” module that
comes with the Python standard library, but only supports the

Basic functions are simply executed:

.. code-block:: pycon

    # Python 3
>>> import idna
>>> idna.encode('.
''b'xn--eckwd4c7c.xn--zckzah'
>>> print(idna.decode('xn--eckwd4c7c.xn--zckzah'))

# Python 2
>>> import idna
>>> idna.encode(u'.
'>'xn--eckwd4c7c.xn--zckzah'
>>> print(idna.decode('xn--eckwd4c7c.xn--zckzah'))

Packages
--------

The latest tagged release version is published in the PyPI repository:

.. image:: https://badge.fury.io/py/idna.svg
   :target: http://badge.fury.io/py/idna

Installation
------------

To install this library, you can use pip:

.. code-block:: bash

   $ pip install idna

Alternatively, you can install the package using the bundled setup script:

.. code-block:: bash

   $ python setup.py install

This library works with Python 2.7 and Python 3.4 or later.

Usage
-----

For typical usage, the `encode` and `decode` functions will take a domain name argument and perform a conversion to A-labels or U-labels respectively.

.. code-block:: pycon
# Python 3
>>> import idna
>>> idna.encode('.
 b'xn--eckwd4c7c.xn--zckzah'
 >>> print(idna.decode('xn--eckwd4c7c.xn--zckzah'))

.

You may use the codec encoding and decoding methods using the
``idna.codec`` module:

.. code-block:: pycon

    # Python 2
    >>> import idna.codec
    >>> print u'.'.encode('idna')
    xn--80ahd1agd.xn--80akhbyknj4f
    >>> print 'xn--80ahd1agd.xn--80akhbyknj4f'.decode('idna')

Conversions can be applied at a per-label basis using the `ulabel` or `alabel`
functions if necessary:

.. code-block:: pycon

    # Python 2
    >>> idna.alabel(u'')
    'xn--0zwm56d'

Compatibility Mapping (UTS #46)
+++++++++++++++++++++++++++++++

As described in `RFC 5895 <http://tools.ietf.org/html/rfc5895>`_, the IDNA
specification no longer normalizes input from different potential ways a user
may input a domain name. This functionality, known as a “mapping”, is now
considered by the specification to be a local user-interface issue distinct
from IDNA conversion functionality.

This library provides one such mapping, that was developed by the Unicode
Consortium. Known as `Unicode IDNA Compatibility Processing <http://unicode.org/reports/tr46/>`_,
it provides for both a regular mapping for typical applications, as well as
a transitional mapping to help migrate from older IDNA 2003 applications.

For example, “Königsgäßchen” is not a permissible label as *LATIN CAPITAL
LETTER K* is not allowed (nor are capital letters in general). UTS 46 will
convert this into lower case prior to applying the IDNA conversion.
# Python 3
>>> import idna
>>> idna.encode(u'Königsgäßchen')
...
idna.core.InvalidCodepoint: Codepoint U+004B at position 1 of 'Königsgäßchen' not allowed
>>> idna.encode('Königsgäßchen', uts46=True)
b'xn--knigsgchen-b4a3dun'
>>> print(idna.decode('xn--knigsgchen-b4a3dun'))
königsgäßchen

Transitional processing provides conversions to help transition from the older 2003 standard to the current standard. For example, in the original IDNA specification, the *LATIN SMALL LETTER SHARP S* (ß) was converted into two *LATIN SMALL LETTER S* (ss), whereas in the current IDNA specification this conversion is not performed.

.. code-block:: pycon

    # Python 2
    >>> idna.encode(u'Königsgäßchen', uts46=True, transitional=True)
    'xn--knigsschen-lcb0w'

Implementors should use transitional processing with caution, only in rare cases where conversion from legacy labels to current labels must be performed (i.e. IDNA implementations that pre-date 2008). For typical applications that just need to convert labels, transitional processing is unlikely to be beneficial and could produce unexpected incompatible results.

``encodings.idna`` Compatibility
+++++++++++++++++++++++++++++++

Function calls from the Python built-in ``encodings.idna`` module are mapped to their IDNA 2008 equivalents using the ``idna.compat`` module. Simply substitute the ``import`` clause in your code to refer to the new module name.

Exceptions
---------

All errors raised during the conversion following the specification should raise an exception derived from the ``idna.IDNAError`` base class.

More specific exceptions that may be generated as ``idna.IDNABidiError`` when the error reflects an illegal combination of left-to-right and right-to-left characters in a label; ``idna.InvalidCodepoint`` when a specific codepoint is an illegal character in an IDN label (i.e. INVALID); and ``idna.InvalidCodepointContext`` when the codepoint is illegal based on its positional context (i.e. it is CONTEXTO or CONTEXTJ but the contextual requirements are not satisfied.)
Building and Diagnostics

The IDNA and UTS 46 functionality relies upon pre-calculated lookup tables for performance. These tables are derived from computing against eligibility criteria in the respective standards. These tables are computed using the command-line script `tools/idna-data`.

This tool will fetch relevant tables from the Unicode Consortium and perform the required calculations to identify eligibility. It has three main modes:

* `idna-data make-libdata`. Generates `idnadata.py` and `uts46data.py`, the pre-calculated lookup tables using for IDNA and UTS 46 conversions. Implementors who wish to track this library against a different Unicode version may use this tool to manually generate a different version of the `idnadata.py` and `uts46data.py` files.

* `idna-data make-table`. Generate a table of the IDNA disposition (e.g. PVALID, CONTEXTJ, CONTEXTO) in the format found in Appendix B.1 of RFC 5892 and the pre-computed tables published by IANA <http://iana.org/>.

* `idna-data U+0061`. Prints debugging output on the various properties associated with an individual Unicode codepoint (in this case, U+0061), that are used to assess the IDNA and UTS 46 status of a codepoint. This is helpful in debugging or analysis.

The tool accepts a number of arguments, described using `idna-data -h`. Most notably, the `--version` argument allows the specification of the version of Unicode to use in computing the table data. For example, `idna-data --version 9.0.0 make-libdata` will generate library data against Unicode 9.0.0.

Note that this script requires Python 3, but all generated library data will work in Python 2.7.

Testing

The library has a test suite based on each rule of the IDNA specification, as well as tests that are provided as part of the Unicode Technical Standard 46, `Unicode IDNA Compatibility Processing <http://unicode.org/reports/tr46/>`.

The tests are run automatically on each commit at Travis CI:

.. image:: https://travis-ci.org/kjd/idna.svg?branch=master
   :target: https://travis-ci.org/kjd/idna
Platform: UNKNOWN
Classifier: Development Status :: 5 - Production/Stable
Classifier: Intended Audience :: Developers
Classifier: Intended Audience :: System Administrators
Classifier: License :: OSI Approved :: BSD License
Classifier: Operating System :: OS Independent
Classifier: Programming Language :: Python
Classifier: Programming Language :: Python :: 2
Classifier: Programming Language :: Python :: 2.7
Classifier: Programming Language :: Python :: 3
Classifier: Programming Language :: Python :: 3.4
Classifier: Programming Language :: Python :: 3.5
Classifier: Programming Language :: Python :: 3.6
Classifier: Topic :: Internet :: Name Service (DNS)
Classifier: Topic :: Software Development :: Libraries :: Python Modules
Classifier: Topic :: Utilities
Requires-Python: >=2.7, !=3.0.*, !=3.1.*, !=3.2.*, !=3.3.*

Found in path(s):
* /opt/cola/permits/1144635275_1616115237.42/0/python-idna-2.8-6.module_el8.3.0+441+3b561464-1.src.rpm-cosi-expand-archive-vRHeNbDH/idna-2.8.tar.gz-cosi-expand-archive-RRR4bQBH/idna-2.8/idna.egg-info/PKG-INFO
* /opt/cola/permits/1144635275_1616115237.42/0/python-idna-2.8-6.module_el8.3.0+441+3b561464-1.src.rpm-cosi-expand-archive-vRHeNbDH/idna-2.8.tar.gz-cosi-expand-archive-RRR4bQBH/idna-2.8/PKG-INFO
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* /opt/cola/permits/1144635275_1616115237.42/0/python-idna-2.8-6.module_el8.3.0+441+3b561464-1.src.rpm-cosi-expand-archive-vRHeNbDH/python-idna.spec

1.1027 blinker 1.4+dfsg1

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1.1028 iptables 1.8.4 15.el8_3.3

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1.1030 python-dateutil 2.8.1

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1.1031 dialog 1.3 13.20171209.el8

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1.1032 snowball 0+svn585

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Vincent Rijmen, Antoon Bosselaers, Paulo Barreto

AES in libhcrypto

rijndael-alg-fst.c

@version 3.0 (December 2000)

Optimised ANSI C code for the Rijndael cipher (now AES)

@author Vincent Rijmen <vincent.rijmen@esat.kuleuven.ac.be>
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2. You may modify your copy or copies of the Library or any portion
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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.

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This option is useful when you wish to copy part of the code of
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4. You may copy and distribute the Library (or a portion or
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it with the complete corresponding machine-readable source code, which
must be distributed under the terms of Sections 1 and 2 above on a
medium customarily used for software interchange.

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

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

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

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

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

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

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

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

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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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[This is the first released version of the library GPL. It is
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1.1047 bind 9.16.1

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1.1048 e2fsprogs 1.45.4

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*/

Index: tdbsa/tdb.c
--- tdbsa.orig/tdb.c
+++ tdbsa/tdb.c
@@ -4,11 +4,11 @@
Last Changed Date: 2007-06-06 20:14:06 -0400 (Wed, 06 Jun 2007)
*/
/*
- Unix SMB/CIFS implementation.
+ trivial database library - standalone version

- trivial database library - private includes
-
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Theodore Ts'o
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This package was added to the e2fsprogs debian source package by Theodore Ts'o <tytso@mit.edu> on Sat Mar 15 15:33:37 EST 2003

It is part of the main e2fsprogs distribution, which can be found at:

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Upstream Author: Theodore Ts'o <tytso@mit.edu>

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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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#
# 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)
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Gadi Oxman, August 1995

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1.1055 kerberos 1.17

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```c
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_acquire_cred_shared.c
lib/gssapi/mechglue/g_acquire_cred_thread.c
lib/gssapi/mic/mechglue/g_mic_auth.c
```

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 Supported Libraries:

- mechglue/g_canon_name.c
- gssapi/g_compare_name.c
- gssapi/g_context_time.c
- gssapi/g_delete_sec_context.c
- mechglue/g_dup_name.c
- mechglue/g_exp_sec_context.c
- mechglue/g_init_sec_context.c
- mechglue/g_initialize.c
- mechglue/g_imp_name.c
- mechglue/g_imp_sec_context.c
- mechglue/g_init_sec_context.c
- mechglue/g_inquire_context.c
- mechglue/g_inquire_cred.c
- mechglue/g_glue.c
and the initial implementation of incremental propagation, including the following new or changed files:

```
include/spnego/spnego_hdr.h
./kadmin/server/ipropd_svc.c
./lib/kdb/iprop.kdb
./lib/kdb/kdb_convert.c
./lib/kdb/kdb_log.c
./lib/krb5/error_tables/kdb5_err.et
./kprop/kpropd_rpc.c
./kprop/kproplog.c
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.. parsed-literal::

   .. parsed-literal::

      lib/gssapi/generic/gssapi_err_generic.et
      lib/gssapi/mechglue/g_accept_sec_context.c
      lib/gssapi/mechglue/g_acquire_cred.c
      lib/gssapi/mechglue/g_canon_name.c
      lib/gssapi/mechglue/g_compare_name.c
      lib/gssapi/mechglue/g_context_time.c
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      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
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      lib/gssapi/mechglue/g_glue.c
      lib/gssapi/mechglue/g_imp_name.c
      lib/gssapi/mechglue/g_imp_sec_context.c
      lib/gssapi/mechglue/g_init_sec_context.c
      lib/gssapi/mechglue/g_initialize.c
      lib/gssapi/mechglue/g_inquire_context.c
      lib/gssapi/mechglue/g_inquire_cred.c
      lib/gssapi/mechglue/g_inquire_names.c
      lib/gssapi/mechglue/g_process_context.c
      lib/gssapi/mechglue/g_rel_buffer.c
and the initial implementation of incremental propagation, including
the following new or changed files:

.. parsed-literal::

   include/iprop_hdr.h
   kadmin/server/ipropd_svc.c
   lib/kdb/prop.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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lib/gssapi/generic/gssapi_err_generic.et
lib/gssapi/mechglue/g_accept_sec_context.c
lib/gssapi/mechglue/g_acquire_cred.c
lib/gssapi/mechglue/g_canon_name.c
lib/gssapi/mechglue/g_compare_name.c
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lib/gssapi/mechglue/g_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
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lib/gssapi/mechglue/g_init_sec_context.c
lib/gssapi/mechglue/g_initialize.c
lib/gssapi/mechglue/g_inquire_context.c
lib/gssapi/mechglue/g_inquire_cred.c
lib/gssapi/mechglue/g_inquire_names.c
lib/gssapi/mechglue/g_process_context.c
lib/gssapi/mechglue/g_rel_buffer.c
lib/gssapi/mechglue/g_rel_cred.c
lib/gssapi/mechglue/g_rel_name.c
lib/gssapi/mechglue/g_rel_oid_set.c
lib/gssapi/mechglue/g_seal.c
lib/gssapi/mechglue/g_sign.c
lib/gssapi/mechglue/g_store_cred.c
lib/gssapi/mechglue/g_unseal.c
lib/gssapi/mechglue/g_userok.c
lib/gssapi/mechglue/g_utils.c
lib/gssapi/mechglue/g_verify.c
lib/gssapi/mechglue/gssd_pname_to_uid.c
lib/gssapi/mechglue/mglueP.h
lib/gssapi/mechglue/oid_ops.c
lib/gssapi/spnego/gssapiP_spnego.h
lib/gssapi/spnego/spnego_mech.c
and the initial implementation of incremental propagation, including
the following new or changed files:

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

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import os
import sys
import re

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

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

# Check a comment for boilerplate violations. Return true if the comment
# is a license statement.
def check_comment(comment, fname, ln, code_seen, nonlicense_seen):
    text_seen = False
    is_license = False
    for line in comment:
        if not is_license and indicates_license(line):
            is_license = True
            text_seen = True
        if text_seen:
            warn(fname, ln, 'License begins after first line of comment')
elif code_seen:
    warn(fname, ln, 'License after code')
elif nonlicense_seen:
    warn(fname, ln, 'License after non-license comments')
break

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

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

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

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

ln += 1

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

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.. toctree::
   :hidden:

   copyright.rst

.. include:: notice.rst
   :start-line: 2

/* .*-mode: c; c-basic-offset: 4; indent-tabs-mode: nil .*- */
/* *

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* @version 3.0 (December 2000)
*
* Optimised ANSI C code for the Rijndael cipher (now AES)
*
* @author Vincent Rijmen <vincent.rijmen@esat.kuleuven.ac.be>
* @author Antoon Bosselaers <antoon.bosselaers@esat.kuleuven.ac.be>
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1.1062 libtext-iconv-perl 1.7

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Text::Iconv Version 1.6

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Description
------------

This module provides a Perl interface to the iconv() codeset
conversion function, as defined by the Single UNIX Specification. For
more details see the POD documentation embedded in the file Iconv.pm,
which will also be installed as Text::Iconv(3) man page.

Prerequisites
------------

Your system should be compliant with the Single UNIX Specification or
at least provide iconv_open(), iconv() and iconv_close() functions
compliant with it.

Note that the possible conversions and the quality of the conversions
depend on the available iconv conversion tables and algorithms, which are in most cases supplied by the operating system vendor. Some systems also allow you to build your own tables (e.g., HP-UX, Tru64 UNIX, and AIX provide the genxlt(1) command).

It is also possible to use a separate iconv library such as GNU libiconv package, just make sure that the desired library is found (see <http://www.gnu.org/directory/localization/libiconv.html>).

Building the module
--------------------

Since the Single UNIX Specification only specifies an interface, several issues are left to the implementation to define, namely:

1. The supported codesets
2. The supported conversions
3. The names for the supported codesets

Please check your system documentation for the above points.

The module can be built using this sequence of commands:

```
perl Makefile.PL
make
make test
```

On some systems, the iconv functions are in libc; on others (and when you want to use a separate iconv library, such as GNU libiconv), you have to link with -liconv. Makefile.PL tries to automatically detect this. However, if your iconv library is in a non-standard path, you might have to help it. You can specify library and include paths like this:

```
perl Makefile.PL LIBS='-L/path/to/lib' INC='-I/path/to/include
```

You might also have to do this if you have multiple iconv implementations installed and want to use a specific one.

The purpose of the test scripts (run by "make test") is to check if an iconv library can be found, and if the iconv functions can be called. It is neither intended to find out which conversions are supported, nor to test the quality of the conversions provided by your iconv library. However, since the iconv functions can only be tested by calling them, which in turn requires the specification of codesets to be converted. The test scripts try some conversions which seem to be widely supported. Conversions not supported by your iconv implementation are skipped, but for the purpose outlined above this is
no problem, as it shows that the iconv functions are working. There is no standard way to find out which conversions are supported by an implementation. This is also the reason why Text::Iconv can't provide platform-independent support for codeset identifiers (even if it would be nice to have).

Installation
------------

make install

Feedback
--------

Text::Iconv was tested on various platforms and with different iconv implementations.

If you built Text::Iconv on a platform where you needed to specify additional libraries, or where none of the codeset identifiers in the test scripts are supported, please drop me a note.

Thanks
------

Thanks go to all those who reported bugs and suggested features.

Michael Piotrowski <mxp@dynalabs.de>

Found in path(s):
* /opt/cola/permits/1144640811_1616146132.37/0/libtext-iconv-perl-1-7-orig-tar-bz2/Text-Iconv-1.7/README

1.1063 python-pip 9.0.3 18.el8
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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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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)
Otherwise, if the work is a derivative of the Library, you may
distribute the object code for the work under the terms of Section 6.
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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
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b) Use a suitable shared library mechanism for linking with the
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rather than copying library functions into the executable, and (2)
will operate properly with a modified version of the library, if
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interface-compatible with the version that the work was made with.

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1.1069 sed 4.7

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The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source
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Apache-1.1
Apache-2.0
APAFML
APL-1.0
APSL-1.0
APSL-1.1
APSL-1.2
APSL-2.0
Artistic-1.0-cl8
Artistic-1.0-Perl
Artistic-1.0
Artistic-2.0
Bahyph
Barr
Beerware
BitTorrent-1.0
BitTorrent-1.1
Borceux
BSD-1-Clause
BSD-2-Clause-FreeBSD
BSD-2-Clause-NetBSD
BSD-2-Clause-Patent
BSD-2-Clause
BSD-3-Clause-Attribution
BSD-3-Clause-Clear
BSD-3-Clause-LBNL
BSD-3-Clause-No-Nuclear-License-2014
BSD-3-Clause-No-Nuclear-License
BSD-3-Clause-No-Nuclear-Warranty
BSD-3-Clause
BSD-4-Clause-UC
BSD-4-Clause
BSD-Protection
BSD-Source-Code
BSL-1.0
bzip2-1.0.5
bzip2-1.0.6
Caldera
CATOSL-1.1
CC-BY-1.0
CC-BY-2.0
CC-BY-2.5
CC-BY-3.0
CC-BY-4.0
CC-BY-NC-1.0
CC-BY-NC-2.0
CC-BY-NC-2.5
CC-BY-NC-3.0
CC-BY-NC-4.0
CC-BY-NC-ND-1.0
CC-BY-NC-ND-2.0
CC-BY-NC-ND-2.5
CC-BY-NC-ND-3.0
CC-BY-NC-ND-4.0
CC-BY-NC-SA-1.0
CC-BY-NC-SA-2.0
CC-BY-NC-SA-2.5
CC-BY-NC-SA-3.0
CC-BY-NC-SA-4.0
CC-BY-ND-1.0
CC-BY-ND-2.0
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CC-BY-ND-3.0
CC-BY-ND-4.0
CC-BY-SA-1.0
CC-BY-SA-2.0
CC-BY-SA-2.5
CC-BY-SA-3.0
CC-BY-SA-4.0
CC0-1.0
CDDL-1.0
CDDL-1.1
CDLA-Permissive-1.0
CDLA-Sharing-1.0
CECILL-1.0
CECILL-1.1
CECILL-2.0
CECILL-2.1
CECILL-B
CECILL-C
ClArtistic
CNRI-Jython
CNRI-Python-GPL-Compatible
CNRI-Python
Condor-1.1
CPAL-1.0
CPL-1.0
CPOPL-1.02
Crossword
CrystalStacker
CUA-OPL-1.0
Cube
curl
D-FSL-1.0
diffmark
DOC
Dotseqn
DSDP
dvipdfm
ECL-1.0
ECL-2.0
EFL-1.0
EFL-2.0
eGenix
Entessa
EPL-1.0
EPL-2.0
ErlPL-1.1
EUDatagrid
EUPL-1.0
EUPL-1.1
EUPL-1.2
Eurosym
Fair
Frameworx-1.0
FreeImage
FSFAP
FSFUL
FSFULLR
FTL
GFDL-1.1-only
GFDL-1.1-or-later
GFDL-1.2-only
GFDL-1.2-or-later
GFDL-1.3-only
GFDL-1.3-or-later
Giftware
GL2PS
Glide
Glulxe
gnuplot
GPL-1.0-only
GPL-1.0-or-later
GPL-2.0-only
GPL-2.0-or-later
GPL-3.0-only
GPL-3.0-or-later
gSOAP-1.3b
HaskellReport
HPND
IBM-pibs
ICU
IJG
ImageMagick
iMatix
Imlib2
Info-ZIP
Intel-ACPI
Intel
Interbase-1.0
IPA
IPL-1.0
ISC
JasPer-2.0
JSON
LAL-1.2
LAL-1.3
Latex2e
Leptonica
LGPL-2.0-only
LGPL-2.0-or-later
LGPL-2.1-only
LGPL-2.1-or-later
NPL-1.1
NPOSL-3.0
NRL
NTP
OCCT-PL
OCCLC-2.0
ODbl-1.0
OFL-1.0
OFL-1.1
OGTSL
OLDAP-1.1
OLDAP-1.2
OLDAP-1.3
OLDAP-1.4
OLDAP-2.0.1
OLDAP-2.0
OLDAP-2.1
OLDAP-2.2.1
OLDAP-2.2.2
OLDAP-2.2
OLDAP-2.3
OLDAP-2.4
OLDAP-2.5
OLDAP-2.6
OLDAP-2.7
OLDAP-2.8
OML
OpenSSL
OPL-1.0
OSET-PL-2.1
OSL-1.0
OSL-1.1
OSL-2.0
OSL-2.1
OSL-3.0
PDDL-1.0
PHP-3.0
PHP-3.01
Plexus
PostgreSQL
psfrag
psutils
Python-2.0
Qhull
QPL-1.0
Rdisc
RHeCos-1.1
RPL-1.1
RPL-1.5
RPSL-1.0
RSA-MD
RSCPL
Ruby
SAX-PD
Saxpath
SCEA
Sendmail
SGI-B-1.0
SGI-B-1.1
SGI-B-2.0
SimPL-2.0
SISSL-1.2
SISSL
Sleepycat
SMLNJ
SMPPL
SNIA
Spencer-86
Spencer-94
Spencer-99
SPL-1.0
SugarCRM-1.1.3
SWL
TCL
TCP-wrappers
TMate
TORQUE-1.1
TOSL
Unicode-DFS-2015
Unicode-DFS-2016
Unicode-TOU
Unlicense
UPL-1.0
Vim
VOSTROM
VSL-1.0
W3C-19980720
W3C-20150513
W3C
Watcom-1.0
Wsuipa
WTFPL
X11
Xerox
XFree86-1.1
xinetd
Xnet
xpp
XSkat
YPL-1.0
YPL-1.1
Zed
Zend-2.0
Zimbra-1.3
Zimbra-1.4
zlib-acknowledgement
Zlib
ZPL-1.1
ZPL-2.0
ZPL-2.1
AGPL-3.0
eCos-2.0
GFDL-1.1
GFDL-1.2
GFDL-1.3
GPL-1.0+
GPL-1.0
GPL-2.0+
GPL-2.0-with-autoconf-exception
GPL-2.0-with-bison-exception
GPL-2.0-with-classpath-exception
GPL-2.0-with-font-exception
GPL-2.0-with-GCC-exception
GPL-2.0
GPL-3.0+
GPL-3.0-with-autoconf-exception
GPL-3.0-with-GCC-exception
GPL-3.0
LGPL-2.0+
LGPL-2.0
LGPL-2.1+
LGPL-2.1
LGPL-3.0+
LGPL-3.0
Nunit
StandardML-NJ
wxWindows

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1.1079 patch 2.7.6

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1.1084 libsmi 0.4.8 22.el8

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

Title:shhopt - library for parsing command line options.
Version:1.1.2
Entered-date:23MAR97
Description:C-functions for parsing command line options, both
  traditional one-character options, and GNU'ish
  --long-options.
Keywords: programming, library, lib, commandline, options
Author: s.h.huseby@usit.uio.no (Sverre H. Huseby)
Primary-site: http://www.ifi.uio.no/~sverrehu/pub-unix/
Alternate-site: sunsite.unc.edu/pub/Linux/libs
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1.1085 libusb 1.0.23

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That's all there is to it!

1.1086 libassuan 2.5.3

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When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

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

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.
Although the Lesser General Public License is less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

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

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

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

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

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

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

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

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

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

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

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

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

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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.

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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
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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.

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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.

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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
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d) Convey the object code by offering access from a designated place (gratis or for a charge), and offer equivalent access to the Corresponding Source in the same way through the same place at no further charge. You need not require recipients to copy the Corresponding Source along with the object code. If the place to copy the object code is a network server, the Corresponding Source may be on a different server (operated by you or a third party) that supports equivalent copying facilities, provided you maintain clear directions next to the object code saying where to find the Corresponding Source. Regardless of what server hosts the Corresponding Source, you remain obligated to ensure that it is available for as long as needed to satisfy these requirements.

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.

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1.1090 gnome-themes-extra 3.28-r1

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bzip2/libbzip2 version 1.0.6 of 6 September 2010

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That's all there is to it!
DRuntime: Runtime Library for the D Programming Language

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Version 3.1, 31 March 2009

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Installing Wireshark on FreeBSD/OpenBSD/NetBSD/DragonFly BSD
========================================================================

1. Extra packages required
2. Compiling Wireshark
3. Berkeley Packet Filter (BPF) requirement
4. Running Wireshark as a non-root user

1. Extra packages required
---------------------------------------------

Wireshark requires a number of additional programs to function.
Install the latest versions of the following programs before compiling:

The easiest way to install these is by using your operating system's ports or packages system. If you prefer to build from source, the programs can be found at the following sites:

glib 2.32 or later:
    ftp.gnome.org:/pub/gnome/sources/glib/

pkgconfig:
    http://pkgconfig.freedesktop.org/releases/

python 3.4 or later:
    https://www.python.org/downloads/source/

If you want to use the Wireshark GUI, install one or both of these toolkits:

Qt 5.2 or later:
    http://download.qt-project.org/official_releases/qt/
(These programs may require additional dependencies)

Additional programs can be used to enhance Wireshark's functionality. These can be found by typing ./configure --help or looking at the output at the end of running the configure script.

2. Compiling Wireshark
-----------------------
To compile Wireshark with the default options, run configure, make and make install (you may have to run "autogen.sh" first):

```
./configure
make
make install
```

The configure and make steps can be run as a non-root user and you can run Wireshark from the compilation directory itself. You must run make install as root in order to copy the program to the proper directories.

3. Berkeley Packet Filter (BPF) requirement
--------------------------------------------
In order to capture packets (with Wireshark/TShark, tcpdump, or any other packet capture program) on a BSD system, your kernel must have the Berkeley Packet Filter mechanism enabled. The default kernel configurations in recent versions of BSD systems have this enabled already. To verify the bpf device is present, look in the /dev directory:

```
ls -1 /dev/bpf*
```

You should see one or more bpf devices listed similar to this:

```
crw------ 1 root wheel 0, 90 Aug 10 21:05 /dev/bpf0
crw------ 1 root wheel 0, 91 Aug 10 21:05 /dev/bpf1
```

Packet-capturing programs will pick the first bpf device that's not in use. Recent versions of most BSDs will create bpf devices as needed, so you don't have to configure the number of devices that will be available.

4. Running wireshark as a non-root user
------------------------------------------
Since the bpf devices are read-only by the owner (root), you normally have to run packet capturing programs such as Wireshark as root. It is
safer to run programs as a non-root user if possible. To run Wireshark as a non-root user, you must change the permissions on the bpf device(s). If you are the only user that needs to use Wireshark, the easiest way is to change the owner of each bpf device to your username. You can also add the read/write ability to the group (typically wheel) and add users that need to use Wireshark to the wheel group. Check your operating system's documentation on how to make permanent these changes as they are often reset upon reboot; if /dev is implemented with devfs, it might be possible to configure devfs to create all bpf devices owned by a particular user and/or group and with particular permissions. In FreeBSD 6.0 and later this can be done by creating an /etc/devfs.rules file with content such as

```
[localrules=10]
add path 'bpf*' {mode and permissions}
```

where "mode and permissions" can include clauses such as

```
mode {octal permissions}
```

to set the permissions on the device (e.g., "mode 0660" to set the permissions to rw-rw-r--),

```
user {user}
```

to set the user who owns the device, or

```
group {group}
```

to set the group that owns the device and adding a line such as

```
devfs_system_ruleset=localrules
```

to /etc/rc.conf. For example, an /etc/devfs.rules file with

```
[localrules=10]
add path 'bpf*' mode 0660 group wheel
```

will grant read and write permissions on all BPF devices to all users in the "wheel" group.

```c
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 * By Gerald Combs <gerald@wireshark.org>
 * Copyright 1998 Gerald Combs
 * SPDX-License-Identifier: GPL-2.0-or-later
 */
```
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1.1105 sudo 1.9.5p2-r0

1.1105.1 Available under license:

The following list of people, sorted by last name, have contributed code or patches to this implementation of sudo since I began maintaining it in 1993. This list is known to be incomplete— if you believe you should be listed, please send a note to sudo@sudo.ws.

Ackeret, Matt
Adler, Mark
Allbery, Russ
Anderson, Jamie
Andrew, Nick
Andric, Dimitry
Barron, Danny
Bates, Tom
Behan, Zdenk
Bellis, Ray
Benali, Elias
Beverly, Jamie
Boardman, Spider
Bos, Sander
Bostley, P.J.
Bowes, Keith
Boyce, Keith Garry
Brantley, Michael
Braun, Rob
Bezina, Pavel
Brooks, Piete
Brown, Jerry
Burr, Michael E
Burton, Ross
Bussjaeger, Andreas
Calvin, Gary
Campbell, Aaron
Knox, Tim
Komarnitsky, Alek O.
Kondrashov, Nikolai
Kopeek, Daniel
Kranenburg, Paul
Krause, David
Lakin, Eric
Larsen, Case
Levin, Dmitry V.
Libby, Kendall
Lobbes, Phillip E.
McIntyre, Jason
MacKenzie, David J.
McLaughlin, Tom
Makey, Jeff
Mallayya, Sangamesh
Marchionna, Michael D.
Markham, Paul
Martinian, Emin
Meskes, Michael
Michael, David
Miller, Todd C.
Minier, Loc
Moffat, Darren
Moldung, Jan Thomas
Morris, Charles
Mueller, Andreas
Miller, Dworkin
Nieusma, Jeff
Nikitser, Peter A.
Nussel, Ludwig
Ouellet, Jean-Philippe
Paquet, Eric
Paradis, Chantal
Pasteleurs, Frederic
Percival, Ted
Perera, Andres
Peron, Christian S.J.
Peschel, Aaron
Peslyak, Alexander
Peterson, Toby
Petten, Diego Elio
Pickett, Joel
Plotnick, Alex
de Raadt, Theo
Rasch, Gudleik
Reid, Steve
Richards, Matt
Rossum, Guido van
Rouillard, John P.
Rowe, William A., Jr.
Roy, Alain
Ruusame, Elan
Ryabinkin, Eygene
Sato, Yuichi
Sanchez, Wilfredo
Sanders, Miguel
Sasaki, Kan
Saucier, Jean-Francois
Schoenfeld, Patrick
Schuring, Arno
Schwarze, Ingo
Scott, Dougal
Sieger, Nick
Simon, Thor Lancelot
Slemko, Marc
Smith, Andy
Sobrado, Igor
Soulen, Steven
Spangler, Aaron
Spradling, Cloyce D.
Spradling, Michael
Stier, Matthew
Stoeckmann, Tobias
Street, Russell
Stritzky, Tilo
Stroucken, Michael
Tarrall, Robert
Thomas, Matthew
Todd, Giles
Toft, Martin
Torek, Chris
Tucker, Darren
Uhl, Robert
Uzel, Petr
Valery, Reznic
Van Dinter, Theo
Venckus, Martynas
de Vries, Maarten
Wagner, Klaus
Walsh, Dan
Warburton, John
Webb, Kirk
Wetzel, Timm
Wieringen, Marco van
Wilk, Jakub
Winiger, Gary
Wood, David
Zacarias, Gustavo
Zolnowsky, John

The following people have worked to translate sudo into other languages as part of the Translation Project, see https://translationproject.org for more details.

Albuquerque, Pedro
Blittermann, Mario
Bogusz, Jakub
Buo-ren, Lin
Casagrande, Milo
Castro, Felipe
Cho, Seong-ho
Chornoivan, Yuri
Diguez, Francisco
Fontenelle, Rafael
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Hamasaki, Takeshi
Hamming, Peter
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Huftthammer, Karl Ove
Jerovek, Damir
Karvonen, Jorma
Kazik, Duan
Kelemen, Gbor
Keechi, Mehmet
Koir, Klemen
Kozlov, Yuri
Kramer, Jakob
Krznav, Tomislav
Marchal, Frederic
Margievius, Algimantas
Maryanov, Pavel
Nikoli, Miroslav
Nylander, Daniel
Psa, Petr
Puente, Enol
Putanec, Boidar
Qun, Trn Ngc
Rasmussen, Sebastian
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1.1121 itsdangerous 1.1.0
1.1121.1 Available under license :

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

import io
import re

from setuptools import find_packages
from setuptools import setup

with io.open("README.rst", "rt", encoding="utf8") as f:
    readme = f.read()

with io.open("src/itsdangerous/__init__.py", "rt", encoding="utf8") as f:
version = re.search(r"__version__ = "(.*?)", f.read()).group(1)

setup(
    name="itsdangerous",
    version=version,
    url="https://palletsprojects.com/p/itsdangerous/",
    project_urls={
        "Documentation": "https://itsdangerous.palletsprojects.com/",
        "Code": "https://github.com/pallets/itsdangerous",
        "Issue tracker": "https://github.com/pallets/itsdangerous/issues",
    },
    license="BSD",
    author="Armin Ronacher",
    author_email="armin.ronacher@active-4.com",
    maintainer="Pallets Team",
    maintainer_email="contact@palletsprojects.com",
    description="Various helpers to pass data to untrusted environments and back.",
    long_description=readme,
    packages=find_packages("src"),
    package_dir={"": "src"},
    include_package_data=True,
    python_requires=">=2.7, !=3.0.*, !=3.1.*, !=3.2.*, !=3.3.*",
    classifiers=[
        "Development Status :: 5 - Production/Stable",
        "Intended Audience :: Developers",
        "License :: OSI Approved :: BSD License",
        "Operating System :: OS Independent",
        "Programming Language :: Python",
        "Programming Language :: Python :: 2",
        "Programming Language :: Python :: 2.7",
        "Programming Language :: Python :: 3",
        "Programming Language :: Python :: 3.4",
        "Programming Language :: Python :: 3.5",
        "Programming Language :: Python :: 3.6",
        "Programming Language :: Python :: 3.7",
    ],
)

Found in path(s):
* /opt/cola/permits/1144331460_1615905532.78/0/pallets-itsdangerous-1-1-0-0-g6e63598-1-tar-gz/pallets-itsdangerous-6e63598/setup.py
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----

The initial implementation of itsdangerous was inspired by Django's signing module.

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Found in path(s):
* /opt/cola/permits/1144331460_1615905532.78/0/pallets-itsdangerous-1-1-0-0-g6e63598-1-tar-gz/pallets-itsdangerous-6e63598/LICENSE.rst
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Sometimes you just want to send some data to untrusted environments. But how to do this safely? The trick involves signing. Given a key only you know, you can cryptographically sign your data and hand it over to someone else. When you get the data back you can easily ensure that nobody tampered with it.

Granted, the receiver can decode the contents and look into the package, but they cannot modify the contents unless they also have your secret key. So if you keep the key secret and complex, you will be fine.

Internally itsdangerous uses HMAC and SHA-512 for signing by default. The initial implementation was inspired by Django's signing module <https://docs.djangoproject.com/en/dev/topics/signing/>_. It also supports JSON Web Signatures (JWS). The library is BSD licensed.

Installing
----------

Install and update using `pip`_

.. code-block:: text

   pip install -U itsdangerous


Example Use Cases
------------------

- You can serialize and sign a user ID in a URL and email it to them
to unsubscribe from a newsletter. This way you don’t need to
generate one-time tokens and store them in the database. Same thing
with any kind of activation link for accounts and similar things.
- Signed objects can be stored in cookies or other untrusted sources
which means you don’t need to have sessions stored on the server,
which reduces the number of necessary database queries.
- Signed information can safely do a roundtrip between server and
client in general which makes them useful for passing server-side
state to a client and then back.

Table of Contents
-----------------
.. toctree::

   signer
   serializer
   exceptions
   timed
   url_safe
   jws
   encoding
   license
   changes

Found in path(s):
* /opt/cola/permits/1144331460_1615905532.78/0/pallets-itsdangerous-1-1-0-0-g6e63598-1-tar-gz/pallets-
itsdangerous-6e63598/docs/index.rst

1.1122  libcap 2.26  4.el8

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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.

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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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1.1126 libxshmfence 1.3 2.el8
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* configure.ac, Makefile.am: The original versions were derived from the ones in the XML Catalog Manager project, version 2.2.

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* atf-c/ui.c: The format_paragraph and format_text functions were derived form the ones in the Monotone project, revision 3a0982da308228d796df35f98d787c5cff2bb5b6.

Author: Julio Merino <jmmv@NetBSD.org>

* atf-c++/detail/io.hpp, atf-c++/detail/io.cpp, atf-c++/detail/io_test.cpp: These files were derived from the file_handle, systembuf, pipe and piostream classes and tests found in the Boost.Process library.

Author: Julio Merino <jmmv84@gmail.com>

* admin/check-style.sh, admin/check-style-common.awk, admin/check-style-cpp.awk, admin/check-style-shell.awk: These files, except the first one, were first implemented in the Buildtool project. They were later adapted to be part of Boost.Process and, during that process, the shell script was created.

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1.1133 unicon 20.12

1.1133.1 Available under license:

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Found in path(s):
* /opt/cola/permits/1144331567_1615931298.61/0/unicon-20-12-zip/unicon/trial/addplugin.py
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Metadata-Version: 2.1
Name: unicon
Version: 20.12
Summary: Unicon Connection Library
Home-page: https://developer.cisco.com/pyats/
Author: Cisco Systems Inc.
Author-email: pyats-support-ext@cisco.com
License: Apache 2.0
Keywords: unicon connection pyats cisco
Platform: UNKNOWN
Classifier: Development Status :: 6 - Mature
Classifier: Development Status :: 5 - Production/Stable
Classifier: Environment :: Console
Classifier: Intended Audience :: Developers
Classifier: Intended Audience :: Telecommunications Industry
Classifier: Intended Audience :: Information Technology
Classifier: Intended Audience :: System Administrators
Unicon - Universal Connection Library

Unicon is a package aiming to provide a unified connection experience to network devices through typical command-line management interface. By wrapping the underlying session (eg, telnet, ssh), Unicon provides:

- direct and proxied connections through any common CLI interface (telnet, ssh, serial etc)
- power of expect-like programming without having to deal with low-level logic
- multi-vendor support through an agnostic API interface
- seamless handling of CLI modes (eg, enable, configure, admin-configure mode)
- rejected commands, command error detections
- value-add statful services (specific to the platform)

and is extensible: platform supports and services are implemented via open-source plugins.

Unicon is the standard, go-to CLI connection implementation for 'Cisco pyATS'.
framework.

.. _Cisco pyATS: https://developer.cisco.com/site/pyats/

This package was initially developed internally in Cisco, and is now release to the general public starting late 2017 through `Cisco DevNet`_.

https://developer.cisco.com/pyats/

.. _Cisco DevNet: https://developer.cisco.com/

Requirements
-------------

- Linux/macOS/WSL
- Python 3.4+

Quick Start
-----------

.. code-block:: bash

    bash$ pip install unicon

For more information on setting up your Python development environment, such as creating virtual environment and installing `pip` on your system, please refer to `Virtual Environment and Packages`_ in Python tutorials.

.. _Virtual Environment and Packages: https://docs.python.org/3/tutorial/venv.html

Examples
--------

See example of a Unicon connection usage with Cisco IOS devices at:

https://github.com/CiscoDevNet/pyats-ios-sample

In addition, there is a sample plugin package you can follow to develop Unicon plugins for new platforms on top of Unicon:

https://github.com/CiscoDevNet/pyats-plugin-examples/tree/master/unicon_plugin_example

Support & Community
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See https://developer.cisco.com/docs/pyats/#!license-support page for details.
1.1134 iptables 1.8.4

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1.1141 celt051 0.5.1.3 15.el8

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1.1142 axios 0.21.1

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1.1143 vim 8.1.2269

1.1144 libsmbios 2.4.3
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/* Whom: Steve Mertz <steve@dragon-ware.com> */
/* Date: 20010111 */
/* Why: Because I couldn't find one that I liked. So I wrote this one. */
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This package was debianized by Jose Luis Tallon <jltallon@adv-solutions.net> on Fri, 1 Jul 2005 23:34:21 +0200.

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1.1149 e2fsprogs 1.45.6 1.el8

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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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#
# In order to use this stub, the following makefile variables must be defined.
#
# BSIDL_VERSION = 1.0
# BSIDL_IMAGE = libce
# BSIDL_MYDIR = et
# BSIDL_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-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: tdba/tdb.c

===================================================================
--- tdba/tdb.c

--- tdba.org/tdb.c
+++ tdbsa/tdb.c
@@ -4,11 +4,11 @@ Rev: 23371
Last Changed Date: 2007-06-06 20:14:06 -0400 (Wed, 06 Jun 2007)
*/
/*
- Unix SMB/CIFS implementation.
+ trivial database library - standalone version

- trivial database library - private includes
-
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This is the Debian GNU/Linux prepackaged version of the EXT2 file
system utilities (e2fsck, mke2fs, etc.). The EXT2 utilities were
written by Theodore Ts'o <tytso@mit.edu> and Remy Card <card@masi.ibp.fr>.

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

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Theodore Ts'o
23-June-2007

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It is part of the main e2fsprogs distribution, which can be found at:

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Upstream Author: Theodore Ts'o <tytso@mit.edu>

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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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The original unzip source code has been extensively modified and almost entirely rewritten (changes include random zipfile access rather than sequential; replacement of unimplode() with explode(); replacement of old unshrink() with new (unrelated) unshrink(); replacement of output routines; addition of inflate(), wildcards, filename-mapping, text translation, ...; etc.). As far as we can tell, only the core code of the unreduce method remained substantially similar to Mr. Smith's original source. As of UnZip 5.42, the complete core code is now covered by the Info-ZIP Licence. Therefore, support for the reduce method has been removed.
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*
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*
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"He says that he thought that whoever contacted him understood that he has no objection to the Info-ZIP group's inclusion of his code. His primary concern is that it remain freely distributable, he said."

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The decompression core code for the deflate method (inflate.[ch],
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--------------------------------------------------------------------------

1.1152 async-validator 1.8.5

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1.1153 isns-utils 0.99 1.el8

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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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1.1154 libfontenc 1.1.4-r0

1.1154.1 Available under license :

    # Maintainer: Natanael Copa <ncopa@alpinelinux.org>
    pkgname=libart-lgpl
    pkgver=2.3.21
    pkgrel=6
    pkgdesc="A library for high-performance 2D graphics"
    url="https://www.levien.com/libart/
    arch="all"
    options="!check"  # No test suite.
    license="LGPL-2.0-or-later"
    subpackages="$pkgname-dev"
    source="https://download.gnome.org/sources/libart_lgpl/2.3/libart_lgpl-$pkgver.tar.bz2
"

    builddir="$srcdir/libart_lgpl-$pkgver"

    prepare() {
        update_config_sub
        default_prepare
    }

    build() {
        ./configure \
        --build=$CBUILD \
        --host=$CHOST \
        --prefix=/usr
        make
    }

    package() {
        make DESTDIR="$pkgdir" install
    }
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pkgname=py3-flake8-copyright
__pkgname=flake8-copyright
pkgver=0.2.2
pkgrel=1
pkgdesc="Extension for flake8 which checks for copyrights"
options="!check" # No testsuite
url="https://github.com/savoirfairelinux/flake8-copyright"
arch="noarch"
license="MIT"
depends="py3-flake8 py3-setuptools"
source="https://files.pythonhosted.org/packages/source/${__pkgname:0:1}/${__pkgname}/${__pkgname}-${pkgver}.tar.gz"
builddir="$/srcdir/${__pkgname}-${pkgver}

replaces="py-flake8-copyright" # Backwards compatibility
provides="py-flake8-copyright=${pkgver}-${pkgrel}" # Backwards compatibility

build() {
python3 setup.py build
}

package() {
python3 setup.py install --prefix=/usr --root="${pkgdir}"
}

sha512sums="8ade49f386e67d14e4b826946b947454cf2502ff249a9ab1d359f61fa42ebc2b17dd465708894cf82ffdi53f0be1bed746464220d40d9d4dc1b07940ec280f28 flake8-copyright-0.2.2.tar.gz"

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Hwaci
6200 Maple Cove Lane
Charlotte, NC 28269
USA
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see http://www.sqlite.org/copyright.html
# Automatically generated by apkbuild-cpan, template 1
# Contributor: Valery Kartel <valery.kartel@gmail.com>
# Maintainer: Valery Kartel <valery.kartel@gmail.com>

pkgname=perl-bsd-resource
_pkgreal=BSD-Resource
pkgver=1.2911
pkgrel=4
pkgdesc="Perl extension implements the BSD process resource limit functions"
url="https://metacpan.org/release/BSD-Resource"
arch="all"
license="GPL-1.0-or-later OR Artistic-1.0-Perl"
makedepends="perl-dev"
subpackages="$pkgname-doc"
source="https://cpan.metacpan.org/authors/id/J/JH/JHI/$pkgreal-$pkgver.tar.gz"

builddir="$srcdir/$pkgreal-$pkgver"

prepare() {
    default_prepare
    export CFLAGS=$(perl -MConfig -E 'say $Config{ccflags}')
    PERL_MM_USE_DEFAULT=1 perl Makefile.PL INSTALLDIRS=vendor
}

build() {
    export CFLAGS=$(perl -MConfig -E 'say $Config{ccflags}')
    make
}

check() {
    make test
}

package() {
    make DESTDIR="$pkgdir" install
    find "$pkgdir" ! (-name perllocal.pod -o -name .packlist ) -delete
}

sha512sums="d0032d4b1c7c0468ed1c6d8f57b885f6cb997a5039d754c8cb60b2067daedaf53bd15fb6561a3d0f828df16
dfa5417f663b8065ba65f4fe16de9262728b3b6b85  BSD-Resource-1.2911.tar.gz"

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source="license-list-data-$pkgver.tar.gz::https://github.com/spdx/license-list-data/archive/v$pkgver.tar.gz"
builddir="$srcdir/license-list-data-$pkgver"
subpackages="$pkgname-list"

_types="html json rdfa rdfnt rdfturtle rdfxml template text"

for type in $_types; do
subpackages="$subpackages $pkgname-$type:_subpkg"
done

build() {
cd "$builddir"
}

package() {
mkdir -p "$pkgdir"
}

_subpkg() {
local type=${subpkgname/$pkgname-/}
pkgdesc="$pkgdesc ($type)"
install_if="$pkgname"
mkdir -p "$subpkgdir/usr/share/spdx"
cp -r "$builddir"/$type "$subpkgdir"/usr/share/spdx/
}

list() {
pkgdesc="$pkgdesc (licence list)"
mkdir -p "$subpkgdir"/usr/share/spdx
local i; for i in $builddir/text/*.txt; do
local license=${i##*/}
echo ${license%.*} >> "$subpkgdir"/usr/share/spdx/license.lst
done
}

sha512sums="0950540df050fb7f7ce92f5ad1bf756725e233d701f0c5b2fc5bfa85da65bb3440de7fd78b4b1d8a41deab4e461a5f1018f4869d9f3e0428a5a64c32c01c60 license-list-data-3.8.tar.gz"

1.1155 python-importlib-metadata 1.5.0

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Mathieu Desnoyers
May 13th, 2009

IBM Corporation allowed LGPLv2.1+ licensing of their contribution to the userspace RCU library in a patch submitted on May 8, 2009 from Paul E. McKenney and reviewed by Steven L. Bennett:


I (Mathieu Desnoyers) re-implemented ACCESS_ONCE(), likely(), unlikely() and barrier() from scratch without reference to the original code.
Bert Wesarg <bert.wesarg@googlemail.com> approved LGPL relicensing of his patch in an email dated May 13, 2009:

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xchg() primitives has been rewritten from a MIT-licensed cmpxchg for Intel and powerpc. They are MIT-licensed and therefore usable in LGPL code. This cmpxchg code was obtained from the atomic_ops project:

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I (Mathieu Desnoyers) wrote the remainder of the code.

The license for the library files in this project was therefore changed to LGPLv2.1 on May 13, 2009, as detailed in LICENSE.

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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, which became Zope Corporation. In 2001, the Python Software Foundation (PSF, see https://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation was a sponsoring member of the PSF.

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0.9.0 thru 1.2  1991-1995  CWI     yes
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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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(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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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.

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copy of the library already present on the user's computer system,
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will operate properly with a modified version of the library, if
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1.1174 libnetfilter-conntrack 1.0.7

1.1174.1 Available under license :

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